

US Army Corps of Engineers Rock Island District



Defense Environmental Restoration Program for Formerly Used Defense Sites Ordnance and Explosive Waste

Archives Search Report

FINDINGS

for the former

CAMP BUTNER

BUTNER, NORTH CAROLINA Project Number I04NC000902

September 1993



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM for FORMERLY USED DEFENSE SITE

FINDINGS

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR FORMER CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

September 1993

Prepared For

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EXECUTIVE SUMMARY

The purpose of this report is to present the findings of a records search and site inspection for the potential ordnance contamination located at the former Camp Butner, Butner, North Carolina. The site is located at Butner NC. and consisted of approximately 40,384.39.

Camp Butner was acquired by the War Department in 1942 for a W.W.II Army Training Facility. The facility was acquired for use by the Fourth Services Command, Army Ground Forces as a Triangular Division Camp. Camp Butner was utilized as a training and maneuvering area for combat troops. The site remained active until 1946 when it was declared excess.

The investigation was performed by ammunition specialists from the U. S. Army Defense Ammunition Center and School, Savanna, Illinois and the Rock Island District Corps of Engineers, Rock Island Illinois. Engineering oversight was provided by the Rock Island District Corps of Engineers.

The historical literature search revealed the types of activities and ammunition that were utilized at the facility. The training mission was conducted on 15 ranges as well as a handgrenade range, 1,000 inch range, and a gas chamber/gas obstacle course. The Camp also had an ammunition storage area used for receipt, storage, and shipment of it ammunition stockpile.

During the period 15-17 March 1993 a Site Inspection (SI) was performed at the former Camp Butner to visually verify the presence or lack of presence of OEW contamination based on the records search. During the inspection there was several pieces of OEW contamination visually verified in several areas. No complete ammunition items were located by the inspection team. Ammunition components that were visually verified by the inspection team were: mortar tail fins, 60mm illumination round body sections, rifle grenade body sections and 155mm body sections.

Since Camp Butner was excessed there has been OEW contamination consisting of complete artillery rounds, 2.36 inch rockets, hand grenades and rifle grenades. There are ammunition items found on a regular basis in the former impact area. These rounds are reported to Camp Butner National Guard Training Center and they call Fort Braggs EOD team for demolition of these items.

The visual evidence and potential OEW at the site require remediation to mitigate the ordnance hazard. After remediation of the OEW contamination an HTRW project should be initiated to mitigate any HTRW contamination that may be associated with OEW.

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR FORMER CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

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ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR FORMER CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

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ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR FORMER CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

1. INTRODUCTION

a. Subject and Purpose

(1) This report presents the findings of a historical records search and site inspections for ordnance and explosive waste (OEW) presence located at Former Camp Butner, Butner, North Carolina. See plate 1 for general location map. The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites.

(2) The purpose of this investigation was to characterize the site for potential OEW contamination utilizing historical records, interviews and on-site visual inspection results.

b. Scope

(1) The investigation focused on 40,384.39 acres that were used as the primary Camp Butner of which approximately 4,750.39 acres that belong to the still active Camp Bunter North Carolina National Guard Training Center, Stem, North Carolina.

(2) This report presents the site history, site description, real estate ownership information, results of a visual site inspection, confirmed ordnance presence based on available records, the site inspection, and evaluation of potential ordnance contamination based on site ordnance components and site information.

2. PREVIOUS INVESTIGATIONS

a. 1990 Inventory Project Report

A preliminary assessment for the former Camp Butner was conducted by the Corps of Engineers, with the Findings and Determination of Eligibility (FDE) dtd 5 July 90. There were two projects recommended from this preliminary assessment.

		TABLE 2	-1		
	1990 PR	ELIMINARY	ASSESSME	ENT	
Project Number	DE Ca	CRP Itegory	Pres	ent e	Comments
I04NC000901	НТ	W	RI/F	S	CEMRD
I04NC000902	OE	W	ASR	(SI)	CENCR

b. 1992 Site Investigation Report

(1) This site investigation was prepared by B&V WASTE SCIENCE AND TECHNOLOGY CORPORATION for the US Army Corps of Engineers, Savanna District 26 May 1992. This investigation addresses the Camp Butner Landfill Site at the bottom of Lightning Lake.

(2) This report provides background information including site location, description, history, investigation methodologies, remedial investigation results and qualitative risk factors at the landfill area.

(3) This landfill site was part of Camp Butner and utilized for disposal of excess brass and ammunition which could not be packed for shipment when the 78th Division transferred to Europe.

C. 1992 Final Environmental Impact Statement

(1) This report was prepared in conjunction with: Louis Berger & Associates, Incorporated, Washington, DC dtd May 1992, for the lead agency: U.S. Department of Justice Federal Bureau of Prisons, Washington, DC. This report addresses the Butner, North Carolina Federal Correctional Complex.

(2) This report provides an assessment of the environmental consequences of a proposed action by the U.S. Department of Justice, Federal Bureau of Prisons, to expand the existing Federal Correctional Institution in Butner, North Carolina into a Federal Correctional Complex.

(3) The 769.88 acres that make up the correctional facility was a part of the former Camp Butner until 1964 when the acreage was a purchase of property for a U.S. Correctional Facility.

3. <u>SITE DESCRIPTION</u>

a. Existing Land Usage

(1) The Former Camp Butner was comprised of approximately 40,384.39 acres that was acquired the War Department, approximately 40,201.08 was acquired in fee, 128.40 acres in 82 easements, 2.51 acres in licenses, and 52.40 acres in 26 leased tracts (see plate 1).

(2) The former Camp Butner was located in portions of Person, Durham, and Grandville Counties encompassing the town of Butner, North Carolina.

(3) Camp Butner remained active until 1946 and was excessed by the War Assets Administration (WAA) over the next several years. Approximately 16,558.27 acres are currently owned by the State of North Carolina. Of this state owned ground, 4,750.39 acres makes up the current Camp Butner National Guard Training Center, with the remaining 11,038 acres making up the town of Butner and agricultural type lands, with state operated farms. Approximately 23,056.24 acres reverted back to the original owners of which the land is utilized for agriculture and forestry. Approximately 769.88 acres makes up the Federal Correctional Complex (see plate 4)..

		TABLE 3-1	
CURRENT LAND OWNERS			
Current			
Owner	Acres	Land Usage	Comments
State of North Carolina	16,558.27	National Guard Training Center, Public Domain	See plate 4
U.S. Correctional Facility	769.88	Correctional Complex	See plate 4
Public	23,056.24	Agriculture, Forestry	See plate 4 & %
Total	40,384.39	······································	

(4) The 4,750.39 acres that make up the current Camp Butner National Guard Training Center should not be considered under this DERP FUDS project, since this site is still active.

b. **Topography**

(1) The area is situated in the Piedmont Province, an area characterized by rolling topography with well rounded hills and long, low ridges. Terrain found in this area is hilly, ranging from a high elevation of approximately 500 feet above mean sea level (msl) to a low elevation of approximately 280 feet msl.

(2) The undeveloped hills within the area are forested with various hardwoods including oaks, flowering dogwood, beech, sweet gum, holly, hickory and red maple. Stands and individuals of loblolly and Virginia pines and eastern red cedar are mixed with the deciduous species previously mentioned. Evergreens were noted to populate ridges and slopes with southern exposures. Hilltops were generally observed to be vegetated with hardwoods, predominantly oaks with sparse understory.

(3) The canopy of the forested area is dense. Species observed in the understory include highbush berry, dogwood, poison ivy, Christmas fern, Columbus, and Japanese honeysuckle.

c. Meteorological Data

The Camp Butner area weather includes relatively mild winters and warm, humid summers. Average low temperature of 41 degrees Fahrenheit in January with the mean daily low of 28 degrees Fahrenheit. The average high temperatures of 78 degrees Fahrenheit in July with a mean daily high of 90 degrees Fahrenheit. Rainfall totaling 47 inches per year is well distributed with average monthly rainfall of between three to four inches. The first freeze generally occurs around October 27 and the last freeze occurs around April 11.

d. Geology and Soil

(1) Bedrock Geology

The site lies in within the Durham Sub-basin. The predominate bedrock formation is an Arkosic Sandstone, tan in color, medium to very coarse grained and contains mica.

(2) Soils

The source of soil in the area is acidic bedrock material; from the Triassic Age. The site is located within the White Store-Creedmoor soil association, consisting of gently sloping to moderately steep, moderately well drained soils (sandy loam) that have a subsoil of firm clay.

e. Hydrogeology

(1) The area contains a number of perennial streams with numerous intermittent tributaries. These streams generally drain from the hills to the southwest. The majority of this area drains into the Knap of Reeds Creek, which is part of the Nuese River watershed. A small portion of the western section of this facility drains to the west into the Flat River. The Flat River also drains into Nuese River.

(2) The potable water supply for the city of Butner was constructed in 1942 to support 50,000 soldiers at Camp Butner. The source of potable water for the city is the Holt Reservoir (also known as Lake Butner), with a storage capacity of approximately 10 billion gallons. The water for the Butner area currently complies with the EPA Safe Drinking Water Act parameters. The Army Corps of Engineers began conducting water quality testing for ordnance in the area including Lake Butner and Lighting Lake in October 1991.

f. Cultural Resources

(1) Camp Butner cultural environmental includes economic, archaeological, historical and aesthetic resources and community-wide considerations such as housing, educational facilities, and community support systems such as utilities, transportation networks, etc. The geographic areas of concern under this heading are defined on a case-by-case basis and must be empirically determined. Some impacts are of a purely site-specific nature. Others may have community-wide implications or biological effects offsite. Others may be of significant regional or even national importance.

(2) The regional prehistoric-early historic sequence for the North Carolina piedmont generally conforms with developmental stages elsewhere in the southeast (Coe 1964; Griffin 1952; Willey and Phillips 1958; Ward 1983). Ward (1983) divides the prehistoric periods in the piedmont as follows: Paleo-Indian (12,000-8,000 BC), Early Archaic (8,000-6,000 BC), Middle Archiac (6,000-2,000), Late Archaic (2.000-500 BC), Early Woodland (500 BC-500 AD), Middle Woodland (500 BC-AD 1,200), and the Late Woodland/Early Historic Siouan groups (AD 1,200-1,700). Archaeological finds from all the above eras have been located in the area.

4. HISTORICAL ORDNANCE USAGE ON-SITE

a. Chronological Site Summary

Chronological Site Summary (documents D-1 through D-3, F-1 and F-5, G-1 through G-21, H-1 through H-30, and L-1 through L-4).

(1) Authority for the acquisition of lands in the Durham, North Carolina area for cantonment and training of a triangular division to support the country's effort in W.W.II was issued by the War Department on February 12, 1942. The military installation, eventually named Camp Butner in honor of a native of North Carolina, Major General Henry W. Butner, was to be located in the north central part of North Carolina in the counties of Granville, Person, and Durham. The camp was essentially established for the training of infantry divisions and miscellaneous artillery and engineer units within the Fourth Services Command, Army Ground Forces. Original authorization was for the acquisition of approximately 60,000 acres of real property.

(2) Construction of the camp began in early 1942 with the official opening ceremony being conducted on August 4, 1942. Actual real property acquired for Camp Butner was approximately 40,300 acres. Between 1942 and 1945, Camp Butner was host to a number of military units including, the 78th, 89th, and 4th Infantry Divisions. Its primary mission was to train combat troops for deployment and redeployment to the European and Pacific Theaters. As many as 15 ammunition training ranges including approximately 23,000 acres, a 1000-inch range, hand grenade ranges, a gas chamber, and ammunition shipping/receiving and storage areas were constructed to support the camp training mission.

(3) Camp Butner, in addition to its primary mission of training combat troops, supported the war effort in other areas.

(a) The camp was host to one of the Army's largest general and convalescent hospitals.

(b) Camp Butner operated a prisoner of war (POW) camp.

(c) The Army established its Eastern Personnel Reassignment Center at Camp Butner. The Center was set up for disposition of personnel not currently assigned to units within the Army. It assured rapid and efficient employment of skills where needed by the War Department.

(d) The camp, later, was designated as an Army Ground and Service Forces Redistribution Station to handle

reassignment of overseas returnees. This huge redistribution center could place approximately 8,000 troops per month.

(e) Finally, the Redistribution Station was moved and Camp Butner became home to the War Department's Army Redeployment Center. The camp handled reassignment of troops returning from the European theater of operation to the Pacific theater of operation.

(4) Camp Butner was declared excess by the War Department on January 31, 1947. Accountability of the former camp's 40,000-plus acres was assumed by the War Assets Administration on April 26, 1947.

(5) Land usage since closure of Camp Butner has included

(a) NC State National Guard Training Site.

(b) Private agricultural and commercial use.

(c) Various community/state/federal agencies activities (correction, farming, natural and human services/resources, commerce, crime control and university/college involvement).

b. Ordnance Related Records Review.

(1) Research efforts began with a thorough review of all material gathered during the ASR historical document search conducted by CENCR and USATCES. A large collection of documents including drawings, maps, real estate documentation/inspections, technical ordnance data, newspaper articles, and various other reports appropriate to Camp Butner were located. During this review, an effort was made to focus on areas of potential OEW contamination as described in the OEW Project Summary Sheet (document F-5) which included ordnance training and storage areas.

(2) Documents E-7, L-2 and L-4 confirm that ammunition used for the training of combat troops at Camp Butner during W.W.II ranged from 22 Caliber through 240mm, as indicated in TABLE 8-1.

(3) Documents reviewed prior to the site investigation revealed that there was, in fact, an attempt to clear the site of OEW contamination after closure (documents E-1 through E-7). Document E-7 states that "Tons of practice missiles were gathered and disposed of and several thousand high explosive duds were destroyed in place. Any one of the duds could have exploded at the slightest disturbance and could have caused serious injury or tragedy to the persons disturbing it." (4) In document E-7, a Corps of Engineers, Savannah District, Dedudding Release, Colonel Erlenkotter points out the "there is also a possibility of shells remaining on the land and warned against the inherent danger of handling or disturbing them."

(5) Documents E-8 through E-17 with enclosed photographs (documents K-1 through K-5) substantiate Colonel Erlenkotter's statement. Indications are that, during numerous annual/semi-annual real estate inspections, explosive rounds of ammunition were routinely found on the FUDS, Camp Butner. These documents, also, indicate that landowners often surface explosive projectiles while tilling their farm lands. They, further, recommend a continuation of the annual/semi-annual inspections, because of the extent of the OEW contamination at Camp Butner after closure.

(6) A former manager of the NC National Guard Training Site stated that every year they get calls regarding found ordnance on the former training ranges of Camp Butner. The EOD detachment at Ft. Bragg is notified and disposes of the munitions. He, also stated that much ordnance was located when land for a power line crossing the former camp was cleared. Finally, the manager indicated that hunters discover old ordnance every hunting season (document F-1).

(7) Two newspaper articles, documents H-31 and H-32, regard the recent locating of 155mm Shells by private citizens. The shells were all removed by either the EOD detachment from Ft. Bragg or NC National Guard personnel assigned to the guard training site at the former camp.

(8) Document H-33 is a article about an explosion at a scrap yard on the fringe of Oxford, NC. The 50-pound 'missile' was turned in as scrap metal and was ignited by burning debris on the premises of Tom's Auto Supply. The explosion hurled fire onto the roofs of adjacent buildings. One metal fragment was located hundreds of yards from the explosion near the Owen Motor Company.

(9) Documents L-2, L-4 and plate(s) 2 & 6 indicate there was an ordnance shipping and receiving area, gas chamber, 1000-inch range, flamethrower pads and a small arms ammunition training range in, or in the vicinity of, the Camp Butner cantonment area. Also indicated are at least 15 ammunition training ranges and an ammunition storage area located on approximately 23,000 acres of the camp just to the north of the cantonment area.

c. Personal Interviews with Site Related Personnel.

(1) Personal interviews with two individuals who had been employed at Camp Butner were conducted during the site investigation (SI). Also interviewed during the SI were three individuals who, today, own and whose families, prior to establishment of Camp Butner, owned real estate which is now the FUDS Camp Butner.

(2) Document I-1 is a conversation record of an interview of two gentlemen who were employed at Camp Butner during W.W.II. These interviewees both denied the allegation of many residents of Butner that the 78th Infantry Division buried its excess ammunition in a valley and flooded the valley creating Lightning Lake prior to their departure for France. They insisted that this did not happen. They pointed out on maps various areas of interest in, or in the vicinity of, the former Camp Butner cantonment area. Areas included the parade ground, gas chamber, 1000inch 22 caliber training range, small arms ammunition range, flamethrower pads, and the ordnance area. The ordnance area was a railhead for the receipt and shipment of the camp's ordnance.

The conversation record at document I-2 is a (3)synopsis of an interview with a woman who as a child grew up on her family's homestead, which was located on the FUDS, Camp Butner. She recalled, distinctly, her brothers and herself finding many rounds of ammunition, playing with them, disassembling them, and discarding them in the family's water well. Her memory was very vivid; she even sketched the rounds on paper for the SI team. She remembered "rings", which would change color, forming in the lands adjacent to the family store. She, also, insists that there was a "hospital facility" adjacent to the family store which was buried when the camp was excessed. She recalled hearing a generator running underground at this location for years after. She showed the SI team the expansive mound under which this facility is supposedly buried. She, as many residents of Butner, believe that the extremely high incidence of cancer in the area is directly related to contamination of the FUDS Camp Butner by the military.

(4) Document I-3 is a record of the conversation with the owner of a lumber mill located on FUDS, Camp Butner. He was the brother of the woman mentioned above and confirmed everything she had said. He claimed troops at Camp Butner would dump their excess training ammunition in a lake below his mill. He also was upset about the damage that would be sustained by the teeth of his saws when cutting old deciduous growth which was harvested off the FUDS, Camp Butner. (5) Document I-4 is a conversation record of an interview conducted with a landowner/manager on FUDS Camp Butner. This gentleman stated, that while Camp Butner was an active military installation, units would fire bazooka rockets and mortar shells from the vicinity of the corner of West Range Road and Bethany Church Road. The direction of fire was to the southeast into an impact area of the former camp. He also stated that, frequently, while plowing a garden on the family farm which is located on Bethany Church Road adjacent to the camp's former impact area, he would unearth various ammunition items. His description of these ordnance items was that of 81mm mortar shells. He said he disposed of these rounds of ammunition by, simply, throwing them across the road into a ditch.

5. <u>REAL ESTATE</u>

a. Confirmed Formerly Used Defense Sites

(1) Former land usage and ownership by the War Department was previously confirmed for Camp Butner, Butner, NC. as summarized in document F-3. The Findings and Determination of Eligibility for this camp defined 40,384.39 acres that were acquired for a World War II training facility.

(2) Camp Butner was acquired by the War Department for use by the Fourth Services Command, Army Ground Forces as a Triangular Division Camp. The Camp was utilized as a training and maneuvering area for combat troops.

(3) Currently the acreage that made up the former camp is owned and utilized by the State of North Carolina, U.S. Correctional Facility, and private citizens for agricultural and commercial use.

b. Potential Formerly Used Defense Sites

All acreage for this camp were covered in the original Findings and Determination of Eligibility dtd 05 July 1990. During this investigation there was no additional acreage discovered.

6. SITE INSPECTION

a. General Procedures and Safety

(1) During the period 15-19 March 1993, members of the Site Inspection team traveled to the site of the former Camp Butner, Butner, North Carolina. The primary task of the SI team was to assess OEW presence and potential due to training, there were a minimum of 15 ammunition training ranges, as well as, hand grenade ranges, a 1000-inch range and a gas chamber; storage, the camp had an ammunition storage area and an ordnance area used for the receipt and shipment of the camp's ordnance; and <u>disposal</u>, as a minimum, there was a dump in the vicinity of the magazine area. Site inspection was limited to nonintrusive methods, i.e., subsurface sampling was not authorized or performed.

(2) Real Estate rights-of-entry were not obtained by the SI team due to the willingness of North Carolina National Guard Training Site personnel and area landowners to grant access to and provide the team a tour of the former Camp Butner prior to the actual inspection.

(3) A site safety plan (document B-4) was developed and used by the SI team and NC National Guard Training Site personnel to assure an injury-free site inspection of the former Camp Butner. A briefing prior to the inspection was conducted which stressed that OEW should only be handled by military EOD personnel.

(4) Prior to the site visit, a thorough review of all available reports, historical documents, texts, and technical ordnance reference materials gathered during the historical records search portion of the ASR was made. This review was made to ensure team awareness of potential ordnance types and hazards.

The visit began on 16 March 1993 at the offices (5)of the Camp Butner NC National Guard Training Site, Butner, NC. There was an exchange of information between MSG Rodney Parker and SFC Jerry Thomas, North Carolina National Guard employees, John Baden, USACE, Wilmington District and SI team members Jodi Bausman, CENCR and Mike Harper, USATCES. During this initial exchange, it was learned that evidence of OEW contamination at the former Camp Butner had been routinely uncovered by private landowners, hunters, Corps of Engineer personnel, and national guardsmen after the reservation's closure. Ordnance located through the years include hand grenades, mortar shells, and projectiles ranging in size from 37mm through 240mm. Maps of the 40,300-plus military reservation was received from Mr. Baden. A plan of action for the site inspection was coordinated with all concerned, and the site inspection (SI) of FUDS Camp Butner began. It should be stressed, again, that intrusive sampling methods were not used during this site inspection.

b. Cantonment Area and Vicinity.

(1) The OEW assessment of the former Camp Butner began in the vicinity of the cantonment area, behind the water tank which displayed the date 1942 (document L-4 and plate ?). This area supported the combat training mission of the camp with a small arms ammunition training range, and with pads and cement structures from which training in the use of the flamethrower was conducted (photos J-13 through J-18). The SI team located 30 caliber cartridges cases with headstamps dated 1942 in this area.

(2) Assessment within the cantonment area continued at former sites of the ordnance area, 1000-inch range, parade ground and gas chamber (documents G-11, L-4 and plate 2 & 6). A thorough inspection of these areas resulted in no discernible evidence of OEW contamination.

c. Ammunition Storage Area and Dump (Photo J-1 and plate 3).

(1) Photos J-19 through J-27 (see plate 3) are the remnants of early versions of steel-arch, ammunition storage magazines. Some were earthcovered, while others were not. After closure of Camp Butner these structures were used for various agricultural purposes, e.g. the drying of tobacco leaves. There was no evidence of OEW contamination witnessed by the SI team at this location (plate 2 & 6).

(2) There was no evidence of OEW contamination witnessed at the form camp's dump located just to the south of the ammunition storage area (plate 2 & 6).

d. Hand and Rifle Grenade Training Ranges.

A North Carolina State University Beef Cattle Research Farm is located on the site of Camp Butner's former grenade ranges (plate 2). No OEW contamination was witnessed by the SI team in this area. In a previous interview of the farm manager conducted by Mr. John Baden, USACE, Wilmington District, it was learned that employees of this research facility know of no ordnance dumps or disposal areas located on the property and were not aware of any ordnance ever having been located there (document F-1).

e. Ammunition Training Ranges and Impact Areas.

(1) The site inspection continued with the team assessing locations within the approximate 23,000 acres of former ranges and impact areas which supported Camp Butner training mission. Efforts were made to concentrate this portion of the SI on those areas where OEW contamination is known to be greatest (documents L-5 through L-14 and plate 2).

(2) The team traveled to the very northwest corner of the NC Camp Butner National Guard Training Site, previously a portion of the former Camp Butner. Land adjacent to the road (photo J-5 and plate 3) which forms the north boundary of the NG site and runs into the center of the former camp's south impact area was inspected (plate 3). The team located concrete and metal structures which would have formerly been used in conjunction with movable ammunition targets (photos J-6 through J-9 and plate 3). No OEW contamination was witnessed in this area.

(3) Continuing down this road to the east, the team inspected the area near a cemetery (photo J-12 and plate 3). The area just to the northeast of the cemetery is identified as Area D (documents E-8 through E-17, K-1 through K-5 and L-5 through L-14) and is known to have been heavily contaminated with OEW. No OEW contamination was witnessed in this area.

(4) The assessment of the FUDS continued in the north impact area (photo J-2 and plate 3). Remnants of a mock German village were located in this vicinity (plate 2). The buildings (photos J-3 through J-4 and plate 3), fabricated from wire mesh and plaster, were riddled with holes. Ouite obviously, they had been artillery targets in the past. Similar remnants were located directly across the road in this area (photo J-10 and plate 3). The land in this vicinity, being heavily cratered, has the appearance of the moon's landscape (photo J-11 and plate 3). This area in the northwest portion of the former Camp Butner training ranges is identified as Area A (documents E-8 through E-17, K-1 through K-5 and L-5 through L-14) and is known to have been heavily contaminated with OEW. No OEW was witnessed in this area by the SI team. NC national guardsmen who were escorting the team, however, stated that a survey team had located three 155mm shells at this location as recently as 1991.

(5) Land on the J.C. Ellis farm (plate 2 & 4), just to the west of the mock German villages, was assessed. Mr. Ellis, during an interview conducted by SI team members (document I-4), stated that, in the past, he had unearthed ordnance while plowing a family garden. His description of the ammunition was that of 81mm mortar shells. He claimed to have disposed of these rounds by simply throwing them across the road into a ditch. A thorough search of this area, overgrown with thickets, revealed no OEW contamination.

(6) Property in the vicinity of the Hilton homestead, Edith's (Hilton) General Store, and the lake below the Hilton Lumber Mill (photo J-28 and plate 3) was inspected (plate 4). Ammunition had either been located or dumped in these areas in the past (documents I-2 and I-3) and the SI team witnessed OEW contamination that had been located in these areas. The OEW included two 155mm projectiles that had been located in this area by NC National Guard personnel prior to arrival of the SI team on site (photos J-29 through J-34 and plate 3). These areas are identified as Areas B and E (documents E-8 through E-17, K-1 through K-5 and L-5 through L-14) and are known to have been heavily contaminated

(7) The team traveled to and assessed an area just to the east of the NC Camp Butner National Guard Training Site where according to the team's national guard hosts, hand grenades had been located, approximately three and onehalf years earlier. No OEW was witnessed at this location. This area is identified as Area C (documents E-8 through E-17, K-1 through K-2 and L-5 through L-14 and plate 6) and is known to have been heavily contaminated with OEW.

(8) An area of the former camp identified as Area F (documents E-8 through E-17, K-1 through K-5 and L-5 through L-14), and known to have been heavily contaminated with OEW, was assessed (plate 6). No OEW contamination was noted.

(9) Finally, the team surveyed the land around Lightning Lake (plate 2). The populace of Butner, in general, believe that, when the 78th (Lightning) Infantry Division shipped out for France, they buried excess ordnance that they could not take with them in a valley. The division then flooded the valley creating a lake that has since been called Lightning Lake. These allegations were denied by two previous employees of the former camp during interviews conducted by the SI team (document I-1). No OEW was witnessed in this area by the CENCR/USATCES team.

7. EVALUATION OF ORDNANCE PRESENCE

a. General

(1) Each subsite was evaluated to determine confirmed, potential, or uncontaminated ordnance presence. Confirmed ordnance contamination is based on verifiable historical evidence or direct witness of ordnance items. Verifiable historical records evidence consists of ordnance items located on site and documented by the local bomb squad, Army Explosive Ordnance Demolition Team, newspaper articles, correspondence, current findings, etc. Direct witness of ordnance items consists of the inspection team directly locating ordnance items by visual inspection. Additional field data is not needed to identify a confirmed subsite.

(2) Potential ordnance contamination is based on a lack of confirmed ordnance. Potential ordnance contamination is inferred from records or indirect witness. Inference from historical records would include common practice in production, storage, usage, or disposal, at that time, which could have allowed present day ordnance contamination. Potential ordnance contamination could also be based on indirect witness or from present day site features. Additional field data is needed to confirm potential ordnance subsites.

(3) Uncontaminated ordnance subsites are based on a lack of confirmed or potential ordnance evidence. All historical records evidence and present day site inspections do not indicate confirmed or potential ordnance contamination. There is no reasonable evidence, either to direct or inferred, to suggest present day ordnance contamination. Additional field data is not needed to assess uncontaminated ordnance subsites.

b. Cantonment Area and Vicinity.

(1) Historical documentation indicate that the area behind the water tank, which displayed the date 1942, supported the former Camp Butner with small arms ammunition training ranges and with pads and concrete structures from which flamethrower training was conducted. Present-day site features (photos J-13 through J-18 and plate 3), concrete structures and pads, substantiate this usage. Direct witness by the site inspection team indicated this area was littered with .30 Caliber Cartridge Cases (SAA).

(2) Historical documentation verified that there were an ordnance area, 1000-inch range (SAA), and a gas chamber within the cantonment area and its vicinity. There were no findings of OEW contamination by the SI team. There does exist, however, the possibility of chemical contamination in the area of the former gas chamber. Irritating agents, commonly referred to as tear gas, would have been used in this area (documents G-11, L-4 and plate 6)

c. Ammunition Storage Area and Dump.

(1) The ammunition storage area, as indicated by historical documentation, was the former camp Butner storage area for ordnance used to support the combat infantry training missions on the various ammunition training ranges (document G-11, L-4 and plate 2 & 6). These structures have been used for agricultural purposes since installation closure. There were no OEW findings by the SI team in this area. Due, however, to the types of supplies (class V) stored in this area, the potential for OEW contamination exists.

(2) Historical documentation and a lack of findings by the SI team would indicate that OEW contamination at the former Camp Butner dump (plate 2) does not exist. There does exist, however, simply due to the purpose of a large installation dump the possibility of chemical contamination (HTRW) of the soils in this area.

d. Hand and Rifle Grenade Ranges.

There were no findings by the SI team in the vicinity of the former grenade ranges. This real estate has been in use as a state university research farm for years. Management personnel at this facility have never unearthed OEW. There exists, however, the potential for OEW contamination, merely because of the types of munitions trained with in this area during the Camp Butner era (document F-1 and plate 2).

e. Ammunition Training Ranges and Impact Areas.

(1) This area comprises approximately 23,000 acres and was used for live-fire ammunition training for combat infantry and artillery troops during the W.W.II era. An extensive search for OEW contamination was conducted by the SI team in this area. The search resulted in the direct witness of OEW contamination by the SI team (photos J-29through J-34 and plate 3), see paragraph 6.e.(1) through (9) above.

(2) There also exists considerable historical documentation that confirms the finding of large amounts of ordnance at this former site after the military reservation was closed. These findings, including photographic documentation, occurred during at least twelve real estate inspections conducted by ordnance-knowledgeable personnel spanning at least two decades (see paragraph 6.e. (1) through (9) and documents E-8 through E-17, K-1 through K-5 and L-5 through L-14). Findings included grenades, mortars, rockets and projectiles ranging in size from 37mm to 240mm.

(3) Newspaper articles confirm that large caliber ordnance is still being located today on this former War Department site(documents H-31 through H-33).

(4) Interviews (indirect witness) with real estate owners indicate that the potential for location of additional ordnance at the former camp is high (documents I-2 through I-4).

(5) And finally, present-day site features witnessed by the SI team, e.g., remnants of movable targets, mock German villages, and heavily cratered impact areas, would indicate that, potentially, large quantities of ordnance still remain concealed on the property which was formerly the ammunition training ranges and impact areas of Camp Butner (photos J-3 through J-4 and J-6 through J-11 and plate 3).

8. TECHNICAL DATA OF ORDNANCE and Explosive

Table 8-1, a listing of ammunition and explosive fillers used at Camp Butner and Table 8-2, a summary of site ordnance fillers have been developed. These tables are based on a review of historical documentation and specifications stated at appendices D-4a through D-4o. Exact models/types have been included as documentation has permitted.

SUMMARY	TABLE 8-1 OF SITE-SPECIFIC	CORDNANCE
NAME	MODEL/TYPE	FILLER/WEIGHT
Cartridge, Ball .22 Cal, Long Rifle	None	40 gr lead bullet Brass or gilding metal cartridge case
Propelling Charge		2.86 gr smokeless powder
Small Arms Ammo .30 Cal with gilding metal jacket Propelling Charge	M2 Ball M2 AP M1 Tracer T10 Tracer M1 Incend.	Lead Antimony Tungsten Chrome Steel Tracer Composition Incendiary Composition Single base or Double-base
		(DB) powder
Small Arms Ammo .50 Cal with gilding metal jacket	M2 Ball M2 AP M1 Tracer M10 Tracer M17 Tracer M21 Tracer M1 Incend M23 Incend	Soft Steel Tungsten Chrome Steel Tracer Composition Tracer Composition Incendiary Mixture
Propelling Charge	neo moond	Single base or Double-base (DB) powder
Cartridge, H.EI 20mm	MK I	0.025# Tetryl PLUS 175.2 gr incendiary mix
Fuze, percussion Detonator Booster cup Booster charge Primer, percussion	D.A., No. 253 MK I-II-III M36	Mercury Fulminate Mercury Fulminate Tetryl 2.1 gr primer mixture Mercury Fulminate Potassium Chlorate Antimony Sulfide
Propelling Charge		0.07# FNH powder, Type II
Cartridge, H.EI 20mm Fuze, P.D. Detonator	T23(M97) T71E4(M75)	0.017# Tetryl PLUS 175.2 gr incendiary mix Mercury Fulminate
Relay charge Booster charge Primer, percussion	M36A1	Lead Azide Tetryl 2.1 gr primer mixture
Propelling Charge		0.07# FNH powder, Type II
Cartridge, H.EI 20mm	T18(M96)	0.020# incendiary mixture
Primer, percussion Propelling Charge	M36A1	2.1 gr primer mixture 0.07# FNH powder, Type II

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
NAME	MODEL/TYPE	FILLER/WEIGHT	
Cartridge, AP-T	M75	Solid steel shot	
20mm			
Primer, percussion	M36	See above	
Propelling Charge		0.07# FNH powder, Type II	
Tracer		Tracer mixture	
Grenade, Hand,	MK II	Bursting Charge	
Fragmentation		0.74 oz E.C. Blank Powder	
Fuze	M 10		
Primer	MK V	0.4 gr Primer Mixture	
Delay - Time Fuse		2" Black Powder train	
Detonator		7 gr loose Black Powder	
Grenade, Hand,	MK IIIA2	Bursting Charge	
Fuze	MGA2	UNKNOWN	
Primer	MOAL	INKNOWN	
Delay		UNKNOWN	
Detonator		UNKNOWN	
becomeor		· · · · · · · · · · · · · · · · · · ·	
Grenade, Hand,	M7	CN	
CN Tear			
Fuze	None	Similar to M10 above	
Igniter vice Detonator			
Grenade, HC Smoke	M8	нс	
Fuze	None	See above	
		mh a wait a	
TH Incendiary	None	Inermice	
Fuze	None	See above	
Grenade, Colored	м16	UNKNOWN	
Smoke			
Fuze	None	See above	
Grenade, Colored	M18	UNKNOWN	
Fuze	None	See above	
			
Grenade, Red Smoke	AN-M3		
Fuze	None	see adove	
Grenade, White	M15	White Phosphorus	
Phosphorus Smoke			
Detonating Cord	None	PETN	
Grenade, Rifle,	м19	8.5 oz. White Phosphorus	
WP Smoke		_	
Detonator	None	UNKNOWN	

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
		FTILED/WETCHT	
NAME	MODEL/TYPE	6.5 oz standard colored	
Grenade, KIIIe,	P12 Z	smoke fillings	
Detonator	None	UNKNOWN	
<u>Deconacor</u>			
Grenade, Rifle, Antitank	M9A1	4 oz. 50/50 Pentolite	
Fuze	None	Priming Mixture	
		Lead Azide	
		Tetryl	
Booster		Tetryl	
Grenade, Rifle, HC	None	10.75 oz. HC	
Connada Difl-	M1123	TNERT	
Bractice	MITTA2	TWEAT	
rractice			
Canister, Fixed	M 1	38 lead balls	
37mm		-	
Propelling Charge		550 gr FNH powder	
Primer, percussion	M23A1	1 gr No. 70 primer	
		mixture	
		20 gr black powder	
		0.104 [m-5]	
Shell, Fixed, H.E.	M54	υ.Ιυ# Τετιγι	
37mm	MEG		
Fuze, P.D.	OCM	Drimer mixture	
Detonator		Lead azide	
		Tetryl	
Booster		Tetrvl	
Tracer S D		Tracer mixture	
Relay Pellet		Black powder	
Propelling Charge		0.38# FNH powder, M1	
Primer, percussion	M38A2	Primer mixture	
,		55 gr black powder	
	M62	0.085# መ እጥ	
Shell, Fixed, H.E.	MOS	0.000# INT	
J/mm Euro P.D	M58		
ruze, B.D.	F150	Priming mixture	
		Lead azide	
		Tetryl	
Booster		Tetryl	
Tracer, S.D.		Tracer mixture	
Relay Pellet		Black powder	
Propelling Charge		0.44# FNH powder, Ml	
Primer, percussion	M38A2	Primer mixture	
		55 gr black powder	



TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
NAME	MODEL/TYPE	FILLER/WEIGHT	
Shot, Fixed, A.P.C.	M51	Hard steel core	
37mm		Tracer composition	
Propelling Charge		0.15# FNH powder, M1	
		or M5	
Primer, percussion N	M38A2	See above	
Shot, Fixed, A.P.C.	M59 or	Hard steel core	
3/mm N	M59A1	Tracer composition	
Propelling Charge		0.31# FNH powder, M1	
		or 0.52# FNH powder M5	
Primer, percussion M	M38A2	See above	
Shot, Fixed, A.P. M 37mm	474	Solid steel slug	
Tracer		Tracer composition	
Propelling Charge	12070	0.44# FNH powder, M1	
Filmer, percussion	130AZ	See above	
Shot, Fixed, A.P. N 37mm	180	Solid steel slug	
Tracer		Tracer composition	
Propelling Charge	43882	0.56# FNH powder	
Filmer, percussion i	13072	See above	
Cartridge, H.ET M	4k.II	0.15# TNT or	
40mm	NN 051	0.05# Tetryl	
ruze, r.D. I	1k. I		
Primer Charge		1.9 gr primer mixture	
Detonator Charge		0.93 gr lead azide	
Relav Assembly		2.3 gr tetryl	
Booster Cup		109.69 gr tetryl	
Tracer, S.D. N	No. 12	Tracer composition	
		Igniter composition	
		0.005# black powder	
		pellet	
Propelling Charge		0.72# FNH powder	
Primer, percussion N	M38A1	See above	
Cartridge, AP-T M 40mm	481 or M81A1	Bar steel	
Tracer		Tracer composition	
		Igniter composition	
Primer, percussion	M38A1	See above	

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE				
NAME	MODEL/TYPE	FILLER/WEIGHT		
Cartridge, AP-T	M70	Hardened steel solid		
		shot		
57mm		73 ar red tracer		
liacer		composition		
		20 gr igniter charge		
Propelling Charge		2.25# FNH powder, M1		
Primer, percussion	M1B1A2	Primer composition		
		100 gr black powder		
Cartridge, APC-T	M86	Hardened steel solid		
042022490, 110 I		shot		
57mm				
Tracer		73 gr red tracer		
		composition		
Propelling Charge		2.25# FNH powder, M1		
Primer, percussion	M1B1A2	See above		
· -				
Cartridge, APC-T	M86	0.094# Expl D		
5 /mm				
Bursting Charge		Tetryl pellet		
Fuze, B.D.	M72			
Primer		Primer mixture No. 26		
		Black powder delay		
Detonator Charge		Lead azide		
beconacor charge		Tetryl		
Tracer		73 gr red tracer		
		composition		
Propolling Charge		20 gr igniter charge 2 25# FNH powder Mi		
Primer, percussion	M1B1A2	See above		
Shell, H.E.	M49A2	0.34# TNT		
60mm	ME 0			
Fuze, P.D. Detonator	MJZ	Priming Mixture		
Deconacor		(Mercury Fulminate)		
		Lead Azide		
Booster		Tetryl		
Percussion Primer	M32	U.S/ Gr NO. /U primer		
		1.65 gr black powder		
		pellet		
Ignition Cartridge	M5A1	40 gr DB powder		
Drepollant Transmonts	M3	140 gr DB nowder		
Properiant increments	F13	THO AT DD DOMAGE		

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE				
SUPPART OF SITE-SPECIFIC ORDINANCE				
NAME	MODEL/TYPE	FILLER/WEIGHT		
Shell, Practice	M50A2	0.05# Black Powder		
60mm				
Fuze, P.D.	M52	See above		
Percussion Primer	M32	See above		
Ignition Cartridge	M5A1	See above		
Propellant Increments	M3	See above		
Shell, Illuminating 60mm	M8 3	Illuminant Charge 52.1% Barium Nitrate 10.4% Sodium Nitrate 26.0% Aluminum 5.2% Sodium Oxalate 4.1% Sulfur 1.1% Castor Oil 1.1% Linseed Oil Quick Match First Fire Charge 0.74oz Pellet 25% black powder Priming Charge 0.055oz black powder		
Ignition Cartridge	M5A1	See above		
Percussion Primer	M32	See above		
Propellant Increments	M4	112 gr DB powder		
Shell, Smoke, WP 60mm	M302	White Phosphorus		
Fuze, P.D. Ignition Cartridge Percussion Primer Propellant Increments	M82 UNKNOWN UNKNOWN UNKNOWN	UNKNOWN		
Shell, Training 60mm	M69	INERT		
Ignition Cartridge	M4	47 gr DB powder		
Shell, Training 81mm	M68	INERT		
Ignition Cartridge	МЗ	120 gr DB powder		
Shell, H.E.	M43A1	1.22# TNT		
	M52			
Booster Percussion Primer	M3	Priming Mixture (Mercury Fulminate) Lead Azide Tetryl 0.37 gr No. 70 primer mixture 1.65 gr black powder pellet		
Ignition Cartridge	мб	120 gr DB powder		
Propellant Increments	M1	700 gr DB powder		



TABLE 8-1		
SUMMARY OF SITE-SPECIFIC ORDNANCE		
NAME	MODEL/TYPE	FILLER/WEIGHT
Shell, WP Smoke	M57	4.04# White Phosphorus
81mm		
Fuze, P.D.	M52	See above
Ignition Cartridge	M3 (old)	See above
	M6 (new)	See above
Percussion Primer	M34	See above
Propellant Increments	M2	820 gr DB powder
Shell, H.E.	M56	4.31# TNT
81mm		
Fuze, P.D.	M53	
Primer		UNKNOWN
Delay Pellet		Black Powder
Relay		Lead Azide
Detonator		Tetryl
		Lead Azide
Lead Charge		Tetryl
Booster		Tetryl
Fuze, TSQ	M77	
Primer		UNKNOWN
Time-train pellet		Black powder
Relay pellets		Black powder
Detonator		UNKNOWN
Booster		Tetryl
Percussion Primer	M34	0.37 gr No. 70 primer
		mixture
		1.65 gr black powder
		pellet
Ignition Cartridge	M3 (old)	See above
	M6 (new)	See above
Propellant Increments	M2	820 gr DB powder
Shell, H.E.,	M1	4.8# TNT
105mm, semi-fixed		
Fuze, P.D.	M48A2	
Detonator		
Superquick		Lead azide
Delay		Compressed black powder
		pellet
Relay		Lead azide pellet
Booster	M20A1	
Detonator		Lead azide over tetryl
Closing cup		Tetryl
Booster pellet		Tetryl
Propelling Charge		3.04# FNH powder, Ml
Primer	M1B1A2	See above

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE		
NAME	MODEL/TYPE	FILLER/WEIGHT
Shell, H.E.,	M38A1	3.63# TNT or
105mm, fixed		50-50 amatol
Fuze, M.T.	M43	
Primer, percussion		UNKNOWN
Pellet		Compressed black powder
Magazine charge		Black powder
Booster	M20A1	-
Detonator		Lead azide over tetryl
Closing cup		Tetryl
Booster pellet		Tetryl
Propelling Charge		11# FNH powder, M1
Primer, percussion	M28A1	Primer composition
-		300 gr black powder
Shell, Practice	M38A1	8 oz. black powder
105mm, fixed		
Fuze, M.T.	M43	
Primer, percussion		UNKNOWN
Pellet		Compressed black powder
Magazine charge		Black powder
Booster	M20A1	
Detonator		Lead azide over tetryl
Closing cup		Tetryl
Booster pellet		Tetryl
Propelling Charge		11# FNH powder, Ml
Primer, percussion	M28A1	Primer composition
		300 gr black powder
Shell, H.E., A.T.	M67	2.93# 50/50 Pentolite
105mm, semi-fixed		
Fuze, B.D.	M62	
Detonator		Priming mixture
		Lead Azide
		Tetryl
Slider charge		Tetryl
Booster		Tetryl
Booster		Tetryl
Propelling Charge		1.60# FNH powder, Ml
Primer, percussion	M28A2	Primer composition
		300 gr black powder

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE		
NAME	MODEL /TYDE	
Shall HE	MODEL/ TIPE	
155mm	M102	13.30# INT
	M5174	
Petopator	MJIA4	
Superguick		Lood orido
		Compressed black powder
Deray		compressed brack powder
Relay		Lead azide pellet
Booster	M21A4	Beau uzide periet
Detonator		Lead azide over tetry
Closing cup		Tetryl
Booster pellet		Tetrvl
Propelling Charges	M1A1	4.22# FNH powder, M1
	M2A1	8.64# FNH powder, M1
Primer, percussion	Mk. TIA4	Priming composition
, F		17 gr black powder
Shell, H.E.	м107	15.13# TNT
155mm		
Fuze, P.D.	M51A4	
Detonator	-	
Superguick		Lead azide
Delay		Compressed black powder
-		pellet
Relay		Lead azide pellet
Booster	M21A4	-
Detonator		Lead azide over tetryl
Closing cup		Tetryl
Booster pellet		Tetryl
Propelling Charges	M3	5.94# FNH powder, Ml
	M4A1	13.91# FNH powder, M1
Primer, percussion	Mk. IIA4	Priming composition
		17 gr black powder
Shell, H.E.	M101	15.56# TNT
155mm		
Fuze, P.D.	M51A4	
Detonator		
Superquick		Lead azide
Delay		Compressed black powder
		perier
Relay	NO174	Lead azide peilet
Booster	MZ1A4	Tood oride orige totan
		Lead azide over tetryl
Closing cup		Tetrul
Booster pellet	M1 r M171	ICLIVI 32 23# NH noudar M1
Primer percussion	ΜΈ Α ΜΊΑΙ ΜΈ ΤΤΔΛ	Priming composition
ritmer, percussion	MV* TTWA	17 ar black pourder
		IT GI DIACK POWUEL

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
Shrapnel	Mk. I	800 0.6" lead balls	
155mm			
Bursting Charge		1.21# black powder	
Fuze	M1907M		
Propelling Charges	M1 & M1A1	26.17# NH powder, M1	
Primer	MK. IIA4	See above	
Shell, H.E.	Mk. IIIA1	15.21# TNT	
155mm			
Fuze, P.D.	M51A4		
Detonator			
Superquick		Lead azide	
Delay		compressed black powder	
Pelav		Lead azide pellet	
Booster	M21A4	beau uziue periet	
Detonator		Lead azide over tetryl	
Closing cup		Tetryl	
Booster pellet		Tetryl	
Propelling Charges	M1 & M1A1	32.23# NH powder, M1	
Primer, percussion	Mk. IIA4	Priming composition	
		17 gr black powder	
Shell, A.P.	M112	1.44# Explosive D	
155mm			
Fuze, B.D.	M60		
Primer		Primer mixture	
Rotor charge		Mercury Fulminate	
lead charge		Tetryl	
Booster pellets		278 gr Tetryl	
popper berreep		170 gr Tetrvl	
Delay pellet		Black powder	
Propelling Charges	M1 & M1A1	32.23# NH powder, M1	
Primer, percussion	Mk. IIA4	Priming composition	
		17 gr black powder	
Shell, H.E.	MK. IITAI	49.79# TNT	
240mm			
Fuze, P.D.	M51A4		
Detonator			
Superquick		Lead azide	
Delay		Compressed black powder	
		pellet	
Relay	20124	Lead azīde pellet	
Booster	MZIA4	I and article even totavil	
		Heau allue over tetryl Tetryl	
Booster pellet		Tetrvl	
Propelling Charges	M1 & M1A1	37.30# NH powder. M1	
Primer, percussion	Mk. IIA4	Priming composition	
· -		17 gr black powder	

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
NAME MODEL/TYPE FILLER/WEIGHT			
Shell, H.E.	M114	54.06# TNT	
240mm			
Fuze, P.D.	M51A4		
Detonator			
Superquick		Lead azide	
Delay		Compressed black powder pellet	
Relay		Lead azide pellet	
Booster	M21A4		
Detonator		Lead azide over tetryl	
Closing cup		Tetryl	
Booster pellet		Tetryl	
Propelling Charges	M1	78.75# NH powder, M1	
Primer, percussion	Mk. IIA4	Priming composition	
		17 gr black powder	
Rocket, HEAT	M6, M6A1, M6A3	0.5# 5C/50 Pentolite	
Fuze	None		
Detonator	None	Priming Mixture	
Deconacor		Lead Azide	
		Tetry	
Booster		Tetrvl	
Propellant		Sticks of DB powder	
Squib		Black powder	
Rocket, HEAT	M6A3D	0.5# 50/50 Pentolite	
2.36-inch			
Fuze	None	See above	
Propellant		T1E1 salted powder	
Rocket, HEAT	M6A3F	0.5# 50/50 Pentolite	
Fuze	None	See above	
Propellant		M7 (T4) powder	
Rocket, HEAT 2.36-inch	M6A4	0.5# 50/50 Pentolite	
Fuze, BD	M400		
Propellant		M7 (T4) powder	
Rocket, HEAT	M6A5	0.5# 50/50 Pentolite	
Fuze, BD	M401		
Propellant		M7 (T4) powder	
Rocket, Practice	M7, M7A1,	INERT	
2.36-inch	M/A3, M/A4	Shicks of DB monday	
Propellant		Sticks of DB powder	
Squib		black powder	

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE			
NAME	MODEL/TYPE	FILLER/WEIGHT	
Rocket, Practice	M7A5	INERT	
2.36-inch			
Propellant		TIEL salted powder	
Rocket, Practice	M7A6	INERT	
2.36-inch			
Propellant		M7 (T4) powder	
Rocket, WP Smoke 2.36-inch	M10	0.9# White Phosphorus	
Fuze	None		
Detonator		Priming Mixture	
		Lead Azide	
		Tetryl	
Detonator-Burster		UNKNOWN	
Propellant		Sticks of DB powder	
Squib		Black powder	
Rocket, WP Smoke	MIUA3	0.9# White Phosphorus	
2.36-inch	N(4.0.1		
Fuze, BD	M401		
Propellant	M7 powaer		
Rocket, HC Smoke	T27E1	1# HC	
2.36-inch			
Fuze	None		
Detonator		Priming Mixture	
		Lead Azide	
_		Tetryl	
Igniter		UNKNOWN	
Propellant		Sticks of DB powder	
Squib		Black powder	
Rocket, Incendiary	T31	1.1# Thermate	
2.36-inch			
Fuze	None		
Detonator		Priming Mixture	
		Lead Azide	
		Tetryl	
Igniter		UNKNOWN	
Propellant		Sticks of DB powder	
Squib		Black powder	

TABLE 8-2 SUMMARY OF EXPLOSIVE FILLERS			
FILLER/WEIGHT	SYNONYM(S)	CHEMICAL FORMULA	
Amatol (50-50) or (80-20) Ammonium Nitrate TNT	2,4,6-trinitrotoluene	NH_4NO_3 $C_6H_2CH_3(NO_2)_3$	
Ammonium Nitrate		NH4NO3	
Antimony Sulfide		Sb ₂ S ₃	
Ballistite	(see DB powder)		
Barium Nitrate		Ba (NO ₃) ₂	
Black Powder 74% Potassium Nitrate 11% Sulfur 16% Charcoal	Saltpeter; Niter	kno ₃ s c	
CN	Chloroacetophenone	с ₆ н ₅ со-сн ₂ с1	
Dibutylphthalate	gelling agent	$C_{6}H_{4}(CO_{2}C_{4}H_{9})_{2}$	
Dinitrotoluene	DNT	$C_6H_3CH_3(NO_2)_2$	
Diphenylamine	stabilizer DPA	(C ₆ H ₅) ₂ NH	
Double-base (DB) Powder 60% Nitrocellulose 39% Nitroglycerin 0.75% Diphenylamine	Ballistite Guncotton; Pyroxylin stabilizer DPA	$[C_{6}H_{8}O_{5}(NO_{2})_{3}]_{n}$ CH ₂ NO ₃ CHNO ₃ CH ₂ NO ₃ (C ₆ H ₅) ₂ NH	
E.C. Blank Powder 80.4% nitrocellulose 8.0% potassium nitrate 8.0% barium nitrate	(single-base compound Guncotton; Pyroxylin; Saltpeter;	powder) [C ₆ H ₈ O ₅ (NO ₂)3] _n KNO ₃ Ba(NO ₃)2	
0.6% diphenylamine	stabilizer DPA	(C ₆ H ₅) ₂ NH	
Explosive D	Ammonium Picrate; Ammonium Carbazoate; Ammonium Picronitrate	$C_{6}H_{2}$ (NO ₂) ₃ ONH ₄	
FNH Powder, Type II Nitrocellulose Dibutylphthalate Dinitrotoluene Diphenylamine	Guncotton; Pyroxylin; gelling agent DNT stabilizer DPA	$\begin{bmatrix} C_{6}H_{8}O_{5} (NO_{2}) & 3 \end{bmatrix}_{n} \\ C_{6}H_{4} (CO_{2}C_{4}H_{9}) & 2 \\ C_{6}H_{3}CH_{3} (NO_{2}) & 2 \\ (C_{6}H_{5}) & 2^{NH} \end{bmatrix}$	
Guncotton (s 13% nitrogen	ee nitrocellulose)	N ₂	
НС	Hexachlorethane-Zinc	Zn+C ₂ Cl ₆	
TABLE 8-2 SUMMARY OF FYRIOSIVE FILLE	DS		
---	--------------------------------		
FILLED/WEIGHT SVNONVM/S)	CHEMICAL FORMULA		
Igniter Compositions •			
I = 136 & I = 136A			
10% Calcium Resinate			
90% Strontium Peroxide	Sr02		
I-194	2		
94% Igniter Composition I-136			
6% Magnesium Powder	Mg		
I-276	-		
84% Barium Peroxide	BaO ₂		
16% Magnesium Powder	Mg		
I-280			
85% Igniter Composition I-136A			
15% Magnesium Powder	Mg		
I-508			
79% Barium Peroxide	BaO2		
14% Magnesium Powder	Mg		
Incendiary Compositions *			
IM-II EQQ Devive Nitrote	Po (NOs) -		
50% Magnosium Aluminum Allow	$Ma \in A^{1}$		
TM-23	ing a ru		
50% Potassium Perchlorate	KC104		
50% Magnesium Aluminum Allov	Ma & Al		
TM-28			
40% Barium Nitrate	$Ba(NO_3)_2$		
50% Magnesium Aluminum Alloy	Mg & Al		
10% Potassium Perchlorate	KClO4		
IM-68	-		
24% Barium Nitrate	Ba(NO3)2		
50% Magnesium Aluminum Alloy	Mg & Al		
25% Ammonium Nitrate	NH4NO3		
IM-69			
40% Barium Nitrate	Ba (NO ₃) 2		
50% Magnesium Aluminum Alloy	Mg & Al		
10% Iron Oxide, Ferric	Fe ₃ 0 ₄		
IM-136	KG10		
49% Potassium Perchiorate			
49% Magnesium Aluminum Alloy	Mg & Al		
199 Barium Nitrate	$B = (N \Omega_{a}) =$		
46% Magnesium Aluminum Allov	Ma & Al		
TM-144			
50% Barium Nitrate	$Ba(NO_3)_2$		
50% Red Phosphorus	P		
*			
Incendiary Compositions (continued)			
IM-162			
25% Incendiary Composition IM-23			
75% Zirconium	Zr		
IM-163			
50% Incendiary Composition IM-23	-		
50% Zirconium	Zr		

SUMMAR	TABLE 8-2 CONTRACTOR OF EXPLOSIVE FILLERS	
FILLER/WEIGHT	SYNONYM(S)	CHEMICAL FORMULA
Incendiary Mixture	see incendiary composit	ions)
Lead Azide	Azide	Pb(N ₃) ₂
Mercury Fulminate	Mercuric Cyanate	Hg(CNO) ₂
Nitrocellulose	Guncotton; Pyroxylin; Nitrocotton Cellulose Nitrate	[C ₆ H ₈ O ₅ (NO ₂) ₃] _n
Nitroglycerin		сн ₂ NO ₃ снNO ₃ сн ₂ NO ₃
Pentolite (50/50) TNT PETN	2,4,6-trinitrotoluene	$C_6H_2CH_3$ (NO ₂) 3 C (CH ₂ ONO ₂) 4
PETN	Pentaerythrite Tetranitrate; Pentaerythritol Tetran	C(CH ₂ ONO ₂) ₄ itrate
Potassium Chlorate		ксlo ₃
Potassium Nitrate	Saltpeter; Niter	kno3
Primer Composition FA-90A (for percussion p 25% Lead Thiocyanate 12% Antimony Sulfide 10% PETN 53% Potassium Chlorate FA-70 25% Lead Thiocyanate 17% Antimony Sulfide 5% TNT	2,4,6-trinitrotoluene	Pb (SCN) $_{2}$ Sb ₂ S ₃ C (CH ₂ ONO ₂) $_{4}$ KClO ₃ Pb (SCN) $_{2}$ Sb ₂ S ₃ CH ₃ C ₆ H ₂ (NO ₂) $_{3}$
53% Potassium Chlorate		кс103
Mercury Fulminate Potassium Chlorate Antimony Sulfide	Mercuric Cyanate	Hg(CNO) ₂ KClO ₃ Sb ₂ S ₃
Quick Match		UNKNOWN
Red Phosphorus		P
Smokeless Powder Flashless-nonhygroscopic Nonhygroscopic (NH)	(see nitrocellulose) c (FNH)	
Sodium Nitrate		NaNO3
Sodium Oxalate		Na ₂ C ₂ O ₄

	TABLE 8-2	
SUMMAR	Y OF EXPLOSIVE FILLERS	
FILLER/WEIGHT	SYNONYM(S)	CHEMICAL FORMULA
Sulfur		S
Tetryl	Trinitrophenyl- methylnitramine	$(NO_2)_3C_6H_2N(NO_2)CH_3$
Thermite	Iron Oxide & Aluminum	2Al-3FeO
TNT	2,4,6-trinitrotoluene triton; trotyl; trilite; trinol; tritolo	; CH ₃ C ₆ H ₂ (NO ₂) ₃
Tracer Compositions * R-256 8.3% Calcium Resinate 26.7% Strontium Peroxi 26.7% Magnesium Powder 33.3% Strontium Nitrat	de e	SrO ₂ Mg Sr(NO ₃) ₂
R-284 17% Polyvinyl Chloride 28% Magnesium Powder 55% Strontium Nitrate R-321 16% Polyvinyl Chloride 26% Magnesium Powder		Mg Sr(NO ₃) ₂ Mg
52% Strontium Nitrate		Sr (NO ₃) ₂
White Phosphorus		P
 Most frequently used ch ingredients 	emical compositions an	d their major

9. EVALUATION OF OTHER SITE HAZARDS

a. HTRW

The HTRW project that was recommended for site by the Wilmington District Corps of Engineers was referred to MRD in April 1990 for determination of further action (see document F-2 and F-4). No additional areas of concern were noted.

b. BD/DR

There were no BD/DR project recommended for this site by Wilmington District and no BD/DR project that were noted during the inspection performed 15-17 March 1993. ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX A

ACKNOWLEDGEMENTS OF ORGANIZATIONS/PERSONNEL

APPENDIX A									
Organization Na	me Teler	ohone Supp	ort						
U.S. Army, Headquarters Service The Pentagon Library 6605 Army Pentagon Wash, DC 20310-6605	Staff	(703) 697-4301 DSN 223-3731	References						
U.S. Army Military History Institute Carlisle Barracks Carlisle, PA 17013- 5008	Dennis Vetock	(717) 245-3611	References						
U.S. Army Corps of Engineers, Wilmington Distri Attn: CESAW-PD-E Wilmington, NC	Mr. John Baden District PM ct	(919) 251-4754	Maps, Project Documents, Real Estate Info, etc.						
U.S. Army Ordnance Museum Aberdeen Proving Ground Aberdeen, MD 21005- 5201	Mr. Armando Framarini	(410) 278-3602 DSN 298-3602	References						
North Carolina National Guard Public Affairs Office 4105 Reedy Creek Road Raleigh, NC 27607- 7410	LTC Baron Hignite	(919) 664-6244	Referrals						
North Carolina State Dept. of Cultural Resources Division of the State Library 109 East Jones Street Raleigh, NC 27611	Mr. Dick Langford Assistant Archivist	(919) 733-3952	Referrals and Reference Materials						

APPENDIX A ACKNOWLEDGEMENTS OF ORGANIZATIONS/PERSONNEL										
Organization Na	me Tel	ephone	Suppor	t						
U.S. Army Corps of Engineers, B. Everett Jordon Lake and Dam Chatham County, Moncure North Carolina	Mr. Rex Quinn N.C. State Military Historian and Ranger	(919)	251-4754	Historical Information						
NC National Guard Camp Butner Training Site Butner, NC 27509	MSG Rodney Parker	(919)	479-0923	Point-of- Contact, Referrals, etc.						
NC National Guard Camp Butner Training Site Butner, NC 27509	SFC Jerry Thomas	(919)	479-0923	Site Guide and Examples of Ordnance Previously Located on Site						
Previous Employee of Camp Butner Current Address: 120 Ridge Road Butner, NC 27509	Mr. R.D. Holt	(919)	575-4124	Interview						
Previous Employee of Camp Butner Current Address: 303 S. 13th Street Butner, NC 27509	Mr. M.W. Wall	(919)	575-4400	Interview						
Landowner Bethany Church Road FUDS Camp Butner Butner, NC 27509	Mr. J.C. Ellis	none		Interview						
Landowners Homestead located on FUDS Camp Butner Butner, NC 27509	Mr. Altee and Ms. Edith Hilton, Siblings	unkno	own	Interviews						

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

APPENDIX B

GENERAL REFERENCES AND/OR ABSTRACTS

APPENDIX B

GENERAL REFERENCES AND/OR ABSTRACTS

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B-1 Army Regulation (AR) 200-1, <u>Environmental</u> <u>Quality</u>, <u>Environmental</u> <u>Protection</u> <u>and</u> <u>Enhancement</u>, DA, 23 April 1990 (not enclosed in this ASR)

B-2 <u>Mandatory Plan for Ordnance and Explosive Waste (OEW)</u> <u>Mandatory Center of Expertise (MCX) and Design Center</u>, CEHND 1105-3-9, U.S. Army Corps of Engineers, Huntsville Division, 10 August 1992 (not enclosed in this ASR)

B-3 <u>Defense Environmental Restoration Program for Formerly Used</u> <u>Defense Sites, Ordnance and Explosive Waste, Archives</u> <u>Search Report Instructions</u>, Version 1.0 with changes, U.S. Army Corps of Engineers, Rock Island District, 21 December 1992 (not enclosed in this ASR)

B-4 <u>Site Safety Plan for OEW Investigations (Appendix A-6, only)</u>, U.S. Army Corps of Engineers, Rock Island District, 25 June 1992

B-5 Camp Butner, North Carolina, <u>Post War Utilization Studies</u>, War Department, Office of the Chief of Engineers, September 1945 (D-1)

B-6 Historical Article, Camp Butner, Pentagon Library (D-2)

B-7 Historical Article, Camp Butner, Camp Butner, North Carolina, Pentagon Library (D-3)

B-8 Excerpts from OS 9-20, Ordnance School Manual, <u>Artillery</u> <u>Ammunition</u>, The Ordnance School, Aberdeen Proving Ground, Maryland July 1941 and TMs 9-1900, -1901, -1904, -1950, War Department Technical Manuals, entitled and dated <u>Ammunition, General</u> June 1945, <u>Artillery Ammunition</u> 29 June 1944, <u>Ammunition Inspection Guide</u> 2 March 1944, and <u>Rockets</u> 9 July 1945, respectively (D-4)

B-8a .30 Caliber SAA (D-4a)
B-8b .50 Caliber SAA (D-4b)
B-8c Cartridge 20mm (D-4c)
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B-80 .22 Caliber SAA (D-40)

B-9 Camp Butner Dedudding Data, Corps of Engineers, Bomb and Shell Disposal Team #8, 11 April 1947 (E-1)

B-10 Camp Butner Dedudding Data, Corps of Engineers, Bomb and Shell Disposal Team #8, 21 July 1947 (E-2)

B-11 Certificate of Dedudding, Corps of Engineers, Bomb Disposal Unit, 28 August 1947 (E-3)

B-12 Certificate of Clearance, Corps of Engineers, 9800 TSU-CE, Det. 13, Bomb and Shell Disposal Team, 9 September 1949 (E-4)

B-13 Certificate of Clearance, Corps of Engineers, 9800 TSU-CE, Det. 13, Bomb and Shell Disposal Team, 20 January 1950 (E-5)

B-14 Certificate of Clearance, Corps of Engineers, 9800 TSU-CE, Detachment No. 8, Bomb and Shell Disposal Team, 6 April 1950 (E-6)

B-15 Release, Dedudding Camp Butner, N.C., Corps of Engineers, Savannah District, Office of Technical Information, 24 April 1950 (E-7)

B-16 Report of Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 3 November 1958 (E-8)

B-17 Report of Semiannual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 30 April 1959, (E-9)

B-18 Report of Semiannual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 22 January 1960 (E-10) B-19 Report of Sixth Inspection, Restricted Areas, Camp Butner, Former Military Reservation, Durham, North Carolina, 22 September 1960 (E-11)

B-20 Report of Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 31 October 1961 (E-12)

B-21 Report of Sixth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 30 October 1962 (E-13)

B-22 Report of Eighth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 28 October 1964 (E-14)

B-23 Report of Ninth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 24 October 1966 (E-15)

B-24 Report of Tenth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina, 22 November 1967 (E-16)

B-25 Report of Eleventh Annual Inspection, Restricted Areas, Camp.Butner Military Reservation, Durham, North Carolina, 21 January 1969 (E-17)

B-26 Memorandum, CESAW-PD-E, 30 April 1990, Subject: DERP-FUDS Field Inspection for Preliminary Assessment, Camp Butner, North Carolina, Site No. I04NC000900 (F-1)

B-27 Site Summary Sheet for DERP-FUDS Site No. I04NC000900, Camp Butner, North Carolina, April 20, 1990 (F-2)

B-28 Defense Environmental Restoration Program, Formerly Used Defense Sites Program, Findings and Determination of Eligibility, Camp Butner, North Carolina, Site No. I04NC000900, 5 July 1990 (F-3)

B-29 Project Summary Sheet for DERP-FUDS HTW Project No. I04NC000901, Camp Butner, North Carolina, Site No. I04NC000900, April 20, 1990 (F-4)

B-30 Project Summary Sheet for DERP-FUDS OEW Project No. I04NC000902, Camp Butner, North Carolina, Site No. I04NC000900, April 20, 1990 (F-5)

B-31 Memorandum, CESAW-PD-E, 10 May 1990, Subject: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Inventory Project Report (INPR) for Site No. I04NC000900, Camp Butner, North Carolina (F-6) B-32 Memorandum, CESAD-PD-R, 15 October 1990, Subject: DERP-FUDS Inventory Project Reports (INPR) Nos. I04NC000900, I04NC001700, and I04NC080300 (F-7)

B-33 Memorandum, CEHND-PM-OT, 22 April 1991, Subject: Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS); Inventory Project Report (INPR) for Former Camp Butner, Project (Site) No. I04NC000900, Butner, NC (F-8)

B-34 Realty Control File Summary, Camp Butner, North Carolina, Unknown date (G-1)

B-35 Letter, War Department, The Adjutant General's Office, February 12, 1942, Subject: Selection of Training Areas, Durham, North Carolina (G-2)

B-36 File No. CE 601.1 (Camp Butner, N.C.), War Department, Office of the Chief of Engineers, 27 September 1943, Subject: Acquisition of Raw Water Line and Telephone and Power Line Easements, Camp Butner, North Carolina (G-3)

B-37 Real Property Inventory Report, Camp Butner, 26 November 1943 (G-4)

B-38 Warning Notices (declaring lands as inactive and surplus), Army Service Forces and War Department, Office of the Chief of Engineers, Real Estate, various dates and various portions of Camp Butner, NC (G-5)

B-39 Declaration of Surplus Real Property, War Department, Corps of Engineers, Washington, D.C., 29 May 1947 (G-6)

B-40 Message, U.S. Engineer Office, Operations Division, Surplus Facilities Branch, SAD, Atlanta, GA, 30 April 1947 (G-7)

B-41 OCE Form A-617, Realty Record Extract Sheets, Camp Butner, North Carolina, 25 February 1944 (G-8)

B-42 WAA Form 1005, Declaration of Surplus Real Property, Camp Butner, N.C., Partial Withdrawal, War Department, Corps of Engineers, 2 July 1947 (G-9)

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B-44 Letter, War Department, Corps of Engineers, Office of the Division Engineer, South Atlantic Division, 24 October 1947, Subject: Transmittal of OCE Forms 290's, Voucher No. C-1799-47, Camp Butner, North Carolina (G-11)

B-45 Declaration of Surplus Real Property, Department of the Army, Corps of Engineers, Washington, D.C., 17 December 1947 (G-12)

B-46 Declaration of Surplus Real Property, Department of the Army, Corps of Engineers, Washington, D.C., 31 May 1949 (G-13)B-47 Military Acquisition Project Report, Camp Butner, North Carolina, Triangular Division Camp, South Atlantic Division, Real Estate, Final Audit Section, 19 October 1949 (G-14)B-48 Declaration of Surplus Real Property, Department of the Army, Corps of Engineers, Washington, D.C., 31 January 1950 (G-15) B-49 Real Estate Documentation (Quitclaim Deed, Legal Description, Certificates, etc.) for the Disposal of 106 Acres of Excess Land, Camp Butner, North Carolina, April 2, 1953 (G-16) B-50 Quitclaim Deed, State of North Carolina, Former Camp Butner Real Estate, 27 September 1954 (G-17) B-51 Memorandum, SASRC, Real Estate Division, 4 January 1958, Subject: Final Audit of Land Records, Camp Butner, N.C., Audit 3037 (G-18) B-52 Revised Jurisdiction Summary, Camp Butner, North Carolina, 28 February 1958 (G-19) B-53 Real Property Disposal Report, Audit No. 3037, Camp Butner, 31 December 1957 (G-20) B-54 Quitclaim Deed, State of Virginia, Former Camp Butner Lands, 30 October 1968 (G-21) B-55 Memory Honored, The News and Observer (N&O), Raleigh, NC, February 19, 1942 (H-1) B-56 First Work in Building Camp Butner, The N&O, February 25,1942 (H-2) B-57 Activity Booms at Camp Butner, The N&O, March 15, 1942 (H - 3)B-58 Work Continues at Camp Butner, The N&O, April 19, 1924 (H - 4)B-59 78th Division To Re-Form In Camp Butner In August, The N&O, June 14, 1942 (H-5) B-60 Troops Arriving At Camp Butner, The N&O, June 18, 1942 (H-6)

B-61 Formal Opening Held At Camp Butner, The N&O, August 5, 1942 (H-7)

B-62 78th Will be Activated at Butner On Saturday, The N&O, August 8, 1942 (H-8) B-63 Butner Activates Famous Division, The N&O, August 16, 1942 (H-9) B-64 Work Is Slated At Camp Butner, The N&O, October 10, 1942 (H - 10)B-65 Target Ranges At Butner Named For State's Heroes, The N&O, May 2, 1943 (H-11) B-66 First Prisoners Arrive At Camp, The N&O, 9 September, 1943 (H - 12)B-67 Butner Becomes Army Job Center, The N&O, February 8, 1944 (H-13) B-68 Marshall Visits At Camp Butner, The N&O, December 6, 1944 (H - 14)B-69 Butner Expands Returnees' Unit, The N&O, December 10, 1944 (H-15) B-70 Butner General Hospital To Be Closed By March 1, The N&O, January 6, 1945 (H-16) B-71 Nazi 'Superman' Dislikes Verdict in Slapping Case, The N&O, January 13, 1945 (H-17) B-72 Butner To Be Closed, Durham Paper States, The N&O, January 26, 1945 (H-18) B-73 Butner Hospital Grows In Scope, The N&O, February 5, 1945 (H-19) B-/4 Hospital At Butner Assigned New Name, The N&O, April 27, 1945 (H-20) B-75 Butner Prepares For 4th Division, The N&O, August 5, 1945 (H-21)B-76 Butner To Train Men For Pacific, The N&O, August 5, 1945 (H - 23)B-78 Butner Declared Surplus By Army, The N&O, December 31, 1946 (H-24)B-79 Conference Held On Butner Lands, The N&O, January 21, 1947 (H - 25)B-80 Move Into Camp Butner Now Planned For April 1, The N&O, February 18, 1947 (H-26)

B-81 <u>Group Approves Butner Measure</u>, The N&O, March 26, 1947 (H-27)

B-82 <u>\$1,347,500</u> <u>State Check Closes Deal For Butner</u>, The N&O, November 4, 1947 (H-28)

B-83 State Gets Butner Deed, The N&O, June 16, 1950 (H-29)

B-84 <u>Construction Started On Hospital At Camp</u>, The N&O, March 25, 1989 (H-30)

B-85 <u>Government To Search Camp Butner For Shells</u>, The Durham Herald, April 21, 1993 (H-31)

B-86 Old <u>Shells At Camp Butner Arouse Little Fear</u>, The N&O, April 22, 1993 (H-32)

B-87 <u>Mortar Shell Explodes In Scrapyard</u>, Oxford Public Ledger, Oxford, NC, June 27, 1958 (H-33)

B-88 <u>News Release, Monitoring Wells to be Placed at Former Camp</u> <u>Butner Site</u>, U.S. Army Corps of Engineers, Savannah District, October 7, 1991. (H-34)

B-89 Personal Interviews conducted by the SI Team, 16-19 March 1993 (Appendix I)

B-90 Present-day Photographs taken by the SI Team, 16-19 March 1993 (Appendix J)

B-91 Photographs of ammunition items located during annual/semi-annual real estate inspections of the former Camp Butner after base closure; e.g., 240mm, 155mm, 105mm, 57mm, 40mm, and 37mm projectiles; 81mm mortars; 2.36-inch rockets; and hand and rifle grenades. Photographs are excerpts from documents E-8 through E-11 and E-16; poor quality, but invaluable. (Appendix K)

B-92 Map, Camp Butner (Special), AGO, State of North Carolina, undated (L-1)

B-93 Map, Camp Butner, Target Range Locations Layout, Plan No. 7133.100.1A, Office of the Corps of Engineers, Construction Division, August 26, 1942 (L-2)

B-94 Map, Camp Butner (Includes outlines of Camp Butner in 1945, Camp Butner National Guard Range, and Camp Butner Training Ranges), USGS, Henderson, North Carolina, 1984 (L-3)

B-95 Map, Camp Layout (Includes Camp Butner cantonment area, hospital area, and magazine area), War Department, Office of the Post Engineer, Camp Butner, NC, undated (L-4)

B-96 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1957 (L-5) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 3 November 1958 (E-8)

B-97 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1958 (L-6) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 30 April 1959 (E-9)

B-98 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1960 (L-7) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 22 January 1960 (E-10)

B-99 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1961 (L-8) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 22 September 1960 (E-11)

B-100 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1962 (L-9) associated with annual/semi-annual Inspection, Restricted 31 October 1961 (E-12)

B-101 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1963 (L-10) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 30 October 1962 (E-13)

B-102 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1964 (L-11) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 28 October 1964 (E-14)

B-103 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1965 (L-12) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 24 October 1966 (E-15) B-104 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1966 (L-13) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 22 November 1967 (E-16)

B-105 Map, Real Estate, Camp Butner Military Reservation, U.S. Army Corps of Engineers, Office of the District Engineer, Savannah, Georgia, Drawing No. 659-29, dated 1967 (L-14) associated with annual/semi-annual Inspection, Restricted Areas, Camp Butner Military Reservation, completed 21 January 1969 (E-17) ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX C

GLOSSARY

Glossary

AP	Armor-Piercing
A.P.C.	Armor-Piercing-Capped
AT	Antitank
B.D.	Base Detonating
BD/DR	Building Demolition/Debris Removal
CAL	Caliber
CEHND	U.S. Army Engineer, Huntsville Division
CEMRD	U.S. Army Engineer, Missouri River Division
CENCD	U.S. Army Engineer, North Central Division
CENCR	U.S. Army Engineer, Rock Island District
CERCLA	Comprehensive Environmental Response, Compensation and
02	Liability Act
CESAD	U.S. Army Engineer, South Atlantic Division
CESAW	U.S. Army Engineer, Wilmington District
DA	Department of Army
	Direct Action (British)
D B	Double Base
DERA	Defense Environmental Restoration Account
DERA	Defense Environmental Restoration Program
	Department of Defense
FOD	Explosive Ordnance Disposal
FDA	Environmental Protection Agency
FDF	Findings and Determination of Eligibility
FDL	Flachless Norbygroscopic
rnn FC	Fasibility Study
FUDC	Formerly Used Defense Site(s)
FUDS	Crain
UE GI	Uich Explorive
	High Explosive Hagardous Toxic and Padiological Waste
	Hazardous, Toxic and Radiological Masce
т	Incendiary
TNE	Incentraly
INF	Inventory Project Penort
INPA	Inventory Project Report
	Model Number
M	Model Number
MG	Machine Gui
MK	Millimeter
mm	MIIIImerer
	Maghanigal Time
	Nerhvarosconia
	The News and Observer Baleigh NC (Newspaper)
N&U OEH	Ine News and Userver, Nateryn, No (Newspaper)
UEW DA	Dreliminary Aggoggment
PA D D	Pretraindry Assessment
P.D.	Purchast Number
PN	Project Number
KA	Remeatat Action Diele Accessment Code
RAC	KISK ASSESSMENT CODE
RD	Remedial Design

RD/RA	Remedial Design/Remedial Action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
SAA	Small Arms Ammunition
SARA	Superfund Amendments and Reauthorization Act
S.D.	Shell Destroying
SI	Site Investigation or Site Inspection
SQ	Superquick
Т	Tracer
TH	Thermite
TSQ	Time Superquick
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USADACS	U.S. Army Defense Ammunition Center and School
USAEDH	U.S. Army Engineer Division, Huntsville
USATCES	U.S. Army Technical Center for Explosives Safety
UXO	Unexploded Ordnance
WAA	War Assets Administration
WD	War Department
WP	White Phosphorous
#	Pounds (lbs.)

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX D

TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

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ANALYSIS OF CAMP BUTNER, NORTH CAROLINA

GENERAL DESCRIPTION AND USE

<u>Camp Butner</u> is located in the northcentral part of North Carolina in Granville County, 10 miles from Durham (population 70,000). The reservation is comprised of 40,391 acres of which 40,312 acres are government-owned and 79 acres leased at an annual rental of \$20. Since August 1942, Camp Butner has been used to train infantry divisions and miscellaneous artillery and engineer units.

REGIONAL FACTORS

Other nearby centers of population include Raleigh, 20 miles distant (population 46,897) and Granville, 25 miles distant (population 48,897). These urban developments together with the city of Durham provide adequate recreational and social outlets for the camp personnel.

The climate is moderate and no training time is lost due to adverse weather conditions.

The health and comfort of troops are not affected by presence of swamps, mosquitoes or malaria conditions. Camp Butner is not subject to flood conditions. Surrounding area is rural in character.

POST DEVELOPMENT

The cantonment area is composed principally of mobilization type buildings. Based upon 80 square feet per man, there is space available in this type construction for 17,938 men. In the postwar period it would be desirable to convert the hand fired space heaters and hot water heaters to automatic firing. Present housing conditions with respect to fire prevention are satisfactory.

The water supply is obtained raw from an impounding reservoir owned by the city of Durham. Water is pumped to a modern filtration plant located on the post and owned by the government. The distribution system is constructed of permanent materials and is considered adequate and dependable for postwar use.

The sewage disposal facilities are constructed of permanent materials and will function satisfactorily over an indefinite period.

Electrical power is supplied to the post by the Duke Power Company and the service is excellent and the supply adequate.

Cold Storage facilities are satisfactory for continued use.

Rail service is provided both by the Southern Railway and the Seaboard Air Line with the Southern doing the switching. The access line, layout, loading and unloading ramps are satisfactory and entirely adequate for postwar use.

RESTRICTED

Camp Butner, North Carolina

The highway and drainage facilities are favorable as there are no indications that any conditions exist with respect to these facilities which might be considered adverse in retaining this camp for postwar use.

The total cost of Camp Butner to the government since July 1, 1940, including land and construction, has been approximately \$40,932,000.

TRAINING FACILITIES

The soil conditions do not impede training during the rainy seasons. The soil is a sandy top soil underlain with a plastic clay and it is necessary to stabilize training areas, parking areas, walks and trails. The post has been developed to such an extent that practically all points on the reservation are accessible in any kind of weather.

The training aids are very satisfactory. Some of the courts and small arms ranges are approximately 4-1/2 miles from the cantonment area but the combination of training schedules established causes no loss in training time.

Two artillery ranges exist with good guard observation posts and cleared spaces for impact areas.

Maneuver areas are in two distinct tracts, either for offensive action or defensive position. The topography is very satisfactory.

Review and drill fields are within the confines of the centonment area. The small drill grounds are in close proximity to each Regiment and separate Battalion area.

The terrain is satisfactory for tank deployment.

Lending strips are available for artillery liaison planes and ground is available for their enlargement to accommodate more powerful planes. The Raleigh-Durham Airport located approximately 20 miles from Camp Butner has three 4500 runways evaluated for 16,000 pounds capacity operation, 31,000 pounds limited operation.

Water sites are available for engineer training. One water area, 7 miles from the post, may be used by special permission for practice crossings.

CONCLUSIONS

From an engineering standpoint, Camp Butner is considered satisfactory for postwar retention. There are sufficient mobilization type barracks to house the proposed strength of 17,225. Based on the assumption given in the attached appendix, the cost of providing permanent quarters for the officer complement, quarters for the first three grades of NCO1s, and for remodeling the existing mobilization type barracks for postwar use would be on the order of \$16,000,000.

> 2 RESTRICTED

Based on the above assumptions and on the best available information, the following rough approximations of unit costs of housing were used.

(2) For new permanent housing, replacing Theater of Operations structures, tents, and hutments, and including a proportional share of other facilities (buildings, utilities, etc.)....\$ 2,000.00 per 5.2.

(3) For new permahent officers' family housing (field and company grades averaged), including roads, utilities and other necessary miscellaneous community facilities, such as schools, club, etc.

.... \$18,820.00 per Officer

(5) For new permanent family quarters for Warrant officers and topgrade N.C.O.'s, including roads, utilities and other miscellaneous community facilities (such as schools, club, etc... \$14,770.00 per tan

CAMP BUTNER, NORTH CAROLINA

Rocated at Wilkin, Granville County, 10. It is 10 mi. N. of Durham and 25 mi. No of Raloigh. It was named in honor of Henry W. Butner (1875-1937), a UNIX graduate in 1990. He had reached the rank of 10 in 1996.

Samp Butner was activated in 1912, was used for the training of redeployment troops; between 1942 and 1945 t Fill camp was situated there, holding 3158 prisoners in June 1915, working on military tasks, agriculture, and forestry; the prisoners were Garaans. Samp Buther was declared surplus 31 January 1927.

DALELINE 28 Oct 62

BUTNER, HEAVY WORF * "3826" 3. 6Apr 1875 in NC; D. 1317p. 1937, wash, DC Cadet, USMA, 20 Jun 1894-26Apr 1898 Apptel. 2dLt., Arty., 3d Articlery, 26Apr 1898, with duty successively att Fort Point, Cal.; Presidic, Cal. Alcatrazid and at FT. Baker, Car.; Grad., Staff College, 1906 Premoted LLT., Articlery, Orga, 1901, and Capt. A. My, Orga 1901 arrighed to End Fized Arty, 1907, with auty as ADJT. CAPT. & QM, by detail, 13Feb 1912; associa 6Th F. 9., 1912 MAJ., 9Th F.A., 19 LG; LTC, 9TK F.A., 1917; COL (tempo.) 15t FA. 1917 Transf. To LGTK F.A., 1918; BG, National Army 1913 II. COL., 1910; Grad. Anny Was College, 1920 Col, F.A. 1919 Commander, Ft. Bragg. NC and Fress. F.A. 18d. 1928; BG, 1930 MG, 1936 at Quarry Hts. CZ

- WILLUME Big. Reg. USMA, VOLG IT, JUA, III, III

NORTH CAROLINA

form one of the largest military complexes in the world.

CAMP BRANCH. Named for Confederate Brigadier General Lawrence O'B. Branch, Camp Branch was located four miles below New Bern, near the Neuse River, and was active until the fall of the city to Federal troops on March 14, 1862. Another Camp Branch was a fortified encampment outside the town of Winton, near Mutfreesboro, in Hertford County. Troops of the 9th New York Infantry stormed the town in March 1862, pillaged and burned it, and destroyed the Confederate encampment.

CAMP BRANCHL A World War II training facility named in honor of Confederate Brigadier General Lawrence O'B. Branch, Camp Branch was located west of the town of Beaufort in Casteret County.

FORT BRANCH. A Confederate earthen work, Fort Branch was constructed late in 1862 on the site of a prior battery to block the passage of Federal ships and troops up the Roanoke River into agriculturally rich castern North Carolina and, as the war progressed, to protect the Confederate shipyards at Edward's Ferry, about six miles nonh of Scotland Neck, and the navy yard at Halifax. Completed in two months and ready to have the big guns emplaced by February 4, 1863, the fort was located on present S.R. 125, three miles southeast of the town of Hamilton, at Rainbow Banks in Martin County. Fort Branch was evacuated on April 10, 1865, after the Confederate occupants threw much of the ammunition into the fort's well and dumped the anillery into the river.

FORT BROWN. According to a National Archives citation, Fort Brown was a temporary Confederate fortification near New Bern, mounting eight guns, two of which were powerful Columbiads. The fort was evacuated when the Federals selzed New Bern and its environs on March 14, 1862.

CAMP BRYAN GRIMES. A Spanish-American War recruiting and training encampment established in 1898 near the city of Raleigh, it was named for the Confederate general.

FORT (BATTERY) BUCHANAN. FORT FISHER

CAMP BURGWIN (BURGWYN). A fontified Confederate encampment located on Bogue Is-

land at or near the present community of Atlantic Beach, just west of Beaufort, in Canteret County, Camp Burgwin (Burgwyn) was established in 1861 for several regiments, including the 7th and 26th Regiments N.C.T. (Infantry), assigned to assist in the defense of nearby Fort Macon. Named for Lieutenant Colonel Henry K. Burgwyn, the camp was abandoned in early March 1862 when its troops were withdrawn to defend New Bern from Federal forces.

CAMP BURGWYN. A prominent Confederate encumpment, active throughout the war, located nonheast of Wilmington, Camp Burgwyn was occupied from time to time by numerous military units, including the 50th North Carolina Infantry in March 1864.

FORT BURNSIDE. After the Battle of Roanoke Island on February 8, 1862, Union forces occupied the island and began building a new defense, known as Fort Burnside (probably named for General Ambrose Everett Burnside) on the north end of the island. The fort was constructed with the help of a number of freed able-bodied Negro men who had escaped up the Chowan River from their owners and fled to the protection of the Union banner.

BURNT CANE-BRAKE BLOCKHOUSE. During 1792-93, because of raids perpetrated by hostile Cherokee and Creck, guards were stauloned for the protection of the frontier along the French Broad River in present Madison County. They also occupied or garrisoned three other blockhouses—Hough's, at Painted Rock, and at Warm Springs.

FORT BUTLER. Located across the Hiwassee River from the present-day town of Murphy in Cherokee County, just above the Georgia border in the southwestern corner of the state, Fon Butler was erected in early 1838 by General Winfield Scott and named for then Secretary of War Benjamin F. Butler. Fort Butler was one of the temporary fortifications built to accommodate congregated Cherokee pending their tragic "Trail of Tears" march to barren Indian Territory in the West.

CAMP BUTNER. Located at present Butner in southwest Greenville County, Camp Butner was a World War II Army post occupying a reservation encompassing parts of three counties. It was established in 1942 as an Infantry and reassignment center and named in honor of World War

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NORTH CAROLINA

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hyperin, Major General Henry Wolfe Butner.

.P CAMERON. Reportedly located near risent-day lacksonville in Onslow County, Camp ismeron was a small temporary Confederate enanigment occupied September-October 1862 by Company H of the 41st N.C.T. Regiment (3rd with Carolina Cavalry).

CAMP CAMPBELL. A temporary Confederate training encampment located near Kinston in Lenoir County, Camp Campbell was probably named for Colonel Reuben Campbell, who retreated to Kinston with his troops from New Bern in March 1862.

FORT (BATTERY) CAMPBELL, A wellproportioned earthwork, For Campbell was an nutlying work of Fort Caswell located one mile to the cast on Oak (now Smith) Island near present-day Southport, It was built by Confederate forces sometime between 1862 and 1864. The fort was last garrisoned by elements of the 3rd North Carolina Anillery, when it was abandoned and destroyed on January 16, 1865, after the fail of Fort Pisher.

"ORT (HATTERY) CAMPBELL, A Conkrate defense located on the north side of the Cape Fear River between Forts Lee and Meares near Wilmington, Fon Campbell's ordnance consisted of the 30-pounder Parrott, one 8-inch seacoast herwitzer, one 32-pounder smoothbore, and two 9-inch Dahlgrens mounted on navy carriages.

CAMP CANAL A temporary Confederate training camp, probably established in 1861, Camp Canal was located at or near Morehead City, Carteret County.

CAMP CAROLINA. A large Confederate encampment established in 1861 near Morehead City, Camp Carolina was captured by Union forces on March 23, 1862, during their campaign against Fort Macon. Elements of the Union army occupied the site for the remaining years of the war. The State National Guard later trained here for a time. The site of the camp is now the Morehead City Park.

FORT CASWELL (Fort Lane; Fort Spinola). Originally known as Fon Caswell when built on the south bank of the Neuse River south of New Bern by North Carolina troops during 1775-76 to protect New Bern from British warships, it

was named in honor of North Carolina's first governor. Selzed by state troops prior to the actual outbreak of Civil War hostilities, it was strengthened as a three-gun battery and renamed Fon Lane by the Confederacy. After the capture of New Bern on March 14, 1862, by Union forces. It was renamed Fort Spinola when occupied by Federal troops. Remains of the old fort are still visible today.

FORT CASWELL One of the better-preserved examples of the Endloott Fra coastal defense fortifications is Fort Caswell, on Oak Island at the strategic mouth of the Cape Fear River, just offshore of the town of Southport on the mainland. Oak Island was first fontified in 1825-26, when the original Fort Castvell was begun as a brick work sumpunded by earthen namparts and named in honor of Major General Richard Caswell, Revolutionary War veteran and first governor of Nunh Carolina. Prior to the actual outbreak of the Civil War, the fort was seized by state troops on January 8, 1861, and held by the Confederates, who heavily reinforced it, until the fall of Fon Fisher January 16-17, 1865, when its garrison blew up the fort and ahandoned it.

Following the war, Fort Caswell suffered the fate of many such fortifications and was more or less abandoned by the Federal government until a wave of interest was generated in the nation's crasual defenses. The almost forgouten fort was reactivated and received modern coast defense armament in accordance with recommendations of the Endicott Board of Fortifications (1885), with seven batteries, each named for a military hero, constructed of masonry between 1895 and 1902.

After World War I, Fort Caswell was placed in caretaker status, then declared surplus by the War Department, and sold to private Interests. With the outbreak of World War II, however, the government reacquired the old fort for use as a Navy depot. Subsequent to the war, it again was declared as surplus property. In 1949 the Baptist State Convention of North Carolina purchased the military reservation and established the North Carolina Baptist Assembly there.

FORT CHASE. This fort was one of several fonified positions on a line west of New Bern, between the Neuse and Trent rivers, established after March 14, 1862, by the occupying Union forces and named for Union officers.

CAMP CHRONICLE. A World War I training camp located on the west side of present South Linwood Street in Castonia in central Gaston

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his P une crashing through a barn. He was buried near Amiens. Four days later the Republic of France awarded him the Croix de Guerre, Avec: Palms the highest honor it could possibly bestow.

Bragg, Fort - Port Bragg, North Carolina. Named for General Braxton Bragg, who was born in Warren County, North Carolina, in 1625. He was graduated from West Point Military Academy and was assigned to the Artillery Sorvice on account of his high standing in his class ... His first fighting was done in the Seminole War. He had a bril-liant career in the Mexican War. With the return of Peace, he left the Army and became a Planter in Louisians, where he remained until the dar Between the States. He was prompbly made Commander of the State Troops of Louisland, and was, soon made a Bri gadier Goneral, and then General, in the Confedsrate Army. He commanded the Confederate Conter at the great Battle of Pittsburg Landing, captured. . Mus. ordville, Kentucky, fought: the Battle of Stome Mayor, and was the Confederate Commander in the ... Conflict at Chickemauga. He was; badly defeated . at Missionary Ridge and corpelled to retreat into Georgia. Soon after this he asked to be relieved of his Command, he having had many opponents in places of influence in the Confederacy. In Febru ary 1864, he was recalled to service as Military. Adviser to Jefferson Davis at Bichmond, Virginia. He went into the Field in the last Months of the War, and fought in the Battle, of Kinston, North; Carolina, on March 8, 1865. After the War he was for a time State Engineer of Alabama, and per-formed some important public works. He died at Galveston, Texas, on September 27, _d73.

Butner, Camp - Camp Butner, North Carolina. Nomed in honor of Majer General Henry Volfe Butner, a native of the Stony Ridge Section of Surry County, North Carolina. He received his first Military training as a Cadet at Davis Military Academy, new discontinued, in Winston-Selem, North Carolina, from 1891 to 1894. He entered the United States Military Academy at West Point in June, 1894, and graduated in April, 1898, a short time after the Spanish-American War began. As a Second Lieutenant in the Artillery he was assigned to duty at Golden Gate Harbor in San Francisco; PENJAGON LIBRARY

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California. Three years later he had risen to Captein. He saw duty in the Philippines and on the Mexican Border and had become a Lieutenant Colonel, stationed in Hawaii, at the time of American entrance in World War I. He then was made an Instructor in the Army's famous Artillery School at Fort Sill, Oklahoma. Early in 1918, he vis sont to France and given command of the Field irtillery Brigade of the First Division. During his service in France he was commissioned a Tamporary Brigadier General. He fought at Saint Whiel, and after the War was in charge of the American Army of Occupation in Germany until May, 1919. Reverting to the rank of Colonel after the Mor, he was assigned as a student in the Army War College, graduating in 1920, and served as Assist-int Commendant at Fort Sill, and again in the Milippines, and then as President of the Artillery Board at Fort Bragg. In 1930 he was commissioned Brigadier General until 1937 when he was promoted to Major General. He later became Com-mandant of Fort Sill and in 1936 was made Commender of the Panama Canal Department of the Army. He died at Walter Reed Hospital on March 13, 1937, and was buried at Arlington National Cemetery in Virginia. His Decorations include the Distinguished Service Medal and the Silver Star Medal, both of the United States, and the Croix de Suerre with Palms, awarded by the French Governmont.

Charlotte Quartermaster Depot - Charlotte, North Carolina.

Received its name from the Oity of Charlotte, North Carolina.

Davis, Cemp - Camp Davis, North Carolina. Mamed for Major General Richmond Person Davis, who was born in Statesville, North Carolina, June 23, 1866. He attended West Point Military Academy and graduated in the class of 1887. In World War I he was Commander of the 51st Field Artillery of the 9th Corps. He was awarded the Distinguished Service Medal for his services. After the War he was Commanding Officer at Coast Artillery Training Center at Fort Monroe, Virginia, and later was assigned to Posts in the Philippines and Hamii. He ratired from the Army, December 22,



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Figure 27 - Caliber .30 Bullets - Cross Section

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CARTRINE, Ball, Cal. .30, M1906.

General. While the cal. .30, M1, and cal. 30, M2, Ball Ammunition have superseded the M1906 as standard items, the description of the

latter is of value, in view of the stock of M1906 Ammunition that remains on hand.

Visual identification. This cartridge may be distinguished from the M1 and M2 Ball Rounds by the color of the jacket of the bullet, which is cupronickel and has a silvery appearance. Also, the numerals on the head of the cartridge case run from "21" downward.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 395 grains.

The bullet is pointed, having a square or cylindrical base, and the length of the bullet is approximately 1.085 inches. It has a jacket of cupronickel with a lead core hardened with antimony $(97\frac{1}{2})$ percent lead and $2\frac{1}{2}$ percent antimony). The bullet is secured in the neck of the cartridge case by crimping the mouth into a cannelure on the bullet. The pull required to extract the bullet from the case is 75 pounds (minimum bullet pull).

At 78 ft	
At 53 ft	2,660 ft per sec
At muzzle	
Muzzle energy	

CARTRIDGE, Ball, Cal. .30, MI.

40

General. This cartridge is a limited standard item of issue and is used in the same weapons and for the same purposes as the CAR-TRIDGE, ball, cal. .30, M2.

Visual identification. This cartridge cannot be readily distinguished from the M2 Ball Cartridge of late manufacture except by weight and date.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 420 grains.

The bullet consists of two parts, a lead alloy core, composed of 90 percent lead and 10 percent antimony, and a gilding metal jacket. An alternative bullet having a gilding metal jacket and a core composed of $97\frac{1}{2}$ percent lead and $2\frac{1}{2}$ percent antimony may also be used. The base of either bullet has a 9-degree taper, called a boattail. The over-all length of the M1 Bullet is 1.32 inches, and that of "-" "11 Alternative Bullet, 1.265 inches. The mouth of the cartridge

s crimped into the knurled cannelure at assembly and a minipull of 45 pounds is required to remove the bullet from the

SMALL ARMS AND TRENCH WARFARE

External ballistics, maximum range (approx.)	. 5,5	00	yd
Average maximum pressure	per	sq	in.
Velocity:			

At 78 ft		 2,600 ft per sec
At 53 ft		 2,620 ft per sec
At muzzle .		 2,647 ft per sec
Muzzle energy	*	 2,675 ft-lb

Accuracy. Average of mean radii of all targets at 500 yards, not greater than 4.5 inches; at 600 yards, 5.5 inches, when fired from a Mann accuracy weapon. Dispersions obtained from firings under service conditions at all ranges are published in firing tables for the weapons in which this ammunition is used.

CARTRIDGE, Ball, Cal. .30, M2.

General. This cartridge is a current standard item of issue and is used in machine guns and rifles against personnel and light materiel targets.

Visual identification. Cartridges of recent manufacture cannot be readily distinguished from the M1 Cartridges by visual inspection, although this can be done by weight and date. Cartridges manufactured prior to September 20, 1940, could be readily distinguished from the M1 Cartridges by their tin-coated, gilding metal bullet jackets.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 396 grains.

The bullet consists of two parts, a lead alloy core, composed of 90 percent lead and 10 percent antimony, and a gilding metal jacket. An alternative bullet having a gilding metal jacket, and a core composed of 97½ percent lead and 2½ percent antimony may also be used. The base of the bullet retains its cylindrical shape to the base line. The over-all length of the M2 Bullet is 1.125 inches, and that of the M2 Alternative Bullet is 1.103 inches. A minimum pull of 45 pounds is required to remove the bullet from the case.

At	78	ft.		•	 	• •	 • •	 •	 •				 •	•		. 2	,74	0	ít p	er	sec
At	53	ft.	•••	•	 		 • •		 •	•						. 2	,75	5	ft p	er	sec
At	mu	zzle			 	••••	 • •		 •			 		•		.2	,80	5	ft p	er	sec

Accuracy (from accuracy rifle). Average of mean radii of all targets of 500 yards not greater than 6.5 inches; at 600 yards not greater than 7.5 inches. TM 9-1904

AMMUNITION INSPECTION GUIDE

CARTRIDGE, Armor-piercing, Cal. .30, M2.

General. This cartridge is a current standard item of issue and is fired from machine guns and rifles. It is designed for use against armored aircraft, armored vehicles, concrete shelters, and similar bullet-resisting targets.

Visual identification. This cartridge may be identified by the additional cannelure and the blackened tip of the bullet.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 414 grains.

The bullet consists of four parts: a gilding metal jacket, a tungsten chrome steel core, a lead "T"-shot point filler, and a gilding metal base filler. The over-all length of this bullet is 1.370 inches and its point is blackened for a distance of approximately $\frac{9}{32}$ inch. The base of the bullet is cylindrical down to the base line where it has a slightly beveled edge. The mouth of the case is crimped into the cut cannelure at assembly, and a minimum pull of 45 pounds is required to remove the bullet from the case.

At	mu	zzle		•			•	,	•	•	•	•	•	•	•							 . 2	,7	7	5	ft	per	se	ec
At	53	ft.																				 . 2	.7	3	0	ſt	рег	se	ec
At	78	ít.														•	•		 •		 	. 2	2,7	1	5	ft	per	Se	ec

Accuracy. Average of mean radii of all targets at 500 yards, not greater than 9.0 inches; at 600 yards not greater than 10.0 inches.

CARTRIDGE, Tracer, Cal. .30, M1.

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General. This cartridge is a standard item of issue and is used in both machine guns and rifles. It is intended for use with either type of ammunition to show the gunner, by its trace, the path of the bullets. While tracer cartridges were primarily intended for machine gun use, there are cases wherein they can be advantageously used in rifles; for example, for signal and incendiary purposes, target designation, and range estimation.

Visual identification. The cartridge is readily identified by its characteristic red bullet point, red indicating the color of the trace.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 396 grains.

The bullet consists of four parts: a gilding metal jacket, a lead slug, a tracer composition, and an igniter composition. The all length of this bullet is 1.45 inches and the point is painted for a distance of approximately $\frac{5}{16}$ inch. It has a square base h contains the igniter composition which is ignited by the propel9.1934



BULLET, BALL, CAL. .30, M2



BULLET, ARMOR-PIERCING, CAL. .30, M2



BULLET, TRACER, CAL. .30, M1 RA PD 4521 Figure 78a — Bullets, Cal. .30

ling charge when the cartridge is fired. The tracer composition burns with a bright red flame which enables the course of the bullet to be followed by the gunner. The mouth of the cartridge case is crimped into the knurled cannelure at assembly, and a minimum pull of 45 pounds is required to remove the bullet from the case.

Exterior ballistics, maximum range (approx.)3,450 yd
Range of tracetrace begins at a distance not greater than
125 yd from the weapon, and bullets con
tinue tracing to 750 yd from the weapon
Average maximum pressure
Velocity:
At 78 ft

At muz	zle	• • • • • • • • •	• • • • •	••••			2,715 f	t per	sec
--------	-----	-------------------	-----------	------	--	--	---------	-------	-----

Accuracy. Average of mean radii of all targets at 600 yards less than 15 inches.

Trajectory. This ammunition is designed so that the bullet's trajectory will cross the trajectory of Ball M2, and AP, M2 Ammunition of the same caliber at approximately 600 yards.

CARTRIDGE, Incendiary, Cal. .30, M1.

General. This cartridge is a standard item of issue for machine guns.



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CARTRIDGE, Ball, Cal. .50, M2.

General. This cartridge is a standard cartridge for all cal. .50 nachine guns.

Visual identification. This cartridge does not have any identificaion markings and the tip of the bullet is not painted.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs 1,800 trains.

Δ+	78 ft	2,900) ft pe	r sec
		2,935	i ft pe	r sec
	muzzie	0.15	ner s	a in
Maxi	mum pressure	• ••	P	- -

Accuracy. At the time of acceptance, this ammunition will group within mean radii not greater than 8.0 inches at 500 yards, or 9.0 inches at 600 yards, when fired from an accuracy rifle held in a V-block.

CARTRIDGE, Armor-piercing, Cal. .50, M2.

General. This cartridge is a current standard item of issue for all cal. .50 machine guns. It is designed for use against armored aircraft, armored vehicles, concrete shelters, and similar bullet-resisting targets.

Visual identification. This cartridge may be identified by the blackened tip of the bullet.

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 1,800 grains.

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B-CARTRIDGE, BALL, CAL. .50, M2

C-CARTRIDGE, TRACER, CAL. .50, MT

RA PD 2117

Figure 83 — Cartridges, Cal. .50 212


SMALL ARMS AND TRENCH WARFARE

A-COMPOSITION, IGNITER **B-COMPOSITION, SUB-IGNITER** C-COMPOSITION, TRACER D-CORE-STEEL E-CORE-TUNGSTEN CHROME STEEL F-JACKET-GILDING METAL G-POINT FILLER-LEAD WITH ANTIMONY H-SLUG-LEAD WITH ANTIMONY



Figure 82b — Bullets, Cal. .50 — Sectioned 211



Exterior ballistics, maximum range (approx.)......7,200 yd

	 · · · · · · · · · · · · · · · · · · ·



NUT INCRECTION GUIDE 500 yards, or

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.... MIDGE, Tracer, Cal. .50, M1.

General. The cartridge is standard for observation of fire in all cal. .50 machine guns. It may also serve as an incendiary against balloons and other readily inflammable targets. Care must be exercised in the use of this cartridge to guard against its igniting dry vegetation on the range.

Visual identification. This cartridge may be distinguished by the point of the bullet, which is painted red to indicate the color of the trace.

Components. The cartridge consists of cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 1,760 grains.

The bullet consists of five parts: a gilding metal jacket; a hardened lead slug which fills the forward end of the jacket; a tracer composition which fills the central portion; an igniter; and subigniter composition, which fills the rear portion. Unlike the bullets for armor-piercing and ball cartridges, this bullet is cylindrical to the base. The base is open to permit the propelling charge to ignite the tracer composition. The over-all length of the bullet is 2.4 inches. The mouth of the case is crimped into the cannelure at assembly, and a minimum pull of 100 pounds is required to extract the bullet from the case.

Exterior ballistics, maximum range:

Bullet
Trace The trace begins at a distance not greater than 250 feet
from the weapon; the range of the trace is about
. 1 600 vards

At 78 ft.	 		 · · · <i>·</i> · · · · · · · · ·	.2,830 ft per sec
At muzzle	 	• • • • •	 	.2,865 ft per sec

Accuracy. At the time of acceptance, this ammunition will group within a mean radii not greater than 20 inches at 600 yards.

CARTRIDGE, Incendiary, Cal. .50, MI.

General. This cartridge is a standard item of issue for use in cal. .50

l identification. The cartridge resembles the CARTRIDGE, ...50, M2, in outward appearance, but it may be identified by t-blue paint on the tip of the bullet.

SMALL ARMS AND TRENCH WARFARE

Components. The cartridge consists of a cartridge case, primer, propelling charge, and bullet.

The bullet consists of four parts: a gilding metal jacket; a hollow steel cylindrical core; an incendiary composition; and a lead base filler. The mouth of the cartridge case is crimped into the knurled cannelure at assembly, and a minimum pull of 100 pounds is required to remove the bullet from the case.

Exterior ballistics-This information is not available at this time.

CARTRIDGE, Blank, Cal. .50, M1.

General. The CARTRIDGE, blank, cal. .50, M1, is a standard item of issue designed for use in cal. .50 machine guns with a blank firing attachment in order to operate the weapon for training purposes.

Visual identification. This cartridge is identified by the absence of a bullet.

Components. This cartridge consists of a cartridge case, primer, propelling charge, and wad.

The case has a slight annular groove about $\frac{1}{4}$ inch from the mouth, which serves as a seat for the wad.

The wad is a disc punched out of strawboard sheet, $\frac{1}{16}$ inch thick, and is lacquered on both sides before the blanking operation.

The powder charge consists of 43 grains of E. C. Blank Fire Powder. After loading, a heavy coat of lacquer is applied to the wad and the mouth is crimped.

CARTRIDGE, Dummy, Cal. .50, M2.

General. This cartridge is standard for use in all cal. .50 machine guns for training purposes. It may also be used for testing the mechanism of the gun.

Visual identification. This cartridge is distinguished from live ammunition by the cartridge case, which is tin-coated, has three holes drilled in the side and an empty primer pocket. It is distinguished from the CARTRIDGE, dummy, cal. .50, M1, by the bullet which is tin-coated.

Components. This cartridge consists of a cartridge case, and a bullet.

The cartridge case is identical with service cases except, as noted above, it is tin-coated and has three holes drilled about the midpoint.

The bullet consists of three parts: a tin-coated gilding metal jacket, a soft steel core, and a point filler of hardened lead. The mouth of the case is crimped into the cannelure at assembly, and a minimum pull of 100 pounds is required to extract the bullet from the case.

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re 24 – CARTRIDGE, HE-I, Mk. I, w/FUZE, P. D., 253 Mk. II-III, 20-mm Guns, M1, AN-M2, M3, and Br. H.S./A/

FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

21. CARTRIDGE, HE-I, MK. I, W/FUZE, P. D., 253 MK. H-III, 20-MM GUNS, M1, AN-M2, M3, AND BR. H.S./A/ (fig. 24), is for use against aircraft and light materiel targets, functioning with both explosive and incendiary effect. The explosive filler is tetryl and the incendiary mixture is located in the base of the shell. After the shell penetrates the target, the high-explosive filler is detonated, the shell is shattered, and the incendiary composition is ignited. Its fuze is an instantaneous percussion fuze of the impact type. The thickness of the base is only 0.15 inch and a base cover is present for additional protection.

DATA

•	Weight	of	complete round	0.57 lb
	Length	of	complete round	7.19 in.
	Length	of	fuzed projectile	3.22 in.
,	Length	of	cartridge case	4.34 in.
			Maximur	n range

Width of rotating 1	oand 0,203 in.
Type of base	
Radius of ogive	3.27 cal,
Muzzle velocity	2,800 ft per sec
5,100 yd	



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21-22

Figure 25 - CARTRIDGE, AP-T, M75, 20-mm Guns, M1, AN-M2, M3, and Br. H.S./A/

22. CARTRIDGE, AP-T, M75, 20-MM GUNS, M1, AN-M2, M3, AND BR. II.S./A/ (fig. 25), is for use against armored targets. The projectile is a solid steel shot, turned from cold-drawn steel bar stock. The base of the projectile contains a red tracer composition which is sealed in by means of a metal closing cup. When ignited, the tracer burns for about 4 seconds, equivalent to a range of about 3,000 yards.

DATA

Weight of complete round 0.639	њ
Length of complete round 7.22 i	n.
Length of projectile 3.25 i	n.
Length of cartridge case 4.34 i	n.
Width of rotating band 0.203	in.
Type of base	rc

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Radius of ogive	2.39 cal.
Muzzle velocity	2,615 ft per sec
Maximum range	δ,300 yd
Penetration (in. at	0-deg
obliquity of face-	hardened
plate at 1,000 vd) 0.6



RA PD 80696

BLACK

Figure 26 -- CARTRIDGE, Ball, 20-mm Guns, M1, AN-M2, M3, and Br. H.S./A/

23. CARTRIDGE, BALL, 20-MM GUNS, M1, AN-M2, M3, AND BR. H.S./A/ (fig. 26), is for service firing against personnel and light materiel targets, for practice, and for proof-firing. The projectile is similar in shape and ballistic properties to the HE-I projectile, but is hollow and contains no explosive or tracer. It is rolled from steel bar stock. A steel closing disk with a 45-degree chamfer is fitted into the recesses in the base of projectile.

DATA

Weight of complete round 0.56 lb	Width of rotating band 0.203 in.
Length of complete round 7.23 in.	Type of base Square
Length of projectile 3.31 in.	Radius of ogive 3.27 cal.
Length of cartridge case 4.34 in.	Muzzle velocity 2,850 ft per sec
Maximum range	6,000 yd



RA PD 65139

Figure 27 --- CARTRIDGE, AP-T, T9E5 (M95), 20-mm Guns, M1, AN-M2, M3, and Br. H.S./A/.

24. CARTRIDGE, AP-T, T9E5 (M95), 20-MM GUNS, M1, AN-M2, M3, AND BR. II.S./A/ (fig. 27), is for use against armored targets. The projectile is a solid shot made from bar or forged steel.

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in steel windshield is crimped into rolled or stamped grooves projectile body, the portion of the windshield over the crimping as the bourrelet of the projectile. The base of the procontains a red tracer composition, sealed in by means of a



25. CARTRIDGE, INCENDIARY, T18 (M96), 20-MM GUNS, M1, AN-M2, M3, AND BR. H.S./A/ (fig. 28), is for use against aircraft, functioning with incendiary effect, similar to cal. .50 incendiary cartridges. The body is made of cold-drawn steel. The nose, threaded to screw into body, is made of a die-cast zinc alloy; it is painted light blue for identification similar to small-arms cartridges. Both the body and nose are filled with incendiary materiel. This round does not require a fuze, as functioning is initiated by impact of nose upon target.

DATA

j.	5				Maximum	i rang	ge
	Len	gth	of	cartridge	Case	4.34	in
Ľ	Len	gth	of	projectile		.245 i	in
۰.	Len	gth	of	complete	round	7.20	in
Ņ	Wei	ght	of	complete	round	0.55	IŁ
л				•			

Width of rotating band	0.203 in.
Type of base	Souare
Radius of ogive	2.54 cal.
Muzzle velocity 2,840	ft per sec

26. CARTRIDGE, HE-I, T23 (M97), W/FUZE, P. D., T71E4 (M95), 20-MM GUNS, M1, AN-M2, M3, AND BR. H.S./A/ (fig. 29), is for use against aircraft and light materiel targets, functioning with both explosive and incendiary effect. The explosive filler is tetryl and the incendiary mixture is located in the base of the shell. After the shell penetrates the target, its filler is detonated, the shell shattered, and the incendiary composition ignited. Its fuze is an instantaneous

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percussion fuze of the impact type. The thickness of the base is approximately 0.2 inch, and a base cover is welded thereon for additional protection. This cartridge differs basically from the HE-I cartridge, described in pragraph 21, by having a pointed fuze.



Figure 29 -ARTRIDGE, HE-I, T23 (M97), w/FUZE, P.D., T71E4 (M75), mm Guns, MI, AN-M2, M3, and Br. H.S./A/

DATA

Weight	of cdete round	0.57 lb	Width of rotating band.	0.203 in.
Vergin	of clete round	7.22 in.	Type of base	Square
Length	of fi projectile	3.28 in.	Radius of ogive	2.54 cal.
Length	of cdge case	4.34 in.	Muzzle velocity	2,800 ft per sec
200.0	Maximum	range	5,750 yd	•



Fig0 - CARTRIDGE, Practice, T24 (M99), 20-mm Guns, M1, AN-M2, M3, and Br. H.S./A/

27. CHDGE. PRACTICE, T24 (M99), 20-MM GUNS, M1, AN-M2, AND BR. H.S./A/ (fig. 30), is for practice firing. The projectimilar in shape and ballistic properties to the T18 (M96) Incendiojectile but is hollow and contains no explosive. The nose consists inc die casting as in the T18 (M96) Incendiary but its weight justed to give the projectile a weight of 2,000 grains (0.29 the projectile body is made of cold-drawn steel.

DATA

Weight lete	round	0.57 lb	Width of rotating band	0.202 in.
Length icle Length ^{:tile}		3.27 in.	Radius of ogive	2.54 cal.
Lengthdge	case Maximum	4.34 in. 1 range	Muzzle velocity 2,800 : 	ft per sec



SMALL ARMS AND TRENCH WARFARE



Figure 89 - Hand Grenades

Body. The Fragmentation Hand Grenade Body Mk. II, is made of cast iron. It is about the size and shape of a large lemon and is designed to fit comfortably in the hand. The outside surface is deeply serrated, horizontally and vertically, to assist in forming uniform fragments of effective size when the grenade explodes. The opening in the top is threaded for assembly of the fuze. The body weighs approximately 1 pound, empty.

Bursting Charge. The explosive filler or bursting charge consists of 0.74 ounce of E. C. Blank smokeless powder. This is a commercial type of semicolloided nitrocellulose, granulated into small shot-like grains. It is generally pink or yellow in color and is associated with the words "blank fire" in that its principal use has been for loading blank ammunition for small arms.

FUZE, Igniting, Hand Grenade, M10. This is a mechanical device assembled to the grenade body which functions the grenade at the time and under the circumstances desired. (For details, see figure 90.) The fuze body (16, fig. 90) is threaded and screwed into the opening in the top of the grenade body. A lever (10, fig. 90) covers the top of the fuze body, one end being bent over to hook under a protruding lip. The other end of lever extends downward and is curved to follow the contour of the grenade body. A cotter pin (11, fig. 90) with a ring (20, fig. 90) in the eye extends through

Chapter 2

Hand Grenades

GENERAL.

Hand grenades form an important class of ammunition, especially for trench warfare. They are a convenient type of ammunition which, within certain limitations, enables the infantry to augment its primary weapons with a missile somewhat similar in action to a shell or bomb. Chemical hand grenades that produce clouds of irritant gases are also effective in dispersing mobs, quelling riots, etc.

Types. Hand grenades are divided into three general types, namely: explosive grenades containing a heavy charge of explosive, chemical grenades which contain a chemical filler, and training grenades developed for training in the use of grenades. At the present time, the Chemical Warfare Service handles all chemical hand grenades and there will be no discussion of this type.

GRENADE, HAND, FRAGMENTATION, MK. H, WITH HAND GRENADE IGNITING FUZE M10A2.

General. The Fragmentation Hand Grenade Mk. II, loaded with E. C. Blank smokeless powder and assembled with the Hand Grenade Igniting Fuze M10A2 is the standard for manufacture and issue. Its function is to cause casualties due to fragments of the grenade body. The grenade complete weighs approximately 20 ounces. This grenade, as issued, is shown in figure 90.

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Figure 90 — GRENADE, Hand, Fragmentation, Mk. II, w. Hand Grenade Igniting Fuze M10

toles in the lever and fuze body, holding the lever and striker ssembly (7, fig. 90) in place against the action of the spring (13, g. 90). The primer (15, fig. 90) is of the center fire type and is nown as the Mk. V. It contains a 0.4-grain charge of primer mixture n a cup inverted over an anvil. When the cotter pin (11, fig. 90) s removed and the lever (10, fig. 90) released, pressure from the pring (13, fig. 90) rotates the striker (7, fig. 90) around the hinge in (12, fig. 90). The point of the striker impacts against the primer



explodes the primer charge by crushing it on the anvil. The m the primer charge flashes through the primer body and 2-inch piece of commercial time fuse (6, fig. 90). This burns ximately 5 seconds while conducting the flame to the igniting 3, fig. 90) which then explodes and functions the grenade.

SMALL ARMS AND TRENCH WARFARE



Figure 91 - GRENADE, Hand, Fragmentation, Mk. II

The igniting charge consists of 7 grains of loose black powder contained in a copper case (4, fig. 90). The open end of the case extends inside the stem of the fuze body and is crimped in place, the joint being waterproofed by an application of green colored N.R.C. compound. The primer end of the fuze is protected against the entrance of moisture by a tin foil disc (14, fig. 90) which is sealed in place with shellac varnish. Other components of the fuze are the fuze sealer



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(8, fig. 90) and the composition washer (18, fig. 90). The fuze scaler is a piece of sheet metal which fits around the fuze body just above the threaded portion. Two projecting sides fit the triangular space between the fuze body and lever, thus preventing the entrance of mud, sand, or other foreign material into the firing mechanism. The composition washer serves as a gasket between the fuze and grenade body when the fuze is seated in place. Should the spring (13, fig. 90) lose its strength or become "set," failure of the fuze will result. It has been found necessary to replace old springs with new ones after long periods of storage. The complete fuze weighs approximately 3.22 ounces.

FUZE, Igniting, Hand Grenade, M10A1. The A1 modificiation of the FUZE, igniting, hand grenade, M10, consists of a redesign of the head of the fuze so that the fuze sealer washer is dispensed with and yet the striking mechanism is completely enclosed as before.

FUZE, Igniting, Hand Grenade, M10A2. The A2 modification of the FUZE, igniting, hand grenade, M10, consists of a change in the explosive train. The length of the Bickford fuse is shortened from 2 inches to 15_{16}^{+} inches, and between it and the primer are two delay pellets of compressed black powder. The delay time remains 5 seconds, 2 seconds being obtained from the black powder pellet and 3 seconds from the shortened length of Bickford fuse. This modification was found necessary in order to prevent the primer flame from completely bypassing the Bickford fuse and igniting the igniting charge directly when small diameters of Bickford fuse were coincidentally associated with large inner diameters of the fuze stem.

Operation: The grenade is grasped in the throwing hand with the lever held firmly against the grenade body. The first finger of the free hand is inserted in the ring, gripping it firmly between the second and third joints of the finger. The cotter pin is withdrawn by pulling the ring. The grenade is then ready to be thrown. The thrower must take every precaution after the cotter pin has been withdrawn, not to release his grip on the lever until the grenade is thrown. The grenade is thrown with a full swing of the cocked arm as one would throw a ball. The instant the grenade is released, the striker forces the lever away and fires the primer as shown in figure 91. Five seconds ater the action of the fuze causes the grenade to explode. The body pursts, forming many small fragments, some of which may fly over 200 yards. Personnel should be thoroughly familiar with the safety

ions in the following paragraphs before attempting to fire live tation hand grenades.

/ Precautions.

ive fragmentation hand grenade should never be thrown un-

SMALL ARMS AND TRENCH WARFARE

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less cover is at hand behind which the operator and friendly troops may secure shelter. Fragments may fly over 200 yards.

2. The grenade should not be armed by withdrawing the cotter pin unless the grenade is to be thrown at once. If the lever is accidentally released after the cotter pin is withdrawn, the striker will function immediately and the grenade will explode in approximately 5 seconds.

3. If the striker is accidentally allowed to function, the grenade should be thrown as far as possible and the thrower should seek shelter, but if none is near he should drop flat on the ground and lie prone.

4. If the grenade is accidentally dropped after the cotter pin has been removed, it should be picked up and thrown immediately; there is plenty of time if one does not hesitate. It will function in 4 or 5 seconds, but it can be thrown farther than one can run in that length of time. The operator should throw himself flat on the ground, as above, and warn others near him to do likewise.

5. It should never be assumed that one can guess when 5 seconds have elapsed, and allow the striker to function a moment or so before throwing the grenade. The material on the A2 modification of the fuze should bear out the wisdom of this precaution.

6. Live grenades that fail to fire (duds) should be handled very carefully in the manner prescribed in FM 23-30.

7. It should be kept in mind that the hand grenade is always loaded and cocked. It is always pointed at you. It is safe and effective when properly handled, but it is very dangerous when handled otherwise.

Painting and Marking. Loaded Fragmentation Hand Grenades Mk. II, are painted lustreless olive drab. The levers of the igniting fuzes are stamped with the fuze model, lot number of loaded fuze, and the fuze loader's initials.

Packing. Loaded and fuzed fragmentation hand grenades are packed in individual fiber containers, 25 grenades in containers per wooden packing box.

GRENADE, HAND, OFFENSIVE, MK. 111A1, UNFUZED (ADAPTED FOR HAND GRENADE DETONATING FUZE, M6A2).

General. Because of its structure, which is such that there is no marked fragmentation, this grenade can be used more safely in the open than can fragmentation hand grenades. It is used for demolition.

Body. The body of this grenade is formed of laminated cartridge paper and is fitted with light sheet metal plates crimped to the ends of the body. In the center of the top, a threaded brass collar is

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crimped in place as an adapter for the FUZE, detonating, hand grenade, M6A2. The grenade is cylindrical in shape.

Filler. The filler of this grenade is a pressed charge of flake TNT.

FUZE, Detonating, Hand Grenade, M6A2. This fuze is similar in mechanical action to the FUZE, igniting, hand grenade, M10A2. It is provided with a 5-second delay.

Painting and Marking. The loaded grenade body is black in color. A yellow gummed paper sealer runs about the center of the body and is printed with the type, the model, the lot number, the date of loading, and the loader's initials.

Packing. The loaded offensive hand grenade and the FUZE, detonating, hand grenade, M6A2, are packed and shipped separately. The loaded grenade bodies are packed 24 per box or 50 per box. The fuzes are packed 25 per carton, 8 cartons (200 fuzes) and 1 wrench (for field assembly of fuze to grenade) per box.

GRENADE, HAND, TRAINING, MK. IA1.

General. The training hand grenade is made of cast iron and is approximately the same shape, size, and weight as a loaded Fragmentation Hand Grenade Mk. II. A projection is cast on the top and side to represent the fuze assembly. The A1 modification consists of the addition of a cotter pin and pull ring to a hole drilled in appropriate position through this projection. This more closely simulates the operations involved in the throwing of a fragmentation hand grenade. The training hand grenade is used for preliminary practice in grenade throwing.

Painting and Marking. This grenade is painted black; that being its only distinctive marking.

Packing. This grenade is packed 24 per box.

FURTHER REFERENCES: SNL S-4; OFSB 3-10; TM 9-1900, TM 9-1985; FM 23-30; O.O. 7224.

Pars. 81-83



Classes of Ammunition

(1) Explosive grenades are used primarily for antipersonnel (fragmentation or blast) or antitank effect. They may also be used as demolition agents.

(2) Chemical grenades are used for casualty, harassing, incendiary, screening, and signaling purposes. Some of them may also be used for training purposes and destruction.

(3) Practice and training grenades are used in training troops for combat.

d. Fuzing. Grenades thrown by hand are normally fitted with a delay-action fuze. For explosive hand grenades and the chemical M15 (bursting type) WP smoke hand grenade, this delay is set for approximately 4.5 seconds. Burning-type chemical hand grenades use a fuze with a delay of approximately 2 seconds. Rifle grenades are usually fitted with a base fuze that functions on impact.

82. EXPLOSIVE HAND GRENADES.

a. Fragmentation type. The Mk 2 is a typical fragmentation hand grenade (fig. 11 and A, fig. 44). This grenade is made of cast iron varying in thickness from 1/8 to 1/4 inch. The body is lemonshaped, approximately 21/4 inches in diameter and 31/2 inches in length without the fuze. It contains an explosive charge which, upon detonation, breaks up the body of the grenade and fuze and projects the fragments outwards in all directions at high velocity. The body is grooved both horizontally and vertically. The fuze for this grenade has a primer, a combustible time-delay train, and a detonator. Attached to the fuze body is a safety lever held in place against the action of the striker spring by means of a safety pin. Just prior to throwing, the safety pin is removed. When the grenade is thrown, the safety lever is pushed off by the striker, allowing the striker to impact against the primer. The primer ignites the time-delay train and, after 4 or 5 seconds, this delay train causes the detonator to explode. This, in turn, causes the explosive filler in the grenade to detonate, thereby fragmenting the grenade. Fragments may fly over 200 yards.

b. Offensive type. The offensive grenade (fig. 11 and C, fig. 44) is intended to have an antipersonnel effect over a small area. It contains more explosive than the fragmentation-type grenade, approximately $\frac{1}{2}$ pound of pressed TNT, and, therefore, is more useful as a demolition agent. No fragmentation effect is obtained.

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Burning type. The standard container for this type of gre-(fig. 11 and D, fig. 44) is a cylindrical steel can $2\frac{3}{4}$ inches in heter and $4\frac{3}{4}$ inches high. The fuze for these grenades is similar be fuze used in the Mk 2 fragmentation grenade, except that it





Figure 44 - Hand Grenades - Cross Section



Classes of Ammunition

has an igniter instead of a detonator, and has a short delay time of 2 seconds. Grenades of this type have waterproof, adhesive-tape covered, smoke emission holes in the top, sides, or bottom. These grenades are described briefly as follows:

(1) CN-DM IRRITANT HAND GRENADE. The products of combustion of the filler in this grenade have a harassing effect. Its principal use is in the control of civil disturbances. The burning time is 20 to 60 seconds. The filler is a composition of tear gas, vomit gas, and smokeless powder.

(2) CN TEAR HAND GRENADE. This grenade is identical with the CN-DM grenade except that it has a tear gas filler. Principal uses are in control of civil disturbances, and training in use of the gas mask.

(3) HC SMOKE GRENADE. This is an Army-Navy standard white smoke grenade, used for signaling and screening purposes. The container is standard except that there are no emission holes in the side. The burning time is 2 to $2\frac{1}{2}$ minutes.

(4) TH INCENDIARY GRENADE. This is an Army-Navy standard munition for setting fire to enemy materiel. The container is standard except that there are no emission holes in the side. Clamps of steel strapping, which fit around the body of the grenade, may be used to nail the grenade against an object to be burned. The filling is thermate, which burns at approximately 4,330° F for 30 to 35 seconds.

(5) COLORED SMOKE GRENADE M16. This grenade, used for ground-air and ground-ground signaling purposes is made in the following colors: green, yellow, red, and violet. It is of standard construction and burns for approximately 2 minutes.

(6) COLORED SMOKE GRENADE M18. This grenade, available in red, green, yellow, and violet, is also used for signaling purposes. The container has emission holes in the top, and a single hole at the bottom. A tapered hole extends through the center of the grenade from the bottom emission hole to the fuze. The starter mixture lines the tapered cavity. The grenade produces a heavy smoke for approximately 1 minute.

(7) RED SMOKE GRENADE AN-M3. This grenade is an Army-Navy air forces official distress signal. It is the standard metal grenade except that the fuze lever is shortened and the body is covered with a metal jacket to which are attached three metal strips which may be bent out from the jacket to keep the grenade from sinking into snow or soft ground. Burning time is 2 to $2\frac{1}{2}$ minutes.

Bursting type. There is only one standard chemical grenade s type and it is known as the WP smoke grenade M15. This de has a drawn-stee! cylindrical body similar in size to the ng-type chemical hand grenades, and is filled with white phos-



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'ars. 83-87

Classes of Ammunition

phorus. The detonating fuze used in this grenade causes it to split open and project burning particles of phosphorus over a radius of about 15 yards. This produces a dense white smoke screen and will

PRACTICE AND TRAINING HAND GRENADES. This type cause casualties by burning.

of grenade (fig. 11 and B, fig. 44) is used in training. They may be 81. PRACTICE AND TRAINING is used in training. They may also of grenade (fig. 11 and B, fig. 44) is used in training. They may also of grenade (fig. 11 and B, fig. 44) is used in training of black powder contained into a stabilizer and fin assembly. The head of the grenade application of the stabilizer and fin assembly. grenade contains a 4-ounce cast-pentolite, shaped charge for blasting holes in the target. At the same time detonation of the main charge causes fragmentation of the body in a lateral direction. The grenade is intended primarily for use against armored vehicles. It has been found to be most effective against enemy personnel when it is fired at a high angle of elevation (45°).

CHEMICAL RIFLE GRENADES. 86.

a. Burning type. These grenades consist of a deep-drawn, thinwalled steel body with hemispherical ogive and body union assembly to which is attached a simple base fuze and a stabilizer and fin assembly (B, fig. 30). This type of grenade is available with approximately 10³/₄ ounces of HC white smoke or 6¹/₂ ounces of standard colored smoke fillings. Both HC and colored smoke grenades have five sealed smoke emission holes in the body union. The colored smoke grenades also have a smoke emission hole in the ogive. Both of these types of chemical rifle grenades commence burning upon impact, due to the action of the base initiating type of fuze. The HC grenade is intended primarily for screening purposes and the colored smoke grenades for signaling.

b. Bursting type. This grenade is the counterpart of the WP smoke hand grenade M15. The WP smoke rifle grenade M19 (A. fig. 45) has a stabilizer and fin assembly identical to that used in the antitank grenade M9A1. It contains approximately 8.5 ounces of white phosphorus and is equipped with a burster actuated by a basedetonating fuze. The spontaneously combustible WP grenade is scat-

l upon impact.

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PRACTICE AND TRAINING RIFLE GRENADE. There is at ent only one standard practice rifle grenade, the M11A3 (fig. 12). grenade is used only in training and simulates the flight and



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cal. .30 carbine. The various weapons used to project the rifle grenades require certain accessories.

The U. S. RIFLE, cal. .30, M1903, requires a launcher which is attached to the muzzle of the rifle, and the CARTRIDGE, rifle grenade, cal. .30, M3.

The U. S. RIFLE, cal. .30, M1903A1 and M1917, may also be used to project rifle grenades. In such cases, each of the above rifles requires a special sight and the M1917 Rifle also requires a special launcher, designed to fit this weapon in particular.

The cal. .30 carbine requires a special launcher and the CAR-TRIDGE, grenade, carbine, cal. .30, M6. No further information is available at the present time with regard to these accessories for the firing of rifle grenades from the carbine.

The original issue of antitank grenades to an individual soldier is made by means of a kit which contains, in addition to a supply of grenades and cartridge, the necessary auxiliary equipment for the rifle with which he is provided. Subsequent issues consist of only rifle grenades and cartridges until such time as replacement of the accessories becomes necessary.

GRENADE, Rifle, H.E., M9. This is the originally developed antitank grenade, and is now standard for issue only since an improved type has been developed. It has a sheet metal body and weighs 1.5 pounds. It will detonate upon impact, provided the surface struck and the angle of impact are such as to exert pressure on the projection on the nose of the grenade (fig. 99).

GRENADE, AT, M9A1. This grenade also has a sheet metal body, but weighs only 1.31 pounds. It is more sensitive than the M9 and may detonate upon impact with soft earth. However, for certainty of detonation, it should strike the target head-on, or nearly so. The grenade consists of two principal parts: the high explosive head, and the stabilizer tube and fin assembly (fig. 99). The head of the grenade is composed of the ogive, or forward rounded portion; and the body, or rear portion to which the ogive is crimped. The charge of the grenade is 50/50 cast pentolite with the exception of a 10/90cast pentolite booster surround.

This type of charge is known by the name "shaped charged." The effect of such a shaped charge on armor plate is very unusual. It appears to focus the detonating wave against a small area of the plate. This focused and concentrated wave hits the plate with such terrific force that a roughly cylindrical hole is driven through it. The metal

plate is raised to an incandescent heat and issues from the the hole in the armor in the form of a cone-shaped spray whose of opening is approximately 90 degrees. This effect of the charge is also known as the "Munroe effect," receiving this

SMALL ARMS AND TRENCH WARFARE





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GRENADE, AT, M9.

GRENADE, AT, MOAL



CARTRIDGE

AT, GRENADE, M3

LAUNCHER, GRENADE, MI.

Figure 99 — Rifle Grenades and Launcher . 255





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name from that of the discoverer of the effect of shaping charges. Some figures substantiating the effect on armor plate will be presented in the sections dealing with antitank rockets.

The stabilizer assembly consists of these major parts: the fuze body, which contains the fuze parts and which threads into the union; the stabilizer tube, which attaches to the rear of the fuze body with four rivet-like pins; and the fin, which is spot-welded to the rear of the stabilizer tube.

The fuze is a simple impact firing device consisting of a spring restrained striker, which on impact strikes a detonator of priming mixture, lead azide, and tetryl, which in turn causes detonation of a booster of tetryl. The wave from the booster in turn detonates the bursting charge in the grenade body. The striker is held safe in storage by a safety pin which clips to the stabilizer tube and passes through the fuze body, at the same time engaging an annual groove in the striker. This safety pin must be removed prior to firing the grenade.

The stabilizer tube serves two purposes, an attachment for the fin, and a support for the grenade on the launcher. The tube is slipped over the end of the launcher. The fin, of course, stabilizes the flight of the grenade.

It should be noted that the penetration of the grenade is not achieved by its velocity, the initial velocity being in the vicinity of 150 feet per second, but entirely by the effect of the shaped charge.

GRENADES, AT, Practice, M11 and M11A1. These grenades are dummy (inert) grenades, similar in size, shape, and weight to the GRENADE, rifle, HE, M9, and the GRENADE, AT, M9A1, respectively. Each of these grenades consists of two parts, a head and a fin assembly. When damaged by repeated use, the fin assembly may be replaced. These grenades are used for target practice only.

CARTRIDGE, Rifle Grenade, Cal. .30, M3. This cartridge, used in discharging rifle grenades, is a special type of blank cartridge, recognizable by the rose crimp at its mouth. Only this cartridge must be used for this purpose. Neither ordinary blank ammunition nor ball ammunition may be used.

LAUNCHER, Grenade, M1. The launcher, on which the grenade is placed for firing, is an extension to the barrel of the rifle. A clamp with a wing nut is provided for attaching the launcher securely to the muzzle of the rifle. When the launcher is attached, the rifle may be employed for firing ball ammunition; however, the bayonet cannot be fixed. The rings and grooves on the launcher (fig. 99) act as gas checks, slowing down the escape of the propellent gases from the rifle grenade cartridge.

Recoil Pad. A rubber recoil pad is provided for protecting the rifle stock when the rifle is fired with butt resting against a hard sur-

PD 24054 FRON SIGHT SIGHT ≾ INDICATOR LAMP REAR TRIGGER - Launcher, Rocket, AT, M1 BATTERY COMPARTMENT ELECTRIC MECHANISM SIDE SIDE RIGHT LEFT CONTACTOR Figure 100 STOCK LATCH SPRING GUARD



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Guns M3, M3A1, M5, and M6 Canister M2, and SH5LL, H.E., M63, for 37-mm Figure 135 CANISTER, Fixed, M1.

Complete round. The Canister M1, was developed for M1916 Gun. Its purpose was to spray personnel with lead batter close range.

Cartridge cases and primers. Canister M1 will probably be found in the field assembled to Mk. IA1 Cartridge Case primed with M23A1 Primer. Some rounds may be found, however, with Mk. I Cartridge Cases and Mk. IIA1 Primers (cartridge cases, page 337, and primers, page 331).

Propelling charge. FNH powder contained loosely in the cartridge case.

Projectile. The canister is nothing more or less than a can filled with 38 lead balls. The case is provided with 3 longitudinal slots. A raised bead around the lower portion of the case stops the projectile from seating too far into the cartridge case. It should be noted that the projectile consists entirely of inert materials and does not require a fuze.

Function. When the gun is fired, the shock of discharge ruptures the case at the longitudinal slots, freeing the lead balls. The case bursts within 100 feet of the gun and the balls fan out into a coneshaped pattern with a velocity almost equal to the muzzle velocity of the projectile which is about 1,276 feet per second. The penetration of wood, earth, or brick by the balls is very slight. The maximum effective range of canister against personnel is 75 yards.

Identification. The Canister M1 can be identified as a 37-mm M1916 Gun round by the length of the cartridge case. It may be distinguished from other rounds by the can-like appearance of the projectile which is painted black (black painting indicates inert materiel).

SHELL, Fixed, H.E., M63.

Complete round. The high-explosive shell for tank and antitank weapons is used against targets where the explosive feature of the shell will prove more destructive than armor-piercing shot. The round is shipped complete with fuze, as are all fixed artillery shell.

Cartridge cases. M16 Cartridge Case is "Standard," M16B1 is "Substitute Standard" (see cartridge cases, page 345).

Primer. The M23A2, 20-grain Percussion Primer is "Standard." Some rounds may be found primed with M23A1 (primers, page 331).

Propelling charge. Approximately 0.44 pound of FNH powder poured loosely into the cartridge case imparts a muzzle velocity of about 2,650 feet per second to the projectile.

Projectile. The High-explosive Shell M63 weighs 1.61 pounds loaded and fuzed, and measures 5.92 inches in length. The nose of the projectile has a long taper and extends to a rounded point since a base-detonating fuze is used. The ogive radius is 13 inches. The bursting charge consists of 0.085 pound of flaked TNT packed so as to completely surround the booster cavity.

Fuze, base-detonating, M58. The internal mechanisms and explosive contents of this fuze are identical te those of the M38A1 (page

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Figure 38 — SHELL, Fixed, H.E., M63, w/FUZE, B.D., M58, 37-mm Guns, M3, M3A1, M5, M5A1, and M6

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340) therefore, its operation is the same. The differences in these fuzes lie in the fuze body. The explosive cavity of the M63 H.E. Shell, in which the M58 is used, is larger in diameter than the explosive cavity of the Mk. II H.E. Shell in which the M38A1Fuze is used. Therefore, the body of the M58 is correspondingly greater in diameter than the body of the M38A1.

Identification. The M63 H.E. Round can be identified by the length of the cartridge case (8.75 inches) and the extracting flange. It is painted olive drab with yellow stencilling. Aside from the painting and marking, it may be distinguished from other tank and antitank rounds by its long, tapered nose. The AP and target-practice shot have smaller radii of ogive giving the appearance of a much blunter nose. If the shot is capped, the shape of the cap is peculiar. If the armorpiercing round is capped and has a windshield, the windshield may be distinguished because of the material used and because of the fact that it is screwed to the cap. The complete round of H.E. Shell M63 is 14.09 inches long, and weighs approximately 3.03 pounds.

SHOT, Fixed, A.P.C., M51 w/TRACER.

Complete round. This round has all of the features of an ideal armor-piercing shot, and is effective against all types of armor plate. The model number marked on the projectile may be either M51, M51B1 or M51B2; rounds so marked are identical in functioning, the B1 or B2 designations signifying only that the projectiles are manufacturing alternatives of the M51.

Cartridge cases. The Cartridge Case M16 is "Standard," M16B1 is "Substitute Standard" (cartridge cases, page 345).

Primers. M32A2, 20-grain, Percussion Primer is "Standard." Some rounds may be found primed with the M23A1 (primers, page 331).

Propelling charge. 8.1 ounces of FNH powder contained loosely in the cartridge case provides the projectile with a muzzle velocity of 2,900 feet per second.

Projectile. The projectile is made up of four parts:

1. The body is made of very hard steel and does the actual penetrating. It is solid except for a cavity in the base to contain the tracer.

2. The cap is made of soft steel and is sweated on the nose of the body. Its purpose is to reduce the possibility of ricochet and to serve as a cushion or guide for the body when it strikes the armor plate.

3. The windshield is a false ogive, made of an aluminum alloy, which is assembled to the cap with threads, and continues the nose of the projectile to a point. Its purpose is to streamline the projectile in flight, thus improving its ballistics.

4. The tracer is made up of red tracer composition, and igniting composition, and a celluloid cup which fits over the tracer charge

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and is sealed with adhesive compound. The tracer burns for about 2,000 yards of the flight of the projectile.

The term A.P.C. in the nomenclature of armor-piercing projectiles stands for armor-piercing, capped. The projectile weighs 1.92 pounds and is 6.36 inches long with the windshield and 4.63 inches long without the windshield.

Identification. The complete round may be identified for the M3 and M3A1 (antitank) and M5 and M6 (tank) Guns by the length (8.75 inches) and extracting flange of the cartridge case. It can be distinguished as the A.P.C. M51 Round by the aluminum windshield or, if the windshield is not assembled, by the threads on the armorpiercing cap. The complete round is 14.53 inches long and weighs 3.41 pounds. Since the projectile is inert, it is painted black and stenciled in white.

SHOT, T.P., M51 w/TRACER.

Target practice shot is for use in target practice and general field practice. The M51, T.P., Shot is listed as standard for issue and manufacture in SNL R-1. A T.P. Shot M51A1 is also listed in SNL R-1 and is standard for issue only. The A1 modification does not have a windshield.

Cartridge cases. Cartridge Case M16 is "Standard," M16B1 is "Substitute Standard" (cartridge cases, page 345).

Primer. M23A2, 20-grain, Percussion Primer is standard. Some primers designated M23A1 are on hand (primers, page 331).

Propelling charge. 6.6 ounces of FNH powder are poured loosely into the cartridge case.

Projectile. The projectile is the same as that for the APC, M51, Service Round except that the body and cap of the shot are made in one piece of steel that is not heat-treated. The Complete Round Chart carries the notation "Approximately 50,000 of unheat-treated shot in accordance with Drawing 75-1-73 have been manufactured for target practice purposes. Future requirements will be met by supplying the standard AP round in accordance with Drawing 75-1-70." However, SNL R-1, which is of a later date than the Complete Round Chart, lists T.P. M51A2 (Drawing 75-1-73) as standard for issue and manufacture. The T.P. M51A2 is similar to the T.P. M51 and also has a windshield.

Identification. Except for blue painting and white stencil, the T.P. M51 Round has the same appearance as the Service Round APC

Γ, Fixed, A.P., M74 w/TRACER.

lete round. As indicated by the nomenclature, this round does an armor-piercing cap. It was designed because the manufacture requires fewer operations and less material and can be accomplished with greater speed. It is effective against homogeneous armor plate, but is likely to ricochet or be deflected on impact with facehardened armor plate.

Cartridge cases. M16 is "Standard," M16A1 is "Substitute Standard" (cartridge cases, page 345).

Primer. The M23A2 Primer is "Standard" with this round. Some rounds may be on hand, primed with M23A1.

Propellant. Approximately 8.1 ounces of FNH powder, poured loosely into the cartridge case provides the projectile with a muzzle velocity of 2,600 feet per second.

Projectile. The Shot M74, is in the form of a solid steel slug, measuring 4.84 inches in length and weighing 1.92 pounds. It has a comparatively blunt nose, for the radius of ogive is 2.205 inches. A cavity is machined into the base for a tracer. This built-in tracer helps artillery crews to observe the fire of the weapon. The tracer assembly is the same as that described for the APC M51 Round (tracer, page 349). This M74 Shot is similar to the AP M80 Shot used in the 37-mm Antiaircraft Gun M1A2. The complete rounds differ in respect to cartridge cases and propelling charges.

Identification. The complete round may be identified for the tank and antitank guns by the length of the cartridge case (8.75 inches) and the extracting flange. It is distinguished as AP Shot M74 by the absence of an armor-piercing cap and the stubby appearance of the nose (ogive radius of 2.205 inches). The projectile is painted black and stenciled in white. The complete round is 13.01 inches long and weighs 3.34 pounds.

Blank ammunition. The old type blank ammunition for 37-mm Guns M3, M3A1, M5, and M6 is of the same type construction as that described for the M1916 Gun (blank ammunition, page 343). Of course, a M16 or M16B1 Cartridge Case would be used.

The new type blank round for the tank and antitank guns consists of an Adapter M2 and a 10-gage blank cartridge. The adapter is made up of an M16 Cartridge Case adapted for a central tube of a size to seat the 10-gage cartridge.

CARTRIDGE, Drill, M13. The drill round is made up of inert used components from service rounds. It is used to train personnel in the handling of ammunition and in loading and unloading weapons. It may be identified by a hole drilled through the cartridge case to show that it contains no propelling charge. If an inert H.E. projectile is used, it will also have a hole drilled completely through it.

Packing of Ammunition for Guns M3 and M3A1 (Antitank) and M5 and M6 (Tank). Ammunition for these weapons is packed as follows:







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SHELL, Fixed, H.E., M54 w/S.D. TRACER.

Complete round. The burst of the M54 High-explosive Shell is one of the best means known by the Army to discourage attack by enemy aircraft. The combination of a tetryl loaded shell and supersensitive fuze spells destruction for light material targets such as planes. The same projectile is used in the M4 (Aircraft) Gun against planes.

Cartridge Cases. The M17 Case is "Standard," the M17B1 is "Substitute Standard" (cartridge cases, page 353).

Primer. The M23A2 is "Standard." Some rounds on hand may be primed with the M23A1 (primers, page 331).

Propelling charge. A muzzle velocity of 2,600 feet per second is imparted to the projectile by 6 ounces of FNH powder.

Projectile. The Projectile M54, as fired, weighs 1.34 pounds and is about 5.9 inches long. It is the same projectile as the M54 fired from the M4 Aircraft Gun. The projectile consists of three components: the body with its bursting charge; the Point-detonating Fuze M56; and the shell-destroying tracer.

The body is machined from bar steel and is 4.13 inches long. Only 2.32 inches of the body itself protrudes from the cartridge case. The base of the projectile is very thick (over $1\frac{1}{2}$ inches) and is tapered for streamlining purposes. The cavity for the shell-destroying tracer is machined into this heavy base. The bursting charge of 0.10 pound of tetryl is pressed into the body in two increments: a base pellet and a main charge.

The shell-destroying tracer assembly consists of a quantity of tracer composition, an ignited charge, a celluloid closing cup, a relay igniting charge and a relay pellet. The tracer charge is held in place by a celluloid cup sealed with adhesive compound. The celluloid cup transfers the flame from the propellant to the igniter charge of 20 grains of igniter composition. The igniter fires the red tracer composition which weighs 90 grains. When the tracer composition is almost completely burned, it initiates the relay igniting charge of 1.68 grains of black powder contained in a steel housing which screws into the tracer cavity just below the tetryl base pellet. This relay igniter carries the flame to the relay pellet of 23 grains of black powder which covers the entire base of the bursting charge cavity. The relay pellet is sufficient to effectively detonate the tetryl base pellet of the bursting charge, and finally the main bursting charge itself.

The maximum vertical range of the high-explosive shell is 6,200 yards and the maximum horizontal range is 8,875 yards. The tracer compound, however, burns out and ignites the black powder relay pellet after approximately 3,500 yards of vertical travel or 4,000 yards of horizontal travel, so the shell is destroyed before it reaches its maximum limit. This eliminates the possibility of the shell's



falling to the ground, detonating, and causing casualties among friendly troops.

FUZE, point-detonating, M56. Since the High-explosive Round M54 is required to function on impact with light materials such as those used in planes, a supersensitive fuze is needed. A supersensitive (uze is one which will detonate on very slight impact such as with a double thickness of airplane fabric. The M56 is both supersensitive ind superquick because the firing pin is protected only by a very

minum closing cup and rests, at the time of impact, right detonator which initiates an almost uninterrupted train of ng explosives.

ody of the fuze is divided into three parts; the body loading , the head assembly, and cap. The booster of tetryl is 356

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pressed into a cavity in the lower part of the body, and is held in place by an aluminum closing cup which screws into the base of the fuze. The body loading assembly also contains an eccentrically weighted slider. The slider incorporates a charge of tetryl and is held in place, with its charge out of line with the rest of the explosive train, by a spring backed up by a cup-shaped brass retaining screw which assembles into the side of the fuze body. The detonator assembly consists of a brass detonator holder, which screws into the body loading assembly; a detonator of priming mixture, lead azide and tetryl, and a lead charge of tetryl. Semicircular, brass half blocks held together by a flat steel spring sit loosely in a cavity in the head assembly which screws over the detonator holder and into the body loading assembly. These half blocks have beveled notches which seat a rim on the firing pin. The firing pin fits into a cap closed with a very light aluminum cup. The cap containing the firing pin screws into the head assembly. All of the parts just described except the slider, the detonator holder, and the half blocks and their spring, are made of aluminum alloy.

The function of the fuze begins when the projectile has cleared the muzzle of the weapon and centrifugal force comes into play. The velocity with which the projectile rotates as it leaves the gun causes the eccentrically weighted slider to compress its spring and bring its tetryl charge into line with the explosive train. At the same time, the half blocks spread outward against their spring and the firing pin rides up the beveled notches. As the half blocks spread a sufficient distance apart, the firing pin comes gradually down between them and rests on the light aluminum closing disc of the detonator. When the projectile contacts the material of the target, the light aluminum closing cup in the cap is pushed in, and forces the firing pin into the priming mixture. The priming mixture initiates the explosive train of detonator, lead azide and tetryl, lead charge of tetryl, slider charge of tetryl, tetryl booster, and bursting charge of tetryl. These explosives are arranged in a practically uninterrupted train which gives the fuze superquick action.

Identification. The complete round of M54, H.E. Shell can be identified for the Antiaircraft Gun M1A2 by the extracting groove in the cartridge case. The presence of the M56 Fuze identifies the round as H.E. M54. The only other 37-mm round for the M1A2 Gun that has a fuze is the practice round. The fuze for the practice shell is a dummy made of cast aluminum. The M54 is painted olive drab and stenciled in vellow. The complete round is 12.81 inches long and weighs 2.62 pounds.

SHELL, Fixed, Practice, M55A1 w/TRACER.

Complete round. This round was designed to simulate the M54, H.E. Shell for practice firing.





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Cartridge cases. M17 is "Standard," M17B1 is "Substitute Standard" (cartridge cases, page 353).

Primer. M23A2, 20-grain, Percussion Primer is "Standard." Some rounds may be found primed with M23A1 Primer (primers, page 331).

Propelling charge. The propelling charge consists of 6 ounces of FNH powder.

Projectile. The projectile is of the same length, weight, and contour as the H.E. Shell M54 (page 355). It is made up of three parts.

The body has no filler, but is made to the same size and weight as the high-explosive M54. A tracer cavity is machined into the base. Of course, since no filler is used, the tracer does not have shelldestroying qualities.

The tracer consists of red tracer composition and igniting compound closed into the tracer cavity with a celluloid cup which is sealed with adhesive compound.

The FUZE, dummy, M50, is entirely inert and is made in one piece of cast aluminum. It is of the same size, shape, and weight as the M56 Fuze.

Identification. The complete round can be identified for the M1A2, 37-mm Antiaircraft Gun by its size and the extracting groove in the cartridge case. Aside from the blue painting and white stenciling on the projectile, it may be distinguished as the Practice Round M55A1 by the Dummy Fuze M50. The complete round measures 12.81 inches in length and weighs 2.62 pounds.

SHOT, Fixed, A.P.C., M59 w/TRACER.

Complete round. This round is "Standard" for use against any type of armor plate. It is very similar to the SHOT, APC, M51, used in the 37-mm Antitank and Tank Guns M3, M3A1, M5, and M6. The main differences are in the cartridge cases and in the fact that the M59 Shot does not have a windshield to extend the ogive.

Cartridge cases. M17 is "Standard," M17B1 is "Substitute Standard" (cartridge cases, page 353).

Primer. M23A2, 20-grain, Percussion Primer is "Standard." Some rounds on hand may incorporate the M23A1 Primer (primers, page 331).

Propelling charge. A propelling charge of 0.31 pounds of FNH powder gives the projectile a muzzle velocity of 2,050 feet per second.

Projectile. Aside from the following differences, the projectile is the same as the SHOT, APC, M51, used in the Tank and Antitank Guns M3, M3A1, M5, and M6 (page 349).

The chambering of the Antiaircraft Gun M1A2 does not permit the use of a windshield.

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The M59 Antiaircraft Round contains more tracer composition in he base (enough to burn 3,500 yards) than does the M51 Antitank (ound.

The M59 Projectile is a trifle lighter than the M51.

Identification. The complete round may be identified for the antiircraft group by the size and extracting groove of the cartridge case. he black painting with white stencil and the armor-piercing cap istinguishes it as SHOT, APC, M59. The complete round is 12.76 iches long and weighs 3.12 pounds.

SHOT, Fixed, A.P., M74 w/TRACER.

Complete round. As indicated by the nomenclature, this round does ot include an armor-piercing cap. It was designed as "Substitute tandard" for SHOT, APC, M59. It does satisfactory work against omogeneous armor plate, but not against face hardened armor plate.

Cartridge cases. M17 and M17B1 are "Standard" and "Substitute landard" respectively (cartridge cases, page 353).

Primer. M23A2, 20-grain, Percussion Primer is "Standard." Some ounds may still contain M23A1 Primer (primers, page 331).

Propelling charge. 4 ounces of FNH powder impact a muzzle veecity of 2.050 feet per second to the shot.

Projectile. The projectile is exactly the same as the M74 used for 7-mm Tank and Antitank Guns M5, M6, M3, and M3A1 (page 50).

Identification. The extracting groove on the cartridge case, and size if the round identify it as belonging to 37-mm antiaircraft group. The black painting with white stencil and the stubby nose (ogive adius of 2.205 inches) distinguish it as SHOT, AP, M74. The comlete round is 13.01 inches long and weighs 3.07 pounds.

Packing of Ammunition for 37-mm Antiaircraft Gun M1A2. 7-mm antiaircraft ammunition is packed as follows:

The high-explosive and practice rounds are packed in two ways: 1. 1 round per fiber container, 25 containers (25 rounds) per cooden box.

2. 20 rounds per metal-lined wooden box.

The armor-piercing, and armor-piercing capped rounds are shipped per fiber container, 25 containers (25 rounds) per wooden box.

MMUNITION FOR 37-MM AUTOMATIC GUN M4 (AIRCRAFT).



on. With the rapid advancement of aviation, the developnew techniques and purposes for aircraft, and the improveaviation armor, it was found necessary to design an aircraft vith a high-explosive round. The 37-mm Automatic Gun M4

ARTILLERY AMMUNITION

9-1904

was the answer to this necessity. It has a standard muzzle velocity of 2.000 feet per second. The ammunition is fed into the gun by a 5-round feeder, by a 15-round articulated-link belt housed in a magazine, or by a 37-mm Endless Belt M6 containing 30 rounds. A peculiarity of the weapon is that while it is automatic, the cartridge cases used with the ammunition have extracting flanges and no grooves.

Types of Ammunition. Types of ammunition used in the aircraft weapon are as follows:

Types																									1	FIII	•	
High-explosive			 		•	 	•				• •	•			•	• •				 		•		•	.7	Ге	try	71
Armor-piercing		• •	 		•		•			•	• •		•	•	•				•		•		•	•	• •	N	or	le
Practice	 •	• (•				•	•							•	•					•	•	• •	N	on	e

Cartridge Cases. The Mk. IIIA2 Cartridge Case is "Standard" for all ammunition used in the Aircraft Gun M4. It is made of cartridge brass and can be distinguished from all other 37-mm cartridge cases by its length (5.69 inches). The extracting mechanism of the weapon requires a cartridge case with a flange.

The Mk. IIIA2B1 Cartridge Case is "Substitute Standard." It differs from the Mk. IIIA2 only in that it is made of steel and has a slightly thinner head and primer seat.

Primer. The M23A2, 20-grain, Percussion Primer is "Standard" for all aircraft rounds. Some rounds may be on hand, primed with the M23A1 Primer.

Propelling Charges. The high-explosive and practice rounds require a propellant of 2.5 ounces of FNH powder. The armor-piercing round requires 2.3 ounces of FNH powder.

SHELL, Fixed, H.E., M54, w/TRACER. The projectile of this round is exactly the same as the M54, H.E., Shell for the Antiaircraft Gun M1A2 (page 355). The only differences in the complete rounds are in the cartridge case and propelling charge. The aircraft shell may be distinguished as such by its shorter cartridge case (5.69 inches) with its extracting flange. The complete round is 9.75 inches long and weighs 1.94 pounds.

SHELL, Fixed, Practice, M55A1, w/TRACER. This round is the same as the M55A1 Practice Shell for the Antiaircraft Gun M1A2 except for differences in the cartridge case and propelling charge (page 359). The aircraft round may be distinguished by the length (5.69 inches) and extracting flange of its cartridge case. The complete round is 9.75 inches long and weighs 1.94 pounds.

SHELL, Fixed, Armor-piercing, M80, w/TRACER. The M80 is very similar to the M74 Armor-piercing Shot which is fired from the





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SHOT, AP, M80, for 37-mm Gun

Figure 141

ARTILLERY AMMUNITION

M1A2 antiaircraft gun (page 360). The main differences are in the cartridge case and propelling charge. The two projectiles are of similar construction, but the M80 is lighter in weight. This is accomplished by shortening the projectile. The M80 is 4.23 inches long and weighs 1.66 pounds, while the M74 is 4.84 inches long and weighs 1.92 pounds. The aircraft round also has a slightly greater radius of ogive (2.35 inches as compared to 2.205 inches). The Aircraft Round M80 may be distinguished as 37-mm ammunition by its size, and for the aircraft group by the length (5.69 inches) and flange of its cartridge case. The complete round is 9.34 inches long and weighs 2.25 pounds. The projectile is painted black with white stencil.

Packing of Ammunition for the 37-mm Aircraft Gun M4. This ammunition is packed as follows:

The high-explosive and practice rounds are packed in two ways:

1. 1 round per fiber container, 40 containers (40 rounds) per wooden box.

2. 20 rounds per metal-lined wooden box.

The armor-piercing shot is packed 1 round per fiber container, 40 containers (40 rounds) per wooden box.

FURTHER REFERENCES: SNL R-1, Parts 1 and 2; SNL R-5, Parts 1 and 2; Ordnance Drawings; OS 9-20.



ARTILLERY AMMUNITION

CARTRIDGE, H.E.-T(SD), Mk. II.

General. This round was designed for use against aircraft but may ilso be used against other targets of opportunity. The nomenclature ells much of the story of the projectile since the "HE-T" indicates high-explosive filler with tracer and the "SD" refers to the tracer as shell-destroying. The complete round consists of a fuzed projectile complete with filler and tracer, a propelling charge, and a primed cartridge case.

Cartridge Cases. The M25 Brass Case is "Standard" for rounds of American design; the M25A1 Steel Case is "Substitute Standard." The M22A1 Brass Case is "Standard" with British rounds, the M22A1B1 Steel Case is "Substitute Standard."

Propelling Charge. A muzzle velocity of 2,960 feet per second s imparted to the projectile by 10.4 ounces of FNH smokeless powder soured loosely into the cartridge case.

Primer. The M23A2, 20-grain, Percussion Primer is "Standard" or all 40-mm rounds. PRIMER, percussion, No. 12, Mk. II/L/, may be found in some old rounds of British design.

Projectile. The Mk. II High-explosive Projectile is made up of a metal parts assembly, a filler, a shell-destroying tracer, and a pointletonating fuze. The projectile, loaded and fuzed, is a little over 7 nches long, the length varying slightly for different fuzes.

Metal parts assembly. This assembly consists of the shell body and he rotating band. The body is completely hollow. The cavity at the

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40-mm, Mk, II, T/L/

rear of the body is shaped and threaded to take the Tracer Igniter No. 12, Mk. I/L/. The nose end of the filler cavity is threaded to take Point-detonating Fuzes No. 251, Mk. 27 or M64A1. A knurled or ribbed recess 0.642 inch wide is machined into the body 1.745 inches above the base to receive a copper rotating band. A cannelure is cut into the shell about 0.5 inch behind the rotating band to receive the cartridge case crimps. The ogive of the projectile is tapered rather than curved. The taper is 7 degrees 15 minutes. The base is also cylindrically tapered to an angle of 7 degrees 45 minutes.



Figure 144 ---- Tracer and Igniter, Shell No. 12, Mk. I/L/

Filler. The filler consists of 0.15 pound of TNT and 0.005 pound black powder in the form of a pellet with a hole in the center. The ler of the American projectile is drilled out at the top to acmmodate the booster of the fuze. This drilling leaves the fuze oster surrounded by TNT. The British filler is drilled deeper at a nose to accommodate an auxiliary booster pellet of tetryl. A cavity also drilled into the TNT at the bottom leaving a surround. A felt is fits into the top of this cavity. The black powder pellet is inted behind this disc and is held in place by the tracer igniter sembly.

Tracer assembly. The proper nomenclature for the tracer assembly "Tracer and Igniter, Shell, No. 12, Mk. I/L/ Internal," the British signation. The assembly is contained in a steel shell which threads to the base of the projectile so that only a paper disc separates the

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relay igniter charge of loose black powder from the black llet in the bursting charge. This relay igniter is surrounded composition which extends rearward to a layer of priming in. Between the priming composition and the cap holder

ARTILLERY AMMUNITION

which fits inside a stirrup spring is loose black powder. The cap holder assembly includes a cap anvil which fits over a vent leading to the loose black powder and igniter composition placed between the anvil and the stirrup spring. The stirrup spring rests on the shoulders of a cylindrically shaped anvil which is closed at the bottom. A protrusion in the bottom of the anvil acts much the same as a firing pin. The tracer and igniter assembly is sealed at the base with a lead sealing disc.

The function of the tracer and igniter assembly begins when the projectile starts down the bore of the weapon. Set back action causes the cap holder to move rearward and straighten out the stirrup spring which has retained it. The action carries the cap and stirrup spring onto the firing pin-like projection in the center of the anvil and crushes the igniting composition against the cap anvil. The flame from the resulting explosion fires the loose black powder which in turn ignites the priming composition. The back pressure from this loose black powder forces the mechanisms behind it out of the igniter body. The priming composition ignites the tracer composition. When the tracer composition has burned for approximately 7 seconds, it ignites the black powder relay igniter which carries the flame to the black powder pellet in the bursting charge and results in the destruction of the projectile.

There are three fuzes listed as standard for issue and manufacture for use with the Mk. II Projectile: the British FUZE, percussion, D.A., No. 251, Mk. I/L/, the Navy FUZE, P.D., Mk. 27, and the Army FUZE, P.D., M64A1.

FUZE, Percussion, D.A., No. 251, Mk. I/L/.

Description. The "D.A." in the nomenclature of this fuze is British for "direct action" which means about the same as the Army Ordnance term "superquick." The body of the fuze is made in three parts. The lower part is threaded on the outside for screwing into the nose of the Mk. II Projectile and is threaded on the inside to receive a relay assembly containing a charge of 2.3 grains of tetryl and a booster cup containing a tetryl pellet weighing 109,69 grains. A lead washer fits around the bottom of the protrusion on the relay holder. A thin brass cylinder fits over the upper end of the relay holder. Four tiny lugs at the top of this cylinder are bent over the rounded shoulder on the relay holder. Four tiny lugs at the bottom of the cylinder are bent out and up to retain a heavier brass arming sleeve. The arming sleeve is of sufficient length to protrude above the relay holder and retain two centrifugal blocks. These blocks form a positive separation between the relay charge and the detonating elements of the fuze making it boresafe. The detonator assembly fits in through the top of the lower part of the body and rests on the centrifugal blocks. The detonator charge consists of 0.93 grain of

CYLINDER

THIN BRASS

NId

FIRING

PRIMER

HEAD

FIRING PIN HOLDER

SPRING

SCREW

RETAINING

AZIDE

LEAD A TETRYL

SLEEVE

RMING

SLEEVE

FLANGED

NId

STEEL BALL

CAP

STRIKER

DISK-

CLOSING

CYLINDER

THIN BRASS

SLEEVE

ARMING

LEAD WASHER

(TETRYL)

RELAY

BLOCKS

CENTRIFUGAL

PD 22931

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Percussion, D.A., No. 251, Mk. I/L/

FUZE,

Figure 145

BOOSTER (TETRYL)

BRASS LOCKING WASHER

SPRING

ARTILLERY AMMUNITION

lead azide over 0.15 grain of tetryl. A brass washer in two parts fits around the detonator holder just above the shoulder. This washer is backed up by a spring which is compressed and held in place by a retaining screw. The lower portion of the body is threaded on the outside at the top so that the second body part, the head, may be screwed over it.

The head is threaded on the inside at the rear to receive the firing pin sleeve and the primer assembly. The primer holder screws into the head behind the firing pin sleeve. The primer charge of priming mixture weighs 1.9 grains and should be inserted into the primer holder so that the colored side is visible. A small hole in the firing pin holder seats a steel ball which engages the shoulder of the firing pin and keeps it from contacting the primer during shipment and handling. A sleeve, flanged at the top, fits around the firing pin holder and keeps the steel ball in place. A compressed spring fits around this sleeve and is held in place by the flange. A thin brass cylinder similar to that in the lower portion of the fuze has its upper lugs bent over the shoulder of the flange on the firing pin holder sleeve and keeps the spring from forcing it outward. The brass cylinder is in turn held down by an arming sleeve fitting into the lower lugs which are bent outward and upward. A small pin fitting into a slot in the arming sleeve insures proper movement. The arming sleeve cannot move outward because it engages a shoulder in the third portion of the body, the cap.

The cap is threaded on the inside at the bottom and screws over the head. It retains a nail-shaped, plastic firing pin striker. The lower end of the striker fits into the firing pin holder just over the firing pin. The cap is closed at the top with a thin metal disc.







re 49 - CARTRIDGE, HE-T (SD, Mk. 11 or Mk. 11-Mod. 2), Mk. II, w/FUZE, P.D., Mk. 27 (Navy), 40-mm AA. Guns

FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

62. CARTRIDGE, HE-T (SD, MK, 11 OR MK, 11-MOD, 2), MK. 11, W/FUZE, P.D., MK. 27 (NAVY), 40-MM AA. GUNS (fig. 49), consists of the M25 brass or M25B1 alternative steel Cartridge Case with the M38A1 Primer and an FNH powder charge crimped rigidly to a Mk. II High-explosive Shell fitted with the Mk. 27 supersensitive Fuze. The Mk. II Shell consists of three principal parts-a hollow steel casing containing a high-explosive bursting charge of pressed TNT, the point-detonating fuze, and a shell-destroying (SD) tracer. The nose of the shell is conical, with a 7-degree 45-minute taper, and is cut and threaded internally to receive the fuze. The base is boattailed (conical) with an 8-degree 15-minute taper, and is threaded internally to accommodate the shell-destroying Tracer Assembly Mk. 11 or Mk. 11-Mod. 2, of Navy origin, which protrudes beyond the base of the shell for approximately 0.56 inch. The tracer consists of an igniting charge, a red tracer composition, and a relay igniting charge of black powder. The red tracer composition burns with a visible trace for 9 to 12 seconds, equivalent to a range of 4,300 to 5,200 yards. As the tracer burns out, the relay igniting charge is ignited, detonating the bursting charge of the shell unless prior detonation has been caused by functioning of the fuze. The Mk. 11 and Mk. 11-Mod. 2 Tracers are similar to the M3 Tracer except for details of the relay igniting assembly.

DATA

 Type of baseBoat-tailedDegree of taper8 deg 15 minMuzzle velocity2,870 ft per secMaximum range, horizontal 5,200 yd*Maximum range, vertical5,100 yd*

^{*-}Limited by shell-destroying tracer. Theoretical maximum: 10.850 yards, horizontal, and 7,625 yards, vertical.



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FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

59. CARTRIDGE, AP-T, M81A1, 40-MM AA. GUNS (fig. 48), is provided for the 40-mm guns for firing against armored targets. The projectile is a monobloc type, of solid steel. A tracer cavity in the base holds a red tracer composition. The nose of the body proper is shaped to a relatively blunt ogive. However, a long false ogive is provided, for better ballistics, by securing a light-weight windshield or false ogive to the shot body by a 360-degree crimp just forward of the bourrelet. The M81A1 Shot has no armor-piercing cap. The length of trace is 12 seconds.

DATA

Weight of complete round 4.57 lb
Length of complete round 17.62 in.
Length of projectile 6.19 in.
Length of cartridge case 12.24 in.
Width of rotating band 0.64 in.
Type of base Square
Radius of ogive





Figure 56 – CARTRIDGE, AP-T, M70, 57-mm Guns, M1 and 6 Pr. 7 Cwt. (British)

75. CARTRIDGE, AP-T, M70, 57-MM GUNS, M1 AND 6 PR. 7 CWT. (BRITISH) (fig. 56), like the armor-piercing-capped round, is intended for firing against armor-protected targets. Components assembled in the round are the same as for the M86, except for the projectile. The M70 Shot is a solid slug of hardened steel with a square base and a short ogival nose, and is inert except for a tracer held in a small cavity in the base. The tracer consists of three pellets of red tracer composition (73 grains) and one pellet of igniter charge, pressed into the cavity and sealed against moisture by a metal disk. Upon being ignited by the propelling charge, when the round is fired the composition burns for about 4.5 seconds, giving a visible trace for observation purposes over a range of about 2,600 yards. Since there is no armor-piercing cap, the projectile is not as well adapted for defeating face-hardened plate as the M86. However, it is at least equally as effective against homogeneous plate.

DATA

Weight of complete round	Muzzle velocity 2,950 ft per sec† Maximum range
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^{*-}Data for projectile with muzzle velocity of 2,950 feet per second. Rounds of older manufacture had a muzzle velocity of 2,800 feet per second.

CARTRIDGE, AP-T, M70.

Cartridge cases. The M23A2 Brass Case is "Standard"; M23A2B1 Steel Case is "Substitute Standard."

Primer. The M1B1A2, 100-grain percussion primer is standard for use in 57-mm ammunition (see Primer M1, and diagram in a later section).

Propelling charge. 2.25 pounds of FNH powder poured loosely into the cartridge case propels the projectile from the gun at a muzzle velocity of 2,800 feet per second.

Projectile. The M70 AP Projectile is a solid shot of hardened steel with a cavity machined into the base to receive a tracer. The ogive is continued to a point, and has a radius of 3.14 inches. A waved or knurled recess 0.79 inch wide is machined into the shot 1.01 inches above the base to receive a copper rotating band. A cannelure for receiving the crimps from the cartridge case is located 0.51 inch behind the rotating band.

The tracer charge consists of approximately 73 grains of red tracer composition in the form of 3 solid pellets and 20 grains of igniter charge in one pellet. The tracer charge is sealed into the tracer cavity with a clear celluloid cup cemented into place. The tracer burns for about 3 seconds. The projectile with tracer assembled weighs 6.37 pounds and is 6.81 inches long.

Identification. The complete round is 23.20 inches long and weighs about 12.64 pounds with the brass cartridge case. The size, length of cartridge case, stubby projectile, and black painting with white stencil identify the round as CARTRIDGE, AP-T, M70. On visual inspection the only difference between this round and the target practice round is the blue painting and white stenciling of the practice projectile, however, by examining the manufacturer's information just above the rotating band, it may be possible to distinguish between the two if the painting and stenciling is obliterated.

Cartridge, TP-T, M76. This round is used for practice firing. The only difference between it and the AP, M70 is that the projectile

t-Muzzle velocity in the British 6 Pr. Mk. III Gun is 2,830 feet per second; muzzle velocity of older rounds, having 2,800 feet per second velocity in U. S. guns, is 2,700 feet per second in the British 6 Pr. Mk. III Gun.



FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

73. CARTRIDGE, APC-T, M86, W/FUZE, B.D., M72, 57-MM GUNS, MI AND 6 PR. 7 CWT. (BRITISII) (fig. 55), is provided for use against armor-protected targets. The complete round consists of the standard (or alternative steel) cartridge case, primer and propelling charge, assembled to a loaded armor-piercing-capped projectile. Construction of the projectile is similar to that of corresponding armor-piercing-capped projectiles in other calibers. The body is of hardened steel, and has a square base and an ogival nose. A facehardened softer steel cap is sweated to the nose to increase the effectiveness against face-hardened plate. For better ballistics, a lightweight ogival ballistic cap or windshield is secured to the cap by crimping or by means of a threaded adapter. An M72 Base-detonating Fuze is fitted to the base to explode the small high-explosive charge of explosive D. The fuze has incorporated in it the M17 Detonator Assembly which detonates the explosive D and tetryl pellet bursting charge. The fuze functions with delay action and has a tracer in its base which operates independently of the fuze mechanism. The tracer burns for approximately 4.5 seconds after being ignited by the propelling charge, providing a visible trace for observation purposes over a range of about 3,000 yards.

DATA

Weight of complete round 13.88 lb	Muzzle velocity 2.700 ft per sec*
Length of complete round 26.72 in.	Maximum range
Length of projectile	Penetration (in. at 0-deg
(capped) 10.31 in.	obliquity of face-hardened
Length of cartridge case 17,40 in.	plate at 1,000 vd)
Width of rotating band 0.79 in.	Penetration (in, at 0-deg
Type of base	obliguity of homogeneous
Radius of ogive 7.21 cal.	plate at 1,000 yd) 3.6

*-Muzzle velocity in the British 6 Pr. Mk. III Gun is 2,580 feet per second.

74. CARTRIDGE, APC-T, M86, 57-MM GUNS, M1 AND 6 PR. 7 CWT. (BRITISH) (fig. 55), is assembled with an earlier type of M86 Projectile which has been superseded for manufacture by the loaded and fuzed projectile. In this projectile, the bursting charge cavity is left empty, hence there is no blast effect at the target. The base hole is closed by a steel plug which contains a tracer similar to that in the fuze of the standard projectile.

DATA

Weight of complete round 12.99 lb Length of complete round 26.72 in.	Width of rotating band
Length of projectile	Radius of ogive
Maximum range	13,555 yd

*---Muzzle velocity in the British 6 Pr. Mk. III Gun is 2,580 feet per second.



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Ammunition



FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

79. SHELL, H.E., M49A2, W/FUZE, P.D., M52, 60-MM MOR-TARS, MI AND M2, COMPLETE ROUND (fig. 57), is the only high-explosive round provided for the 60-mm mortars. A complete round consists of six components-the M49A2 High-explosive Shell, an M52 Fuze, a fin assembly, an M3 or M3A1 (4-increment) Propelling Charge, an M5A1 Ignition Cartridge, and an M32 Primer. All are issued and shipped assembled in a complete round which is ready for firing except for adjustment of the propelling charge. The shell body consists of a thin-walled cast or forged steel casing formed in a pear or tear-drop shape and threaded at both ends, at the narrow base end to hold the fin assembly and at the nose end to hold the M52 Fuze with its booster. The TNT shell filler is shaped at the forward end to provide a suitable well for the booster. The fin assembly consists of a 21/2-inch long steel cylinder to which is welded four double-bladed fins. The hollow shaft is threaded externally at the fore end to screw into the shell base, where it is staked in position. The rear is threaded internally to hold the M32 Primer. This primer, which consists of a threaded head containing the percussion element and a short housing holding the primer mixture, is screwed into the shaft after insertion of the ignition cartridge. The M5A1 Ignition Cartridge is a cartridge paper tube approximately 5/8 inch in diameter, closed at both ends by a chipboard disk, and holding 40 grains of propelling powder. This charge provides the propelling charge for the short ranges. For the longer ranges, the increments of the M3 or M3A1 (cellophane-wrapped), Propelling Charge are provided in addition to the ignition cartridge. As shipped, each increment is inserted in one of the four spaces within the fins and held in position there by the spring clip of the increment holder. Any or all of the increments may be removed as required.

-	With M52 or M5282 Fuze	With M5281 (Plastic) Fuze
Veight of complete round	2.96 lb	2.80 15
ength of complete round	9.54 in.	9.54 in.
Auzzle velocity	518 ft per sec*	535 ft per sec*
faximum range (at 45 deg)	1,984 yd*	2,017 yd*

*-For charge 4 (cartridge plus 4 increments). Corresponding data for other charges are:

	Muzzle Velo	city	Mazimum Ronge			
Charge 0 (Ignition Cartridge M5A1	w/M52 or M52B2	w/M5281	w/M52 or M5282	w/M5281		
only) Charge 1 (Cartridge and 1 increment) Charge 2 (Cartridge plus 2 increments) Charge 3 (Cartridge plus 3 increments)	189 292 377 449	195 301 389 463	332 784 1,204 1,394	373 816 1,244 1,630		

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FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

80. SHELL, ILLUMINATING, M83AI, W/FUZE, TIME (FIXED), M65, 60-MM MORTARS, M1 AND M2, COMPLETE ROUND (fig. 58), is intended for use in night missions requiring illumination for purposes of observation. The complete round consists of six components-the M83A1 Shell, an M65 Time Fuze, a fin assembly, an M3 or M3A1 (cellophane-wrapped) Propelling Charge, an M5A1 Ignition Cartridge, and an M32 Primer. These components are assembled into the complete round, before shipment, in the same manner as the M49A2 High-explosive Round. The fin assembly, primer, and ignition cartridge are the same, and function alike, in both types of round. The M83A1 Shell supersedes the M83 which was used with the M4 Propelling Charge the increments of which consisted of 28 grains of powder each, as compared with the M3 Increments which weigh 35 grains each. The M83A1 Shell is made up of four major parts: a body tube assembly, illuminant assembly, a parachute assembly, and a tail assembly. The body assembly is a thin-walled steel tubing to the front end of which is welded a steel adapter or collar threaded internally to seat the fuze. The base end is closed by the tail assembly. The tail assembly is a light-weight metal cone fitted at the front end with a coupling or collar which is inserted in the body tube and held in position there by four equally spaced shear pins. The base end of the cone is fitted with an adapter which holds the fins, ignition cartridge, and primer. The illuminant assembly consists of a quick match, a black powder priming or expelling charge, a first-fire composition, and the main charge of illuminant composition held in a boxboard casing. This casing is attached to the parachute by a suspension wire 18 inches long. In functioning, the fuze ignites the quick match (after approx 15 sec), the quick match in turn igniting the black powder charge. This charge expels the parachute and illuminant charge assemblies from the shell, at the same time igniting the illuminant charge. The illuminant composition burns for at least 25 seconds, with a minimum candlepower of 145,000 candles when the standard composition is used, and of 110,000 candles when the substitute composition is used. It drops at the rate of 10 feet per second.

DATA

Weight of complete round 3.77 lb Length of complete round.... 14.28 in. Length of projectile, w/fm.... 14.28 in. Maximum range (at 45 deg): Horizontal 1,075 yd* Height of burst 153 yd*

^{*-}For charge 4 (ignition cartridge plus 4 increments),

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FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

81. SHELL, PRACTICE, M50A2, W/FUZE, P.D., M52, 60-MM MORTARS, M1 and M2, COMPLETE ROUND (fig. 59), is a practice round provided for the 60-mm mortars by adapting service items for this purpose. Components of the M50A2 Practice Round are the same as are used in the M49A2 Service Round except for the high-explosive shell filler. The M50A2 Projectile has a filler of inert material (plaster of paris and stearic acid) and a black powder pellet (0.05 lb) loaded adjacent to the booster of the M52 Fuze. The M52 Fuze is a superquick fuze and shell is functioned before penetration occurs. The black powder pellet and booster charge provide a spotting charge for observation purposes. The shell is loaded to the same weight as the service round, thereby providing for the same ballistic values.

DATA

	With MS2 or M5282 Fuze	With M3281 (Plastic) Fure
Weight of complete round	2.96 lb	2.80 lb
Length of complete round	9.54 in.	9.54 in.
Muzzle velocity	518 ft per sec*	535 ft per sec*
Maximum range (at 45 deg)	1.984 yd*	2,017 yd*

- *--For charge 4 (cartridge plus 4 increments). Corresponding data for other charges are:

	Muzzle Vela	acity	Maximum Ronge				
Charge 0 (Ignition Cartridge M5A1	w/MS2 or M5282	w/M5281	w/M52 or M5282	w, M5281			
onty)	189	195	332	373			
Charge 1 (Cartridge and 1 increment)	292	301	784	816			
Charge 2 (Cartridge plus 2 increments)	377	389	1,204	1,244			
Charge 3 (Cartridge plus 3 increments)	449	463	1,594	1,630			

82. SHELL, PRACTICE, M50A1, W/FUZE, P.D., M52, 60-MM MORTARS, M1 AND M2, COMPLETE ROUND, is limited standard for practice purposes, having been superseded by the M50A2 Round. The shell is basically the same as the current standard but contains a somewhat smaller black powder pellet (0.04 lb). Other differences are in respect to the ignition cartridge and manner of assembling the

*** Propellent Charge to the fin. The fin assembly is adapted for M4 Cartridge which includes the primer. The propelling charge rements are held in position on the fin by inserting two corners he bundles in the slots in the blades. TM 9-1901 80

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Figure 59 – SHELL, Practice, M50A2, w/FUZE, P.D., M52, 60-mm Mortars, M1 and M2, Complete Round

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ARTILLERY AMMUNITION

CARTRIDGE, IGNITION, M4

OR

PRIMER, PERCUSSION, M32

AND CARTRIDGE, IGNITION, M5A1



FIN, 60-MM MORTAR SHELLS, M49A2. M50A2, AND M69



SHELL, TRAINING, M69, 60-MM MORTARS, M1 AND M2, W/O FINS, IGNITION CARTRIDGE AND PRIMER

A - COMPONENTS



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igure 60 — SHELL, Training, M69, 60-mm Mortars, M1 and M2

FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

83. SHELL, TRAINING, M69, 60-MM MORTARS, W/O FIN, IGNITION CARTRIDGE, AND PRIMER (fig. 60), is a training round provided for drill in loading and firing the mortar. The projectile differs from that in the practice ammunition in that it is completely inert and has no fuze. It consists of a solid cast-iron body of pear or tear-drop shape, drilled at the base end to hold a servicetype fin assembly. No propelling charge increments are provided for the round, but the M4 Ignition Cartridge, or if not available the combination of the M5A1 Ignition Cartridge and M32 Percussion Primer is issued for use in firing the projectile. Unlike the other ammunition for the mortar, the three components are issued and shipped separately, to facilitate replacement of damaged or worn out parts and the procurement of additional ignition cartridges. Ten training shells and accessories are packed in an equipment training kit for field use.

DATA

Weight of complete round..... 4.53 lb Weight of shell, w/o fin...... 4.07 Length of complete round.... 7.70 in.

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60-MM TRENCH MORTAR.

General. For missions between ranges of usefulness of hand grenade and 81-mm trench mortar, the Ordnance Department initiated the development of a light 42-mm trench mortar.

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Before a 42-mm trench mortar could be made, the Brandt Company furnished a 47-mm trench mortar which was suitable for infantry. The cavalry wanted something that had a greater maximum range than the 47-mm weapon. Consequently, a 60-mm trench mortar and ammunition for it was developed by the Brandt Company.

In 1938, the 60-mm trench mortar was adopted and the 47-mm trench mortar was rejected. The mobility of the weapon, due to its light weight, and the quantities of ammunition that can be carried, increased the fire power of the using arms in movement.

The general design of the 60-mm trench mortar shell is similar to the light shell for the 81-mm trench mortar. The method of firing is exactly the same. The color, marking, and stenciling are the same as for the 81-mm mortar ammunition of the same types. The class of ammunition used for the 60-mm mortar is once again semifixed. Four types of ammunition are at present provided for use in the 60-mm mortar: high-explosive shell, practice shell, training shell, and illuminating shell.

SHELL, H.E., M49A2. This is the present standard high-explosive shell for use in 60-mm trench mortar. It is used against light targets and personnel in the open.

Shell body. In shape, the body of this shell closely resembles the light shell for the 81-mm trench mortar; however, it is much smaller in size. Several methods of manufacturing the shell body are in practice at the present time, depending on the method best adapted to the individual manufacturer. The body may be of forged steel, cupped-rolled, plate-welded longitudinally, or a machined casting.

It is tear-dropped in shape, having a blunt nose and tapered tail. Near the nose end of the shell is a machined bourrelet which acts as a forward bearing surface and as a gas check. The nose is threaded to receive the fuze directly. The fuze used is the P.D. Fuze M52 which has a superquick action. Due to the light weight and blunt nose, very little penetration can be obtained. The shell is designed to produce fragments as the other light shells previously described. The tail end is closed and internally threaded to receive the stabilizer assembly. Earlier models of this shell had the stabilizer and

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hade from one piece with the fins attached. The shell filler is bund of flake TNT. The weight of the round completely asd is 2.94 pounds; the entire length of the shell with fuze atis $9\frac{1}{2}$ inches.

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The fin assembly. The fin assembly consists of a machined cartridge container closed at one end with a threaded protrusion to screw into the shell body. It is hollow, with the other end threaded to receive an ignition cartridge and a percussion primer. A series of holes in the cartridge container serves to allow for the escape of gas, and to conduct the flame from the ignition cartridge to the propellent increments. Attached to the cartridge container are eight stationary fins in which may be seated the increments, or as recently changed, the increments are placed between the fins and held there by an increment holder.

The ignition cartridge. The ignition cartridge is the M5A1. It consists of a cardboard container having approximately 40 grains of double base powder. It supersedes the M5, and differs from it in that the number of grains of powder has been reduced from 47 to 40 grains. A hollow celluloid tube three-fourths inch long was also introduced at ignition end of cartridge. The M5 Ignition Cartridge produced erratic flight. Short ranges made it necessary for all members of the crew to be protected. With the M5A1, muzzle velocities have been reduced, but the maximum range obtained with all propellent increments and cartridges have not been reduced.

Previous to the M5 Ignition Cartridge, the M4 had been used. The M4 was a cardboard container having 47 grains of double base powder with a primer located in a brass base. It fitted snugly into the cartridge container and was disadvantageous in that set-back would cause residue of the M4 Ignition Cartridge to remain in the weapon.

The percussion primer. The Percussion Primer M32 is of the same construction and shape as the M33 previously described. It differs in that it has a narrow body diameter.

The propellent increments. The Propellent Increments M3 are made up of thin square sheets of double base powder sewn together. Each increment weighs approximately 3.^c grains. In the center of each increment is a hole which serves to increase the burning surface, and allows the increment to be held by the Propellent Increment Holder M1, by fitting into the wire loop of the increment holder. The corners, the sides, or edges may be notched to adjust the increment to the desired weight. The increments are held in place by seating in the fins diagonally, or recently by use of the Propellent Increment Holder M1. The Propellent Increment Holder M1 consists of a wire band seated around the stabilizer assembly near the body of the shell. Two thin wires bent in a V-shape, their ends in a circular loop, extend from the band down between the fins. On these loops are placed the increments by means of the holes in their center.

The percussion primer, ignition cartridge, and four increments comprise the full propelling charge; a total of 180 grains of powder.
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Zones of fire and range. The shell has five zones of fire. The first me of fire consists of the ignition cartridge and percussion primer. one five consists of the ignition cartridge, percussion primer, and ur propellent increments.

Zone one has a range of approximately 100 yards.

Zone five has a range of approximately 1,935 yards.

Marking and packing. The shell body is painted olive drab with thow stencil. The shell is shipped as a complete assembled round. the round is packed per individual fiber container, six individual per containers per large outer fiber container, three large outer coniners (18 rounds) per bundle. One bundle per chocolate-stained poden crate for overseas shipment.

SHELL, Practice, M50A2. SHELL, practice, M50A2, is similar to HELL, H.E., M49A2. The shell body, components used, and packing e identical to the shell previously described. It differs in that its der consists of 0.29 pound of inert material and 0.05 pound of a noke producing pellet of black powder to act as a spotting charge. he body is painted blue with white stencil to indicate a practice shell.

SHELL, Training, M69. This shell is designed to give the mortar ew training in loading the weapon, and practice in firing under inditions which will not permit firing in more than the first zone. Shell body. The body of the shell is cast iron. It is similar in shape the 60-mm trench mortar shell and the M68 Training Shell for 1-mm mortar previously described. It is tear-dropped with a blunt ose and tapered tail. It has a bourrelet on the body near the nose act as a forward bearing surface and gas check. At the tail end is recess which is threaded to receive a stabilizer assembly. The nose and is closed and rounded with no provisions made to receive a fuze. s weight varies depending on its weight zone. Seven weight zones e possible with a minimum of 3.83 pounds for weight zone one and maximum of 4.07 pounds for weight zone seven without fin assemly and ignition cartridge.

The fin assembly and propelling charge. The fin assembly is of the same construction and shape as previously described. It receives the Ignition Cartridge M4. Several ignition cartridges are provided it heach round so that the shell can be fired more than one time. There are no propellent increments used, for the shell is designed to be fired in the first zone only.



g and packing. The shell is painted black with white stene shell body will be found a number of white squares (one with a prick punch mark in the center of each to indicate weight.

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Figure 122a — SHELL, Illuminating, M83 — Parachute Assembly

Information as to the exact packing of the shell is not available at the present time. However, the complete round comes in separate units consisting of the shell body, ignition cartridge, and fin assembly.

SHELL, Illuminating, 60-mm, M83. The SHELL, illuminating, M83, was designed to provide a night light of relatively high candle power that could be fired from a standard infantry weapon. The SHELL, illuminating, M83, adequately fills the need, having 110,000 candle power, minimum, and burning for 25 seconds while drifting earthward on its parachute. The shell consists of the following components: fuze, body assembly, parachute assembly, illuminant assembly, fin assembly, propellant, and ignition cartridge.

Shell body. The body is constructed of a machined steel tube. It is cylindrical in shape with a tapered tail assembly and a nose assembly having its taper produced by the contour of the fuze. At the nose is a steel adapter spot welded and internally threaded so as to receive the Time Fuze M65. At the base of the cylindrical body is a coupling which serves to join the body to the tail assembly. The body is held to the coupling by means of four shear pins and Pettman cement. The tail assembly is held to the coupling by means of spot welding and Pettman cement,

The tail assembly consists of a cone to which is attached a fin adapter. The fin adapter is internally threaded to receive the fin assembly. The total weight of the shell completely assembled is approximately 3.8 pounds. Entire length of the fuzed shell is approximately 14.2 inches.

Parachute assembly. The parachute assembled in the illuminating shell is of sufficient size to permit the illuminant to burn 25 seconds while falling to the ground from a height of approximately 400 feet. The parachute assembly consists of a parachute canopy, tying cord, eight eyelets, eight shroud lines, reinforcing tape, and tying thread. 1 9-1904



The parachute canopy is cut from Fortisian cloth, in the form of octagon, having a width of 36 inches and pinked on the periphery. e canopy has a porosity of 225 cubic feet air per minute per are foot.

At each corner of the octagonal canopy, an eyelet is crimped into cloth, the latter being first reinforced by sewing on a strip of cottape with nylon thread.

One end of each of the shroud lines is tied to an eyelet. The cords each assembly are the same length, usually 31 inches. The lines tied together with tying cord, at a point 27 inches distant from eyelets.

The shrouds are run through the flare assembly loop and tied firmly ik upon themselves with tying thread. The canopy is then folded ording to specified directions and inserted in the parachute case. After the illuminant assembly is inserted in the body tube, the pension wire (to which the shroud lines are attached) is coiled the bottom of the parachute case. The two hemicylindrical steel rachute spacers are fitted into the rear end of the body tube. They snugly against the inner wall of the tube and rest on the steel c of the flare assembly. The two spacers form the cylindrical paraite case into which the chute is placed. The chute and the suspenn wire are separated in the case by an onionskin paper separator. Two chipboard parachute discs are forced into place against the ills of the spacers. A coupling disc is placed on the runs of the rachute spacers and the tail assembly is pressed into position, and before the spacer of the tail assembly is pressed into position, and before the spacer of the spacer.

Illuminant assembly. The illuminant assembly is the functional rt, the "heart" of the shell, and is carefully designed to insure its ectiveness. The assembly fits into the shell body, and its front face in contact with the fuze. Its rear face is attached to the parachute sembly by means of a suspension wire. The illuminant assembly nsists of a case, first fire charge, illuminant charge, priming charge, spension wire, steel disc, quick match disc, top disc, plywood plug, ick match, top seal, spacer, quick match spacer, tying string, reinrcing band, and binding tape.

The quick match is in contact with the expelling charge of the ze. The quick match leads through four alined holes in the steel ick match disc, hair felt quick match spacer, and top disc. The ds of the quick match, which is in two lengths, are exposed to a fuze: the middles, after passing through the four holes pass thru

g charge.

ning charge consists of a 0.055-ounce pellet of Army black at is located just above and in contact with the first fire e first fire charge is 0.74-ounce pellet consisting of a mixpercent black powder and 75 percent illuminant com-









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ition. Since the illuminant is difficult to ignite, the straight black order priming charge and the partially black powder first fire rge are set up in series to insure ignition of the illuminant. The minant charge is just below the first fire charge and in contact h it.

The illuminant charge, which is pressed in two equal increments, ghs approximately 8.8 ounces, and has the following compositions:

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ium nitr	ate .			 						•													 •				. !	52	.1
ium nit	rate			 																	•		 			•		10	.4
minum				 														•		•			 		•	•	.:	26	.0
ium oxa	late			 					•		•	 •	•					•		•	•		 	•	•	٠	•	. 5	.2
íu r				 					•	•				,	•		• •	•	•	•	•		 • •	•	•	•	•	.4	.1
tor oil .				 	 -					•	•	 •			•	•		 •		•	•	• •			•	٠	•	. 1	.1
seed oil				 							•	 					•	 •			•	• •			•	•	•	. 1	.1

• illuminant is ignited by the first fire composition and burns with ear white light of 110,000 candle power, minimum, for 25 seconds umum time. The illuminant (when the shell is in firing position) ts on a $\frac{1}{8}$ -inch thick top seal of fire clay. Just below the fire clay $\frac{1}{8}$ -inch thick plug of plywood, with a hole through its center.

All the components of the illuminant assembly mentioned prevsly with the exception of the quick match disc and a quick match cer are within the illuminant case. The case is constructed of et box board $\frac{3}{6}$ inch thick in the shape of a tube which will fit sly into the shell body. The quick match passes through four holes the top disc. The disc serves as a cover for the case, after being ed and nailed into place. The fire clay top seal, illuminant, primcharge, and first fire charge are all shaped into discs to fit into the e. The quick match in passing through holes in the top disc and quick match disc and spacer, anchors the latter two parts in re.

he suspension wire passes through the hole in the plywood plug, h the knotted end fitting flush in the pocket. The wire passes bugh alined holes in the hair felt spacer and steel disc. The steel forms the rest for the parachute spacer in the parachute case. Suspension wire from the surface of this disc to the end of the b is approximately $11\frac{1}{2}$ inches long. The loop is formed by pping the wire about itself and then binding with tape. The comte illuminant assembly slips freely into the shell case coming to against the fuze.

disc closing one end of the case is further sealed by the a strip of crinoline that is pasted over the sides of the disc.

felt spacers serve to protect the illuminant charge against shocks of set-back and expulsion from the body tube. They

also assist in preventing the escape of expelling charge gases around the illuminant case.

Fin assembly. The fin assembly is the same as that assembled with the SHELL, H.E., M49A2.

Ignition cartridge. The ignition cartridge is the M5A1 previously described.

Primer. The primer is the M32 Percussion Primer previously described.

Propellent increments. The Propellent Increment M4 assembled with the illuminating shell are essentially the same as the Propellent Increment M3. The M4 Increments are composed of flake propellent powder, and each increment weighs 28 grains, which is less than the weight of the M3. Four increments are assembled with the illuminating shell, corners of the increments being wedged into the fin blade slots to hold them in place. An increment holder may be used with the illuminating shell to hold the propellent increments in place.

The percussion primer, ignition cartridge, and four increments comprise the full propelling charge; a total of 152 grains of powder.

Zone of fire and range. The shell is normally fired with the full complement of propellent increments. This fact and the fixed burning time of the fuze cause the shell to shear and the flare to commence to burn at a point at 800 yards range and 400 feet elevation. The parachute canopy controls the speed of descent so that the flare burns completely during its descent and no effect is lost by the flare burning on the ground.

Action. The cotter pin is removed from the fuze and the round is dropped down the bore of the mortar. The round is propelled from the mortar in the same manner as the H.E. shell, the propellent gases being confined by the bourrelet. Set-back causes the fuze to function in the manner described in pages 314 to 318. Ignition of the expelling charge in the fuze has two functions. First, to ignite the quick match; and second, to expel the flare assembly. The latter is accomplished by the expelling charge gases acting forcibly against the steel quick match disc. The shock caused by these gases is transmitted to the shear pins that hold the body tube to the tail assembling coupling. These pins are sheared and the flare assembly is expelled from the body tube. The tail assembly, the fuze, and the body tube fall free.

As the flare assembly (designation of the parachute assembly and the illuminant assembly together) is forced out of the case, the two parachute spacers fall free as do the coupling and parachute discs. The parachute spacers guide the ejection of the chute from the core, and when they fall free the parachute unfolds and checks the descent of the illuminant case. The flame from the expelling charge ignites the quick match, which in turn ignites the primer charge. As the quick

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Complete Round Designation	Filler	Fuze	Propellent Increment	Percussion Primer	Ignition Cartridge	Packing	Status
SHELL, H.E., M49A2	TNT	P.D. M52	140 grains (4 incr—M3)	M32	M5A1	Fuzed	S ås M
SHELL, practice, M50A2	Inert Mat'l B.P. Pellet	P.D. M52	140 grains (4 incr—M3)	M32	M5A1	Fused	S & M
SHELL, training, M69					M4		S&M
SHELL, illuminating, M83	Flare Composition	Time M65.	112 grains (4 incr-M4)	M32	M5A1.	Fuzed	S&M

COMPLETE ROUND CHART FOR 60-MM TRENCH MORTAR WEAPONS

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Chapter 7

Trench Mortar Ammunition

HISTORY.

Experience in World War I emphasized the need of more extensive and efficient artillery for the support of the land army. The infantry needed a weapon which would support it when it outdistanced its artillery forces. The artillery was merely able to give initial support. This resulted in terrific massacres of the infantry with the loss of what had been gained. Some attempts were made to increase the offensive power of the infantry by attaching field artillery batteries and guns. However, flat trajectory weapons did not supply the answer to the problem. The enemy dug in and the shells passed over the trenches or hills where they were located. In addition, a 550-yard minimum range of the artillery weapon and a 50-yard maximum range of the hand grenade produced a definite void.

The earliest form of the trench mortar weapon was a crude affair. It consisted of an arrangement of pipes and supports. Crude missiles were hurled at the enemy by propelling charges. At the time of entry into World War I, the United States did not number the trench mortar as one of its standard weapons. Britain, however, had adopted a standard 3-inch trench mortar weapon known as the Stokes Mortar. This weapon had a high angle of fire, short range, and short barrel. It was muzzle loaded and had a smooth bore. It fired a projectile weighing 11.7 pounds a maximum distance of 750 yards. This weapon at the time was the answer to a great need. It gave a decent range



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and much better accuracy than the crude affair of pipes. The weapon served its purpose in that it supplied the needed support for the infantry that the artillery fire lacked, and it served to blast out machine gun nests, barbed wire entanglements and other obstructions. It also proved its efficiency by being a light weapon, firing a fairly heavy shell, being simple to manufacture and easy to carry.

Brief Comparison of Weapons. The classification of gun, howitzer, and mortar no longer conveys the precise meaning it once did. As formerly defined, a gun was a long, high-velocity weapon fired at elevations not exceeding 20 degrees; a howitzer of equal caliber was a shorter, lighter weapon, firing at higher elevations than the gun with less velocity, and at targets that could not be reached by direct force; the mortar was still a shorter weapon designed to fire at elevations up to 65 degrees and to give plunging fire on the targets. The distinction between gun and howitzer is less marked. The modern gun carriage permits firing at high elevations. For example, the 16inch seacoast gun can be fired at elevations up to 65 degrees, and antiaircraft guns can fire up to 85 degrees. On the other hand, the increased ranges demanded of howitzers have necessitated longer, heavier weapons to produce the velocities required. The factors of weight and mobility, however, still justify provision of distinctive gun, howitzer, and mortar types of mobile artillery. Considering equal calibers, the gun will have the highest velocity, longest range, and least mobility.

Purpose of the Trench Mortar Weapon.

- 1. To tear down barbed wire entanglements.
- 2. To blast troops out of trenches.
- 3. To destroy obstructions.
- 4. To reach dead space behind hills.

3-INCH TRENCH MORTAR AMMUNITION.

General. The 3-inch trench mortar shell consists of a cylindrical steel casing, having a steel base and steel head screwed on at each end of the casing. The steel head serves to close the nose of the shell, and also seats the booster jacket and fuze. The steel base serves to close the tail end, and seats the cartridge container. Depending on the type of shell, the filler will either be TNT, WP, or inert filler with black powder to act as a spotting charge.

The booster jacket which is seated in the steel head consists of a 1-piece drawn steel cup with a supporting flange formed on one end. It serves to seat the booster charge consisting of mercury fulminate, tetryl, and TNT; or, in case of the practice shell, black powder. The fuze which screws into the head is known as the Mk. VI, all-ways percussion fuze. "All-ways," because this fuze is designed to



Figure 108 — 81-mm Mortar

function regardless of what position the shell may land, on nose, tail, or side. "Percussion," because this fuze has no detonating element in it and functions on impact action. This fuze must be used on 3inch trench mortar shell because the shell is unstable in flight and may land in any position.

The cartridge container consists of a short, steel tube threaded at one end so as to screw on the steel base. The interior of the cartridge container is hollow, and into this cartridge container fits an

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ignition cartridge. Sixteen holes are drilled through the walls of the cartridge container to permit the escape of gases after the ignition cartridge is fired, and also to allow the ignition of powder rings which are placed around the outside of the cartridge container.

The propelling charge consists of two main units:

1. The ignition cartridge.

2. Powder rings.

The ignition cartridge. This is known as the Mk. I green cartridge and is similar in appearance to a blank shotgun shell. It consists of a cardboard cylinder, which has a brass base containing a primer. The rest of the ignition cartridge consists of 120 grains of loose ballistite sporting powder. The ignition cartridge fits into the cartridge container so that the primer fits flush with the end of the container, and when the shell is dropped into the weapon the primer strikes the firing pin of the trench mortar weapon. The flame produced from the primer ignites the ballistite powder which propels the shell a distance of 150 yards.

Powder rings. The powder rings consist of ring-shaped, silk cloth bags, each loaded with 100 grains of ballistite or 110 grains of MR No. 31 powder. The rings fit around the outside of the cartridge container and are ignited by the flame from the ignition cartridge. The shell may be fired by using the ignition cartridge alone, which permits a range of 150 yards, or may be fired by using the cartridge, and one, two, or three powder rings, depending upon the range desired. This permits four zones of fire, giving ranges of approximately 150 yards to approximately 750 yards. Zone 1 firing is conducted by using the cartridge only; zone 2, by using the cartridge and one powder ring; zone 3, by using the cartridge and two powder rings; and zone 4, by using the cartridge and three powder rings. The number of powder rings to be used is determined by the range desired. More than three powder rings are never used, as excessive pressure would be developed which might burst the mortar. Zone 4 is within the working pressure of the mortar, but use of this charge is recommended only in case of necessity.

Types of Ammunition: H.E. shell, chemical shell, and practice shell.

Class of Ammunition. Semifixed. Although all the ammunition is designed to be loaded into the weapon in one operation, provisions are made for adjusting the propelling charge at the point of fire.

Packing. The 3-inch trench mortar shell is sent to the field as unassembled, complete rounds. Three unassembled complete rounds are packed per wooden box, with one extra propelling charge (a total of 12 powder rings and 4 ignition cartridges).



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81-MM TRENCH MORTAR.

General. The first attempt to obtain more efficient trench mortar ammunition was with the development of the 75-mm smooth bore mortar in which the old 75-mm French type shell was modified by tapering the shell from the bourrelet back to the base, and fitting an aluminum fin in the base of the shell. The round was propelled by means of an ignition cartridge inserted in a short cartridge case, and with propelling increments inserted between the blades of the fin. The stability of the round was not satisfactory, and the development was abandoned. A streamlined projectile with fin assembly was then designed for the 3-inch trench mortar with poor results. Several attempts were made with shell of different contours, but proved unsatisfactory because proper stability was not obtained.

After World War I, there was an early trend away from the low powered, muzzle-loading Stokes mortar to breech and rifled mortars which were mounted on wheels. The muzzle velocity, the range, and the weight increased, but in so doing, the effectiveness of the trench mortar was decreased in that it lost its simplicity. The weapon became too cumbersome and unwieldly.

Meanwhile the Edgar Brandt Company worked on the 81-mm trench mortar which turned out to be simple in design, utilizing ammunition which was stable in flight and had a long range. In 1931 and 1932, tests conducted by the War Department proved that this mortar and ammunition were highly satisfactory. In 1932, manufacturing rights were purchased from Brandt Company. The weapon itself was a refinement of the 3-inch trench mortar, consisting mainly of a cross leveling mechanism, a better sight, and a heavier baseplate. For simplicity and effectiveness, this mortar proved a remarkable weapon.

Advantages of 81-mm over 3-inch Trench Mortar Ammunition.

1. The 81-mm ammunition is more stable in flight.

2. The 81-mm ammunition has a longer range.

3. The 81-mm ammunition comes to the firing line assembled, ready for use.

4. The 81-mm ammunition utilizes a point detonating fuze.

Types of 81-mm Ammunition: High-explosive shell, chemical shell, practice shell, and training shell.

Class of Ammunition. 81-mm ammunition is classified as semifixed; although the ammunition is designed to be loaded into the weapon in one operation, provisions are made for adjusting the propelling charge at the point of fire.

Description. The ammunition itself is streamline in design. It has a stabilizer assembly in the rear of the shell to produce stability in flight and to seat the propelling charge. The stability adds to the

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range, velocity, and accuracy of the projectile, and causes the projectile to strike point first, allowing the use of a point detonating fuze. It comes assembled with fuze, propelling charge, and ignition cartridge in place. The only operation necessary before loading the shell into the weapon is to remove the round from its fiber container and then pull the cotter pin or safety wire from the fuze and drop shell into the weapon.

SHELL, H.E., M43. The shell was originally adapted as the light shell for the 81-mm mortar. It is designed for use against light targets such as machine gun nests, barbed wire entanglements and personnel in the open.

Shell body. The body of this shell is constructed of forged steel. It is tear-dropped in shape; that is, blunt nose and tapered tail. It has a bourrelet machined near the nose of the shell consisting of several annular grooves which serves to act as a forward bearing surface and a gas check. The action of the propelling charge gases expanding in the grooves and contracting to pass the raised portions tends to slow the gases and prevent their passing the bourrelet. The nose is machined and threaded to receive an adapter. The adapter is threaded and acts as a bushing for a bakelite fuze well cup and the fuze. The bakelite fuze well cup is fitted to the adapter before it is assembled to the shell body and prevents the entrance of foreign material into the fuze cavity prior to the assembly of the fuze to the round. The fuze used is the Point-detonating Fuze M45. This fuze has a selective element and can be set for either superquick or delay action. (For details, see pages 295 to 298.) To the rear of the bourrelet is a curved taper reducing the base of the shell to approximately $1\frac{1}{2}$ inches. The base is closed and machined so as to receive a stabilizer assembly. The shell filler is 1.22 pounds of TNT. The total weight of completely assembled round is 7.05 pounds. Entire length of the fuzed shell is 13¹/₄ inches.

Fin assembly. The fin assembly consists of a machined cartridge container to which are attached six stationary fins. One end is closed and threaded so as to be screwed on to the body of the shell. The other end is machined and hollow inside so as to receive the ignition cartridge. Several holes leading from the interior to the exterior periphery of the cartridge container serve to conduct the flames from the ignition cartridge to the propellent increments which are seated in the fins.

The ignition cartridge. The Ignition Cartridge M3, red, is similar in appearance to a shotgun shell; the head is of brass and contains the percussion primer; the body is of cardboard, red in color, and contains 120 grains of finely granulate double base powder. It is designed to fit into the hollow portion of the stabilizer assembly.

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The propellent increments. The propellent increments are in the form of small half-round celluloid increments. These increments are often referred to as "chocolate drops" due to their similar shape. Each of these increments contains 100 grains of finely granulated double base powder.

A total of one ignition cartridge and a set of increments comprise the full propelling charge (720 grains of ballistite). The increments are held in the stabilizer assembly by small flanges on the fins and may be removed to adjust the propelling charge.

Zones of fire and range. This shell has seven zones of fire. The first zone of fire consists of the ignition cartridge. Zone seven consists of the ignition cartridge and six increments.

Zone one has a range of approximately 100 yards.

Zone seven has a range of approximately 3,300 yards.

Marking and packing. The shell body is painted olive drab lustreless with yellow stencil to indicate H.E. filler. The stenciling includes the following information: caliber of weapon, kind of filler, model number of shell, and ammunition lot number.

For storage, shipment, and issue this shell is packed as a complete assembled round with the fuze and propelling charge in place.

It is packed one round per individual fiber container, six containers per bundle. Weight of a full bundle is 59 pounds. It may also be packed one per individual fiber container, eight containers per wooden box. Weight of a full box is 91 pounds.

Individual fiber containers are sealed with adhesive tape. The color of the tape and stenciling indicate the type of the shell inside.

Metal plates are placed on the ends of each packing bundle. One plate gives the number of rounds contained in the bundle, the nomenclature of the rounds, the lot number, and initials of the loading plant. The plate at the opposite end gives the proper shipping name as listed in SNL R-4, the total weight of the loaded bundle, and cubic displacement.

Packing bundles are held together by a rod passing through the center of the bundle with a wing nut at the end. After assembling, each bundle is sealed with a wire and lead seal. If this seal has not been broken, the bundle may be considered as the original package, positively identified by the metal plates at the ends of the bundle and by the marking of the fiber container.

SHELL, H.E., M43A1. This shell was designed to replace SHELL, H.E., M43. It is standard for issue and manufacture (S & M), whereas the SHELL, H.E., M43, is standard for issue (S).

Shell body. The body, filler, adapter, and bakelite fuze well cup are exactly the same as in the M43. The fuze used is the Point-detonating Fuze M52, which has a superquick action. Due to the light

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weight and blunt nose of this shell, very little penetration can be obtained. This shell, as the M43, is designed, therefore, to produce fragments as its primary function against personnel in the open and against barbed wire entanglements. Fragments to be effective must be above ground. The use of a superquick fuze to burst the shell above ground is therefore mandatory. For details in the functioning of the M52 P.D. Fuze, see page 298 to 300.

Fin assembly. The fin assembly is similar to that previously described. It differs in that the flanges on the fins for holding the propellent increments are omitted, as they are not necessary with the newer type increments. Later models, without any change in designation, have the hollow end threaded in the inside so as to receive the new percussion primer.

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PRIMER, PERCUSSION, M33 AND CARTRIDGE, IGNITION, M6



FIN, 81 - MM MORTAR SHELLS, M43A1 AND M68

CALIBER AND MODEL OF SHELL WEIGHT ZONE MARKING

SHELL, TRAINING, M68, 81-MM MORTAR, W/O FIN, IGNITION CARTRIDGE, AND PRIMER

A - COMPONENTS



Figure 110c — SHELL, Training, M68, 81-mm Mortar 282

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Ignition cartridge. The Ignition Cartridge M6, red, consists of a cardboard container having approximately 120 grains of double base powder. It supersedes the M3 red and differs from it in that the percussion primer is no longer part of the ignition cartridge but a separate component.

The percussion primer. The Percussion Primer M33 is a relatively new component. The percussion primer is contained in an aluminum head and is threaded so as to screw into the end of the cartridge container after the ignition cartridge has been inserted. The advantage of this type of percussion primer and ignition cartridge is that the whole assembly will leave the mortar with the shell whereas the older type ignition cartridge would, due to the force of setback, at times leave its brass head in the trench mortar weapon, fouling the firing pin and possibly causing a misfire in subsequent rounds.

Propellent increments. The Propellent Increment M1 consists of square strips of double base powder sewn together to form increments. Passing thru these increments will be found holes to increase the burning surface. These sheets are thin and flexible and will not crumple or break as did the old celluloid containers of double base powder used with the M43 Shell. Each increment has 117 grains of double base powder. Occasionally one corner edge of an increment will be cut away (notched) so as to bring the charge to the desired weight and specification. The increments are held in the stabilizer assembly by being placed diagonally in the holes of the fins.

The percussion primer, ignition cartridge and six increments make up the full propelling charge of a total of 822 grains of powder. The increments may be removed to adjust the propelling charge.

Zone of fire and range. This shell has the same number of zones of fire and approximately the same range as described for SHELL, H.E., M43.

Marking and packing. The shell body is painted olive drab with yellow stencil. It is packed one per individual fiber container, six fiber containers per bundle, one bundle per wooden chocolate-stained crate for overseas shipment. The rounds are completely assembled, ready to fire.

SHELL, Practice, M43A1. SHELL, practice, M43A1, is similar to SHELL, H.E., M43A1. The shell body, components used, and packing are identical to the shell previously described. It differs in that the filler consists of 0.16 pound of black powder to act as a spotting charge, and 1.06 pounds of inert filler such as wax, talcum, or rosin which will not crack up in handling. The body is painted blue with white stencil to indicate a practice shell. TM-9-1904

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SHELL, Practice, M44. This shell is used for practice firing in the 81-mm trench mortar weapon.

The body of the shell is made of cast iron and contains an inert filler. A small amount of black powder (0.20 pound) is placed below the fuze to give a spotting effect when the fuze functions. The body shape, size, and weight are identical to the M43 Shell. It has no adapter, however. The fuze screws directly into the nose of the shell.

The shell body is painted blue with white stencil and is packed in the same manner as SHELL, H.E. M43.

SHELL, H.E., M45. This shell is one of the early types adopted for use in the 81-mm mortar. At the present time, this shell is standard for issue but not standard for manufacture. The principal use of this shell is against dugouts, heavy barricades, and underground structures where a mining action is most effective.

Shell body. The body of this shell is constructed of forged steel. It is cylindrical in shape, having a tapered nose and tail. It has a bourrelet machined on the body near the tail which serves as a rear bearing surface and a gas check. There is no bourrelet at the front of the shell. The nose is threaded to receive an adapter.

The adapter is threaded to receive the fuze well cup and fuze. The use of an adapter bushing allows the shell to be loaded with less difficulty and also permits the use of the same fuze for the 81-mm and 60-mm shells. The fuze used is the P.D. M45 having a selective setting for either superquick or delay action. For details as to functioning of the M45 Fuze see pages 295 to 298. The base of the shell is closed and threaded so as to receive a stabilizer assembly. The shell filler is 4.48 pounds of TNT. The total weight of the completely assembled round is 15.10 pounds. The entire length of the shell is $23\frac{1}{2}$ inches.

Fin assembly. The fin assembly consists of a machined cartridge container to which are attached collapsible fins. One end of the cartridge container is closed and threaded to be screwed on the body of the shell. The other end is machined and hollow inside to receive the ignition cartridge. Holes in the cartridge container act to lead the flame from the ignition cartridge to the propellent increments.

The propellent increments are held in place by the collapsible fins. The fins are always being forced into their open position by compressed springs. The fins are kept in position before firing by a small copper wire tied around them. The blast of the propelling charge shears the copper wire and permits the fins to open to a greater diameter than the shell body after it has cleared the muzzle of the weapon. This was designed to increase the stability of the shell by increasing the fin surface.

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This type of fin assembly has not proved successful for several reasons:

During storage the springs which are always compressed will lose their tension or become set.

The fins, due to their size, are delicate and the blast of the propelling charge explosion will in many cases cause distortion.

Both of the above reasons tend to result in unstable flight and the purpose for which this stabilizer assembly was designed is defeated.

The ignition cartridge. The ignition cartridge is the M3 red previiously described.

The propellent increments. The propellant is in the form of halfround celluloid increments previously described.

A total of one ignition cartridge and four increments comprise the full propelling charge of 520 grains of double base powder.

The propelling charge may be adjusted to vary the range.

Zones of fire and range. This shell has five zones of fire. The first zone of fire consists of the ignition cartridge itself. Zone five consists of ignition cartridge and four increments.

Zone one has a range of approximately 100 yards.

Zone five has a range of approximately 1,275 yards.

Marking and packing. The shell body is painted olive drab lustreless with yellow stencil to indicate H.E. filler.

The shell is packed as complete and assembled rounds for storage, shipment, and issue in the following manner:

One per individual fiber container, three rounds per bundle, or one per individual fiber container, four rounds per wooden box.

SHELL, H.E., M56. This shell was developed to replace the H.E. Shell M45 and is standard for issue and manufacture (S & M). It is used against dugouts, barricades, and underground structures where a mining action is desired. This shell is a much more effective one than the M45 due to the fact that it contains approximately 40 percent explosive filler as compared to 30 percent explosive filler of the M45. The greater the percentage of explosive filler, without sacrificing the penetrating ability of the shell body, the more effective is the shell when used for mining effect.

The shell body. The shell body is constructed of forged steel. It is long and cylindrical in shape with a tapered nose and tail. It has a bourrelet machined on the body near the base of the shell which acts as a rear bearing surface and a gas check. There are three raised portions around the shell near the nose to act as a forward bearing surface. The nose is machined and threaded to receive an adapter. The adapter is threaded to receive a fuze well cup and fuze. The fuze used is the M53 P.D. which has a delay in action on impact. For mining effect, penetration of the target produces the most effective



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results. The use of a delay action fuze, therefore, to allow penetration is mandatory. For details of functioning of the M53 P.D. Fuze, see page 300 to 303. The base of the shell is closed, machined, and threaded to receive the stabilizer assembly. The shell filler consists of 4.31 pounds TNT. The weight of the completely assembled round is 10.77 pounds. The entire length of the shell with fuze assembled is 22.89 inches.

The fin assembly. The fin assembly consists of a long stem and cartridge container made of aluminum alloy. Having stationary fins formed at the open end of the cartridge container, the stem is closed and threaded so as to be screwed to the shell body. The cartridge container which is part of the same unit is hollow, machined, and threaded at the open end to receive the percussion primer. There are holes in the cartridge container near the fins so as to conduct the flames from the ignition cartridge to the propellent increments which fit around the cartridge container.

The ignition cartridge. The earlier shell of this model used the M3 Ignition Cartridge red. The later shell of the same model had the fin assembly threaded so as to receive the M6 Ignition Cartridge and percussion primer.

The percussion primer. The Percussion Primer M34 is of the same construction and shape as the M33 previously described except that it has a greater diameter.

The propellent increments. The Propellent Increment M2 is made up of thin square sheets of double base powder sewn together. A hole of the same diameter as the stem of the fin assembly is cut in the center of the increment and a slit runs to the outer edge so that the increments can be easily attached to the stem or removed to adjust the propelling charge. In the latest manufacture, however, the increments are held in place by a star shaped spring wire clip known as a propellent holder. Each increment has 205 grains of double base powder.

The percussion primer, ignition cartridge, and four increments comprise the field propelling charge; a total of 940 grains of powder.

Zone of fire and range. The shell has five zones of fire. The first zone of fire consists of the ignition cartridge and percussion primer; zone five consists of the ignition cartridge, percussion primer, and four propellent increments.

Zone one has a range of approximately 300 yards.

Zone five has a range of approximately 2,655 yards.

Marking and packing. The shell body is painted olive drab with yellow stencil. It is packed one per fiber container, three fiber containers per bundle, and one bundle per wooden crate for overseas shipment. The rounds are completely assembled ready for fire.



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SHELL, Chemical, M57. This shell is used for the placing of smoke screens and gas clouds with a secondary incendiary effect when WP is used as its chemical filler.

Shell body. In general construction, this shell body has the same outer characteristics as the High-explosive Shell M56. The nose of the shell is threaded to receive the type of adapter peculiar to chemical shell. The adapter is threaded internally to receive the Point-detonating Fuze M52 which has a superquick action. All chemical shell to produce efficient dispersion of filler must burst above ground. A superquick action fuze is therefore used to produce such action. For details, in function of the M52 P.D., see pages 298 to 300.

The chemical filler is loaded into the shell body, and then the burster casing is pressed in place. The head of the Burster Casing M2 is wider than the body of the burster casing and has a slight taper; when pressed into place in the adapter sleeve it forms a gastight seal and acts as a seat for the burster charge. A recess is machined in the base of the shell body internally so as to receive the end of the casing, preventing it from becoming loose due to the shock and jars incident to shipment. During the loading of the chemical filler and the pressing of the burster casing in place, there is no explosive charge present in the casing.

The Burster Charge M1 consists of tetryl pellets or tetrytol in a thin aluminum or cardboard cylinder. It is placed in the burster casing prior to the assembly of the fuze to the shell. This construction burster as compared to the old booster found in the 3-inch smoke shell is much more efficient. The explosive charge runs through the entire length of the shell and splits the shell from nose to tail upon function of the fuze, allowing for the dispersion of all the chemical filler in the shell. The old booster charge found in 3-inch smoke shell split the shell near the nose where the booster charge was located, and allowed a good deal of the chemical filler to remain in the base of the shell.

The fin assembly, ignition cartridge, propellent increments, and percussion primer are identical to those used with the High-explosive Shell M56.

Three chemical fillers are loaded at the present time; WP smoke, FS smoke, and H gas. The weight of the completely assembled round varies with the filler used. The weights of the various rounds are:

		Weight of Completely
Filler	Weight of Filler (Ib)	Assembled Round (1b)
WP	4.04	11.50
FS	4.59	12.00
$^{\circ}$ H	3.15	10.45
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The total length of the shell with the fuze assembled is 22.89 inches.

Marking and packing. Shell loaded with WP and FS are painted a blue-gray base color with yellow stencil and one yellow band to indicate a nonpersistant screening smoke filler. Shell loaded with H are painted a blue-gray base color with green stencil and two green bands indicate a persistant toxic filler.

Packing is the same as for M56 High-explosive Shell.

SHELL, Training, M68. The shell is designed to give the mortar crew training in loading the weapons and practice in firing under conditions which will not permit firing in more than the first zone.

Shell body. The body of the shell is cast iron. It is similar in shape to the light H.E. 81-mm shell which is tear-drop with a blunt nose and tapered tail. It has a bourrelet on the body near the nose to act as a forward bearing surface and gas check. At the tail end is a recess which is threaded to receive a stabilizer assembly. The nose end is closed and rounded with no provisions made to receive a fuze. Its weight varies depending on its weight zone. Nine weight zones are used with a minimum of 9.50 pounds for weight zone one, and a maximum of 10.10 pounds for weight zone nine, weighed without fin assembly and ignition cartridge.

The fin assembly and propelling charge. The fin assembly is of the same construction and shape as previously described. It receives the Ignition Cartridge M3. Several ignition cartridges are provided with each round so that the shell can be fired more than one time. There are no propellent increments used because the shell is designed to be fired in the first zone only. The maximum range is 350 yards.

Marking and packing. The shell is painted black with white stencil. On the shell body may be found a number of white squares (one to nine) with a prick punch mark in the center of each to indicate the zone weight.

Information as to the packing of the shell is not available at the present time. However the complete round comes in separate units consisting of shell body, ignition cartridge, and fin assembly.

TRENCH MORTAR FUZES.

General. The fuzes used with the 81-mm and the 60-mm mortar ammunition are, except for the 60-mm illuminating shell, of the pointdetonating type. The stability of the shell in flight allows the use of this type of fuze. The M45 Fuze, first used on the M43, M44 and M45 Shells, is a point-detonating fuze having a selective feature which allows the fuze to be set for either superquick or delay action as desired. The superquick action is used for effect against light



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targets above the ground where no penetration is necessary, and a fragmentation effect is desired such as against personnel and barbed wire entanglements. The delay action is used against heavy targets and underground structures where penetration is desired to produce the most effective mining and concussion results.

Recently it was decided that each shell could be classified as for use against light targets or as for use against heavy targets. Thus, a single action fuze could be definitely assigned to each shell according to its tactical use. All of the light shell (7 pounds or less) were classified for use against light targets, as very little penetration could be obtained due to their light weight and blunt construction. It is also to be noted that the percentage of explosive filler as compared to the percentage of metal components (approx. 17 percent) was designed to destroy the light shell so as to produce efficient fragments which can be effective only if distributed above ground. The M52 P.D. Superquick Fuze was also assigned to the Chemical Shell M57, as it is necessary to function the chemical shell above the ground to obtain the proper effects and dispersion to its chemical filler. All the heavy shell of the H.E. type were classified for use against heavy targets and for use where a mining effect was necessary. It is also to be noted here that the percentage of explosive filler as compared to the percentage of metal components (approx. 40 percent) was designed to produce an efficient mining or concussion result with heavy shell which would be most effective if allowed to penetrate its target and then explode. The M53 P.D. Delay Action Fuze was assigned to these shell.

The M45 P.D. Selective Fuze was declared limited standard (S). It was a waste of one element to use a selective fuze on trench mortar shell, because it was known before the shell ever reached the firing point what action fuze was desired. The M52 P.D. superquick and the M53 P.D. delay are standard for issue and manufacture (S & M). It is interesting to note that the subdivision of a selective fuze into two separate fuzes is in definite opposition to the trend in artillery fuze design where the tendency is to combine two fuzes into one selective or combination fuze. This is true because in artillery fuzes the action desired varies with the condition at the field of battle.

Rounds used with these fuzes may be considered boresafe. The detonating elements are positively separated from the booster until the projectile has left the bore of the mortar. The fuzes are assembled to their respective shell and stacked in place. They are, therefore, being stored, shipped, and issued as a permanent part of the complete round. Each fuze is stamped with its model number, manufacturer's initials, and lot number for positive identification. The M45 can be obtained in a practice type. It has a black powder charge in place of a tetryl booster charge, and is designated as a point practice

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fuze. The head is painted blue, and "Fuze, Point, M45, Practice" is stamped on the body.

Point-detonating Fuze M45.

Description. The M45 Point-detonating Fuze is a selective, superquick, and delay action fuze, used to effect functioning of SHELL, H.E. M45, fired from the 81-mm trench mortar. This shell and fuze are now limited standard. The superquick setting is used when it is desired to obtain fragmentation of the shell above the ground, whereas the delay setting is used for underground action. The fuze weighs approximately 0.52 pounds.

The fuze housing is made of aluminum. The head of the fuze fits into the body so as to be able to turn on the body housing. The head houses a comparatively short, but wide, striker which is flush with the nose. The striker has two firing pins and is held in place by a shear wire. Underneath the firing pins is a superquick element and a delay element. One element is directly in line with a flash hole to the body explosive charges, and the other element is in line with a dead flash hole depending on the setting. Located in the head are setting pins and setting pin springs which when in proper position for either delay or superquick setting will engage recesses in the body. On the external surface of the head are stamped "S.Q.," or "D," to indicate the setting. The body houses the slider, slider lock, safety pin, and set-back pin, with their respective springs. In the center and at the base of the body is an inverted brass cup known as a lead cup. It is held in place by crimping, and contains a tetryl lead pellet. The base of the body is internally threaded to receive a booster cup, which in turn houses a tetryl booster pellet. On the external surface of the body is a marked line and an identification pin which indicates the setting.

Setting. When set for superquick action the head is set so that the "S.Q." stamped thereon is in line with the line on the body. Identification pins are provided for setting at night. These pins are so located that for superquick setting the heads of the pins are directly in line and for delay setting, they are 180 degrees removed. Pressure applied on the setting pin by the setting pin springs forces them to engage in recesses in the body at the exact position of "S.Q.," and "D" so as to restrain the head in proper position.

Safety features. The M45 Fuze is boresafe. This is accomplished by assembling the detonator into a slider which in the armed position holds the detonator out of alinement with the explosive train. Arming of the slider in the bore of the mortar is prevented by a safety pin, the head of which bears against the bore, thereby retaining the slider in the safe position. To prevent arming of the set-back pin, which holds the safety pin in position, a cotter pin is utilized, preventing

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the set-back pin from moving rearward against its spring during handling.

Function when set for superquick action. The cotter pin is removed, freeing the set-back pin. The shell is dropped down the bore of the weapon. The force of set-back resulting from ignition of the propelling charge causes the set-back pin to move down against the set-back pin spring, freeing the safety pin. The safety pin, due to the action of the safety pin spring, is forced out of the fuze until its head comes in contact with the bore of the mortar. After emerging from the mortar the safety pin is completely ejected by its spring from the fuze. The slider is now free, and due to the action of the slider spring is forced into the armed position, thereby bringing its detonator in direct alinement with the explosive train. The slider also serves to close the hole left by the safety pin, so as to prevent the entrance of mud or dirt into the slider cavity which might interfere with the fuze functioning. The slider is locked in the armed position by a slider lock which is forced up into a recess in the slider by a slider lock spring.

Upon impact with the target the striker is forced inward, breaking the shear wire and carrying both firing pins into their respective elements. The superquick firing pin ignites a primer which in turn ignites a lead azide relay charge. The lead azide relay detonates, and sends a wave to the detonator charge of lead azide and tetryl in the slider. The wave from the detonator functions the lead charge of tetryl. The wave from the lead charge of tetryl detonates the booster of tetryl which amplifies the wave and sends it to the shell filler. Simultaneously with the above action, the delay firing pin functions its primer. If the superquick action functions properly, the delay action will proceed no farther. If the superquick fails to function, the primer will ignite a black powder pellet which will burn for 0.1 second. The flame from the black powder delay pellet in turn will set off a relay of lead azide which will defonate and carry a wave into a blank flash hole where it will be stopped and will proceed no farther.

Function on delay. The head must be turned so that the "D" stamped thereon is in line with the mark line on the body. By means of setting the head as described, the delay element is brought into alinement with the flash hole and the superquick primer is 180 degrees removed. The fuze function is exactly the same until action on impact.

Upon impact the striker is forced inward, breaking the shear wire, carrying both firing pins into their respective elements. The superquick firing pin ignites its primer which in turn sets off a relay of lead azide. The wave produced passes into a blank flash hole and proceeds no farther. Simultaneously with the above action, the delay firing pin functions its primer. The flash from the primer ignites a

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black powder delay pellet which burns for 0.1 second. The delay pellet ignites a relay of lead azide which detonates, and in turn sets off the detonator charge of lead azide and tetryl located in the slider. The wave from the detonator functions the lead charge of tetryl which detonates, and functions the booster of tetryl. The booster charge amplifies the wave and sends it to the shell filler.

Point-detonating Fuze M52.

Description. The M52 Fuze is a superquick fuze used to effect the functioning of rounds fired from the 81-mm and 60-mm mortars. It is normally used with light shell when fragmentation above the ground is desired. This fuze will fit any of the present "M" series of shell; however, it is only assembled in the following shell at present:

M43A1 H.E. for 81-mm T.M. M43A1 Practice for 81-mm T.M. M44 Practice for 81-mm T.M. M57 Chemical for 81-mm T.M. M49A2 H.E. for 60-mm T.M. M50A2 Practice for 60-mm T.M.

The weight of the fuze is 0.45 pound.

The fuze housing is made of aluminum. The head of the fuze screws into the body. The head houses a long protruding striker and a compressed restraining spring. The striker and restraining spring are held in place by a keeper. The body houses the slider, slider lock, safety pin, and set-back pin, with their respective springs. In the center and at the base of the body is an inverted cup known as a lead cup. It is held in place by crimping and contains a tetryl lead pellet. The base of the body is internally threaded to receive a booster cup which in turn houses a tetryl booster pellet. The slider carries a detonator and a blank flash hole to receive and protect the firing pin from shocks due to handling and set-back action.

Safety features. The safety features correspond to the M45. The M52 Fuze is boresafe. This is accomplished by the assembling of the detonator into a slider which in the unarmed position holds the detonator out of alinement with the firing pin and the tetryl lead charge. Arming of the slider within the bore of the weapon is prevented by the safety pin, the head of which bears against the bore and retains the slider in the unarmed position. To prevent arming of the set-back pin, which holds the safety pin in position, a cotter pin (safety wire in later manufacture) is utilized.

Function. This fuze is armed in the same manner as the M45. The cotter pin or safety wire is removed to free the set-back pin. The shell is dropped down the bore of the weapon. The force of set-back resulting from ignition of the propelling charge causes the set-back pin to move rearward against its spring. This frees the safety pin.

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The safety pin, due to the action of its spring, is forced out of the

The safety pin, due to the action of its spring, is forced out of the fuze until its head comes in contact with the bore of the mortar. After emerging from the mortar, the safety pin is completely ejected by its spring from the fuze. The slider is now free, and due to the action of the slider spring, is forced into the armed position, thereby bringing the detonator in direct alinement with the explosive train. The slider also serves to close the hole left by the safety pin, so as to prevent the entrance of mud or dirt into the slider cavity which might interfere with the fuze functioning. The slider is locked in the

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armed position by a slider lock which is forced into a recess in the slider by a slider lock spring.

Upon impact with the target, the striker is forced inward against its spring bringing the firing pin into the detonator charge of priming mixture, lead azide, and tetryl. The wave produced functions the lead charge of tetryl which in turn detonates the booster of tetryl. The booster charge amplifies the wave and sends it to the shell filler.

Point-detonating Fuze M52B1. This fuze differs from the M52 in that the body and head housing are made of bakelite instead of aluminum as the M52. In all other respects, it is identical to the M52 Fuze.

Point-detonating Fuze M52B2. This fuze differs from the M52 in that the body housing is made of bakelite, but the head housing is made of aluminum alloy. In all other respects, it is identical to the M52 Fuze.

Point-detonating Fuze M53.

Description. The M53 Fuze is a delay fuze used to effect the functioning of rounds fired from the 81-mm trench mortar. It is normally used with heavy shell where penetration is desired. This fuze will fit any of the "M" series of shell; however, it is only authorized to be assembled in the H.E. Shell M56 for 81-mm mortars. The weight of the fuze is 0.45 pound.

The fuze housing is made of aluminum. The head of the fuze screws into the fuze body. The head houses a comparatively short striker which is flush with the nose of the fuze. The striker is held in place by a shear wire. The head is internally threaded at the base to receive a delay assembly. The delay assembly houses a primer, delay pellet of black powder and a relay of lead azide. The body houses the slider, slider lock, safety pin, and set-back pin, with their respective springs. In the center and at the base of the body is an inverted brass cup known as a lead cup. It is held in place by crimping and contains a tetryl lead pellet. The base of the body is internally threaded to receive a booster cup which in turn houses a tetryl booster pellet.

Safety features. The safety features correspond to the M45 and M52 P.D. Fuzes previously described. The M53 is boresafe. This is accomplished by the assembling of the detonator into a slider which in the unarmed position holds the detonator out of alinement with the relay charge of lead azide and the lead charge of tetryl. Arming of the slider within the bore of the weapon is prevented by the safety pin, the head of which bears against the bore, thereby retaining the slider in the unarmed position. A set-back pin is used to hold the safety pin in position until set-back action occurs. To prevent arming of the set-back pin, a cotter pin (safety wire in later manufacture)

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Complete Round Designation	Filler	Fuze	Propellent Increment	Percussion Primer	Ignition Cartridge	Packing	Status
SHELL, H.E., M43	TNT	P.D. M45 or M52	400 grains (4 incr)	•	M3	Fuzed	S
SHELL, H.E., M43A1	TNT	P.D. M52	700 grains (6 incr—M1)	M33	M6	Fuzed	S & M
SHELL, practice, M43A1	Inert Mat'l B.P. Pellet	P.D. M52	700 grains (6 incr—M1)	M33	M6	Fuzed	S & M
SHELL, practice, M44	Inert Mat'l B.P. Pellet	P.D. M52	700 grains (6 incr—M1)	M33	M6	Fuzed	S & M
SHELL, H.E., M45	TNT	P.D. M45 or M53	400 grains (4 incr)		M3	Fuzed	S
SHELL, H.E., M56	TNT	P.D. M53	820 grains (4 incr—M2)	M34	M6	Fuzed	S & M
SHELL, chemical, M57	WP, FS, H	P.D. M52	820 grains (4 incr-M2)	M34 .	M6	Fuzed	S & M
SHELL, training, M68					M3		8 & M

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COMPLETE ROUND CHART FOR 81-MM TRENCH MORTAR WEAPONS

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SMALL ARMS AND TRENCH WARFARE

is utilized, preventing the set-back pin from moving rearward against its spring during handling.

Function. This fuze is armed in the same manner as the M45 and M52 P.D. Fuzes previously described. The cotter pin or safety wire is removed, freeing the set-back pin. The shell is dropped down the bore of the weapon. The force of set-back resulting from ignition of the propelling charge causes the set-back pin to move rearward against its spring, freeing the safety pin. The safety pin, due to the action of its spring, is forced out of the fuze until its head comes in contact with the bore of the mortar. After emerging from the mortar, the safety pin is completely ejected by its spring from the fuze. The slider is now free, and due to the action of the slider spring is forced into the armed position, thereby bringing the detonator in direct alinement with the explosive train. The slider also serves to close the hole left by the safety pin so as to prevent the entrance of mud or dirt into the slider cavity which might interfere with the fuze function. The slider is locked in the armed position by a slider lock which is forced up into a recess in the slider by a spring.

Upon impact with the target, the striker is forced inward against its shear wire, breaking it and bringing the firing pin of the striker into a primer. The flame from the primer ignites a black powder delay pellet which burns for 0.1 second. The pellet in turn ignites a relay of lead azide which detonates and in so doing sends a wave to the detonator of lead azide and tetryl. The detonator in turn functions the lead charge of tetryl which detonates the booster of tetryl. The booster charge amplifies the wave and sends it to the shell filler of TNT.

General Information. 81-mm ammunition can be used in 3-inch trench mortar weapons by making the following modifications:

1. The firing pin in the 3-inch trench mortar weapon must be lengthened. This modification will be found in the 3-inch Trench Mortar Mk. IA2. Therefore, the 81-mm mortar ammunition may be used only in the 3-inch Mk. IA2, and never in the 3-inch Trench Mortar Mk. I or Mk. IA1.

2. Maximum number of increments must be changed in the following manner:

Outer zone propelling charge must be reduced from six to four increments, for the M43A1 and M44 Shells.

Outer zone propelling charge must be reduced from four to three increments, for the M56 and M57 Shells.

The full charge of four increments may be used with the M45 shell. The 3-inch trench mortar shell can be fired in an 81-mm weapon without any modifications being made.
SHELL, Semifixed, H.E., M1.

General. The H.E. Shell M1 is issued to the using arms as a fuzed complete round, weighing 42.07 pounds.

Projectile. The M1 Projectile is of forged steel construction, streamlined in shape with a boat-tail base, and is adapted for a fuze that continues the contour. It has a steel base plate and a 0.81-inch rotating band of gilding metal. Provision is made for a 4.8-pound H.E. filler.

Components. A complete round of M1 H.E. Ammunition consists of a loaded and fuzed (M48 or M54 Fuze) projectile loosely attached to the M14 Cartridge Case with its 3-pound bag of propelling charge (7 zones) of FNH powder and an M1B1A2 Primer. If fired in the M3 Airborne Weapon, the reduced propelling charge will consist of a base and four increments.

205. SHELL, SEMIFIXED, II.E., MI, W/FUZE, P.D., M48A2, SQ & 0.15-SEC. DELAY, 105-MM HOW., M2, M2A1, AND M4 (fig. 113), consists of the M14 or M14B1 Cartridge Case fitted with the standard primer and an FNH propelling charge (seven increments), assembled with free fit to the fuzed M1 Projectile. The M1 Projectile is similar to other standard high-explosive shell of modern design. The body is a relatively thin-walled steel shell with boat-tailed base and a nose formed to a long ogive and threaded to hold a point fuze. The fuze contour continues the long sweep of the shell nose, maintaining the streamlined effect throughout the assembly. The bursting charge is TNT—or the alternative 50-50 amatol—formed at the front end to provide a well for the booster. When

FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES

50-50 amatol is loaded in the cavity, a booster surround consisting of a small amount of TNT is used. BOOSTER, M20A1, is a standard manufacturing component of the M1 Shell, being inserted after



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Figure 113 - SHELL, Semifixed, H.E., M1, w/FUZE, P.D., M48A2, SQ & 0.15-sec. Delay, 105-mm How., M2, M2A1, and M4

the shell is loaded and secured permanently in position by a set screw. As fuzed with FUZE, P.D., M48A2 (or M48A1 in the case of rounds of earlier manufacture), giving selective superquick or delay (0.15sec) setting, the shell is adapted for firing for fragmentation and blast effect with surface burst, or after penetration or on ricochet.

DATA		
Boat-tailed r		
ocit ran :g)		

*--When fired in the M2, M2A1, and M4 Howitzers. For muzzle velocity and range data when this round is fired in the M3 Howitzer, see paragraph 202 (. 1-With full charge (charge 7); corresponding data for other charges are:

Charge 1	Mussie Velocity	
	650 ft per ser	3.825 vd (at 48*38')
Charge 2	710 It per sec	4.475 vd (at 43*38')
Charge 3	780 ft per sec	5,280 vd (at 43*24')
Charge 4	875 It per sec	6.430 vd (nt 43*24')
Charge 5	1,020 ft per sec	8,295 yd (at 43*14')
Charge 6	1,235 ft per sec	10.150 vd (at 43*17')

206. SHELL, SEMIFIXED, H.E., M1, W/FUZE, P.D., M48, 105-MM HOW., M2, M2A1, AND M4, is the same as the round with M48A1 or M48A2 Fuze described in paragraph 205, except that FUZE, P.D., M48 has an 0.05-second delay element incorporated in its delay action train.

207. SHELL, SEMIFIXED, H.E., M1, W/FUZE, TSQ, M54, 105-MM HOW., M2 AND M2A1, differs from those described in paragraph 205 only with respect to the fuze. FUZE. TSQ, M54, provides alternative setting for superquick action or over any time up to 25 seconds after firing the round. The superquick action is always operative, providing for detonation of the shell bursting charge should prior action not be caused by the time train. This fuze adapts the shell for time fire or high-burst ranging.

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Figure 188 --- SHELL, H.E., 105-mm, M1 474

SHELL, Fixed, H.E., M38.

General. The M38 Round is at this time standard for issue only. This is due to the fact that it uses the older M2 Mechanical Time Fuze and an adapter rather than the M43 Fuze series. The M2 Fuze requires a nose opening of 2.2 inches, and has a booster embodied in its make-up.

Projectile. The M38 Projectile is streamlined in shape and is of forged steel construction. It is adapted to take a fuze that continues this streamline effect. The rotating band on the shell is 1.42 inches wide. A base plate of steel is found welded on the base. A cavity large enough to hold 4 pounds of TNT as a bursting charge is also provided.

Components. A complete round of H.E. M38 consists of a loaded and fuzed (M.T. M2 Fuze) projectile firmly attached to the M6 Cartridge Case with its propellant of NH or FNH powder, a distance wad, an igniter, and an M28A2 Percussion Primer.

Guns. The 105-mm AA Gun M3 on the Mount M1, fires this round of ammunition.

SHELL, Fixed, H.E., M38A1.

General. This high-explosive round is the same in every respect as the H.E. Round M38 discussed above, with one exception: The nose of the Projectile M38A1 is modified to receive an M43-series Mechanical Time Fuze in conjunction with the M20 Booster, while the M38 used the M2 M.T. Fuze.

The M38A1 Round may be found with an ammanol filler.

SHELL, Fixed, Practice, M38 and M38A1.

General. These two practice rounds differ from the high-explosive rounds in regard to filler only. The filler consists of 3.09 pounds of an inert filler made of lead oxide, paraffin, and barium carbonate accompanied by a black powder charge. This black powder charge is 8 ounces in the M38A1 Round, while it is only 5 ounces in the M38 Pound The comparate of the second s

Round. The components are the same as those in the high-explosive rounds.





shell is loaded. FUZE, time, mechanical, M43 (all modifications), adapts the round for antiaircraft fire; it provides time setting up to 30 seconds but has no impact element, thereby minimizing danger to friendly personnel and materiel on ground impact in the event of time train failure.

DATA		
Weight of complete round 63.73 lb	Degree of taper	
Length of complete round 45.31 in.	Radius of ogive	
Length of fuzed projectile 18.00 in.	Muzzle velocity 2,800 ft per sec	
Length of cartridge case 30.37 in.	Maximum range (at 45 deg): .	
Width of rotating band 1.42 in.	Horizontal range	
Type of base Boat-tailed	Vertical height 14,000 yd*	

*-Actual maximum range as limited by time setting of fuse is: horizontal, 13,000 yards; vertical, 12,000 yards.

228. SHELL, FIXED, H. E., M38, FLASHLESS, W/FUZE, TIME, MECHANICAL, M2, 105-MM GUN, M3, is essentially the same as the M38A1 Round with M43 Fuze. The chief difference is in the shell loading which does not require a provision for the booster in the M38 Shell since the Mechanical Time Fuze M2 has the booster as an integral part. The round is limited standard for the M3 Gun, for the same purposes as the standard M38A1, and will be issued only to the extent of stocks on hand.

229. SHELL, FIXED, PRACTICE, M38A1, W/FUZE, TIME, MECHANICAL, M43 (ALL MODIFICATIONS), 105-MM GUN, M3 is provided for the 105-mm gun by adapting the service round for the purpose. Service components are used with the exception of the shell loading. For the practice ammunition, a small charge of black powder (0.80 lb) is loaded in the bursting charge cavity adjacent to the booster well cup. The remainder of the cavity is filled with an inert material (plaster of paris and stearic acid). The black powder charge is used in conjunction with the M20A1 Booster to provide a spotting charge for observation purposes when firing in target practice. Ballistic data are the same as that given for the service round in paragraph 227.

230. SHELL, FIXED, PRACTICE, M38, W/FUZE, TIME, MECHANICAL, M2, 105-MM GUN, M3, is an adaptation of the M38 Service Round for practice purposes. The loading is essentially the same as that for the practice M38A1 Round described in paragraph 229 except that the booster is an integral part of the M2 Fuze whereas in the M38A1, the booster is a manufacturing component of the shell. The round is limited standard, having been superseded for manufacture by the M38A1.



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Figure 119 — SHELL, Fixed, H.E., M38A1, w/FUZE, Time, Mechanical, M43 (All Modifications), 105-mm Gun, M3

227. SHELL, FIXED, H. E., M38A1, W/FUZE, TIME, MECHAN-ICAL, M43 (ALL MODIFICATIONS), 105-MM GUN, M3 (fig. 119), is intended for fragmentation and blast effect against aircraft targets. Components consist of: the M6 Cartridge Case; the M28 type primer; a loosely loaded propelling charge held in position by a distance wad and igniter assembly; and a fuzed M38A1 Projectile. The M38A1 Shell is similar to other modern high-explosive shell, the body being a thin-walled forged-steel casing with tapered (boat-tailed) base and a long ogival nose. Standard bursting charge is TNT but 50-50 amatol also may be used, as an alternative. Both charges are shaped at the front end to provide a booster well; when 50-50 amatol is loaded in the shell a booster surround of TNT is used. BOOSTER, M20A1, is a standard manufacturing component of the shell, being inserted and locked permanently in position by a set screw after the

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SHELL, Semifixed. H.E., A.T., M67.

General. The H.E., AT Shell M67 is the exact counterpart of the 75-mm Shell M66. It is identical to the M66 in all respects except size and resembles other 105-mm howitzer ammunition in length and weight. This round of ammunition is designed for use against either face-hardened or homogeneous armor plate.

Projectile. The M67 Shell body is made of a steel forging and the base is fitted with a Base-detonating Fuze M62. The body is fitted with the same width and type of rotating band as other projectiles for these weapons. For details, note SHELL, H.E., A.T., M66, in the chapter dealing with 75-mm howitzer ammunition.

Components. A complete round of M67 H.E., A.T. Ammunition consists of a loaded and fuzed projectile assembled loosely to an M14 Cartridge Case with its propelling charge of approximately 3 pounds in one bag, and an M1B1A2 Primer. Originally, the round was designed as a fixed round, with a loose propelling charge of smokeless powder in an M14, Type II, Cartridge Case. The change back to semifixed class is to facilitate packing and shipping in accordance with existing standards. This round is adapted for firing from the M3 Airborne Howitzer.



RA PD 80786

Figure 116 - SHELL, Semifixed, H.E., A.T., M67, w/FUZE, B.D., M62 or M62A1, 105-mm How., M2, M2A1, and M4

213. SHELL, SEMIFIXED, H.E., A.T., M67, W/FUZE, B.D., M62, OR M62A1, 105-MM HOW., M2, M2A1, AND M4 (fig. 116), is similar in all respects except size to the H.E., A.T. round for the 75-mm howitzers. Like that round, it provides an effective ammunition for the howitzers against tanks. The effect of the projectile is produced by the force of detonation of the high-explosive filler rather than by striking velocity. The construction of the shell differs materially from standard armor-piercing types. The shell body is a relatively thin-walled casing containing a shaped high-explosive filler and closed off at the forward end by a ballistic cap in the form of a thin steel cone. The ballistic cap is attached to an ogive and union assembly which provides sufficient "stand-off" from the target after the ballistic cap crushes on impact with the target. The base is boat-tailed and fitted with a base-detonating fuze which functions with nondelay action. A standard cartridge case and the M28A2 300-grain Primer are used with the projectile. However, the propelling charge consists of 1.60 pounds of flashless powder (little more

than half the full charge used with semifixed rounds) in a cloth bag, and is not intended to be adjustable, the cartridge case being a loose fit on the projectile only for shipping and storage purposes.

, DAT	Α
Weight of complete round 36.85 lb	Type of base Boat-tailed
Length of complete round 31.05 in.	Degree of taper
Length of fuzed projectile 19.43 in.	Degree of nose taper 21 deg 30 min
Length of cartridge case	Muzzle velocity 1,250 ft per sec
Width of rotating band	Maximum range
Penetration (at any rang	c) 4.0 in.



FIXED AND SEMIFIXED ROUNDS AND SEPARATE-LOADING PROJECTILES



RA PD 80812

Figure 135 – SHELL, H.E., M101, Unfuzed, 155-mm Guns, M1917-17A1-18MI, M1, and M1A1 (Early Type Grommet Fastening Shown)

DATA

Length of projectile*	26.88 in.
Width of rotating band	2.00 in.
Type of base	Boat-tailed
Degree of taper	8.5 deg
Radius of ogive	10.75 cal.
Muzzle velocity:	
Maximum charge, M	1 and
MIA1 Guns	2.800 ft per sec

Maximum charge, M1917-

*---With eyebolt-lifting plug.



Figure 136 - SHELL, H.E., Mk. IIIA1, Unfuzed, 155-mm Guns, M1917-17A1-18MI

265. SHELL, H.E., MK. IIIA1, UNFUZED, 155-MM GUNS, M1917-17A1-18MI (fig. 136), being of earlier design than projectiles for 155-mm Guns M1 and M1A1, is distinguished by two narrow rotating bands. It is a modification of the earlier Mk. III Projectile, the nose being adapted to the new type fuzes. This modification of ogive and use of a standard contour fuze improve the ballistic characteristics.

Muzzle velocity, super-
charge 2,410*; 2,800 ft per sec†*
Maximum range, supercharge:
(35 deg 22 min) 19.100 vdt
(35 deg) 22,450 ydtt

*--With eyebolt-lifting plug. †--In M1917-17A1-18MI Guns. ††--In M1 and M1A1 Guns.

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264. SHELL, II.E., M101, UNFUZED, 155-MM GUNS, M1917-17A1-18MI, M1, AND M1A1 (fig. 135), was developed from the Mk. IIIA1 Shell described in paragraph 265, differing chiefly in that it has a single wide rotating band, and the angle of taper of the boat-tailed base is 0.5 degree greater. The rear of the rotating band is located approximately 3.48 inches forward of the base. The shell is adapted for either the P.D. M51 Fuze and modifications, or the M67 Mechanical Time Fuze and modifications.

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SHELL, H.E., M101. This is the new high-explosive round for use in either old or new 155-mm guns. The complete round consists of the following:

Projectile. The projectile fuzed with either the Selective Fuze M51 - with Booster M21, or M51A1 with Booster M21A1; or FUZE, time, mechanical, M67, with Booster M21A1.

Propelling charge. The propelling charge for M1917-17A1-18MI Guns or M1 and M1A1 Guns, depending on the weapon the round is to be fired in.

Primer. Mk. II or Mk. IIA 21-grain Percussion Primer.



RA PD 80800

Figure 127 - SHELL, H.E., M102, Unfuzed, 155-mm How., M1917-17A1-18 (Early Type Grommet Fastening Shown)

251. SHELL, H. E., M102, UNFUZED, 155-MM HOW., M1917A1-17A2-18 (fig. 127), is similar to the M107 Shell described in paragraph 247, differing chiefly in that it has the narrower rotating band. See paragraph 244 f for interchangeability.

DATA

Maximum range (at 44-deg 15-min) 12,775 yd

+-With eyebolt-lifting plug.

SHELL, H.E., M102. This is the new shell manufactured to receive new fuzes and boosters. The complete round, as fired, consists of the following:

Projectile. The projectile with P.D. M51 or M55 Fuze with M21 Booster or M51A1 or M55A1 with M21A1 Booster.

Propelling charges.

CHARGE, propelling, for 155-mm Howitzers M1917-17A1-18 (7 zones, adjustable).

CHARGE, propelling, M1A1 (green bag) (5 zones adjustable). CHARGE, propelling, M2 (white bag) (zones 6 and 7 adjustable). Primer. Mk. II, Mk. IIA, or Mk. IIA1, 21-grain Percussion Primer. 247. SHELL, H.E., M107, UNFUZED, 155-MM HOW, M1 (fig. 124), is similar to other standard high-explosive shell of modern design. The body is a relatively thin-walled steel shell with a nose formed to a long ogive and threaded to hold a point fuze. The burst-

ing charge is TNT or amatol, formed at the front end to provide a well for the booster. When amatol is loaded in the cavity, a booster surround consisting of 0.2 pound of cast TNT is used. The projectile has a single rotating band located about 3.5 inches in front of the base. A steel base plate welded to the base end of the projectile prevents gas from the propelling charge from reaching the bursting charge of the projectile through possible flaws in the base.



RA PD 80797

Figure 124 - SHELL, H.E., M107, Unfuzed, 155-mm How., M1 (Early Type Grommet Fastening Shown)

DATA

Length of projectile* 26.82 in.	Radius of ogive (conical
Width of rotating band 1.02 in.	end) 10.75 cal.
Type of base Boat-tailed	Muzzle velocity (M4 or
Degree of taper 8.5 deg	M4A1 Charge) 1,850 ft per sec
Maximum range, (at 45-deg	17-min) 16,355 yd

*-With eyebolt-lifting plug.

SHELL, H.E., M107. The M107 is a new type projectile designed for high-explosive work with the M1 Howitzer. The make-up of the complete round, as fired, is as follows:

Projectile. The projectile with P.D. M51 Fuze with M21 Booster, M51A1 Fuze with M21A1 Booster.

Propelling charges. Propelling Charges M3 (green bag) (5 zones of fire, adjustable) and M4 (white bag) (zones 6 and 7 adjustable). Primer. Mk. II, Mk. IIA, or Mk. IIA1 21-grain Percussion Primer.

PROJECTILE, AP, 100-lb, M112. This round was designed for armor-piercing work with old and new 155-mm guns. The complete round consists of the following:

Projectile. The projectile is filled with 1.44 pounds of explosive D. and fuzed with the B.D. Fuze M60. The projectile consists of a heavy steel body hollowed out to receive the filler and fuze, a steel adapter soldered and crimped to the nose of body and a steel windshield threaded to the adapter. The addition of the windshield continues the ogive which has a radius of approximately 65 inches. The base of the projectile is not tapered, and has a groove cut in it to receive a copper base cover after the M60 Fuze has been inserted. The fuze

designation and lot number are stamped on the rotating band, and the appropriate delay is stenciled on the base cover. The projectile loaded and fuzed weighs 100 pounds. Since it contains a high explosive, the projectile is painted olive drab and stenciled in yellow.

Propelling charge. The propelling charge for M1917-17A1-18MI or M1 and M1A1 Guns, depending on the weapon the round is to be used in.

Primer. Mk. II or Mk. IIA 21-grain Percussion Primer.



RA PD 80811

Figure 134 - PROJECTILE, A.P., 100-Ib., M112, w/FUZE, B.D., M60, 155-mm Guns, M1917-17A1-18MI, M1, and M1A1

263. PROJECTILE, A.P., 100-LB., M112, W/FUZE, B.D., M60, 155-MM GUNS, M1917-17A1-18MI, M1, AND M1A1 (fig. 134), is intended for use against armored targets, concrete emplacements, and similar targets. It consists of a hardened steel body which contains a cavity in the base filled with explosive D, a basedetonating fuze with delay action, and a ballistic cap or windshield. A base cover is fitted over the fuze in the base of the projectile.

DATA

Length of projectile 23.62 in.	Maximum range.
Width of rotating band 2.00 in.	supercharge
Type of base	Penetration (in.
Radius of ogive 10.70 cal.	obliquity of he
Muzzle velocity (super-	plate at 1.000
charge) 2,740*; 2,360 ft per sec†	Penetration (in.

supercharge 24,075*; 19,200 ydt Penetration (in. at 0-deg obliquity of homogeneous plate at 1,000 yd) 7.5* enetration (in. of reinforced concrete at 1,000 yd)..... 60

*-In M1 and M1A1 Guns.

†-In M1917-17A1-18 MI Guns.

10. Shrapnel, Mk. I. - a. <u>General remarks</u>. This is the only Projectile that may be fired interchangeably in either the 155-mm. Bun or 155-mm. howitzer. It is fitted with a rotating band approximately 1.25 inches wide. The Mk. I shrapnel may be issued with the 45-second combination fuze, M1907M assembled in place, the fuze being set at safe. Great care should be taken to keep the shrapnel in a dry condition.

<u>b.</u> <u>Description</u>. The Mk. I shrapnel is shown in Figure 3. The base or bursting charge consists of about 1.21 pounds of black powder which is placed in the base of the projectile. A steel diaphragm acts as a cover for the base charge and supports the balls in matrix. The shrapnel also carries a central tube, which conducts the flame from the fuze to the base charge. The shrapnel filling is composed of about 800 lead balls, approximately 0.6 inch in diameter, averaging 23 to the Pound, the total weight of balls being about 34 pounds. The balls are held in a matrix of melted resin, poured into the shrapnel case during

the loading of the balls. A steel head closes the shrapnel case and forms an adapter for the 45-second combination fuze. The inside of the head is filled with molten resin.

<u>c. Action</u>. In action, the shrapnel is really a complete gun in itself. When the time fuze has burned its predetermined time the magazine charge flashes through the central tube of the shrapnel and ignites the black powder base charge. The explosion of the base charge does not rupture the case but ejects the diaphragm, balls, head, etc. from the case with a velocity of about 350 feet per second, this velocity being in addition to that of the shrapnel at the time of burst. The balls are projected forward in the form of a cone, due to rotational velocity. The angle of this cone depends on the relation of the angular velocity of the outermost balls in the case and their linear velocity.

d. <u>Identification</u>. Shrapnel are painted red to indicate that the filler charge is a low explosive. They are also stenciled for identification as shown in Figure 4. Some shrapnel may be found stenciled "155 H". These are identical with those properly stenciled 155 G H" and are suitable for use in either the 155-mm. gun or the 155-mm. howitzer.

e. Weight. Weight markings are not placed on shrapnel, as there is seldom a variance of more than 1 per cent from the normal weight, fuzed, of 95 pounds. The weight is adjusted in manufacture by assembling more or fewer balls than prescribed, as may be necessary.

SHRAPNEL, Mk. I. This round is used only for practice impact firing. The complete round is made up as follows:

Projectile. The projectile with M1907M 45-sec Combination Fuze. The projectile has the same construction and function as the shrapnel described in the chapter on 75-mm ammunition.

Propelling charges.

CHARGE, propelling, for 155-mm Howitzers M1917-17A1-18 (7 zones, adjustable).

CHARGE, propelling, M1A1 (green bag) (5 zones, adjustable). CHARGE, propelling, M2 (white bag) (zones 6 and 7 adjustable). Primer. Mk. II, Mk. IIA, or Mk. IIA1 21-grain Percussion Primer.





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Figure 145 - SHELL, H.E., Mk. III, Unfuzed, 240-mm How., M1918-18A1-18MI-18MIA1

288. SHELL, H.E., MK. III, UNFUZED, 240-MM HOW., M1918-18A1-18MI-18MIA1 (fig. 145), is intended for use with the M46 or M47 Point-detonating Fuze. As shipped, the projectile is unfuzed and is fitted with the Mk. IIA Adapter-booster, and a lifting plug. The rotating band, made of gilding metal or copper, has two cannelures or grooves; it is located 6.05 inches from the base end of the projectil. The base cover consists of a lead disk and copper cup assembly secured to the base by means of a lead calking strip.

DATA

Length of projectile* 37.20 in.	R
Width of rotating band 2.02 in.	M
Type of base Boat-tailed	N
Degree of taper 7 deg	

adjus of ogive 4.5 cal. uzzle velocity (max).. 1,700 ft per sec laximum range (at 45 deg 10 min)..... 16,390 yd

With eyebolt-lifting plug.



RA PD 65140

Figure 146 - SHELL, H.E., Mk. IIIA1, Unfuzed, 240-mm How., M1918-18A1-18MI-18MIA1

289. SHELL, H.E., MK. IIIA1, UNFUZED, 240-MM HOW., M1918-18A1-18MI-18MIA1 (fig. 146), is intended for use with the M51 Point-detonating Fuze or modifications, or the M67 Mechanical Sine Fuze or modifications. This projectile utilizes the same shell bady as the Mk. III (par. 288) but employs a modified nose bushing. Apother characteristics are the same as the Mk. III except the over-all gth which is 37.22 inches.

291. SHELL, H.E., M114, UNFUZED, 240-MM HOW., M1 (fig. 147), is the standard high-explosive round for the M1 Howitzer. The rotating band, made of copper or gilding metal, has three cannelures or grooves; it is located 6.58 inches from the base end of the projectile. This projectile is fitted with a base cover to prevent hot gases generated by the burning propelling charge from reaching the bursting charge through possible defects or flaws in the base. The base cover consists of a lead disk and copper cup assembly or a steel cup secured to the base by means of a lead calking strip.



Figure 147 - SHELL, H.E., M114, Unfuzed, 240-mm How., M1

DATA

Length of projectile* 41.74 in.	Radius of ogive
Width of rotating band 2.5 in.	Muzzle velocity (n
Type of base Boat-tailed	Maximum range
Degree of taper 8.5 deg	(at 46 deg 30 i
-	

..... 8 cal. nax).. 2.300 ft per sec min)..... 25,255 yd

*-With eyebolt-lifting plug.

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Section III

2.36-INCH ROCKETS

15. DESCRIPTION AND DATA.

a. General. The 2.36-inch rocket (figs. 20 to 24) consists of a head which contains the charge, and a motor and fin assembly, which includes an integral fuze, the motor, and the fin assembly. The head and the fin assembly are full caliber in diameter; the motor tube is approximately one-half caliber in diameter. In earlier models, the head is pointed and the fin assembly is made up of six long radial fins; in later models, the head is rounded and the fin is circular, that is, shrouded.

(1) HEAD. The rocket head varies with each type and model and is described below in the paragraph on the specific model.

(2) MOTOR AND FIN ASSEMBLY. The motor tube is closed at the forward end by a steel cup which contains the fuze mechanism. The forward end is threaded for assembly to the rocket head. The fin assembly is welded to the tube at its rear end.

(3) FUZE. The fuze consists of a simple inertia plunger carrying the firing pin, a creep spring, a primer detonator, and, in highexplosive rockets, a tetryl booster. For safety in handling, the plunger is held in safe position by a safety pin which passes through the plunger and the fuze housing, and clips around the motor tube. This pin is a simple wire clip in earlier models (fig. 20) and a waterproof band-type in later manufacture (fig. 20). When the safety wire is removed, a blow equivalent to dropping the rocket on its nose from a height of 1 foot will cause the plunger to strike the primer with sufficient force to operate the fuze. These fuzes are described in detail in paragraphs 45 and 46.

(4) PROPELLING CHARGE. The propelling charge consists of five sticks of double-base powder each approximately 4.15 inches long. It is ignited by an electric igniter assembled within the motor. The lead wires pass out the nozzle through a plastic closing cup which seals the motor against the entrance of dirt and moisture. The igniter lead wires are of unequal length; the short wire is soldered to a fin and the long wire, called the contact wire, is stripped of insulation near its outer end for attachment to the launcher terminals. For shipping, the contact wire is coiled, to take up the slack, and attached to a fin with tape.





b. Data.

	M6A]	M10 M6A3	MIGAI MGAJD	M10A2 M10A3 M6A3F M6A4 M6A5
Range (max)	600 yd	700 yd	700 yd	700 yd
Dispersion	8.5 mils	6 mile	6 mils	6 mile
Velocity (max)	265 It per sec	270 ft per sec	270 (t per sec	275 ft per sec
Temperature limits	0 to 120 deg F	0 to 120 deg F	-20 to +120 deg F	-40 to +120 deg F
Burning time	0,08 to 0.03 sec	0.08 to 0.03 sec		-

Burn-out point (feet from muzzle) (Normally within launcher)

16. 2.36-INCII HE, AT ROCKET M6. This rocket and the corresponding practice rocket M7 are no longer issued, but are to be held for modification to the corresponding A1 models. They resemble the rockets M6A1 and M7A1, but may be distinguished by a contact band, on the nose of the rocket, which is connected to the igniter lead by a wire taped to the body.

17. 2.36-INCH HE,AT ROCKET M6A1.

a. Data. This rocket (fig. 20) is 21.6 inches long and weighs 3.4 pounds. The head is 8.8 inches long and weighs 1.57 pounds. It contains a half-pound charge of pentolite. The propellant consists of 5 cylindrical grains each 0.375-inch diameter by approximately 4.15 inches long. This model may be identified by the pointed nose and the long, radiating fin assembly. The fuze of this model may be cted to function after removal of the safety pin by a blow on

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the nose equivalent to a drop of 48 inches on normal soil. It will ordinarily not function on impact with mud, loose sand, or water, nor on glancing impact with normal soil.

2.36-inch Rockets

b. Effect. This rocket has effect against various targets as follows:

(1) ARMOR PLATE. Penetration of armor found on most tanks may be expected at all ranges. A hole is blown through the armor and heated particles of metal are sprayed through in a cone-shaped pattern. Any ammunition within this pattern is usually exploded.

(2) MASONRY. Penetration of brick and masonry from several inches to a foot or more may be expected, depending on quality of structure.

(3) STRUCTURAL STEEL. Produces shattering effect against cast steels and such materials as girders and railroad rails. Produces extensive damage, probably irreparable, to motor blocks.

(4) WOOD. Penetration of timber from several inches to a foot or more may be expected, depending on the timber.

(5) SOIL. Impact with ground at ranges below 300 yards will ordinarily result in a ricochet rather than a detonation. At ranges in excess of 300 yards, the angle of impact is steep enough to cause a detonation which resembles that of a 75-mm high-explosive shell. However, impact on a very soft materal such as mud, soft sand, or water will not cause detonation of the rocket.

(6) FRAGMENTATION. Fragmentation and antipersonnel effects are slightly greater than 60-mm mortar shell.

18. 2.36-INCH HE,AT ROCKET MGA3.

a. Data. This rocket (fig. 21) is 19.4 inches long and weighs 3.4 pounds. The head is 8.8 inches long and weighs 1.64 pounds. It contains a half-pound shaped charge of pentolite. The propellant and fuze are similar to those of the rocket M6A1 described above. This model may be identified by the rounded nose and shrouded fin assembly.

b. Effect. This model has effect similar to the rocket M6A1 described above.

19. 2.36-INCH HE,AT ROCKET M6A3: MODIFICATIONS.

a. 2.36-inch IIE, AT rocket M6A3C. This model (fig. 22) is similar to the rocket M6A3 described above, except that the detonator cover has been omitted in the fuze, thereby making the fuze extremely sensitive. This model will function (with safety pin removed) on a blow equivalent to a drop on normal soil of only 11 inches. Rocket M6A3C is marked, for additional identification, by a half-inch white band around the ogive. The effect of this rocket is similar to that of the rocket M6A1 described above (par. 17),



M6A3C

ond

M6A4

AT

ΗE,

Rockets:

2.36-inch

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Figure

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Pars. 19-22

except that function may be expected on glancing impact, or on impact with soft soil, heavy brush, or hedge.

b. 2.36-inch IIE.AT rocket, M6A3D. This model is similar to the rocket M6A3C except that the propellant is T1E1 (salted) powder, which has better burning characteristics at lower temperatures. The temperature range for motors loaded with this powder is from -20° F to $+120^{\circ}$ F.

c. 2.36-inch HEAT rocket M6A3F. This model is similar to the M6A3C except that the propellant is M7 (T4) powder. The safe temperature range is from -40° F to $+120^{\circ}$ F.

20, 2.36-INCH HE.AT ROCKETS M6A4 AND M6A5. These models (figs. 22 and 23) are similar to the rocket M6A3F except for the fuze. Rocket M6A4 incorporates the base-detonating rocket fuze M400; rocket M6A5 incorporates the fuze M401 (par. 46). Both fuzes employ a bore-riding pin which keeps the fuze unarmed until the rocket leaves the launcher.

2.36-INCH WP SMOKE ROCKET M10. 21.

a. Data. This rocket (fig. 24) is 17.1 inches long and weighs 3.4 pounds. The head is 5.9 inches long and weighs 1.64 pounds. It contains a 0.9-pound charge of phosphorus. The propellant consists of five cylindrical grains each 0.375-inch diameter by approximately 4.15 inches long. This model may be identified by appropriate markings and by the short head without smoke ports. The fuze is similar to that of the HE,AT rocket M6A3 except that the booster is replaced by a long detonator-burster extending into the head (fig. 6).

b. Effect. The WP smoke rocket bursts on impact to produce a spray of phosphorus particles over a radius of 25 yards. The phosphorus ignites spontaneously on contact with air and produces a dense white smoke. The smoke itself is harmless but the burning particles produce painful burns.

c. Development models. During development, the white phosphorus smoke rocket M10 was designated T26E2. The rocket T26E1 differs only in internal burster details: the rocket T26 differs in that the motor is equipped with the long fin, similar to that of the HE,AT rocket M6A1,

22. 2.36-INCH WP SMOKE ROCKETS MIOAL AND MIOA2. These models differ from the white phosphorus smoke rocket M10 only in the type of propellant. The motor of the rocket M10A1 is loaded with salted powder TIE1; the safe temperature range of this model is -20° F to $+120^{\circ}$ F. The motor of the rocket M10A2 is loaded with powder M7 (T4); the safe temperature range is -40° F to +120° F.









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LA PD 97772





RA PD 104808

Figure 24 - 2.36-inch Smoke Rockets: WP, M10 and HC, T27E1

23. 2.36-INCH WP SMOKE ROCKET M10A3. This model is similar to the rocket M10A2 except that it incorporates the boresafe base-detonating rocket fuze M401 (par. 46). The propellant is M7 powder and the safe temperature limits are -40° F to $+120^{\circ}$ F.

24. 2.36-INCH HC SMOKE ROCKET T27E1.

a. Data. This rocket (fig. 24) is 16.1 inches long and weighs 3.4 pounds. The head is 4.5 inches long and weighs 1.64 pounds. It contains a 1-pound charge of HC smoke mixture. The propellant consists of five cylindrical grains, each 0.375-inch diameter by approximately 4.15 inches long. This model may be identified by appropriate markings and by the short head with a circle of smoke ports in the base. The fuze is similar to the other fuzes for this size of rocket except that it is an igniting rather than detonating type.

- b. Effect. On impact, the HC rocket ignites and burns for approximately 1 minute producing a cloud of white smoke.

25. 2.36-INCH INCENDIARY ROCKET T31.

a. Data. This rocket is 17.7 inches long and weighs 3.4 pounds. The head is 4.1 inches long and weighs 1.64 pounds. It contains a 1.1-pound charge of thermate. This model may be identified by the short head and the type of motor characteristic of rocket M6A1. The fuze is of the igniting type.

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b. Effect. On impact, this rocket ignites and burns, producing extreme heat. It is currently authorized for practice only, but in using it, the incendiary effect on the target should be considered and, when necessary, guarded against.

2.36-inch Rockets

26. 2.36-INCH PRACTICE ROCKETS.

a. General. Practice rockets are provided to simulate the various modifications of HE,AT rockets in firing for target practice. In general, they are made up of the corresponding service type motor and a head of the same shape, weight, and center gravity as the service round. In earlier modifications, the head is brought up to weight with an iron rod; later modifications use the metal parts of the service head loaded with inert material.

b. Practice rocket M7A1. This model (fig. 20) simulates the HE,AT rocket M6A1. It has the same size, shape, weight, and flight characteristics as the service round.

c. Practice rocket M7A3. This model simulates the HE,AT rockets M6A2 and M6A3C. It consists of the service type motor and an empty head brought up to weight with an iron rod.

d. Practice rocket M7A4. This model (fig. 21) also simulates the HE,AT rockets M6A3 and M6A3C. It differs from the practice rocket M7A3 in that the head is inert loaded rather than weighted.

e. Practice rocket M7A5. This model simulates the HE,AT rocket M6A3D. The motor is loaded with salted powder and has the same safe temperature range, -20° F to $\pm 120^{\circ}$ F, as the corresponding service round.

f. Practice rocket M7A6. This model (fig. 23) simulates the HE,AT rockets M6A3F, M6A4, and M6A5. The motor is loaded with M7 powder and has the same temperature limits, -40° F to $\pm 120^{\circ}$ F, as the service rounds.

AMMUNITION INSPECTION GUIDE

TM 9-1904

SMALL ARMS AND TRENCH WARFARE



Figure 101 - ROCKET, AT, 2.36-inch, M6

ROCKET, AT, 2.36-inch, M6 (fig. 101). This rocket is a highexplosive projectile for use against tanks. It is $21\frac{1}{2}$ inches long and weighs $3\frac{1}{2}$ pounds. The rocket consists of three principal parts: the high-explosive head, the stabilizer tube, and the fin assembly.

The head consists of metal parts which are similar in function to the parts of the AT grenade head. These parts are the ogive and the body. The bursting charge is similar, both in that it is a "hollow" or a "shaped charge," and also in its composition which is mainly 50/50 pentolite with a 10/90 pentolite booster surround. It is, however, a heavier charge, weighing approximately $\frac{1}{2}$ pound.

The stabilizer tube consists of two principal parts: the fuze body, which threads into the union and contains the fuze mechanism, and the powder tube to which the fuze body is permanently joined, and which contains the propellent charge.

The fuze is similar in all its components to that of the AT grenade. It is, however, of heavier construction, as is the entire rocket, and contains heavier booster and detonator charges. The parts of the fuze are a spring restrained striker; a detonator of priming mixture, lead azide, and tetryl; and a booster of tetryl. The striker is held in the unarmed position prior to loading into the launcher, by a safety pin which engages an annular groove in the striker as it passes through opposed holes in the fuze body. The safety pin clips to the stabilizer tube and must be removed prior to firing of the rocket.

The powder tube or remainder of the stabilizer tube in this case serves as a housing for the propellent powder and an electric safety match or squib. The propellent powder is a monoperforated ballistite type formed into rather long grains. The electric safety match with

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U-4n

an igniting charge of black powder is located at the upper end of the powder tube. Two contact wires pass down through the powder tube and out through the nozzle portion of the fin assembly.

The fin assembly consists of three parts: the nozzle, which is a venturi tube; the trap, which is a spider ring closing the nozzle opening above the venturi and holding the propellent powder in place; and finally, the fins themselves. The fins are six metal blades, each spot-welded to the outer surface of the nozzle at two points. Each blade is notched at a point opposite the lower extremity of the nozzle. These notches are unpainted and one of them serves as a contact for the electric safety match, one ignition wire being soldered to it. The other contact is made by means of an insulated (with a fiber strip) brass contact ring encircling the ogive. A brass connector strip runs from the end of the body to this ring. To the end of the connector strip is soldered the other ignition wire from the electric safety match. This ignition wire is taped to the stabilizer tube midway between fins and body.

Function. The safety pin is removed and the rocket inserted into the rear opening of the launcher. It is held in place by a safety catch. Firing is accomplished by establishing an electric circuit between rocket and launcher. This causes ignition of the electric safety match, the black powder ignites, and the propellent powder gases issue through the nozzle, the venturi serving to increase their velocity. This back blast serves to propel the rocket forward. There is no recoil and the back blast should not affect the firer since the powder is designed to be completely burned within the launcher. On impact with the target the striker, due to inertia, drives forward overcoming its restraining spring. It strikes and causes detonation of a detonator of priming mixture, lead azide, and tetryl, which in turn carries detonation of a tetryl booster, a 10/90 pentolite booster surround, and a 50/50 pentolite bursting charge.

Effect. The rocket has effect against various targets as follows:

1. Armor plate. Penetration slightly in excess of 3 inches of homogeneous steel armour plate at all ranges and at angles of impact as low as 60 degrees from normal. A hole, roughly cylindrical and about 1 inch in diameter, is blown through the plate, the force exerted by the detonation being of such high order that the metal of the armor plate is raised to a state of incandescence, and exits from the back of the plate in a spray of several hundred particles. Such a spray is cone-shaped with its angle of opening about 90 degrees. This spray exerts antipersonnel effect to a distance of 30 yards and usually causes explosion of ammunition it strikes.

2. Masonry. Penetration of brick walls and rock masonry not over 8 inches in thickness is accomplished with a burst having a powerful blast effect. CARTRIDGE, BALL, CALIBER .22. LONG RIFLE

	Paragraph
General description	60
Identification	61
Packing	. 62
Exterior ballistics	63

60. GENERAL DESCRIPTION. - This cartridge has superseded the caliber .30 Gallery Practice Cartridge M1919 for training purposes and is used in the caliber .22 U. S. Rifles, M1922, M1922M1, and M2, and in caliber .22 machine guns and pistols.

a. These cartridges are purchased by the Ordnance Department from several commercial manufacturers. They are all of the same general appearance, but differ slightly in the shape of bullet, powder used, and ballistic qualities. The cartridge complete weighs approximately 53 grains and consists of the case, priming composition, powder charge, and bullet.

b. The cartridge case is made of gilding metal and is of the rimfire type — that is, the priming composition is spun into a circular recess inside the rim instead of being seated in the center of the case head as a separate component. A blow from the firing pin at any position on the rim compresses the priming composition causing it to explode and ignite the powder charge.

c. The priming composition and charge of smokeless powder may differ for each manufacturer. All standard, caliber .22 long rifle ammunition purchased since 1928 contains a noncorrosive primer composition. The type of powder used is usually marked on the containers and the charge weighs approximately 2.86 grains.

d. The caliber .22 long rifle bullet is made of lead. Bullets of different manufacture differ slightly in shape, but all weigh approximately 40 grains. (See Figure 14.)

61. IDENTIFICATION. - a. Containers of this ammunition are marked by the manufacturer with the caliber, type, and such trade names as "Kleanbore", "Lubaloy", "Rustless", "Stainless", "Tackhole", "Copperheads", etc. The manufacturer of these cartridges can be determined by the following marks which are stamped on the head of the case:

Federal cartridges have an initial "F". Peters cartridges have an initial "P". Remington cartridges have an initial "U". U. S. cartridges have the initials "US". Winchester cartridges have an initial "H". Western cartridges have the figure of a diamond.

b. Caliber .22 ammunition of recent manufacture has the manufacturer's lot number stamped on the wooden packing box. This provides a means of identifying and reporting any ammunition of this type which may become defective.

62. PACKING. - <u>a</u>. The cartridges are packed 50 in a cardboard box and 10 of these boxes (500 cartridges) are packed in a paper carton. The outside wooden packing cases contain either 5,000 or 10,000 cartridges, 10 or 20 cartons, respectively. The packing cases are marked with the manufacturer's name, quantity, and type of ammunition. Boxes of this ammunition procured for oversea shipment contain the air-tight terneplate liner.

<u>b.</u> A case of 10,000 cartridges without metal liner weighs 85 pounds. A case of 5,000 cartridges without metal liner weighs 44 pounds. Additional weights and dimensions are shown in Standard Nomenclature List No.T-1.



FIGURE 14. - CARTRIDGE, BALL, CAL..22, LONG RIFLE.

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ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

APPENDIX E

REPORTS/STUDIES

APPENDIX E

REPORTS/STUDIES

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E-1, Dedudding Datum, Camp Butner, 11 April and 21 July 1947,

E-2 respectively (B-9 and -10)

E-3 Certificate of Dedudding, 28 August 1947 (B-11)

E-4 Certificates of Clearance, 9 September 1949 and 20 January thru 6 April 1950, respectively (B-12 through B-14) E-6

E-7 Dedudding Release, 24 April 1950 (B-15)

E-8 Inspection Reports, Restricted Areas, Camp Butner Military thru Reservation, various dates 3 November 1958 through E-17 21 January 1969 (B-16 through B-25)

The second second second Sec HERE AND REPORT OF INSTALL TION SURVEYED BIS AND TO AT A STAR THE BELT STELL DISPOSAL TE MAN STAR AND THE lip. 8, m. C. Martin Martinez DEDUDDING DATA

1. Name and location of Army installation:

18 miles northwest of Authan, N.C.

2. Name and location of its artillery and bombing ranges:

teres in a restriction of the second an and a second for the second se and the second 3. Number and area in acres of each target or impact area: 173 . SOOL STOOL SHOLL HE HAR SHOLL HE HAR

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4. That type terrain are ranges on: i.e., flat, mountainous, barren, wooded, undergrowth; grass, weeds, etc.

Voctor, undergrowth and woods The second s The second second second second Construction States

5. At what times of the year is weather suitable for search and demolition crews to work?

BARRAR ARE BOTH HERE STREAM AND A COMPANY AND A STREAM S 6. Names of towns or settlements and approximate distances from the ranges for the billeting of disposal teams of 1 officer and 10 men and possible search crews of various sizes; enter and the state of the

Dathers N.C. + 18 miles

7. Type of practice performed and type of projectiles and/or bombs used:

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8.a. How much of total range area not used and how many acres of the target or impact area have been cleared and by whom?

See remains

b.Has a certificate of clearance been submitted and to whom?

CERTIFICATE OF DEDUDDING

۱c

All lands within **Outp Dates. Note with the exception of 17-3** have been given a careful visual inspection and have been cleared of all dangerous and/or explosive materials reasonably possible to detect. To the best of my knowledge and belief, this range will not require additional dedudding to render safe for public use.

D. J. WAGNER/C.PT. 9800th T.S.U.- C.E. Det. #8 Bomb & Shell Disposal Team

1.1

SCHUDULE A REPORT OF INSTALLATION SURVIVED BY THE BOND & SHELL DISPOSAL TEAM NO. 3

DEDUDDING DATA

- 1. Mame and location of Army installation: Camp Butner, N.C.
- 2. Name and location of its artillery and bombing ranges:

See attached map

- 3. Number and area in acres of each target or impact area:
 1. 17B 500' x 700'
 2. Mortar impact area see attached map See #7
- 4. What type terrain are ranges on: i.e., flat, mountainous, barren, wooded, undergrowth, grass, weeds, etc.

Wooded, undergrowth, weeds

5. At what time of the year is weather suitable for search and demolition crews to work?

year round

6. Names of towns or settlements and approximate distances from the ranges for the billeting of disposal teams of 1 officer and 10 men and possible search crows of various sizes:

Durham, N.C. - 18 miles southwest

- Type of practice performed and type of projectiles and/or bombs used:
 Rifle Grenade and Bazooka
 - 2. 60 & 81 MM Mortar
- a. How much of total range area not used and how many acres of the target or impact area have been cleared and by whom?
 See Remarks.
 - b. Has a cortificate of clearance been submitted and to whom? Yes, Capt. Wagner - Certificate woided.
- 9. Full name and address of present or past Range or Ordnance Officer, or someone familiar with the range activities during the training period or during the dedudding operations:

Mr. H. Witted, W.A.A. Camp Butner, N.C. 10. Full name and address of present or past Post Engineer, or servero taking over the duties:

Same as Paragraph 9

St. St.

11. All available range and target area maps should have the known or suspected target and impact areas outlined in red. One prepared map should be sent to the Real Estate Officer, Division Engineer's Office, and a duplicate copy retained in the Office of the Post Engineer.

Maps available at District Engineer Office, Savannah, Georgia

12. Are there personnel available for search parties?

No

13. Are there vohicles available for transportation of search personnel and equipment?

No

1/4. Remarks: All ranges marked on map were used. clearance was accomplished by using units and all ranges were continuously checked by camp personnel as well as by using units, except for Range 17B. It is recommended that Range 17B and mortar impact area (marked on maps) remain restricted. Range 17B was cleared as much as possible by Detachment No. 8. No further dedudding is necessary.

> /s/ Thomas P. Keane THOMAS P. KEANE Capt. C.E. Bomb & Shell Disposal Team #8

Date: 21 July 1947

CERTIFICATE OF DEDUDDING

All lands within <u>Camp Butner, N.C., except rocket range (No. 17B)</u> and mortar impact area (see map) have been given a careful visual inspection and have been cleared of all dangerous and/or explosive materials reasonably possible to detect. To the best of my knowledge and balief, this range will not require additional dedudding to render safe for public use.

OFFICE, DIVISION ENGINEER, SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS 28 August 1947

APPROVED:

FOR THE DIVISION ENGINEER:

/s/ Gilbort ". Gulloy GIL RT H. GULLEY Bomb Disposal Specialist South .tltntic Division

FORM-1005	UNITED STAT	CA ADUTY ON	FORM APPROVED
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9. PEHARKS This Addition to adding decontamin thows the two (2) DATE OF ASSIGNMENT ASSIGNED BY	VAA Form 1005, 7D- mation data pertain) areas which it is DO NOT FILL IN ASSIGNED TO	ADDITION	N N.C. Mary 1947, is for the purpose is stallation. See map attached in restricted. 17. AUTHORIZED ST SIBNATURE OF REPORTING OF
9. PEHARKS This Addition to adding decontamin thows the two (2) DATE OF ASSIGNMENT ASSIGNED BY	VAA Form 1005, 7D- mation data pertain) areas which it is DO NOI FILL IN ASSIGNED TO SIGNATURE	ADDITION	N.C. Mary 1947, is for the purpose of tallation. See map attached of in restricted. 17. AUTHORIZED ST SIGNATURE OF REPORTING OF SIGNATURE OF REPORTING OF
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WAA FORM-1005 UN	NITED STATES AMERICA	FORM APPROVED
	AN OF SUCREME PELL PROPERTY	9. DATE 16 October 1969
DECLARATIO	JE OF SURFLUS REAL PROFERIN	IO. REPORTING AGENCY NUMBER
(TO THE WAR ASSETS	S ADMINISTRATOR, WASHINGTON 25.D.C.)	700-1070-L
EE INSTRUCTIONS O	INPORTANT N REVERSE FOR COMPLETING THIS FORM	IL. WAA NUMBER
. REPORTING AGENC	y Department of the Army	12. CISPOSAL AGENCY NUMBER
Hendquarters	a Srd Arer, Pbe Horberson, Ca.	13. REPRESENTATIVES TO CONTACT
. PROPERTY IDENTI	FICATION	
, AREA		
• USE OF PROPERTY	PRIOR TO ACCUISITION	I 14. LOCATION OF TITLE PAPERS
. OPINION OF BEST	FUTURE USE	
		15. COST OF PROPERTY
• DALE OF ACQUISE PRINE TO 1714	TIUN SUBSECUENT TO LO NIXED 12/31/39	TOTAL \$
• FORMER OWNER		16. PROCEEDS
This Cos 6 February 19 Cortificate a lands within ODE SCH Dike	rection to MA Form 1005, Reporting 947, is for the purpose of submitting at the subject installation, and which these tract members listed on the at COMME ATTACHEDS • 8 Soble "A" - Certificate of Clearer COPRECTION	Agancy No. TD-1070, dated 3 Cartial Decontamination of certificate includes all stached schedule.
This Cos G February IS Cortificate a lands within OED SCT J12, TE OF ASSIGNMENT SIGNED BY	Provide to MA Form 1005, Reporting 047, is for the purpose of submitting at the subject installation, and which these tract numbers listed on the at COMPLE ATTACHERS 0 Soble "A" - Certificate of Clearar CORRECTION 00 NOT FILL IN ASSIGNED TO	Arancy No. The 2070, dated 3 Cartial Decontantination bh certificate includes all tached schedule. 17. XuMWdashThDe GENERAL, THEO ORET MARKA
This Cos G February IS Cortificate a lands within SIDE SCIE JILL, TE OF ASSIGNMENT SIGNED BY	Treation to WAA Form 1005, Reporting 047, is for the purpose of submitting at the subject installation, and which these tract members listed on the at COMPLE ATTACHENDA B Schle "A" - Certificate of Clearar CORRECTION DO NOT FILL IN ASSIGNED TO SIGNATURE	Arancy No. "D. 1070, dated 5 Aratial Decontaniustical choose includes all tached schedule. 17. Authorization Gimeral, THIRD ARET A MARATUTER F REPORTING OFFICIAL Colomal, B Include:
This Cos & February IS Cortificate c lands within OED SCIT UIL: TE OF ASSIGNMENT SIGNED BY	DO NOT FILL IN ASSIGNED TO DIVISION	Arancy Ho. TD-2070, dated S Tartial Decontantination chostificate includes all tached schedule. 17. Auffidammente Assantutence Gimenal, THIRD ARET Assantutence Reporting Official Colomal, E Include: NAME AND TITLE (Please type)

have or has been requested to prepare, it incuiries have been reckived from prospective purchasers, attach the correspondence or a summary of such incuiries. BLOCK 6 - Check the box "Subsequent to 12/31/39" if the Government's interest was accuired after that the

GENERAL INSTRUCTIONS WAA Form-1005 shall be used by owning agencies to decise to the War Assets Administration (01%) co of Real Property Disposal) surplus real property losseed in the United States, its territories and lossessions, it shall be filed in OliangePLICATE (u).

A REPORTIONS FOR WAA FORM-1005

<u>CERTIFICATE OF CLEARANCE</u>

All lands within Tracts No. B-16-G, B-18-G, B-19-A-G, B-19-G, B-20-G, B-21-G, B-21-A-G, B-22-G, B-23-G, B-24-G, C-75-D, D-20-G, D-22-G, D-26-G, E-20-D, and E-21-D of Camp Butner, North Carolina as indicated on the attached WD, Office, Division Engineer, South Atlantic Division drawing of Camp Butner, North Carolina, drawing No. 659-14, dated 11-14-45, have been given a careful visual inspection and have been found to be clear of all dangerous and/or explosive raterials reasonably possible to detect. These tracts are recommended for any use for which the land is suited.

> /s/ Joseph A. Bocelato JOSEPH A. BOCELATO Captain, Corps of Engineers 9800 TSU-CE, Det. 13 Homb & Shell Disposal Team Commanding

9 Contember 1949

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BLOCK G - CIMPALE "A"

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NON EDENTIONS WHITED STAT	DE AMERICA	FORM APPROVED
(5-29-46) WAR ASSETS ACMI	INISTRATION	BUDGET BUREAU NO. 16ROC5.3
	IC PEH PROPERTY	9. DATE
DECLARATION OF SURFLU	US REAL PROFEREN	10. REPORTING AGENCY NUMBER
(TO THE WAR ASSETS ADMINISTR	ATOR, WASHINGTON 25,D.C.)	
INPORTA	NT OR COUPLETING THIS FORM	II. WAA NUMBER
1. REPORTING AGENCY Depart	ment of the Army	12. DISPOSAL AGENCY NUMBER
Corps of Engineers, Wa	shington 25, D. C.	13. REPRESENTATIVES TO CONTACT
2. PROPERTY IDENTIFICATION		
Camp Butner, North	Carolina	
		1
J. AREA		IN. LOCATION OF TITLE PAPERS
- USE OF PROPERTY PRIOR TO A	CCUISITION	, IT LOUNING OF TITLE CAFERS
		1
		4
. OPINION OF BEST FUTURE USE		IR CAST OF BOADSOTY
DATE OF ACOULSETION	CURCECHENT TO	
PRIOR TO 1/1/40 MI	XED 12/31/39	TOTAL \$
7. FORMER OWNER	<u> </u>	IG. PROCEEDS
8. REMARKS	"CORRECTI	0 H.M.
	CAMP BUTNER, N	
This Correcti 6 February 1947, is instion Certificate all lands from those	CAMP BUINER, N on to WAA Form 1005, Repor for the purpose of submit at the subject installati e tracts listed on attache	ting Agency No. WD-1070, dated ting additional Partial Decontam- on, and which Certificate includes d schedule.
This Correcti 6 February 1947, 1s imation Certificate all lands from those SKE SCHEDULE .	CAMP BUTNER, N on to WAA Form 1005, Repor for the purpose of submit at the subject installati e tracts listed on attache ATTACHED	ting Agency No. WD-1070, dated ting additional Partial Decontam- on, and which Certificate includes d schedule.
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This Correcti 6 February 1947, 1s imation Certificate all lands from those SKE SCHEDULE . DO NOT FIL ASSIGNED EX ELEVITY	CAMP BUTNER, N con to WAA Form 1005, Repor for the purpose of submit at the subject installati e tracts listed on attache ATTACHED	I.C. ting Agency No. WD-1070, dated ting additional Partial Decontam- on, and which Certificate includes d schedule. 17. AUTHORIZED BY SIGNATURE OF REPORTING OFFICT

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CERTIFICATE OF CLEARANCE

All lands within Tracts No. D.55-G, E-76-D, B-77-D, F-28-G, F-27-G, F-68-G, F-69-G, G-14-DEP, H-14-P, H-25-G, H-27-G, H-28-G, H-26-G, H-54-G, H-35-G, H-36-G, H-41-G, H-42-G, H-44-G, H-46-G, H-46-G, H-47-G, H-54-G, K-49-G, H-56-G, H-61-G, H-56-G-, H-60-G, J-2-P, J-S-P, J-4-P, J-5-P, J-6-P, J-7-G, J-8-G, J-9-G, J-10-P&G, J-11-P, J-12-P, J-18-P, J-15-P, J-16-P, J-17-P&G, J-18-G, J-19-G, J-20-G, J-21-G, J-22-G, J-23-G, J-24-G, J-52-G, J-53-G, J-34-G, J-35-G, J-39-G, J-46-P, J-45-P and J-44-P of Camp Butner, North Carolina, as indicated on the attached TD, Office, Division Engineer, South Atlantic Division Drawing of Camp Butner, North Carolina, Drawing No. 659-14, Catod 11-14-45, have been given a oreful visual inspection and have been found to be clear of all dangents and/or explosive materials reasonably possible to detect. These tracts are recommended for any use for which the land is suited.

> /s/ Josen! A. Bocelato JOSM/I A. BOCELATO Cantain, Corps of Engineers 9800 TSU-C3, Dat. 13 Bonb & Shell Disposel Team

> > Jogmanding

20 Jumary 1950

2ND PARTIAL

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GSA FOSH NO. 30		5	F				
3-1-50 GENE	RAL SERVI	IC. DHINIS	TRATION	1. (DATE ORTED*	2. HOLDING	GENCY NUMBER
This form expires RE December 31, 1950	PORT	OF EX	CESS	3. 0	DATE RECEIVED	4. GSA CONTR	ROL NUMBER
3· TO:	. C A L		Liquidation	Serties SS Ro	om 10/15 A1c	ott Hall.	West Potomo
GENERAL SERVIO	CES ADMIN	ISTRATION	Park, Washir	gton 25 D.	<u>C</u>		
6. FROM: (Name of Hol Chief of Engir	ding Age 98 78.]	ncy) Departmen	t of the Are	workess of	Engineers.	Washingto	n 25. D. C.
7. NAME OF REPRESENTAT	IVE TO BE	E CONTACTED		ADDRESS			
District Engin	eer, Se	avannah D	istrict, Rea	1 Estate Di	vision, Save	annah, Geo	rgia
B. NAME OF CUSIODIAN							
9. PROPERTY IDENTIFICA	TION			PROPERTY A	DDRESS AND FULL	LOCATION	
CALLP BUTNER, N	orth Ce	arolina			T CLEAR		ACRES OR
10. SPACE USE OU	ILDINGS	(SQ, FT.	FLOORS	CAPACITY	HEAD ROOM	(1)	SQUARE FEET
a. OFFICE						a, FEE	
b. STORAGE						b. LEWSED	
c. OTHER (See 10e)		<u> </u>			147 - 24 D - 20 - 21 E - 21 - 20 - 20	c. OTHER	
d. TOTAL			STAN 10- SPECI	EV NOTHER USE	ENTERED IN 10c	d. TOTAL	
A. OWNER	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SARASAN AN AN	A STOCK				
b. TENANT	<u>.</u> .						
13. COST TO THE GOVERN	MENT	SCHEDULE	COST	14.	LEASE	HOLD DATA	
 BUILDINGS, STRUCTUR UTILITIES AND 	ES,			a. TOTAL A	ANNUAL RENTAL		\$
NISCELLANEOUS FACIL	ITIES			b. AKNUAL	REAT PER SU. P	I. UK AUKE	\$
BELATED BEDSONAL DO	ARERTY			C. DATE LI	REQUIRED FOR RI	FNEWAL	<u>·</u>
d. TOTAL				e. TERMINA	AL DATE OF RENE	WAL RIGHTS	
15. ANNUAL PROTECTION	AND MAINT	ENANCE COST	TO GOVERNMENT	f. ANNUAL I	RENEWAL RENT PER	SU.FT. OR ACRE	\$
(GOVERNMENT-OWNED	OR LEASED	13 \$		g. TERMEN	ATION RIGHTS (1)	N DAYS)	
				LESSOF	<u>، </u>	GOVERNMENT	
	GEEDS	11	A THE OF CONST	RUCTION			
16. DISPOSITION OF PRO							
16. DISPOSITION OF PRO				19. RANGE OF PO	OSSIBLE USES		····
16. DISPOSITION OF PRO 18. Hold:56 Agency Use				19. RANGE OF PO	DSSIBLE USES		
16. DISPOSITION OF PRO 18. HOLDING AGENCY USE				19. RANGE OF PO	DSSIBLE USES		
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16. DISPOSITION OF PRO 18. HOLDING AGENCY USE 20. NAMES OF INTERESTE	D FEDERAL	AGENCIES K	NOWN TO HOLDING	19. RANGE OF PO	DSSIBLE USES		
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 16. DISPOSITION OF PRO 18. HOLDING AGENCY USE 20. NAMES OF INTERESTE 21. REMARKS: This Correction 6 February 1947 covering dependent 	D FEDERAL 1 to fo 2, is f	mer FAA or the pu	CONSECTION Form 1905, F rpose oi' sub	AGENCIES	Sency No. WD al Certific	-1070, dat ato of Clo	od aranc o
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 16. DISPOSITION OF PRO 18. HOLDING AGENCY USE 20. NAMES OF INTERESTE 21. REMARKS: This Correction (5 February 1947) covoring decont 	D FEDERAL 1 to fo 1, is f taminat SEE SC. BY HOLDIN	rmer WAA or the pu ion at th HEDULES A	CORRECTION Form 1905, H rpose of sub e subject in TTACHED.	AGENCIES	Sency No. WD al Certific	-1070, dat ato of Cle	od arance
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C-E-R-T-I-F-I-C-A-T-E O-F C-L-E-A-R-A-N-C-E

All lands within tracts D-81-G, D-79-G, D-77-G, D-59-A&G, D-53-G, D-51-G, D-49-G, D-48-G, D-46-G, D-45-G, D-44-G, that portion of D-43-G, that lies outside of the National Guard Area, D-36-G, D-33-G, D-32-G, D-31-G, D-30-G, D-26-G, D-25-G, D-24-G, D-23-G, D-22-G, D-21-G, D-21-A&G, D-20-G, D-19-G, D-18-G, D-17-G, D-16-G, D-15-G, D-14-G, D-13-G, D-12-G, D-11-G, D-10-G, D-9-G, D-8-G, D-7-G, D-6-G, D-5-G, D-4-G, D-3-G, D-2-G, D-1-G, B-21-A&G, B-21-G, B-22-G, B-23-G, B-24-G, B-20-G, B-19-A&G, B-19-G, B-18-G, B-16-G, B-1-G, that portion of C-75-D that lies outside of the National Guard area, C-66-G, C-65-G, C-37-G, C38-G, C-35-G, C-31-G, C-30-G, C-30-A&G, C-29-D&G, that portion of tracts E-51-D, E-21-D, and E-20-D, that lies outside the National Guard Area, E-82-D&G, E-80-D, E-78-D, E-76-D, E-77-D, E-74-D, E-51-A&D, E-51-B&D, F-84-G, F-75-G, F-76-G, F-63-G, F-62-G, F-61-G, F-60-G, F-59-G, F-58-G, F-57-G, F-56-G, F-55-G, F-54-G, F-52-G, F-51-D&G, F-50-G, F-49-G, F-48-G, F-53-G, F-46-G, F-45-G, F-44-G, F-43-G, F-42-G, F-79-D&G, F-82-G, F-77-G, F-78-D&G, F-90-G, F-83-G, F-69-G, F-68-G, F-27-G, F-26-G, F-3-G, F-89-G, F-13-G, F-41-G, F-40-G, F-39-G, F-37-G, F-36-G, F-35-G, F-32-G, G-23-P, G-22-P, G-21-P, G-20-P, G-19-P, G-18-P, G-17-D, G-71-P, G-15-D, G-14-D&P, H-60-G, H-59-G, H-58-G, H-56-G, H-51-G, H-50-G, H-49-G, H-48-G, H-47-G, H-46-G, H-45-G, H-44-G, H-42-G, H-41-G, H-40-G, H-39-G, H-38-G, H-37-G, H-36-G, H-35-G, H-34-G, H-33-G, H-31-G, H-30-G, H-29-G, H-28-G, H-27-G, H-26-G, . H-25-G, H-24-G, H-23-G, H-22-G, H-21-G, H-20-G, H-18-G, H-18-A&G, H-17-G&P, H-15-G&P, H-14-P, H-13-P, H-12-P, H-9-G, H-8-G, H-7-G, H-6-G, H-5-G, H-4-G, H-3-G, J-46-P, J-45-P, J-44-P, J-39-G, J-35-G, J-34-G, J-33-G, J-32-G, J-24-G, J-23-G, J-22-G, J-21-G, J-19-G, J-18-G, J-17-G&P, J-16-P, J-15-P, J-20-G, J-13-P, J-12-P, J-11-P, J-10-G&P, J-9-G, J-8-G, J-7-G, J-6-P, J-5-P, J-4-P, J-3-P and J-2-P, as described on the attached War. Department, Office, Division Engineer, South Atlantic Division, Camp Butner, N. C. drawing No. 659-14, dtd 11-14-45, have been given a careful visual inspection and have been found to be clear of all dangerous and/or explosives materials reasonably possible to detect.

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To the best knowledge and belief of the undersigned, the above listed tracts will not require additional dedudding to render safe for public use. These tracts are recommended for any use for which the land is suited.

All lands within area "A" as described on the above drawing, consisting of tracts H-16-G, H-1-G and that portion of tracts H-19-G, H-10-G, H-11-G, H-2-G and H-32-G that fall within the boundaries of area "A" are restricted against any sub-soil operations what-so-ever. All other lands in tracts H-19-G, H-2-G, H-11-G, H-32-G and H-10-G will not require additional dedudding to render safe for public use.

AREA "A" Staked with 18 stakes marked area "A", stake 1, 2, ect of 18. Stake No. 1, of 18 located approx. 1.8 miles S.W. on Weaver Rd. from jct. Weaver and East Range Rd. and approx 110 yds N 45 degrees E from jct Loop and Weaver Rds, on south bank of Weaver Rd; thence to stake 2, S 10 degrees E, approx 320 yds, stake approx 50' right of Loop Rd; thence to stake 3, S 25 degrees W, approx 700 yds; thence to stake 4, due west, approx 250 yds; thence to stake 5, S 25 degrees W, approx 360 yds; thence to stake 6, in a southerly direction approx 265 yds; thence to stake 7, S 87 degrees W, approx 575 yds; thence to stake 8, S 55 degrees W, approx 615 yds; thence to stake 9, S 55 degrees W, 550 yds; thence to stake 10, S 10 degrees E, approx 250 yds; stake on north bank of creek; thence to stake 11 in a westerly direction up the creek approx 100 yds to the Persons and Granville County Line, stake on south bank of creek; thence to stake 12, due south down Persons end Granvil E

$C-\underline{R}-\underline{R}-\underline{T}-\underline{I}-\underline{F}-\underline{I}-\underline{C}-\underline{A}-\underline{T}-\underline{E}-\underline{O}-\underline{F}-\underline{C}-\underline{L}-\underline{E}-\underline{A}-\underline{R}-\underline{A}-\underline{N}-\underline{C}-\underline{E}$ (Cont'd)

at county line, also at jct of Crawley & Loop Rds; thence to stake 13, in an easterly direction following Crawley Rd, approx 1.3 miles, stake on north bank of Crawley Rd; thence to stake 14, N 2 degrees E, approx 1475 yds, stake located on south bank of creek; thence to stake 15 in an easterly direction up creek approx 250 yds, stake on north bank of creek; thence to stake 16 N 2 degrees E, approx 1320 yds; thence to stake 17, N 2 degrees W, approx 1120 yds; thence to stake 18, N 86 degrees W, approx 310 yds; thence to stake 1, S 52 degrees W, approx 110 yds back on Weaver Rd, thus closing the area.

NOTE: Stakes 1 thru 6 incl are marked area "A" No.- of 12 and stakes 7 thru 18 incl are marked area "A" No. of 18.

All lands with in area "B" as described on above drawing, consisting of tracts F-73-G, F-65-G, F-64-G, F-29-G, F-31-G, F-30-G, F-34-G and that portion of tracts F-28-G and F-66-G, that fall within the boundaries of area "B" are restricted against any sub-soil operation what-so-ever. All other lands within tracts F-28-G and F-66-G will not require additional dedudding to render safe for public use.

AREA "B" Staked with 12 stakes marked as "A" above, stake 1 on west bank of East Range Rd, approx 1.9 miles south of jot of Crawley and E. Range Rds; thence to stake 2, N 45 degrees W, 610 yds; thence to stake 3, in a westerly direction following old rd, approx 815 yds; thence to stake 4, S 12 degrees W, approx 375 yds, stake about 4' on north side of branch; thence to stake 5, S 75 degrees B, approx 350 yds; thence to stake 6 southerly direction approx 1115 yds; thence to stake 7 due west approx 245 yds; thence to stake 8 due south approx 440 yds; thence to stake 9, S 20 degrees W, approx 240 yds; thence to stake 10, S 70 degrees E, approx 330 yds; thence to stake 11, S 15 degrees W, approx 265 yds, stake on right side of Bullock Rd on bank of small creek; thence to stake 12, south easterly to range Rd, approx .7 miles, stake located on right side of Bullock Rd at jct. E. Range & Bullook Rds; thence to stake 1 north up E, Range approx 1.5 miles thus closing the area.

All lands within areas "C" and "C 1" as described on the above drawing, consisting of tracts D-60-G, D-61-G, D-62-G, F-24-G, F-23-G, F-21-G, F-19-G, F-18-G, F-20-G, F-22-G, F-87-G, F-17-G, F-16-G, F-15-A&G, F-15-G, F-67-A&G, F-38-G, F-12-G, F-11-G, F-8-G, F-14-G, F-9-G, F-10-G, D-67-G, D-65-G, D-63-G and that portion of tracts F-25-G, D-59-G, D-58-G, D-64-G, D-66-G, F-81-G, F-67-G, and F-33-G that fall within the boundaries of "C" and "C 1" are restricted against any sub-soil operations what-so-ever. All other lands in tracts F-25-G, D-58-G, F-81-G, F-67-G, F-33-G, D-64-G, and D-66-G will not require additional dedudding to render safe for public use.

AREA "C" Staked with 7 stakes marked as in "A" above, stake 1 located on right bank of Cemetary Rd, approx 220 yds west of E. Range Rd; thence to stake 2, westerly direction up Cemetary Rd, approx 1.3 miles, stake on right bank of Cemetary Rd; Thence to stake 3 westerly direction approx 660 yds and ends at bank of Knap of Reeds Creek, stake located on east bank of Creek; thence to stake 7 following a northerly route and bodering on the National Guard area all the way to Bullock Rd, stake is located on left bank, approx 2.2 miles up Bullock Rd; thence to stake 5, located on left bank of Bullock Rd at jct of E. Range and Bullock Rds; thence to stake 6 in a southerly direction down E. Renge Rd, approx .5 mile, stake located

C-E-R-T-I-F-I-C-A-T-E--O-F--C-L-E-A-R-A-N-C-E (Cont'd)

. . . . A

on west bank of \mathbb{E}_{\bullet} Range Rd; thence to stake 7 due west approx 615 yds; thence to stake 1 S 48 degrees \mathbb{E}_{\bullet} approx 480 yeds to Cemetary Rd, thus closing the area.

"C 1" Staked with 5 stakes, stake 1 on bank of Cemetary Rd in tract D-59-G; thence to stake 2, S 4 degrees E, 352 yds on property line between tracts D-59-G and D-52-G; thence S 85 degrees E, 165 yds to stake 3 at S.W. corner of tract D-81-G; thence to stake 4 follow tract line of D-81-G and D-59-G, N 4 degrees E, 110 yds; thence to stake 5 along line between D-59-G and D-53-G N 37 degrees W, 300 yds; thence down road N 74 degrees W, 75 yds to stake 1, thus closing the area.

All lands within area "D" as described on above drawing, consisting of portions of tracts E-83-D&P and E-79-D that fall within the boundaries of area "D" are restricted against any sub-soil operations what-so-ever. All other lands in tracts E-83-D&P and E-79-D will not require additional dedudding to render safe for public use.

AREA "D" Staked with 5 stakes marked as in "A" above, stake 1 located in north easterly direction up old road from Copleys Corner approx 5/8 mile, stake located in edge of road. This rd is known as "Old Oxford Hillsboro Road; thence to stake 2, north easterly direction up road, approx 1050 yds; stake located at culvert; thence to stake 3, S 18 degrees E, approx 325 yds, stake at edge of woods; thence to stake 4, S 35 degrees W, approx 220 yds, stake in edge of woods; thence to stake 5, S 54 degrees W, approx 460 yds, stake located at brench; thence to stake 1, N 22 degrees W, approx 485 yds, thus closing the aree.

All lands within area "E" as described on above drawing, consisting of tracts F-88-G, F-72-G, F-74-G, F-70-G, F-71-G F-85-G and F-86-G that fall within the boundaries of area "E" are restricted against any sub-soil operations what-so-ever. All other lands in tracts F88-G, F-71-G, F-70-G and F-86-G will not require additional dedudding to render safe for public use.

AREA "E" Staked with 7 stakes marked as in "A" above, stake 1 located on west bank of S. Range Rd, approx 1.9 miles south of jct Crawley and E. Range Rds; thence to stake 2, N 45 degrees W, approx 610 yds; thence to stake 3 in a westerly direction following Old Road, approx 815 yds; thence to stake 4 north (due) approx 1144 yds; thence to stake 5, N 56 degrees W, approx 440 yds to Crawley Rd stake; thence to stake 6 in a north easterly direction down Old Crawley Rd, approx 1700 yds, stake on south bank of Crawley Rd; thence to stake 7, along property line between tracts H-59-G and F-88-G a distance of approx 308 yds; this stake on Range Rd; thence to stake 1 in a southerly direction down E. Range Rd, approx 1.6 miles, thus closing the area.

All lands within area "F" as described on above drawing, consisting of portions of tracts D-50-G, D-52-G and D-80-G are restricted against any sub-soil operations what-so-ever. All other lands in tracts D-50-G, D-52-G and D-80-G will not require additional dedudding to render safe for public use. E-6

C-E-R-T-I-F-I-C-A-T-E-O-F--C-L-E-A-R-A-N-C-E-(Cont¹d)

AREA "F" Staked with 5 stakes and marked as in "A" above, stake 1 located .3 mile west of E. Range Rd in tract D-50-G; thence N 20 degrees W, 264 yds to stake 2 located at oak tree on property line between tracts D-50-G and D-52-G; thence N 50 degrees W, 187 yds to stake 3 located on property line between tracts D-80-G and D-52-G; thence S 50 degrees W, 198 yds to stake 4 located in SW corner of tract D-50-G; thence S 20 degrees E, 352 yds to stake 5 in property line of tracts D-49-G and D-50-G; thence N 78 degrees E, 330 yds to stake 1, thus closing the area.

6 April 1950

/s/ Richard W. Knox RICHARD W. KNOX lst Lt., Corps of Engineers 9800 TSU-CE, Detachment No. 8 Bomb & Shell Disposal Team Commanding

CERTIFIED TO BE A TRUE COPY:

THOMAS V. DYE, SR.

Administrative Assistant Military Construction Branch DEDUDDING DATA

Date 6 Apr11 1960

1.	Yame and location of Army installation: Gung Butner, M. C., Infuntry Ground Forse Chap - 40,864 Acres.
2.	Name and location of artillery and bombing ranges:
	Chap Butner Range, Derhame Creaville and Persons Counties, He C.
3.	Number and area in acres of each target or impact area:
	Ares of Hanges 23,000 Acres
4.	What type terrain are ranges on; i.e., flat, mountainous, barren, wooded,
	undergrowth. grass. weeds. etc?
	Billy, 2 moustains, minne, fist lands, model & heavy versistion.
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9 .	At what times of the year is weather suitable for search and aemolition
	Crews to work? Data Minton and Andrea
~	THEAD PERSON AND WALFER
6.	Names of towns or settlements and approximate distance from the ranges
	for the billeting of disposal teams of 1 Officer and 10 men and possible
	search crews of various sizes:
	Creednoor, Jartan and Oxford, I. C.
7.	Type of practice performed and type of projectiles and/or acres of the
	target or impact area have been cleared and by whom?
	Infactry and Artillary - Grander, rockets, mortars a Heritzers
8,	(a) How much of total range area not used and how many acres of the target
	or impact area have been cleared and by whom?
	23,000 Aeres used - Captain Regner & Det. 4 sieuret one target areas
	(b) Has a certificate of clearance been submitted and to whom? Yes, Det. 6 North & Shell 12 specel Tenne
9.	Full name and address of present or past Range or Ordnance Officer, or
	someone familiar with the range activities during the training period
	or during the dedudding operations:
	lamoun
10.	Full name and address of present or past Post Engineer, or someone taking
	over the duties.
	increase.
17.	All available range and target area mang should have the known or suggested
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10.	Are mere vehicles available for transportation of search personnel and
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14.	RUBATKS:
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Report Prepared by THOMES V. DYE, SR. Chief, Deduding Section, Corps of Engineers U. S. Army, Savannah District

Sevenneh, Georgia
CAMP BUTWER, NORTH CAROLINA

PRELIMINARY INSPECTION:

A preliminary inspection was sonhoosed in Marsh 1949 by Daptain Mediator, Commanding Officer of Detschwart B, Somb and Shell Disputil Comm. and Mr. 7. W dys, Sr. of the Sayannah District Office. A Certificate of Clearands had previously pass insued by Captain Magner, Captain Mediatoria predecessor, but this inspection disclosed that the antire range area of 25,000 anrea, with the exception of Spproximately 5,000 merges, was still heavily contaminated with appletive and a

are was not contaminated, it was decided as a presention to detail scarsh the matire #5,000 acres.

2. DEDUDDING OPERATIONS

a. On 15 April 1949, thirty civilians were employed by Furshese and fire and deducing operations began that data. Of the thirty civilians, two were employed as Foremen, one as a Trunk Driver, one as Auto Mochania and 26 as Laborare for searching and gathering military sarap. A bivilian as Froject Engineer was in overall charge.

b; Iwo mlisted men from Detschment 8 were assigned to the project as tephnical advisors and to detonate all dude discovered. Periodic inspect tions were made by the Componing Officer of Detschment 8 and District Office personnel as the work progressed.

c. During the temporary duty of Detschment 5 to the Breat Lates . Division, military personnel from Detschment 15 were assigned to the project.

de The entire range had been burned of underbruch approximately two weeks prior to dedudding by the Ner Assets Administration Custodian, therefore, searching began immediately. On 21 July 1949, dedudding was discontinued until 21 Movember 1949, due to the new growth of underbruch which could not be burned.

to. As operations continued on El November 1949, difficulties ware encountered in burning the heavy vegetation. Dense growths of briars and other brush made burning extranely difficult and many areas had to be spot burned, thereby slowing down the progress of the project. New equipment has recently been devised for burning this type of growth and it is expected this problem will be eliminated in inture dedudding projects.

S. COMPLETION OF PROJECT:

a. The dedudding was completed on 6 April 1950.

b. Actual working time was eight months.

4. EQUIPMENT AND PACILITIES UTILIZED:

The states are seen to be

a. In webicles were utilized comprising dump trucks, curgoes, weapons carriers, "Joeps" and pick-up trucks.

b. Office space and garage for storing vehicles were furnished by the State of North Carolina. The facilities were on Camp Butner and owned by the State of North Carolina.

الأبار الأدبية حمصر وحاديهما

5. DUDS DISCOVERED:

a. 1366 high explorive missiles were discovered and destroyed. The missiles were comprised of hand granades, rifle gramades, rockets, 60 and 81mm mortars; 105mm, 155mm and 240mm Howitzers.

6. MILITARY SCRAP:

a. Twenty-two long tons of practice missiles comprised of missiles listed above were gathered and stockpiled. As the practice missiles were stockpiled, they were punctured with holes. This step was taken as a safety measure in disposing of the scrap by sale.

b. All military sorap was disposed of at the completion of the job by the Salvage Officer of this District by a competitive bid sale.

7. COST OF PROJECT:

a. Estimated Cost - \$53,698.00

b. Actual Cost - \$50,000.00.

8. AREAS RESTRICTED:

a. Within the 23,000 acres of range, 6 areas were restricted. These areas are described on the attached Certificate of Clearance and are outlined on the attached Drawing No. 659-14. The areas are referred to as "A", "B", "C", "D", "E" and "F".

- (1) Area "A" was an artillery impact area. 394 HE duds were found and destroyed.
- (2) Area "B" was a bazooka and rifle grenade impact area. 158 HE duds were found and destroyed.
- (3) Area "C" was an artillery and rifle grenade impact area. 186 HE duds were found and destroyed.
- (4) Area "D" was a moving target area (Jeeps and Tanks). 158 HE duds were found and destroyed.
- (5) <u>Area "E"</u> was a bazooka and rifle grenade impact area. 145 HE duds were found and destroyed.

(6) Area "F" was a hand grenade court. 57 HE duds were found and destroyed.

9. PERIODIC REINSPECTION:

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a. The six restricted areas have been set up for semi-annual inspections. These inspections will be made until such time as the areas can be placed in an isolated Dud Category.

mas U. HOMAS V. DYE. SR.

Administrative Assistant Chief, Dedudding Section $f_{1} = f_{1}$

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Mr. Tommie Terry, Ammunition Destroyer Foreman Assigned Detachment 8, McMinnville, Tenn.

Mr. Lawrence E. Walling Laborer, Assigned Detachment 8, NoMinnville, Tenn.

Mr. Hershel D. Bouldin Laborer Assigned Detachment 8, MoMinuville, Tenn.

Mr. Hanry C. Pettit.

Assigned Detachment 8, Molinnville, Tenn-

Mr. Jessie R. Shockley, Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. Lawsen I. Allen, Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. Clifford Templeton Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. Robert L. Templeton Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. C. B. Simmons, Laborer Assigned Detachment 8, MoMinnville, Tenn.

Mr. James I. Howard Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. William C. Christian, Laborer Assigned Detachment 8, McMinnville, Tenn.

Mr. Carl E. Howard Laborer Assigned Detachment 8, MoMinnville, Tenn.

Mr. Herbert Clendenen Laborer Assigned Detachment 8, McMinnville, Tenn. Mr. Robert Christian Laborer Assigned Detachment 8, McMinnville, Tenn. Mr. Frank T. Smith

Laborer Assigned Detachment 8, MoMinnville, Tenn.

Mr. Thurman M. Hodges Laborer Assigned Detachment 8, MoMinnville, Tenn.

Mr. Walter E. Howard Laborer Assigned Detachment 8, McMinnville, Tenn.

Sumunition Destroyer Foreman Signal Detachment 13, Newberry, S. C. SAVANHAH DI STRICT CORPS OF ENGINEERS DERUDING CASE NOTICE OF Technical Information P. O. Box 889 Savannah, Ga.

FOR RELEASE; 24 April 1950

DEDUDDING CAMP BUTNER, N. C.

Dedudding operations have recently been sempleted on the ranges at Camp Butner near Oresididar, M. U., according to announcement made by dt. Gol., Robert Erlenkotter, District Engineer; Dorps of Engineers, DieS. Anny, Savanah; Sa. oth Approximately 25,000 wores wate coardied and bloared of dengerous sized les. Tons of practice missiles ware gathered and disposed of and several thousand high explosive dude were destroyed in place. The dude were comprised of fand grandes, Tifle grandes, mortars, rockets and Howitzer shells up to 240 millimeter. Any one of the dude could have exploded at the slightest disturbance and could have caused serious injury or tragedy to the persons disturbing it.

The land has now been turned over to the Federal Land Bank. That agency is now in the process of disposing of the land through sale to the former owners and the general public. There are several areas that will be disposed of with a restriction placed on them against sub-surface use. These areas received a heavy concentration of fire of high explosive shells and there is a great possibility of unexploded duds remaining underground.

Colonel Erlenkotter pointed out that there is also a possibility of shells remaining on the land and warned against the inherent danger of handling or disturbing them. He stated that in the event of anyone discovering a missile or object resembling a missile, it be reported immediately to the Savannah District, Corps of Engineers, or to the law enforcing agency in the locality in which the mibsile is found.

MORE

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STATURE AND 0. 304 899 Office of Seciantum Information CONTRA ON MENTHERS TOTALS IN THERE

DEDUDDING CAMP BUINER, N. C. (cont'd - sheet 2)

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He further stated that socidents have been caused as a result of individuals removing explosive missiles for sale to scrap dealers, and asked that sorap motal dealers cooperate by refusing to buy military sorap other than through a Government sale. Just recently an extremely dangerous 105 millimeter Howitzer shell was discovered in a scrap dealer's office in Burham. The shell was being kept as a souvenir and had been purchased as sorap motal.

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SUBJECT: Report of Semiannual Inspection, Asstricted Areas, Camp Bather Military Reservation, Barnas, Borth Camplina

 Pursuant to instructions in peragraph No. 1 of letter datai
December 1955 from Division ingineer, Louth Atlantic Division to the District engineer Sevenneh Georgie District, File 002 Dedudding, Subject: "Report of Monual Inspection, Camp Butner Cilitary Reservation, North Carolina", inspection of Subject facility was completed 30 Arril 1959.

2. Encerts to Camp Sutner, Borth Carolina, the undersigned contacted 1st Lt. N. S. Spriver, Commanding Officer, Bolth Ordnance Setechment (20) Team at Fort arange, N. C., and make arrangements for the transportation of disposal specialists and explosives from fort bragg to Camp Lutner, in the event high emicaive projectiles were found during the estimated inspection of subject facility.

3. During the inspection of restricted areas shown in green on the attached Audited app No. 3037, Camp Butner Military Hesorvation, the following high explosive artillary projectiles were found and destroyed on the various tracts indicated:

Restricted Area	Tract No.	Owner and Address	Type ci Projectile Found
юСн	ິ <b>−1</b> 0 ໂ	W. T. Gentt 2103 Club Blvd. Durham, N. C.	1 H. E. 155 mm 1 H. E. 105 mm
•C*	-12-C	W. T. Cantt 2103 Club Elvf. Durham, N. C.	1 H. E. 155 mm 1 H.E. 105 mm 1 H.E. 37 mm
**	2 <b>-2</b> -0	Willie Allen RFD No. 4 Roxbero, N. C. L. T. Gray (tenant) R.F.D. No. 1 Rougement, N.C.	1 E.E. 105 mm
•	hali?al.	Frank Avery AFD No. 1 Nounceacht. N.C.	h H.S. 37 mm

* The four H.E. 37 nm listed above were complete rounds (Case and Projectile) found beneath the surface of unrestricted land while same was being prepared for spricultural purposes.

L. The above explosive projectiles were reported to the undersigned by the various listed land owners and tenants. Each was queried as to the type of lend on which the projectiles were found, whether woodland pasture or agricultural; also, whether found on the surface of the ground or uncovered

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durin the tilling of the soil. Information actual we that nine (9) of the tan (10) listed to be projectiles were uncovered during the tilling of the soil.

5. Open completion of the inspection, all explosive projectiles found and flagged were safely detenated by Lt. C. . Seriver, L. C., Carl C. Banks and SP/C L. T. Johnson, Buith Urchance Detachment (DD), Department of the Army personnel presently stationed at fort orage, Earth Carolina.

6. Inspection further disclosed that a productely forty (12) to (51) per cent of the entire restricted land at this termer installation is cleared land presently being utilized as familians or personent improved pasture for presing livestock.

7. The unimproved parties of the restricted area is classed as open woodland. Approximately fifty (50) per cent of this total area is accord with pine or varies of timber of more sentable value; the remaining portion being lightly covered with nonnormantable timber and dense undergrowth. The owners of the more mantable timbered area stated they would not consent to the burning of underbrush and dead vegetation in these areas.

8. All present landowners and tenants of landowners within the restricted area and adjacent lands were verbally advised by the undersigned of the potential danger of handling my type c. explosive munition, and the danger involved in disturbing the subsurface of land on which restricted use has been placed by the communit. The land war disposed of subject to the restrictions montioned above and the deeds of conveyance contain a save and hold harmless clause to the Government with respect to all restricted lands.

9. In order to minimize the existing potential danger in the handling of explosive minimizer which apparently is being done at the present time, there is attached a suggested form latter and a complete list of names and addresses of all hand concers and tenants of hand on which land use restrictions were placed by the overment. It is the opinion of the undersigned that this form letter reparty circulated would have a direct effect upon the present land concers and tenants of land within the restricted boundary of this former military reservation and edjacent lands.

10. In view of the finding developed during the recommaissance and semiannual inspection recently completed indicates only a scall percentage of the woodland areas on which visual surface inspection could be conducted, and the fact that a reximitally eighty per cent (30%) of the total projectiles found during the previous and recent annual inspections had been uncovered by landoumere and tonants during the tilling of the soil on former cleared land or during the clearance of additional woodland (which would indicate requirement for subsurface inspection), it is the spinion of the undersigned that recommendation for additional visual surface inspection "restricted areas would not be feasible at this time. It is believed "e results decired could not be obtained from visual surface inspecentiations, sufficient to warrant the expenditure of funds. It is recommended, therefore, that the present scheduled semiannual inspection of the restricted areas at this former solitary reservation be continued.

11. Photographs of explosive projectiles found and destroyed on restricted land are also attached.

ALL JOHH CAPPEIL / 1.

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E-9

Range Clearance Officer

South Atlantic Division

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- 1. Range Map
- 2. List of tract owners and tenants
- 3. Photos
- 4. Ltr notice to landowners

15 May 1959

TO: Owners and Tenants of Restricted Land

This will confirm the recent visit of a representative of this office in the vicinity of Durham, North Carolina, during which you or parties closely associated with you were contacted with reference to the contaminated condition of those lands which formerly comprised the impact areas of Camp Butner Military Reservation and which have since been acquired by you as a former owner of those lands or through resale or lease from the respective former owners.

Your attention is invited to the fact that the property comprising former impact areas of the above installation was sold by the Government with the provision that use of the property be limited to surface operations only. This provision is contained in the instrument of conveyance given by the Government applicable to each parcel of land located in the former impact areas. Under this provision you are prohibited from plowing, disking or employing any other farming method or operation which would result in the disturbing the surface of the contaminated lands.

Should unexploded shells and/or other types of explosive devices be found on your property or on other property in the vicinity, your cooperation is requested in reporting the existence of these shells to this office at the earliest possible date in order that appropriate disposal may be accomplished.

In order to insure a continued safe utilization of the affected areas, your compliance with the restrictions imposed upon those areas is earnestly requested.

Very truly yours,

ROBERT C. BAHR, CE Colonel, Corps of Engineers District Engineer

### HOTICE

TO OWNERS OF THOSE LADDS WARDE FOR FALLY CLEARED FORTHON, WE THE CASP BUTHER MILITARY RESERVATION AND TO ALL OTHERS CONCERNED

In the event unexploded shells and/or other types of explosive devices evention on your lands or on other lands in the vicinity, please complete the attached form letter and return same in the addressed envelope which is furnished for this purpose. The envelope requires no postage.

Upon discovery of any unexploded shells, your assistance is requested in marking or noting their location in order that the representative of this office when contacting you may be readily informed as to the exact location of the shells. UNDER NO CIRCUMSTANCES SHOULD THE SHELLS BE DISTURBED OR IN ANY WAY TAMPERED WITH, PENDING THE ARGIVAL OF THE REPRESENTATIVE FROM THIS OFFICE TO EFFECT DISPOSAL OF THE SHELLS.

Should discovery of any unexploded shells be made in an area which in your opinion, constitutes an immediate danger to the continued safety of residents in the vicinity you are requested to contact the office of the District Engineer, Corps of Engineers, Savannah, Georgia, by telephone (Adams 3-8822, Extension 226) at the earliest possible moment.

F-9

DATES

District Engineer Davannah District Corer of Engineers 1. C.Dox 639 Savernah, Ceorgia ATT:: Mr. Themas V. Dye heal Estate Division

Dear Sir:

This is to advise that the undersigned has found unexploded shells and/or other types of explosive devices on lands formerly comprising a portion of Camp Butner Military Reservation.

A representative of your office may contact me at the following address in order to obtain additional information as to the exact location of these shells.

Address:

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Signed:

Freeent Owners of Nectrictel Lend - Camp Dather Alltry Necervation Durham, North Carolina

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Present America Amant	Address
C. F. Hester	501 Reams Avenue, Roxborc, 1. C.
Frank Avery	RED Po. 1, nongerent, C.
Willie Allon	R.B.F.C. L. Rexbord, C.
L. T. Gray	RFD Ac. 1, kougemont, . C.
Jack Okley	NFD ho. 1, hoagement, h. U.
Wayne Okler	RED No. 1, House Lat, . 4.
Dr. L. Corr	700 Dept Latl Bank Eld, Durham, M. C.
Andrew Bulloch	RED bc. 1, Stam, . C.
i. D. Hester	RPD Do. 2, Gardle Fills, J. C.
J Watkins (Mrs.)	Sten, C.
Burene bullock	RFD no. 1, Stem, . C.
Olive bullcck	Shoofly, t. C.
George A. Parrish	RPD to. 1, Stear, N. C.
C. S. Parrish	RFD No. 1, Stor, H. C.
Andrew Bullock	Stem, 1. C.
W. T.Gentt	2403 Club Slvd, Durnam, L. C.
L.D.Franklin	Stera, C.
Richard H. Hamme	Okford, J. C.
Sim Harden	RPD Ko. 1, Stem, C.
O. T. Hangum	Stem, L. C.
W. J. Collier	Sterr, E. C.
X. D. Jones	Stem, C.
Leo Jackson	RFD No. 1, Stem, N. C.
Carolina Pyrophyllite Co.	Greensboro, H. C.

.



View of Exclosive Projectiles found during Semiannual Inspection, Camp Butner, N. C. These h. L. Projectiles were moved by 2.0.D. Team to area designated by Land owner for detonation.

SUBJECT: Report of Seciennual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

1. Fursuant to instruction in 1st Indorsement from the Division Engineer, South Atlantic Division, to the District Engineer, Savannah, Georgia, District, dated 4 December 1956 (B/L 30 October 1956), File SADEN 602, Dedudding, Subject: "Inspection of Restricted Areas", inspection of subject installation Was completed 22 January 1960.

2. During the inspection of the restricted areas shown in green on the attached Audited Map No. 3037 (Camp Butner Filitary Reservation), all present Landowners with the exception of two (2) were contected. Each owner and tenant of land owners were interrogated as to their knowledge and location of any unexploded shells or projectiles within the boundary of this former military reservation. As a result of this interrogation, aleven of the twelve high explosive projectiles destroyed in place were found by property owners or tenants.

3. To inform the general public, trespassers, landowners and tenants of landowners of the existing potential danger of unexploded projectiles in this area, permission was requested from present landowners to erect standardized signs of warning on perimeter of each restricted area. These signs were shown to each landowner and verbal permission was given the undersigned in the presence of Mr. George E. Highes, a representative of the Corps of Engineers, Savannah, Georgia, District, to erect the signs which read as follows:

## DANGER

YOU ARE ENTERING AN AREA FORMERLY USED AS A MILLITARY FIHING RANGE. UNEXPLODED BOMBS AND SHELLS MAY REMAIN IN THIS AREA.

SHELLS AND BOMES ARE DANGEROUS. DO NOT HANDLE.

IF FOUND PLEASE MARK THE EXACT LOCATION AND IMMEDIATELY FURNISH ALL INFORMATION TO

REAL ESTATE DIVISION, U.S.ARMY ENGINEER DIVISION, SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS, P. O. BOX 1889, ATLANTA 1, GEORGIA

4. Inspection of the restricted area disclosed the resale of several tracts of land since date of last inspection, 15 May 1959. The new owners were contacted and informed of the contaminated condition of the land recently acquired and of the restrictions to surface use only which were placed thereon by the Government prior to the time that this installation was declared excess and sold to prospective purchasers who were fully informed of its contaminated condition.

5. Enroute to Comp Butner, the underrigned contacted 1st Lt. W. E. Shiver, Commanding Officer, 864th Ordnance Detachment (ED) Team at Fort Bragg, N. C., and arranged for the transportation of explosives and the assistance of disposal specialist in the event high explorive projectiles were found at subject installation. The following high explosive projectiles were found and destroyed in place on the various tracte listed:

Restricted Area	Tract No.	Owners Address	Type of Projectile Found
<b>*</b> ⁴ "	8 <b>-2-</b> 6	Willie Allen, Rt. 4 Roxboro, N. C.	1 - E.E. 155 m
₩A1	H <b>-10-</b> G	C. W. Hester 501 Resms Avenue Roxboro, N. C.	1 - H.E. 105 mm
* <u>*</u> *	H <b>-1-</b> G	Richard H. Hanne 912 Hillsboro Ext Oxford, N. C.	1 - H.E. 105 mm 1 - H.E. 37 mm 1 - H.E. Rifle Grenade 3 - H.E. 2.36 inch Rockets
# En	F-86 G	Corolina Pyrophyllite Co. Greensboro, N. C.	1 - H.E. 2.30" Rocket
Unrestricted	<b>J-8-</b> G	Raymond L. Hobgood Rt 1 Rengement. N. C.	3 - H.S. 61 xm Mortars

6. The three H.E. 81 mm mortars listed above were found during the excavation of a small area of land for a stock watering pend. These mortars were apparently buried in shipping containers by unknown persons, as parts of same were found near-by. The P. D. N-45 Fuze, safety pins and percussion primer caps had not been disturbed. Also, the mortar propallent charge was still active. Tract No. J-6-G is located approximately eight hundred fest morth of restricted area "A". No evidence of other explosives was encountered on this tract.

7. A review of previous annual and semiannual inspection reports of subject installation disclosed that sixty nine (69) high explosive projectiles have been found and/or reported by others since date of first inspection of subject restricted areas was node by the undersigned 15 February 1957. Same ware destroyed in place without damage to life or property.

8. In view of the number of high explosive projectiles found and destroyed at this former military reservation, it is recommended that the present semiannual inspection of subject facility and that notices to landowners and tenants be continued as it is the opinion of the undersigned that these notices properly distributed to persons previously contacted during annual inspections will tend to minimize the existing potential danger of unexploded shalls on present restricted areas. It is further recommended that the signs of warning to the general public, trespassers, landowners and tenants of landowners recently

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erected on the boundaries of the present restricted areas of subject installation be maintained in a legible condition at all times.

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9. Photographs of explosive projectiles found and destroyed during the inspection are also attached.

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South Atlantic Division

3 Incls

- 1. Range Map
- 2. Property Owner List
- 3. Photos of Explosive
- Projectiles

5 February 1960



Signs of warning being erected on boundaries of all restricted areas within the South Atlantic Division.



High explosive 2.36" rockets with rifle grenade found during annual inspection.



H.E. 155 mm Projectile found on restricted Area A, Tract H-10-G.



H.E. 105 mm removed from Tract No. H-1-G, 3 H.E. 81 Mortars removed from Tract J 8 G



H.E. 155 mm found during cultivation of land, restricted Area A, Tract No. H-2-G.



Personnel from Ft. Bragg, N.C., who assisted in the detonation of all explosive munition.

cent Owners of Restricted Land - Camp Butner Military Recervation Durham, North Carolina

Present Ganer or Tenent	Address
Mr. H. R. Carrington	Sten, N. C.
Fr. C. H. Speter	501 Reams Areque, Baxboro, N. C.
Hr. Frank Wary	RFD No. 1, Rougemont, N. C.
Mr. Willie Allen	RFD No. 4, Roxboro, N. C.
Br. L. T. Cray	RFD No. 1, Rougemont, M. C.
Mr. Jack Oklay	RFD No. 1, Bougemont, N. C.
Hr. William Okley	RFD No. 1, Rougemont, N. C.
Dr. N. L. Cherry	700 Dept Matl Bank Eldg, Durham, N. C.
Mr. Andrew Bullock	RFD No. 1, Sten, N. C.
Kr. H. L. Hester	RFD No. 2, Hurdle Mills, N. C.
Mr. Sugene Bullock	RFD No. 1, Ston, N. C.
Mr. Ollie Bullock	Shoofly, N. C.
Mr. George A. Parrish	RFD No. 1, Sten, E. C.
Mr. C. S. Perrish	RFD No. 1, Ston, N. C.
Mr. W. T. Cantt	2103 Club Hlvd, Durhan, H. C.
Kr. L. D. Frenklin	Sten, N. C.
Kr. Richard H. Hanne	Okford, N. C. (912 Billsboro Ext.)
Mr. Sim Harden	RFD No. 1, Stem, N. C.
Mr. O. T. Mangum	Stem, N. C.
Kr. W. J. Collier	Stem, N. C.
Hr. V. B. Jones	Sten, N. C.
Mr. Leo Jackson	RFD No. 1, Stem, N. C.
Carolina Pyrophyllits Co.	Greensboro, N. C.
Reymond L. Hobgood	Rt. No. 1, Rougemont, N. C.

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SU JECT: Report of Lixth Inspection, Restricted Areas, Camp Butner, Former Military Reservation, Burham, North Carolina

1. Pursuant to instructions in 1st Indorsement from the Division Engineer, South Atlantic Division to the District Engineer, Savannah, Georgia District, dated & December 1956 (B/L 30 Oct 56), File SADRM 602 Dedudding, Subject: "Inspection of Restricted Areas", the inspection of subject installation was completed 22 September 1960.

2. Previous to the annual scheduled inspection of subject facility, the undersigned contacted Captain Barb, Commanding Officer, Explosive Ordnance Detachment (EOD), Ft. McPherson, Atlanta, Georgia, through whose assistance additional personnel from the 864th E.C.D. Team, Ft. Bragg, North Carolina, was furnished the Corps of Engineers for the inspection of all contaminated areas of subject artillery range.

3. The services of the E.O.D. Team, consisting of 1st Lt. W. K. Shriver, Sgt. Carl O. Banks, SP/5 Ronald G. Horner and SP/4 Floyd A. Kittle, were very helpful during the inspection of all restricted areas and the detonation of explosive projectiles encountered during the inspection. Explosives required to detonate the high explosive projectiles found, were transported to Camp Butner in vehicles assigned to the E.O.D. Detachment at Ft. Bragg.

4. During the inspection of the restricted areas and other lands on which explosive munition have been found during previous inspections, each landowner or tenant of landowners was interrogated as to his knowledge and location of any unexploded shells or projectiles within the boundary of this former military reservation. As a result of this interrogation and the searching of restricted areas, seventeen (17) high explosive projectiles as listed below were found and destroyed in place.

RESTRICTEI AREA	TRACT NO.	OWNER	TYPE OF PROJECTILE FOUND
"An	H <b>-10-</b> G	Willie Allen Roxboro, N. C.	1 - HE 155 mm 1 - HE 37 mm 1 - HE 40 mm
u Ca	D-66-G	W. T. Gantt 2403 Club Hlvd.	3 - HE 155 mm 2 - HE 105 mm
	F <b>-11-</b> G	Durham, N. C.	1 - HE 105 mm
	F-12-G	-	1 - HE 155 mm
	<b>D-67-</b> G		1 - HE 155 mm
	<b>F-10-</b> G		1 - HE 105 mm
ыDи	F-19-D	Mr. Howeston RFD-1 Rougemont, N.C.	1 - HE 37 mm
UNRESTRICTED	F <b>-77-</b> G	Mr. Hilton RFD-1 Hougemont, N.C.	1 - HE Hand Grenade 1 - HE 2.36" Rocket
-----------------	-----------------	-------------------------------------	--------------------------------------------
UNREST/LI CTED	H <b>-3-</b> G		1 - HE 81 mm
Picked up at Na	tional Guard	1 Office	1 - HE 37 mm

5. The increased number of explosive projectiles found and destroyed during this inspection is primarily attributed to the fact that several owners of lands on which restricted use was recommended by the Government, have disregarded the recommended restriction to surface use only on certain areas as each year they continue to farm cleared areas and clear and place into improved pasture additional wooded lands which are presently restricted to surface use only. Disposal of these lands by the Government was subject to their contamination and the deed of conveyance contains a save and hold harmless clause to the Government with respect to all present restricted areas.

6. Standardized signs of warning erected on the perimeter of each restricted area during the last semiannual inspection of subject facility appears to be in perfect condition.

7. Since the date of the first inspection of this former artillery range by the undersigned (15 January 1957), a total of eighty six (86) high explosive projectiles have been found and/or reported by others. These high explosives ranging from hand grenades to 240 mm projectiles were destroyed in place. Personal contact with landowners and tenants of landowners was made. Each was told of the potential danger in handling unexploded projectiles of any type. It is the opinion of the undersigned that through these personal contacts with landowners and the erection of the standardized signs of warming, the potential hazard to life and property of residents of this former artillery range is definitely being reduced.

8. In view of the fact that additional personnel was available for this inspection (E.O.D. Team, Ft. Bragg), portions of the contaminated areas which were previously spot checked were given a cereful visual inspection. Wooded areas covered with dense undergrowth and vegetation, were only spot checked. Since permission to control-burn these areas can not be obtained from all property owners of restricted land, it is the opinion of the undersigned that the present scheduled semiannual inspection of all restricted areas should be continued and that the restricted use of these areas not be lifted at this time.

9. Photographs of explosive projectiles found and destroyed (with range map showing location of each projectile destroyed) are attached.

2 Incls

1. Photo of Explosives 2. Renge Men APPROVED. 100CT 1960 2. Range Map FOR THE DIVISION KNOINDER

South A

N L. CAMPLELL

Range Clearance Officer South Atlantic Division

30 September 1960 <

Real Estate The en acruf.

Chief, Management & Disact Pranch





let Lie W. E. Shrimmending Officer Solth Explosive Ordnamosment, Ft. Bracg, H. C.

Egt. Carl C. Bankseive Specialist, who detonated all iles found. SUBJECT: Report of Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

1. Pursuant to instructions in 1st Indorsement from the Division Engineer, South Atlantic Division, to the District Engineer, Savannah, Georgia District, dated 4 December 1956 (B/L 30 October 1956), File SADRM 602, Dedudding, Subject: "Inspection of Restricted Areas", inspection of subject installation was completed 31 October 1961.

2. Enroute from Savannah, Georgia to Camp Butner, North Carolina, the undersigned contacted the Commanding Officer, 864th Ordnance Detachment, Fort Bragg, N. C. Arrangements were completed for the transportation of explosives and the services of EOD personnel to assist in the location and detonation of unexploded projectiles encountered at Camps Butner and MacKall.

3. Upon arrival at Camp Butner, each landowner and tenants of landowners were contacted. From these inquiries and visual spot check inspections of restricted areas, sixteen (16) high explosive projectiles, listed below, were found and destroyed in place with the exception of the one (1) 240 mm projectile which had to be moved due to the fact that it was found on the back slope of State-maintained Highway No. 1140, Person County, North Carolina. Detonation of this shell which was made visible through erosion of the ditch bank would have destroyed the road bed of this public highway.

RESTRICTED AREA	TRACT NO.	ADDRESS OWNER OR TENANT	TYPE OF PROJECTILE
C	F <b>-</b> 10-G	W. T. Gantt 2301 Club Blyd.	1 - HE 155 mm
C	F-66-G	Durham, N. C.	2 - HE 155 mm 1 - HE 105 mm
A	H <b>2-</b> G	State Highway No. 1140	1 - H E 240 mm
A	H <b>-2-</b> G	L. T. Gray Rt. No. 1 Rougemont, N. C.	1 - HE 105 mm
В	F-28-G	Hugh Kooney Roxboro, N. C.	1 - HE 81 mm 1 - HE 2.36 inch Rocket

Owen Howerton Rt. No. 1 Rougemont, N. C.

E-79-D

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1 - HE 40 mm 1 - HE 2.36 inch Rocket 5 - HE 37 mm

4. In addition to the explosive projectiles listed in this report, one (1) HE 105 mm projectile was destroyed by Captain White, Commanding Officer, 864th EOD Team, Fort Bragg, N. C., 20 April 1961. This shell was reported to the District Engineer, Savannah District, by Mr. L. T. Gray, Route No. 1, Rougemont, N. C. During the recent inspection, Mr. Gray was contacted and stated that the shell was found on restricted area "A", Tract No. H-10-G.

5. During the inspection of the six (6) restricted areas at subject facility, damaged standardized signs of warning previously erected on the perimeter of each restricted area were replaced with new signs.

6. Annual inspection reports of subject facility disclose that a total of one hundred and three (103) unexploded projectiles have been found and destroyed since January 1957.

7. Since the contaminated lands which formerly comprised the impact areas at subject facility were acquired by former owners or through resale to present owners, the Government has employed various methods for the protection of life and property to persons living in this vicinity. The provisions outlined in the deed of conveyance which prchibit plowing, disking or employing any other farming methods or operations which would result in the disturbance of the surface of contaminated lands have been called to the attention of the owners and tenents of restricted land by form letters and personal contact by the undersigned but they continue to clear and cultivate land within the restricted areas.

8. In view of the number of unexploded projectiles found and destroyed at this former military reservation, it is recommended that the annual inspections be continued; also, that the standard form type letters of warning to the landowners and tenants of lemdowners shown on the attached list be distributed in person during each scheduled inspection as it is the opinion of the undersigned that these form letter notices and personal contact with the owners and tenants, who are at present utilizing contaminated land for improved pastures and agricultural purposes, will become aware of the potential danger of unexploded shells of any type. It is further recommended that the restricted use of the contaminated areas not be lifted at this time.

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2 Incls

1. Range Map

2. Property Owner-Tenant List

1 December 1961

JOE CAMPELIA

Range Clearance Officer South Atlantic Division APPROVED. 5 MER 1961

FOR THE DAVISION ENGINEERS

Chief Alshaumment & Discose, Linges Mest Es als Edution The Antantic Diverson Present Owners of Restricted Land - Camp Butner Military Heservation Durham, North Carolina

Present Owner or Tenant	Address
Mr. N. R. Carrington	Stem, N. C.
Mr. C. W. Hester	501 Reams Avenue, Roxboro, N. C.
Mr. Frank Avery	RFD No. 1, Rougemont, N. C.
Mr. Willie Allen	RFD No. 4, Roxboro, N. C.
Mr. L. T. Grey	RFD No. 1, Rougemont, N. C.
Mr. William Okley	RFD No. 1, Rougemont, N. C.
Dr. M. L. Cherry	700 Dept Natl Bank Elds, Durham, N. C.
Mr. Andrew Bullock	RFD No. 1, Stem, N. C.
Mr. H. L. Hester	RFD No. 2, Hurdle Mills, N. C.
Mr.fugene Bullock	RFD No. 1, Stem, N. C.
Mr. Ollie Bullock	Shoofly, R. C.
Mr. George A. Parrish	RFD No. 1, Stem, N. C.
Mr. C. S. Parrish	RFD No. 1, Stem, N. C.
Mr. W. T. Gantt	2403 Club Elvd, Durham, N. C.
Mr. L. D. Franklin	Stem, N. C.
Mr. Richard H. Hamme	Okford, R. C. (912 Hillsboro Ext.)
Mr. Sim Harden	RFD No. 1, Sten, N. C.
Mr. O. T. Mangum	Sten, N. C.
Hr. V. J. Collier	Stem, N. C.
Mr. W. B. Jones	Stem, N. C.
Nr. Leo Jackson	RFD No. 1, Stea, N. C.
Mr. Sam Connelly (Carelina Pyrophyllite Co.)	Greensbord, N. C.

Hugh Mooney O'Dell Harris

N. N. Melms

A. T. Melms

Tom Gause

Russell Daniel

Leo Jackson

Owen Howerton

Roxboro, N. C.

Rt. No. 2 Rougemont, N. C.

Rt. 1 Stem, N. C.

Rt. 1 Stem, N. C.

Rt. 1 Stem, N. C.

Rt. 1 Oxford, N. C.

Rt. 1 Stem, N. C.

Rt. 1 Rougement, N. C. SUBJECT: Report of Sixth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

1. The annual inspection of subject facility was completed 30 October 1962, in accordance with instructions in 1st Indorsement from the Division Engineer, South Atlantic Division, to the District Ingineer, Savannah, Georgia District, dated 4 December 1956 (B/L 30 Oct 56), File SADRM 602 Dedudding, Subject: "Inspection of Restricted Areas".

2. On route from the District Office, Savannah, Georgia District to Camp Butner, North Carolina, the undersigned contacted Capt. White, Commanding Officer, 864th Ordnance Detachment, Ft. Bragg, R. C. Arrangements were completed with Capt. White for the transportation of explosives and the services of EOD personnel to detonate all explosive projectiles encountered by the undersigned at Camps Butner and Mackall.

3. During the inspection of subject installation, each landowner or tenants of landowners were contacted and from the inquiries made, eight high explosive projectiles were located and later detonated by EOD personnel from Ft. Bragg. The explosive projectiles were found and destroyed on the following listed tract numbers.

Restricted	Tract No.	Owner & Address	Type of Projectile
"C"	₽ <b>-19-</b> G	W. T. Grant 2301 Club Blvd. Durber F. C	1 - HE 155 mm
"C"	<b>⊡-87-</b> G	Harnong No Co	1 - HE 105 mm
<b>"</b> C"	F-16-0	14	1 - HC 37 mm
Unrestricte	d <b>J-39-C</b>	Raymond L. Hobgood Rt. 1, Rougemont, N. C.	1 - HE 60 mm morter
Unrestricte	d 8-35-D	National Guard Camp Butner, N. C.	1 - HE 57 mm projectile 1 - HE 40 mm "
<b>"</b> "	D-81-G	O. T. Mangum Stem, R. C.	1 - H ^C 81 mm mortar
**5:**	F-88-G	W. B. Jones Stem, N. C.	1 - HE 2.36" Rocket

4. Upon completion of the inspection of lands on which restricted use was recommended by the Department of the Army at subject facility, the undersigned contacted Major Wilkins, Property Officer, National Guard, Camp Eutnor, North Carolinu. Hajor Wilkins stated that the State Prison Department was engaged in an extensive timber harvesting operation on lands which were formerly utilized by the Department of the Army during World War No. II as an artillery range. The accountability of this land consisting of 4,866.49 acres was reassumed by the Department of the Army in 1948 and later quitclaimed to the State of North Caroling for National Guard activities.

5. During the interview with Major Wilkins, he stated that high explosive projectiles had been found by timber harvesting personnel and that he contacted the Commanding Officer, 864th Ordnance Detachment, Fil-Bragg, who visited the area and destroyed in place approximately eight high explosive shells. He also stated that all contaminated timber within the boundaries of land under the jurisdiction of the National Guard will be harvested as pulp wood, saw timber or poles and when the harvesting is completed, the entire area would be replanted with Loblolly Pine by the State Prison Department.

6. In response to the request by Major Wilkins, the area was spot checked. The supervisor of each operation was interrogated and from the information obtained, the two explosive projectiles listed as found on Fract No. 7-35-D in Paragraph No. 3 of this report were destroyed in place by HOD personnel.

7. As the inspection of the six restricted areas progressed, damaged standardized signs of warning to the general public which were previously erected on the perimeter of each restricted area were replaced with new signs.

6. Inspection of subject facility continues to disclose that portions of restricted areas are cultivated each year and are included in the crop rotation plan of lands by owners and tenants of landowners, who are aware of the land use regulations as outlined in the deed of conveyance from the Government which prohibits plowing, disking or any other farming method or operation that would disturb the surface of the contaminated land. However, the landowner and tenants of landowners have full knowledge of these provisions and repeated warnings by the undersigned of the potential hazards involved in continued farming of the areas on which restricted use was recommended by the Government.

9. A review of the Annual Inspection Reports of subject restricted areas discloses that to date a total of ninety-three (93) high explosive projectiles have been located and destroyed within the boundaries of the six restricted areas or lands adjacent thereto. Inspection further disclosed that many of the above numbered shells became visible through the clearance of lands or natural surface distortion due to errosion.

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10. In view of the high concentration of explosive projectiles which these six restricted areas received during the training period of World War No. II, it is recommended that the annual inspection of subject facility be continued, and that the surface use only restriction on areas as outlined in the Certificate of Clearance, dated 6 April 1950, not be lifted at this time.

Incl Range Map

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Dated i .....

JOHN B. CAMPAULL Range Clearance Officer South Atlantic Division

APPROVED. 3 UNGV 1957

FOR THE DIVISION ENGINEER

Olivel, Management & Disposed Br

Real Ettate Science South Atlantic Division SUBJECT: Report of Eighth Annual Inspection, Restricted . Butner Military Reservation, Durham, North Carol

1. The annual inspection of subject facility was con 26 October 1964 in accordance with instructions in 1st 1nd the Division Engineer, South Atlantic Division, to the Dis Savannah, Georgia District, dated 4 December 1956 (B/L 30-SADRM 602 Dedudding, Subject: "Inspection of Restricted A

2. Prior to the inspection of subject facility, the i contacted Lt. Booker, Commanding Officer, 864th Ordnance De Ft. Bragg, M. C. During the interview with Lt. Booker, plu completed for the transportation of explosives and the serv personnel to detonate any high explosive projectiles encoun the undersigned during the annual inspection of Camp Butner Mackall.

3. During the routine check of landowners or tenants ( the following explosive projectiles were located and later c E.O.D. personnel from Ft. Bragg.

Restricted Tract Area No. Ho.		Address of owner or tenant	Type of Projec					
Unrestricte	d	Person County						
-		Highway Dept.	1 - W.F. 81mm N					
<b>и</b> Ск	F12G	W. T. Gant	1 - H.E. 155 mg					
"Cu	F22G	2301 Club Drive	1 - H.E. 155 mm					
u Cu	D66G	Durham, N. C.	1 - H.E. 105 mm					
u Cu	F33G	a 11 H	1 - H.E. 81 mm					
n ^V u	H2G	C.W.Hester	2 - H.E. 37 mm 1					
		1501 Reams Ave.,						
		Roxboro, N. C.						

4. The H.E. 61 mm projectile referenced above was uncove maintenance division of Person County Highway Department, N. C routine maintenance of a clay gravel road with a power grading The operator stated that he saw the mortar in a wind row of mat transferred from the ditch section of the road right of way to of the farm to market road. The operator moved the shell from of material to an isolated area near the right of way limits an the location of the shell to his supervisor.

5. Previously erecte standardized signs of warning to the public were within a distance of less than 1000 feet from the le the 81 mm projectile. These posted signs parallel the east side gravel road which is located in Grenville County in which restri "A" is located. 6. Upon completic and the interrogration of as to their knowledge of undersigned contacted th Ft. Bragg, H. C., and an the services of H.O.D. F explosive projectiles fo Mabley reported to Camp approximately 1630 o'clo

7. Inspection of a portions of land on with upon completion of thee as agricultural land; ve projectiles as 105, 15m

8. During the all first being 15 Januar 5; ranging from hand gress or reported to the Bist greater portion of thum sion of heavy wooded; terrain which can be extexture, being highlyer

9. In view of tet continues to be foundif and tenants of landown deed of conveyance free D, E and F shown in (n Military Reservation, r subject facility be Ed outlined in the Cortio lifted at this time.

Incl Range Map

Dated: 1 Decembe

7. Inspection of subject facility continues to disclose that portions of land on which restricted use was recommended by the Government upon completion of theedudding operation are presently being utilized as agricultural land; vever, the majority of the heavy high explosive as agricultural land; vever, the majority of the heavy high explosive projectiles as 105, 15nd 240 mm are being found on woodland pasture land.

8. During the all inspections of this former artillery range, first being 15 Januar 57, a total of 124 high explosive projectiles ranging from hand gress to 240 mm have been found by the undersigned or reported to the Dist Engineer as having been found by others. The greater portion of thumber of shells can be attributed to the convergreater portion of thumber of shells can be attributed to the conversion of heavy wooded into improved pasture land and the type of sion of heavy wooded is hilly to rolling land with clay type terrain which can be ed as hilly to erosion caused by winds and rainfall.

9. In view of the that explosive munition of various types continues to be foundg each annual inspection and that the landowner and tenants of landowntinue to disregard the provisions in the deed of conveyance flernment on recommended restricted areas A, B, C, deed of conveyance flernment on recommended Fap No. 3037, Camp Butner D, E and F shown in a the attached Audited Hap No. 3037, Camp Butner Military Reservation, recommended that the annual inspection of multiplet facility be to and that the restricted use of lands as subject facility be to for Clearance, dated 6 April 1950, not be lifted at this time.

Incl Range Map

Dated:

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JUHE D. CH.FULL

kange Clearance Officer South Atlantic Division

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CUEJECT: Deport of Ninth Annual Inspection, Restricted Areas, Camp Buther Military Reservation, Durham, North Carolina

6. Since last date of inspection (October 1964) the Carolina Power Co. has constructed a high power transmission line across the northwest portion of restricted area "A". The undersigned was advised by a representative of the 864th Ordnance Detachment, Pt. Bragg, that he (SP-5 D. M. Vallace) was assigned to inspect the land during the clearing of the right of way and the excavation of coil for the concrete foundation to support the large steel towers. SP-5 Wallace stated that during this assignment he detonated approximately sim H.D. projectiles ranging from 155 cm to 37 mm. This area was also inspected by the undersigned with negative results, and during the inspection it was noted that no subsurface operations were performed except for the foundations of the steel towers.

7. In view of the fact that high explosive multion has been found during all provious annual inspections of subject facility, it is recommended that the annual inspection be continued and that the recommended restricted areas as outlined in the Certificate of Clearance, dated 6 April 1950, not be lifted at this time.

Incl Range Ker

Dated: 23 November 1966

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JOUND. CAIPEDA Range Clearance Officer South Atlantic Division

# 2 8 NOV 1966

FOR THE DIVISION ENGINEER:

APPROVED.

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B. A. MCKINLEY

Chief, Management & Disposal Branch Real Estate Division South Atlantic Division  SAJRD

SUBJECT: Report of Tenth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

1. The annual inspection of subject facility was completed on 22 November 1967 in accordance with instructions in 1st indorsement from the Division Engineer, South Atlantic, to the District Engineer, Savannah, Georgia District, dated 4 December 1956 (B/L 30 Oct 56), File SADRM 602 Dedudding, Subject: Inspection of Restricted Areas.

2. Prior to the inspection of subject facility, the undersigned contacted Lt. Keys, Commanding Officer of the 99th Ordnance Detachment, Fort Bragg, North Carolina, and arranged for the supply of explosives and the services of Explosive Ordnance personnel to detonate explosive projectiles if found during the annual inspection of old ranges in the vicinity of Fort Bragg Military Reservation.

3. During the inspection, each landowner or tenant of landowners were contacted and during the interview, each person was queried as to their knowledge and location of any old explosive projectiles or shells on lands under their control. From the information furnished, the following listed explosive projectiles were found and destroyed.

Restricted Area No.	Tract <u>No.</u>	Address of Owner or Tenant	Type of Projectile Found & Destroyed
"C"	FI5G	In. T Gant, 2301	1-HE 155 MM
		Club Dr., Durham, N.C.	1-HE 37 MM
			2-2.36" Rockets
Unrestricted	H4G	O. T. Mangum Stem, N. C.	1-HE 2.36" Rockets
Unrestricted	G22P	O. H. Hilton, Oxford, N. C.	2-HE 2.36" Rockets
''A''	H2G	Richard Hamme Oxford, N. C.	1-HE 81 MM Mortar

4. Upon the completion of the inspection of each contaminated area and the replacement of all damaged standardized signs of warning previously erected on the perimeter of each restricted area. The Commanding Officer EOD (Lt. Keys) was contacted by phone, and at that time, arrangements were made to dispatch the required personnel and explosive from Fort Bragg to SUBJECT: Report of Tenth Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

detonate the above listed explosive projectiles. This procedure eliminates the transportation of explosives in Corps of Engineers or GSA vehicles where old ranges are located in the immediate vicinity of an active military base.

5. During the scheduled annual inspections of subject facility, it has been noted from year to year the various improvements which have been made on lands that surface use restrictions were recommended by the Government upon the completion of the Dedudding operations; however, with full knowledge of the restricted use of the land and the provisions in the deed of conveyance from the Government, landowners and tenants of landowners continue to clear and cultivate restricted areas.

6. In view of the fact that explosive munitions continued to be found and destroyed during scheduled annual inspections of subject facility, it is recommended that the restricted use of lands, as outlined in the Certificate of Clearance, dated 6 April 1950, not be lifted at this time, and it is further recommended that the annual inspections and the replacement of warning signs at subject facility be continued.

3 Incl

- 1. Range Map
- 2. Photo of Explosive Projectiles
- 3. Property Ownership List

Dated: 21 December 1967

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Range Clearance Officer South Atlantic Division

# SAJRD

Present Owners of Restricted Land - Camp Butner Military Reservation Durham, North Carolina

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Present Owner or Tenant	Address
Mr. N. R. Carrington	Stem, N. C.
Mr. C. W. Hester	501 Reams Avenue, Roxboro, N. C.
Mr. Frank Avery	RFD No. 1, Rougemont, N. C.
Mr. Willie Allen	RFD No. 4, Roxboro, N. C.
Mr. L. T. Gray	RFD No. 1, Rougemont, N. C.
Dr. M. L. Cherry	700 Dept. Nat'1. Bank Bldg, Durham, N. C.
Mr. Andrew Bullock	RFD No. 1, Stem, N. C.
Mr. H. L. Hester	RFD No. 2, Hurdle Mills, N. C.
Mr. Eugene Bullock	RFD No. 1, Stem, N. C.
Mr. Ollie Bullock	Shoofly, N. C.
Mr. George A. Parrish	RFD No. 1, Stem, N. C.
Mr. C. S. Parrish	RFD No. 1, Stem, N. C.
Mr. W. T. Gantt	2403 Club Blvd, Durham, N. C.
Mr. L. D. Franklin	Stem, N. C.
Mr. Richard H. Hamme	Okford, N. C. (512 Hillsboro Ext.)
Mr. Sim Harden	RFD No. 1, Stem, N. C.
Mr. O. T. Mangum	Stem, N. C.
Mr. W. J. Collier	Stem, N. C.
Mr. W. B. Jones	Stem, N. C.
Mr. Leo Jackson	RFD No. 1, Stem, N. C.

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Present Owner or Tenant (continued)	Address
Mr. Sam Connolly (Carolina Pyrophyllite Co.)	Greensboro, N. C.
Hugh Mooney	Roxboro, N. C.
O'Dall Harris	Rt. No. 2, Rougemont, N. C.
N. N. Melms	Rt. 1, Stem, N. C.
A. T. Melms	Rt. 1, Stem, N. C.
Tom	Rt. 1, Stem, N. C.
Russell Daniel	Rt. 1, Oxford, N. C.
Leo Jackson	Rt. 1, Stem, N. C.
Eugene Jackson	Rt. 1, Stem, N. C.
O. H. Hilton	RFD No. 1, Rougemont, N. C.

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View of a H.E. 155 MM Projectile found at Camp Butner, N.C. Also ECD personnel from Ft. Bragg, N.C., Who were dispatched from Ft. Bragg to detonate all explosives found at Camp Butner and Camp Mackall, N.G.



View of two of the H.E. 2.36 inch Rockets found during the Annual Inspection of Camp Butner



View otandardized Signs of Warning which are. maintad in legible condition around the perimes on all restricted areas within the South antic Division.

#### SAJRD

SUBJECT: Report of Eleventh Annual Inspection, Restricted Areas, Camp Butner Military Reservation, Durham, North Carolina

1. The annual inspection of subject facility was completed on 21 January 1969 in accordance with instructions in 1st Indorsement from the Division Engineer, South Atlantic, to the District Engineer, Savannah, Georgia, District, dated 4 December 1956 (B/L 30 Oct 56), File SADRM 602 Dedudding, Subject: "Inspection of Restricted Areas."

2. Enroute from the Savannah, Georgis District Office to Camp Butner, North Carolina, the undersigned contacted personnel assigned to the 18th Explosive Ordnance Detachment, Ft. Bragg, N. C. In the absence of the Commanding Officer, Captain Shiner, arrangements were made with F.S.C. Racain for the supply of explosives and the services of E.O.D. personnel to detonate any high explosives found during the annual inspections of Camp Butner or Camp MacKall.

3. During the inspection of restricted areas, all landowners or tenants of landowners were contacted. They were informed of the potential danger of explosive projectiles of any type. Each person interviewed was also given several S.A.D. Forms 178; namely, "Notice to Owners or Tenants on Land Formerly Utilized by the Government as Bombing or Gunnery Firing Ranges." In addition to the distribution of S.A.D. Forms 178, all damaged or obliterated standardized signs of warning to the general public, previously placed around the perimeter of each restricted area, were replaced with new signs.

4. In view of the fact that subject firing range received a high concentration of various types of explosive projectiles ranging from hand grenades to 240 m.m. projectiles, only one 40 m.m. H.E. shell was found during the scheduled inspection. However, it is to be noted that records of the ten previous annual inspections disclosed that one hundred and thirty six (136) explosive type projectiles were found and destroyed by the undersigned; three additional projectiles were found by others and destroyed in place by Explosive Ordnance Detachment assigned to Ft. Bragg, North Carolina.

5. Since the contaminated lands, which formerly comprised the impact areas at subject facility, were acquired by former owner or through resale to the present owners, the Government has employed various methods; namely, the posting of warning signs and the distribution of S.A.D. Forms 178 for

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the protection of life and property to persons living in the immediate vicinity of this former artillery range. However, landowners and their tenants continue to disregard certain provisions outlined in the deed of conveyance which prohibits plowing, disking, or employing any other farming methods or operations which result in the disturbance of the surface of the ground on areas where restricted use was recommended by the Government upon completion of the dedudding operations.

6. A general review of subject facility discloses that approximately sixty percent (60%) of the privately owned restricted acreage can safely be classed as unimproved land. However, in the event the unimproved areas are cleared at some future date and placed in productive land, there is a great possibility that numerous explosive projectiles will be encountered; therefore, it is recommended that the annual inspection of all restricted areas of subject range be continued and it is further recommended that the standardized signs of warning to the general public be maintained in a legible condition on the perimeter of each restricted area. Also, that the restricted use of the contaminated areas as outlined in the Certificate of Clearance, dated 6 April 1950, not be lifted.

2 Incl

- 1. Range Map
- 2. Property Ownership List

Dated: 18 February 1969

Range Clearance Officer South Atlantic Division

Authorified Representative of the Division Engineer

Present Owners of Restricted Land - Camp Butner Military Reservation Durham, North Carolina

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Present Owner or Tenant	Address
Mr. N. R. Carrington	Stem, N. C.
Mr. C. W. Hester	501 Reams Avenue, Roxboro, N. C.
Mr. Frank Avery	RFD No. 1, Rougemont, N. C.
Mr. Willie Allen	RFD No. 4, Roxboro, N. C.
Mr. L. T. Gray	RFD No. 1, Rougemont, N. C.
Dr. M. L. Cherry	700 Dept. Nat'l. Bank Bldg, Durham, N. C.
Mr. Andrew Bullock	RFD No. 1, Stem, N. C.
Mr. H. L. Hester	RFD No. 2, Hurdle Mills, N. C.
Mr. Eugene Bullock	RFD No. 1, Stem, N. C.
Mr. Ollie Bullock	Shoofly, N. C.
Mr. George A. Parrish	RFD No. 1, Stem, N. C.
Mr. C. S. Parrish	RFD No. 1, Stem, N. C.
Mr. W. T. Gantt	2403 Club Blvd, Durham, N. C.
Mr. L. D. Franklin	Stem, N. C.
Mr. Richard H. Hamme	Okford, N. C. (512 Hillsboro Ext.)
Mr. Sim Harden	RFD No. 1, Stem, N. C.
Mr. O. T. Mangum	Stem, N. C.
Mr. W. J. Collier	Stem, N. C.
Mr. W. B. Jones	Stem, N. C.
Mr. Leo Jackson	RFD No. 1, Stem, N. C.

Present Owner of Tenant (continued) Address Greensboro, N. C. Mr. Sam Connolly (Carolina Pyrophilite Co.) Roxboro, N. C. Hugh Kooney Rt. No. 2, Rougemont, N. C. O'Dall Harris Rt. 1, Sten, N. C. N. N. Malma Rt. 1, Stem, N. C. A. T. Heles Rt. 1, Oxford, N. C. Russell Danie Rt. 1, Stem, N. C. Eugene Jacks RFD No. 1, Rougemont, N. C. O. H. Hilton Box 127, Stem, N. C. William McC c/o L. T. Gray Allen Smit! RFD No. 1, Rougemont, N. C. ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX F

LETTERS/MEMORANDUMS/CORRESPONDENCE

#### APPENDIX F

#### LETTERS/MEMORANDUMS/CORRESPONDENCE

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F-2 Site Summary Sheet, Camp Butner, Site No. I04NC000900, April 20, 1990 (B-27)

F-3 FDE, Camp Butner, Site No. 104NC000900, 5 July 1990 (B-28)

F-4 Project Summary Sheet, Camp Butner, HTW Project No. I04NC000901, April 20, 1990 (B-29)

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F-6 Memorandum, CESAW-PD-E, 10 May 1990, Subject: INPR for Camp Butner, Site No. I04NC000900 (B-31)

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F-8 Memorandum, CEHND-PM-OT, 22 April 1991, Subject: INPR for Camp Butner, Project (Site) No. I04NC000900 (B-33)

## CESAW-PD-E

30 April 1990

MEMORANDUM THRU

CESAW-PD-E/Correal MA, 05/03

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FOR CESAW-PD/DERP File

SUBJECT: DERP-FUDS Field Inspection for Preliminary Assessment, Camp Butner, Butner, North Carolina, Site No. IO4NCO00900

1. REFERENCE:

a. HNDED-PH memo dated 22 April 1987 and SADPD-R 1st End dated 13 May 1987, subject: Defense Environmental Restoration Program (DERP) Revision and Resubmission of Inventory Project Reports (IPRs).

b. Information on dedudding operations for Camp Butner (eleven Inspection Reports of restricted areas and the initial recapitulation dedudding report completed 6 April 1950) in CESAW-PD files.

#### 2. INTRODUCTION

The purpose of this memorandum is to record field work that has been done for a preliminary assessment for the Defense Environmental Restoration Program for Formerly Used Sites (DERP-FUDS). The former site is Camp Butner, Butner, North Carolina, which was located in Person, Durham and Granville Counties. The field work on this site was done 13, 14, 15, and 16 March 1990. Pictures were taken of various areas by Mr. John Baden.

Acquisition and construction authorisation for this installation was initially issued in 1942. A total of 40,384.39 acres were acquired by the War Department for the site of the Fourth Services Command, Army Ground Forces, Triangular Division Camp. Of this acreage acquired, approximately 40,201.08 mores were in fee, 128.40 scres comprised of 82 essenants, 2.51 scres in licenses, and 52.40 scres comprised of 26 lessed tracts. In part, Camp Butner was utilized as a training and manauvering area for combat troops. Portions of the property were subject to contamination by ordnance, Camp Butner was declared excess, and accountability for the 40,384.39 scres was assumed by the War Assets Administration on 26 April 1947. In March 1948, the Department of the Army withdrew 4.866.49 acres of land from the area declared surplus and assumed accountability for that acreage. This acreage was computed incorrectly and should have read 4,856.39 (Real Estate Information for Camp Butner, North Carolina, from CESAS-RE-MM, dated 3 July 1989). In April 1953, 106 acres of this land was reported excess to GSA and conveyed to 3. M. Carpenter by Quit Claim Deed dated 17 August 1953. The remaining 4,750.39 acres was conveyed to the State of North Carolina by Quit Claim Deed on 27 September 1954.

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#### 3. SITE VISITS

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A. On March 13, 1990, I met with Mr. John Hadden, Warden and Melvin Johnson, Head of Physical Plant for the Federal Correctional Institution at Butner. I explained the DERP-FUDS program to them and the fact that their present facility was once part of former Camp Butner. We looked at the maps of the former cantonment area of Camp Butner, the Final Project Ownership Map of Camp Butner (dated 3 April 1950), and a Final Ownership Map of Camp Butner showing the dedudding operations as of 6 April 1950. Their facility is outside of the former range area (see Camp Butner Map, attachment 1). They have had no reports of ordnance being found on their facility.

Later on March 13, 1990, I drove around part of former Camp Butner locating roads and familiarizing myself with the area. I stopped at North Carolina State University Beef Cattle Research Farm which is to the north of the Faderal Correctional Institution and between the Federal Correctional Institution and the North Carolina National Guard Ranges which were part of former Camp Butner ranges to see if anyone was around who could give me information on any ordnance that might have been found on this site. I was told to return on the next day and to talk with Mr. Randy Guthrie.

B. On March 14, 1990, I visited the Camp Butner National Guard (NG) Range. I met with Ms. Vickie A. Dudick, Environmental Specialist with North Garolina NG and Mr. Phil Morgan, Managar of the Gamp Butner NG Range. I explained the DERP-FDDS Program to them. I also told them that the North Garolina NG lands are not handled under this program but under the installation Restoration Program. Mr. Morgan said that every year they get phone calls about ordnance that is found on the former ranges. He contacts the ordnance disposal team from Ft. Bragg for disposal. He said that he knew of no detailed site maps available to indicate the exact sites or types of ranges at former Camp Butner. He gave me a map of the lower half of Camp Butner from sometime in the 1940's (attachment 2). He and I made an appointment to visit the former ranges on March 16, 1990.

At lunch I met with Mr. Rendy Guthrie and asked if he knew of any trash dumps or ordnance on the Beef Cattle Research Farm. He knew of no trash dumps or any ordnance ever being found on the research facility.

That same day, I had a meeting at John Unstead Hospital, North Carolina Department of Human Resources, Division of Hental Health, Mantal Retardation and Substance Abuse, with various people from the Butner community. Attached is a list of people present at the meeting (attachment 3). Mr. R. D. Holt was the past Director of Plant Operation at the Hospital and Butner, North Carolina (community primarily controlled by the State of North Carolina). Mr. Wayne Bradsher is chairman of the Environmental Committee for the Butner Cancer Study Task Force ٠٠.

(volunteers in the Butner area, a study to identify the causes of the apparent high rate of cancer in the Butner area). Mr. M. W. Wall was a plumber at Camp Butner who stayed on and worked for the State of North Carolina. Mr. James M. Fletcher was stationed at Camp Butner during World War II and later worked for the North Carolina NG. Mr. Lehman M. Brinkley is the Business Manager for the John Umstead Hospital. Ms. Eva R. Parry is the Administrative Assistant for the John Umstead Hospital. I explained the program to averyous present and asked if they knew of any problems (COM/HTW, BD/DR, HTW, KO, gas chambers, car wash racks, oil, gasoline, paint and photo shop). I showed them the same maps that I had shown to the staff of the Federal Correctional Institution.

I obtained the following information at the meating: The largest round used was 155 mm. Mr. Flatcher offered to show me some of the range area. Airfields #1 and #2 (shown on attachment 2) were grass and only used for light planes. There were no UST located at these sirfields. In fact no one knew of any UST left at Camp Butner from DOD use of the former facility. There were three gas chambers used at Camp Butner. The only gas used at Camp Butner was tear gas which was used in training. The same storage area had Quonset huts. Some of the huts have been dismantled and others were used by the North Carolina Department of Agriculture to store vegetables. They brought to my attention that Lightning Lake had a trash dump in the bottom of it. The abandoned trash dump under Lightning Lake was apparently used by the 78th Division of the 3rd Army (Trng) before they shipped out to Europe in May or June 1944 to dispose of brass and annunition (materiel) that could not be packed and shipped. At maximum, the trash dump covers two acres. After the material was buried in the lake bottom, the lake was flooded in 1944, right after the 78th shipped out. The material was buried here so that locals could not get it. After the 78th Division of the 3rd Army shipped out, the U.S. Army used Camp Butner as a redistribution center (only used a small part of the cantonment area). Then, there was a discussion that Camp Butner was to be an Army General Hospital. This is the reason for the construction of brick buildings in the hospital area by DOD (John Umstead Hospital). They remember the riding stable and Prisoner of War (POW) Camp. This POW Camp was located where the Federal Correctional Institution is now. In 1963 or 1964 there was spraying of approximately 700 acres in the area to the east of the Tederal Correctional Institution for the control of broad-leaf plants in the existing pine forest by the North Carolina Department of Forestry. Ms. Perry furnished me a copy of verious state and Federal Agencies located in Butner and events that have taken place with the lands purchased from the U.S. Government (former Camp Butner) in 1947 by the State of North Carolina in Butner (attachment 4).

Later that some day, I was taken on a tour of part of the former Camp Butner range area outside of the existing Camp Butner NG Range by Mr. Flatcher. He showed me the boundaries of the Camp Butner NG Range. Also, he mentioned to me that rockets and shalls had been found in many different areas of the former Camp Batner range. During World War II the U.S. Army fired north with the artillery.

C. On March 15, 1990, I mat with Mr. Hon Phillips who is the Associate Director of Plant Operation for the John M. Unstead Hospital. He showed us the sawage treatment plant (which was orginally constructed by DOD and has been run by the State of North Carolina since 1947 for Butner), Lightning Lake, Anno Dump, dam site for Lake Holt (water supply for Butner and parts of the surrounding community which is run by the State of North Carolina) and the three incinerators (these sites are shown on the Camp Butner Map, attachment 1).

After this first meeting, I met with Mr. Wall and we visited the sites of the former gas stations (see cantonment area map in the PD DERP-FUDS file). The former gas stations visited were nos. T-2663, T-3455, T-3657, T-4054, T-5626, T-356, T-954, and T-1555. Mr. Wall ramembers when all UST were removed and shipped out at the end of the War by DOD. I looked at each site and at a number of them, you could still see a depression in the ground where the tank had been located and the disconnected pipe going to the former pump house was also visible. According to Mr. Wall, waste oil at Camp Butner was recycled by the U.S. Army. Also, I visited the site of former Service Station No. T-3969. This facility was used as a gas station after DOD no longer owned the land.

Later I met with Hr. Phil Morgan and we visited the site of some former oil racks that he remembered from his childhood days in the cantonment area (see cautonment area map, in the general area of T-855 Garage). There was no visual evidence of contamination in this area, in fact a house is on this site. We then visited the site of a range used for training northeast of the water tower. This range is shown on the Camp Butner Map as Hand Grenede and Rifle Hange, We discussed the information on dedudding operations for Camp Butuer (reference b). Based on the information in these reports and my discussion with Mr. Fhil Morgan, there are ranges with impact areas for artillery, banooks, rifle granades, moving target, rifle, pistol, mortars, rockets and hand granades that are not fanced or marked as dangerous areas at former Camp Butuer. We then drove over the former range area of Camp Butner (areas visited were different from ones that I had visited on my earlier trip with Mr. Fletcher on March 14, 1990). He pointed out to me the power line (see Camp Butner Map, attachment 1) where a lot of ordnance was apparently turned up when it was constructed but he did not know what had happened to the ordnance. He also told we that hunters run up on old ordnance every bunting season. We drove the range road. We then drove through a number of fields and he pointed out to me a number on concrete structures which looked like pill boxes.

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D. On March 16, 1990, I met with Mr. R. D. Holt. He told me he knew of two trash dumps. One (trash dump  $\neq$  1, Camp Butner Map, attachment 1) is located at the Hospital and has been used only by the State of North Carolina (used only for debris according to Mr. Holt). This site has been inspected by Environmental Health Saction, North Carolina Department of Human Resources. The other trash dump ( $\neq$  2) is morth of the water tower (see Camp Butner Map, attachment 1) and was apparently used for general construction debris according to Mr. Holt. This site was used both by DOD and the State of North Carolina, My inspection of this area only showed some construction debris on the surface. This area is now overgrown.

I also discussed the three incinerators with Mr. Holt. According to Mr. Holt the State of North Carolina only operated one of the three incinerators operated by the U.S. Army (see Camp Butner Map, sttachment I for location of the three incinerators). Also, he told me that this incinerator was operated by the State until 1964 (incinerator # 2). According to Mr. Holt all wastes that could be burned up by the military and the State of North Carolina were burned in these incinerators. Mr. Holt said that the trash dump in the bottom of Lightning Lake could well not be there, because he had never heard the rumors about Lightning Lake from a reliable source. He knew of one area of disposal of HTW which took place after DOD had transferred the site to the State of North Carolina. On one area of State owned land (Range Road and the road to Lightning Lake) the Athol Manufacturing Company of Butner disposed by-products of the vinyl coating industry. This site is on the State of North Carolins, Department of Environmental, Health, and Natural Resources, Division of Solid Waste Management, Wastelan Preremedial Report 20. The Exchange Gardens which are shown on the cantonment area map were Victory Gardens for the troops run by the Post Exchange. We also discussed the former wash racks (I visited sites of nos. T-2653 and T-2856 which were located off of B Street and saw no evidence of contamination), paint shop (War Housing Project), oil storage (no. T-5412), photo shop (no. T-3968), paint and oil house (no, T-5349), and asphalt tank (no. T-5411) and house (no. T-5415)(I. visited the former sites of these facilities and did not see any avidence of contamination). Mr. Holt said that he knew of no problems in these areas. By the time he had come to Butner in 1947 to work for the State of North Carolina the asphalt tank had already been removed (this plant was only a patch operation).

Later I had an exit interview with Mr. Lehman Brinkley.

That same day, I drowe to the northern part of former Camp Butner to the area where Phil Morgan and I saw the pill boxes and talked with Mr. Wallace A. Blalock, Jr. owner of part of this range. I told him of the program. At this time he is not sure of what he wants to do. He said that he had gotten accustomed to them. He was also going to talk with the adjoining owners. I left him my phone number. His phone number is (919) 693-6880. I also stopped at Mr. G. B. O'Brian's house on whose land part of this range lies, but Mr. O'Brian was out cooking a pig for a family wedding. I talked with Gary Mauldin about the pill boxes and he said it is not necessary to do anything at this time. It could be added later.

E. Currently, the site is being used as a community primarily controlled by the State of North Carolina, Federal Correctional Institution, and agriculture lands with increasing land development.

#### 4. CONCLUSIONS

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This site was only used by the U.S. Army for approximately 18 months from the beginning of 1943 into June 1944 when the 78th Division shipped out for Europe. After that time a small part of Camp Butner was used by the U.S. Army as a redistribution center according to Mr. Holt. Therefore, since oil products were recycled and waste materials were incinerated by the U.S. Army (except for ordnance) it is unlikely that there are any major HTW contamination problems at former Camp Butuer. Ordnance is a major problem. There are no detailed site maps available to indicate the exact sites or types of ranges at Camp Butner. There is a Final Ownership Map of Camp Butner showing the dedudding operations as of 6 April 1950 (reference b). These ranges were built and used by the War Department. There are ranges with impact areas for artillary, basooks, rifle gronades, moving target, rifle, pistol, mortars, rockets and hand grenades that are not fenced or marked as daugerous areas. There is no evidence that non-DOD parties have used these ranges for anything but hunting. The ordnance that has been found in the areas of the former ranges is not hunting type ordnance. I discussed the RAC form with Mr. Phil Morgan and based on his and my judgement, the number of rounds per acre is 10 to 100.

4. ACTION REQUIRED AND TAKEN

A. Prepare an Inventory Project Report for the site, including projects for HTW for the trash dump under Lightning Lake and EO for the impact areas of the former ranges.

B. Prepare a Risk Assessment for Ordnance on the site as well as EPA FORM 2070-12 for the trash dump under Lightning Lake which will be sent along with the Inventory Project Report.

C. I recommend that in late May a phone call be made to Mr. Wallace Blalock at (919) 693-6880 and/or Mr. C. B. O'Brian (adjoining owner) at (919) 693-6887 to get their input about a possible DERP-FUDS debris project for the former Camp Butner range on their land.

IL A. Bade

Biologist

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### LIST OF ATTENDEES AT THE MARCH 14, 1990 MEETING FOR DEFENSE ENVIRONMENTAL RESTORATION PROGRAM FOR FORMERLY USED DEFENSE SITES (DERP-FUDS) MEETING

JOHN UMSTEAD HOSPITAL, BUTNER, NORTH CAROLINA

R. D. Holt	120 Ridge Road, Butner, N.C.	919-575-4124
W. Wayne Bradsher	115 East G Street, Butner, N.C.	919-575-4455
M. W. Wall	303 South 13th Street, Butner, N.C.	919-575-4400
James M, Fletcher	Box 55, Butner, N.C.	919-528-2166
Lehman M, Brinkley	John Unstead Hospital, Business Manager	919-575-7201
Eva R. Perry	John Unstead Hospital, Admin. Asst.	919-575-7203
John A. Baden	U.S. Army Corps of Engineers, Wilm.	919-251-4754

NOTE: Meeting started at 1330.

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Camp Butner, North Carolina DERP-FUDS Site No. 104NC000900

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Chart I	Claiberne, Lac Mf. Div, Bagr. Unit Ing. Conter	m	14				6.144	, 743	1,174	16 224	16 777	-77,4JL	,	201	1,0(5,226	8,861,694	177,464	)7,219,888	37,347,356	22,665 A. trfd. from igr sulture Dapt. Incls. K samp.
	intivillo, Tex. avairy Post			1						19,490	10, 107	51,437	7	36,845	165,448		¥1,930	5,173,909	5,435,899	Leases sancelled 22 May Ormed area certified to 20 Sept. 1964.

3.

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## EVENTS IN BUTNER

		Year	No. of Acres
Land Furchased from Federal Gov - Hospital Area 10 - Cantonment Area 11 - Tarte Area 11	ernment 600 acres 735	1947 1947	
		477/	12,122.00
Establishment of John Umstead H	ospital	1947	1,600.00
Establishment of Murdoch Center		1957	249.50
Establishment of Blind Rehab. Co	enter	1959	35.80
Establishment of Alcoholic Rehal	b. Center	1969	17.73
Establishment of Unstead Youth (	Center	1953	50.00
Separation of Farm Operations f:	COM JUH	1975	90.98
Purchase of Property for U. S. ( Facility	Jorrectional	1964	769.88
Establishment of C. A. Dillon Se	chool	1968	88.00
Establishment of N. C. National	Guard		
Transfer of Police and Fire Depu Dept. of Public Safety and Co	artment to rime Control	<b>198</b> 1	2.23
Transfer of Blind Rehab. Center	to Raleigh	1983	
Transfer of Unstead Youth Center Rehab. Property	r to Blind	1984	35-80
Establishment of Beef Cattle Rea	search Farm	1983	1,300.00
Establishment of Lake Holt		1 <b>96</b> 6	107.66
Transfer of Property to U. S. Co for Falls Lake	orp of Engineers	1982	2,123.00
Establishment of Agricultural Fa (Surplus Food)	acility	1 <b>97</b> 7	12.50
Establishment of Vance Granville College (located in Agriculto Building)	e Community ure Facility	<b>198</b> 2	

Establishment of Fire Tower

2.07

Aqueulture Acreage 48 56.09 A 3/2/188 par

July 1986

F-1

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# STATE AND FEDERAL AGENCIES IN BUTNER

V.	8.	Government	- Federal Correctional Facility
N.	C,	Department of Agriculture	- Farming, Dairy, Egg Production - Surplus Food Warehouse
N.	¢.	State University	- Beef Cattle Research Farm
N.	C.	Department of Correction	- Umstead Youth Center
N.	c.	Department of Crime Control and Public Safety	l - Butner Public Safety Department - Division of National Guard
<b>H</b> .	C.	Department of Human Resourd	<ul> <li>Division of Mental Health, Mental Retardation and Substance Abuse</li> <li>John Umstead Hospital</li> <li>Murdoch Center</li> <li>Alcoholic Rehabilitation Center</li> <li>Whitaker School</li> <li>Division of Youth Services</li> <li>C. A. Dillon School</li> </ul>
N	<b>c.</b>	Department of Commerce	- Employment Security Commission Office
N.	C.	Department of Natural Reson and Community Development	arces - Wildlife Resources Commission - Division of Forest Resources
X.	C.	Department of Community Colleges	- Vance Granville South Campus

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July 1986

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ALL. I. . . A. MIN

### SITE SURVEY SUMMARY SHEET FOR DERP-FUDS SITE NO. 104NC000900 CAMP BUINER, NORTH CAROLINA April 20, 1990

SITE NAME: Camp Butner, North Carolina

LOCATION: Butner and Granville, Durham, and Person Counties, North Carolina; see attached map.

SITE HISTORY: Acquisition and construction authorization for this installation was issued in 1942. A total of 40,384.39 acres (fee, lease, easement, and licenses) was acquired by the War Department for the site of the Fourth Services Command, Army Ground Forces, Triangular Division Camp. In part, Camp Butner was utilized as a training and maneuvering area for combat troops. Camp Butner was declared excess, and accountability for the 40,384.39 acres was assumed by the War Assets Administration on 26 April 1947. In March 1948, the Department of the Army withdrew 4,866.49 acres of land from the area declared surplus and assumed accountability for that acreage. This acreage was computed incorrectly and subsequently changed to 4,856.39. In April 1953, 106 acres of this land were reported excess to GSA and conveyed to S. M. Carpenter by Quit Claim Deed dated 17 August 1953. The remaining 4,750.39 acres which is now the Camp Butner National Guard Range were conveyed to the State of North Carolina by Quit Claim Deed on 27 September 1954. Currently, the site is being used as a community primarily controlled by the State of North Carolina, Federal Correctional Institution, and agriculture lands with increasing land development.

SITE VISIT: John A. Baden (CESAW-PD-E) visited former Camp Butner on 13-16 March 1990 and met with owners or lessees, federal and state officials and various locals.

CATEGORY OF HAZARD: HIW and OEW.

PROJECT DESCRIPTION: There are two potential projects at this site.

a. HTW. There is an abandoned landfill under Lightning Lake that may contain toxic materials. It may require investigation beyond the scope of this PA.

b. OEW. There are former ranges with impact areas for artillery, bazooka, rifle grenades, moving target, rifle, pistol, mortars, rockets and hand grenades that are not fenced or marked as dangerous areas. They may require investigation beyond the scope of this PA. The range area still used by the National Guard does not qualify for investigation under the DERP-FUDS program.

AVAILABLE STUDIES AND REPORTS: The information available for the site includes real estate information and information on dedudding operations for Camp Butner (eleven Inspection Reports of restricted areas and the initial recapitulation dedudding report completed 6 April 1950).

PA POC: John A. Baden, 919/251-4754, Wilmington District.


#### DEFENSE ENVIRONMENTAL RESTORATION PROGRAM FORMERLY USED DEFENSE SITES FROGRAM FINDINGS AND DETERMINATION OF ELIGIBILITY CAMP BUINER, NORTH CAROLINA SITE NO. 104NC000900

#### FINDINGS OF FACT

1. Acquisition and construction authorization for this installation was initially issued in 1942. Of the 40,384.39 acres acquired by the War Department for a World War II Army training facility, approximately 40,201.08 acres were in fee, 128.40 acres in 82 easements, 2.51 acres in licenses, and 52.40 acres in 26 leased tracts.

2. Camp Butner was acquired for use by the Fourth Services Command, Army Ground Forces as a Triangular Division Camp. In part, Camp Butner was utilized as a training and maneuvering area for combat troops. Portions of the property were subject to contamination by shells, rockets, mines and other charges. Improvements to the site included a convalescent hospital, housing for approximately 35,000 men, munitions storage, storehouses, magazine area, rocket range, gasoline stations, stable, and recreational facilities. Camp Butner remained active until 1946.

3. Camp Butner was declared excess, and accountability for the 40,384.39 acres was assumed by the War Assets Administration on 26 April 1947. In March 1948, the Department of the Army withdrew 4,866.49 acres of land from the area declared surplus and assumed accountability for that acreage. This acreage was computed incorrectly and subsequently changed to 4,856.39. In April 1953, 106 acres of this land were reported excess to GSA and conveyed to S. M. Carpenter by Quit Claim Deed dated 17 August 1953. The remaining 4,750.39 acres were conveyed to the State of North Carolina by Quit Claim Deed on 27 September 1954. Much of the land declared surplus by the War Assets Administration was sold to the original owners and other individuals. Inspections were made to locate and destroy any dud rounds. Clearances were given but the Government placed covenants in the deeds restricting the use of the land to surface use only. Inspections were conducted until 1973. Quit Claim Deeds, dated 30 October 1968, and 27 September 1954, reveal that the Government retained recapture rights and there is a provision that the National Guard will hold the Government harmless for activities in connection with use of the firing range.

#### DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701 et seq.

R. M. BUNKER Major General, USA Commander South Atlantic Division Corps of Engineers PROJECT SUMMARY SHEET FOR DERP-FUDS HIW PROJECT NO. IO4NC000901 CAMP BUINER, NORTH CAROLINA SITE NO. IO4NC000900 April 20, 1990

PROJECT DESCRIPTION. There is a landfill of approximately two acres at the bottom of Lightning Lake. There are no records on what was placed in the landfill; however, it is safe to assume that waste products from the hospital and housing areas were discarded in it. Locals of the Camp Butner area brought this site to our attention during a site visit. The Corps did not try to sample the contents of the landfill. There has been no testing of the water in the lake. There is presently a study going on by the Butner Cancer Study Task Force (volunteers in Butner area) to identify the causes of the apparent high rate of cancer in the Butner area. Water from Lightning Lake flows into Lake Holt which is the water supply for Butner and parts of the surrounding community.

PROJECT ELIGIBILITY. The abandoned landfill under Lightning Lake was used by the 78th Division of the 3rd Army (Trng) before they shipped out to Europe in May or June 1944 to dispose of brass and ammunition that could not be packed and shipped. The land was impounded soon after the material was buried, and there was no potential for the use of the landfill by non-DOD parties.

POLICY CONSIDERATIONS. There is no policy applicable to this project. The landfill is eligible for DERP-FUDS if it poses a hazard.

EPA FORM 2070-12: Attached.

PROPOSED ACTIVITIES: The INPR should be referred to MRD for a determination of further action.

POC: John A. Baden, 919/251-4754, Wilmington District.

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DOTEN	ITIAL HAZABOOUS WASTE SITE	I. IDENTI	FICATION
	RELIMINARY ASSESSMENT	OI STAFE C	2 SITE YUMBER
PART 3 - DESCRIPTION	Y OF HAZARDOUS CONDITIONS AND INCIDE	INTS	
IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 I A. GROUNDWATER CONTAMINATION	02 - OBSERVED (DATE)	I POTENTIAL	T ALLEGED
03 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
None noted			
01 C B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 C OBSERVED (DATE	2 POTENTIAL	I ALLEGED
Potential surface water contamin	nation from in-lake landfill.		
01 I C CONTAMINATION OF AIR	02 - OBSERVED (DATE)	TI POTENTIAL	I ALEGED
US POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
None noted			
01 C D FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 COBSERVED (DATE) 04 NARRATIVE DESCRIPTION	2 POTENTIAL	T ALLEGED
None noted			
01 I E. DRECT CONTACT D3 POPULATION POTENTIALLY AFFECTED	02 I OBSERVED DATE	I. POTENTIAL	I ALLEGED
None noted			
01 D.F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED	02 I OBSERVEDICATE	C, POTENDAL	I ALLEGED
None noted			
01 I G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 I OBSERVED (DATE	Ž POTENTIAL	I ALLEGED
Lightning Lake that impounded th water supply for Butner, NC.	e old landfill flows into Lake	Holt, the dr	inking
DI I H WORKER EXPOSURE/INJURY DJ WORKERS POTENTIALLY AFFECTED	02 DOBSERVED COATE	Z POTENTIAL	GED کند I
None noted			
D1 I : POPULATION EXPOSURE INJURY D3 POPULATION POTENTIALLY AFFECTED	02 C OBSERVEDIDATE	- POTENTIAL	I ALLEGED
None poted			

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SEPA POTENTI	AL HAZARDOUS WASTE SITE IMINARY ASSESSMENT	I. IDENTIFI	CATION SITE NUMBER
PART J- DESCRIPTION O	F HAZAHDOUS CONDITIONS AND INCID		
IL AZARDOUS CORDITIONS AND INCIDENTS COMMAN			
01 L J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 _ UBSERVED (DATE:	LI LI POTENTAL	
None noted			
01 I K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Actual range 11 of Inacian)	02 COBSERVED IGATE	D POTENTIAL	Z ALLEGED
None noted			
DI IL CONTAMINATION OF FOOD CHAIN DA NARRATIVE DESCRIPTION		POTENTIAL	GED عنام C
Potential food chain contam	iination in Lightning Lake.		
DI I M UNSTABLE CONTAINMENT OF WASTES	02 - OBSERVED (CATE		
D3 POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		
None noted		<u></u>	
IT I N. DAMAGE TO OFFSITE PROPERTY A NARRATIVE DESCRIPTION	02 C OBSERVED (DATE	I D POTENTIAL	I ALLÉGED
None noted			
IT I O CONTAMINATION OF SEWERS STORM DRAINS, WY * NARRATIVE DESCRIPTION	VTPs 02 _ CBSERVED (CATE	I POTENTIAL	T ALLEGED
None noted			
1 I P ILLEGAL UNAUTHORIZED CUMPING 4 NARRATIVE DESCRIPTION		I POTENTIAL	
None noted			
S DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR A	LLEGED HAZARDS		<u></u>
None noted			
TOTAL POPULATION POTENTIALLY AFFECTED:			
. COMMENTS			
		-	
SOURCES OF INFORMATION CAN DECK IMPORTAL # 3 114	2 * Ref _ Landon analyses, / 4000/11)		
			<u></u>

EPA FORM 2070-12(7-61)

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#### PROJECT SUMMARY SHEET FOR DERP-FUDS OEW PROJECT NO. 104NC000902 CAMP BUINER, NORTH CAROLINA SITE NO. 104NC000900 April 20, 1990

PROJECT DESCRIPTION. The ranges were apparently used for rifle, pistol, hand grenades, rifle grenades, bazooka, moving target, mortars, rockets and artillery practice. Portions of the property were subject to contamination by shells, rockets, mines and other charges. Ordnance are still being found in the area. The ordnance disposal team from Ft. Bragg, North Carolina is called for disposal when an ordnance is found. Some but not all of the Quonset huts in the ammo dump area have been dismantled. In the past, the Quonset huts were used for storage of vegetables by the State of North Carolina. The impact areas of the former ranges are not fenced or marked as dangerous areas.

PROJECT ELIGIBILITY. There are no detailed site maps available to indicate the exact sites or types of the various ranges at Camp Butner. There is a Final Ownership Map of Camp Butner showing the dedudding operations as of 6 April 1950. There were approximately 23,000 acres of ranges at Camp Butner. These ranges were built and used by the War Department. There is no evidence that non-DOD parties have used these ranges for anything but hunting. The ordnance that have been found in the areas of the former ranges are not hunting type ordnance. The range still in use by the National Guard does not qualify for investigation under the DERP-FUDS program.

POLICY CONSIDERATIONS. The current owners or lessees were cooperative. There was a concern about danger to humans from the ordnance left in the area. The impact areas of these former ranges would be eligible for DERP-FUDS if they pose a hazard.

PROPOSED ACTIVITIES: The INPR should be referred to HND for a determination of further action.

RAC: Attached.

POC: John A. Baden, 919/251-4754, Wilmington District.

DERP-FUDS EO Project No. 104NC000902

### APPENDIX A RISK-ASSESSMENT PROCEDURES FOR ORDNANCE AND EXPLOSIVE WASTE (OEW)

OEW RISK ASSESSMENT:

The OEV risk assessment is based upon documented evidence of records searches, reports of Explosive Ordnance Detachment actions, and field observations, interviews, and measurements. These data are used to assess the risk involved based upon the hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

Any field activities should be made with the assistance of qualified EOD personnel.

Fart I. <u>Hazard Severity</u>. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

#### TYPE OF UNEXPLODED ORDNANCE

#### A. High Explosives

	YES Value	NO VALUE	VALUE
Primary or Initiating Explosives (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, etc.)	10	0	
Booster, Bursting or Fuse Explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	5	0	_
Military Dynamite	5	0	
Less Sensitive Explosives (Ammonium Nitrate, Favier Explosives, etc.)	3	0	
High Explosives Value (Maximum value of 10).			

DERP-FUDS EO Project No. 104NC000902

# B. Propellants

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	•	YES VALUE	NO VALUE	VALUE	
	Solid or Liquid Propellants	4	0		
c.	Conventional Ordnance and Ammunition	l			
		YES VALUE	NO VALUE	VALUE	
	Small Arms (.22 cal - 20mm)	1	0	1	
	Medium/Large Caliber (over 20mm)	- 5	0	5	
	Ammunition, Inert (Contains No Explosives	0	0	0	
	Ammunition, Blank or Practice	2	0	2	
	Bombs, Explosive	5	0		
	Bombs, Practice, Fused	2	0		
	Grenades, Mines	5	0	5	
	Grenades, Mines, Practice, Fused	2	0	2	
	Detonators, Blasting Caps	5	0		
	Rockets, Missiles	5	0	5	
	Demolition Charges	4	0		
	Conventional Ordnance and Ammunition	ORS Va	lue (Maxim	um of 5).	5
D.	Pyrotechnics	YES Value	<u>no</u> Value	VALUE	
	White Phosphorus	5	0		
	Pyrolusite	4	0		
	Flares	3	0		
	Smoke Rounds and Bombs	3	0		
	Pyrotechnics Value (Maximum of 5).				

E. Chemical Weapons/Agents

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		<u>YES</u> VALUE	NO VALUE	VALUE	
	Toxic Chemical Warfare Agents (GB, VX, E, ED, BZ,, etc.)	40	0		
	Vomiting Agents (DA, DM, DC, etc.)	20	0		
		<u>Yes</u> Value	NO VALUE	VALUE	
	Tear Agents (CNS, CNB, BBC, CS, etc.)	20	0		
	Chemical Weapons Value (Maximum 4)	0)		_	_
	Total Ordnance and Explosive Waste $\lambda + B + C + D + E$ with a Maximum v	e Character Value of 65	ristics Va 5).	lue (Total =	5
	ESTIMATED QUANTITY OF U	JNEXPLODED	ORDNANCE	ON SITE	
À.	Bulk Explosives (High Explosive, H	Propellant,	etc.)		
	Weight of Bulk Explosives (lbs)/it	tem	VALUE		
	0 to 1		0		
	1 to 10		2		
	10 to 100		4		
	101 to 500		6		
	501 to 1000		8		
	Over 1000		10		
Β.	Ordnance Rounds/Acre				
	No. of Rounds, Containers, etc.		VALUE		
	0		0		
	1 to 9		2		
	10 to 100		4		

	VALUE		
101 to 500	6		
501 to 1000	8		
Over 1000	10	_4	
Quantity of Ordnance and Explosive Waste From A and B (Maximum of 20).		4	
Total Value for Hazard Severity. Sum of Value for Type of UXO and Quantity of UXO. (Not to exceed 85). Apply this Value to Hazard Severity Table 1 to Determine Severity Category.			9

TABLE 1

	HAZARD SEVERITY	
Description	Category	Value
CATASTROPHIC	I	<u>&gt;</u> 30
CRITICAL	II	<u>&gt;</u> 20 <30
MARGINAL	III	<u>&gt;</u> 10 <20
NEGLIGIBLE	IV	<10

* Apply Hazard Severity to Table 3.

Part II. <u>Hazard Probability</u>. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

#### AREA, EXTENT, ACCESSIBILITY OF CONTAMINATION

A. Locations of Contamination

YES NO • VALUE VALUE VALUE Within Tanks, Pipes, Vessels 5 0 or Other confined locations. 5 On the surface or within 3 feet. 5 0 Inside walls, ceilings, or other 0 4 parts of Buildings or Structures. 3 0 Subsurface, greater than 3 feet in depth. Value for location of UXO. (Maximum Value of 5). 5____

B. Distance to nearest persons or normally inhabited structures likely to be at risk from OEV site.

Distance to Nearest Target	VALUE	
Less than 1250 feet	5	
1250 feet to 0.5 miles	4	
0.5 miles to 1.0 mile	3	
1.0 mile to 2.0 miles	2	
2.0 miles to 5.0 miles	1	
Over 5.0 miles	0	
Distance to Persons Value (Maximum Value of 5).		5

C. Distance to nearest utility system (power, water, or gas) or public highway likely to be at risk from OEW site.

Distance to Nearest Target	AYLAE
Less than 1250 feet	5
1250 feet to 1 mile	3

1 ADVL	V	λ	L	l	J	E
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VALUE

1 mile to 2 miles		1
Over 2 miles	ć	0

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Distances to Public Utilities/Highways Value (Maximum Value of 5). 5

D. Numbers and types of Buildings within a 2 mile radius measured from the hazardous area, not the installation boundary.

	Number of Buildings	VALUE	
	0	0	
	1 to 10	1	
	11 to 50	2	
	51 to 100	3	
	101 to 250	4	
	251 or Over	5	
	Number of Buildings Value (Maximum Value of 5).		5
Ε.	Types of Buildings		

Educational, Child Care, etc.	5
Residential, Hospitals, Hotels, etc.	5
Commercial, Shopping Centers, etc.	5
Industrial Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
Hilitary	1
No Buildings	0
Types of Buildings Value (Maximum Value of 5).	

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F. Accessibility to site refers to the measures taken to limit access by humans or animals to ordnance and explosive wastes. Use the following guidance:

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Barrier	Assigned Value	
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or	0	
An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility).	0	
Security guard, but no barrier	1	
A barrier, but no separate means to control entry	2	
Barriers do not completely surround the facility	3	
No barrier or security system	5	
Accessibility Value (Maximum Value of 5).		5
G. Site Dynamics - This deals with site condition in the future, but may be stable at the present. soil errosion by beaches or streams, increasing 1 reduce distances from the site to inhabitated are accessability.	ons that are subje Examples would h and development t as or otherwise j	ect to change be excessive that could increase
None Anticipated	VALUE	
Expected	5	
(Maximum Value of 5)	. <u>5</u>	
Total value for hazard probability. Sum of Values A through G. (Not to exceed 35). Apply this value to Hazard Probability Table 2 to determine Hazard Level.		35

## TABLE 2

HAZARD PROBABILITY					
Description	Level	Value			
FREQUENT	A	<u>&gt;</u> 20			
PROBABLE	В	<u>&gt;</u> 15 <20			
OCCASIONAL	с	<u>&gt;10</u> <15			
REMOTE	D	<5 <10			
IMPROBABLE	E	< 5			
* Apply Hazard Probabilit	y to Table 3.				

Part III. <u>Risk Assessment</u>. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

#### TABLES 1 AND 2

HAZARD SEVERITY - <u>IV</u> (from Table 1)

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HAZARD PROBABILITY - <u>A</u> (from Table 2)

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# TABLE 3

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Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	4	5
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	3	4	5
NEGLIGIBLE	IV	4	4	4	4	5

# RISK ASSESSMENT CODE (RAC)

RAC	1	Imminent Razard - Emergency action required to mitigate the hazard or protect personnel (i.e., Fencing, physical barrier, guards, etc.).
RAC	2	Action required to mitigate hazard or protect personnel. Feasibility study is appropriate.
RAC	3	Action required to evaluate potential threat to personnel. High priority confirmation study is appropriate.
RAC	4	Action required to evaluate potential threat to personnel. Confirmation study is appropriate.
RAC	5	No action required.

RAC 4



CESAW-PD-E (200)

#### DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

P.O. BOX 1890 WILMINGTON, NORTH CAROLINA 28402-1890

IN REPLY REFER TO

10 May 1990

MEMORANDUM FOR Commander, South Atlantic Division, ATTN: CESAD-PD-R

SUBJECT: Defense Environmental Restoration Program - Formerly Used Defense Sites (DERP-FUDS) Inventory Project Report (INPR) for Site No. IO4NC000900, Camp Butner, Butner, North Carolina

1. This INPR reports on the DERP-FUDS preliminary assessment of former Camp Butner, Butner, North Carolina. A site visit was conducted on 13, 14, 15, and 16 March 1990. The site survey summary sheet and site map are at enclosure 1.

2. We determined that the site was formerly used by the U.S. Army. A recommended Findings and Determination of Eligibility is at enclosure 2.

3. We also determined there is hazardous waste at the site eligible for cleanup under DERP-FUDS. The categories of hazardous waste at the site are HTW and EO. Project summary sheets are at Enclosures 3 and 4 for the potential HTW and EO projects.

4. I recommend that you:

a. Approve and sign the Findings and Determination of Eligibility;

b. Forward a copy of this INPR to MRD for a determination of the need for further study at the trash dump; and

c. Forward a copy of this INPR to HND for the PA file and recommend an SI for the potential EO project.

4 Encls

THOMAS C. SUERMAŃN LTC, Corps of Engineers Commanding

CESAW-PD Files



DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS ROOM 313, 77 FORSYTH ST, S.W. ATLANTA, GEORGIA 30335-6801

REPLY TO ATTENTION OF

s:	16	October	1990
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1 5 OCT 1990

CESAD-PD-R (200)

MEMORANDUM FOR COMMANDER, SAVANNAH DISTRICT, ATTN: CESAS-EN-G

SUBJECT: DERP-FUDS Inventory Project Reports (INPR) Nos. IO4NC000900, IO4NC001700, and IO4NC080300

1. Reference CEMRD-ED-EA Memorandum dated 26 September 1990, same subject (enclosed).

2. CEMRD has recommended CESAS conduct Site Inspections (SI) at the following DERP-FUDS sites:

a. U.S. Naval Ammunition Depot, Charlotte, NC, Project No. 104NC080300.

b. Camp Davis, Holly Ridge, NC, Project No. 104NC001700.

c. Camp Butner, Butner, NC, Project No. 104NC000900.

3. As requested in paragraph 3. of the enclosed reference, please prepare a cost estimate and time schedule for each project and send to CESAD-PD-R by 16 October 1990. Since CESAM-PD has performed SI's since 1986, I strongly suggest you use their developed expertise in this work, as needed. If you have any questions, please contact Mr. Gary Mauldin at FTS 841-6043.

FOR THE COMMANDER:

Encl

JOHN W. RUSHING Director of Planning

CF (w/encl): CESAW-PD-E (UL 10/18 CESAS-PD-E CESAD-EN-F

South Atlantic Division - Leader in Customer Care

DEPARTMENT OF THE ARMY MISSOURI RIVER DIVISION, CORPS OF ENGINEERS P.O. BOX 103, DOWNTOWN STATION OMAHA, NEBRASKA 68101-0103



REPLY TO ATTENTION OF

S: 17 October 1990

26 September 1990

CEMRD-ED-EA (200-1c)

MEMORANDUM FOR Commander, U.S. Army Engineer Division, South Atlantic, ATTN: CESAD-PD-R, Room 313, 77 Forsyth Street, S.W., Atlanta, GA 30335-6801

SUBJECT: DERP-FUDS Inventory Project Reports (INPR) Nos. I04NC000900, I04NC001700 and I04NC080300

1. References:

a. Memorandum, CESAD-PD-R, 6 July 1990, subject: Former U.S. Naval Ammunition Depot, Charlotte, NC.

b. Memorandum, CESAD-PD-R, 6 July 1990, subject: Former Camp Davis, Holly Ridge, NC.

c. Memorandum, CESAD, 6 July 1990, subject: Former Camp Butner, Butner, NC.

2. CEMRD has reviewed the subject INPRs and recommended to CEMP-R (copies enclosed) that the Site Investigations (SI) be partnered to CESAS, the qualified HTW Design District.

3. In support of this recommendation, please provide the following:

a. Cost estimates (DD Form 1391 or equivalent) for each project, including scoping.

b. Estimated time schedules for each project (by quarter and FY) including scoping, contract award and project completion.

4. If you have questions please contact Dr. Nancy Andrews, (402) 691-4533.

FOR THE COMMANDER:

Encl

WILLIAM P. TODSEN, P.E. Director, Engineering Directorate

CEMRD-ED-EA (200-1c)

7 SEP 1990

MEMORANDUM FOR CDR USACE (CEMP-R) WASH DC 20314-1000

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Former U.S. Naval Ammunition Depot, Project No. 104NC080300, Charlotte, NC

1. Reference memorandum, CESAD-PD-R, 6 July 1990, SAB (encl).

2. I recommend that CEMP-R approve the subject HTW project, which includes a landfill and an ammunition burning pit, and assign it through South Atlantic Division to CESAS, the Qualified HTW Design FOA. The next phase of this project is a site investigation (SI) with an estimated cost of \$110,000. The SI should be completed within nine months following authorization of funds.

3. If there are any questions, please contact Dr. Nancy Andrews, telephone (402) 691-4533.

/s/ Eugene S. Witherspoon

Encl

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EUGENE S. WITHERSPOON Brigadier General, USA Commanding

CF: CEMRD-ED-EA (Andrews) CEEND CESAS

File #HTW G2 IO4NCO<del>00900</del> 80300 Andrews -Schtemann/gc/691-4533

Zebrowski/CEMRD-ED-EA

Winnike/CEMRD-ED-E

Hokens/CEMRD-ED

Todsen/CEMRD-ED

Chester/CEMRD-XA

Davis/CEMRD-DC

Witherspoon/CEMRD-DE

7 SEP 1990

CEMRD-ED-EA (200-1c)

MEMORANDUM FOR CDR USACE (CEMP-R) WASH DC 20314-1000

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Former Camp Davis, Project No. I04NC001700, Holly Ridge, NC

1. Reference memorandum, CESAD-PD-R, 6 July 1990, SAB (encl).

2. I recommend that CEMP-R approve the subject HTW project and assign it through South Atlantic Division to CESAS, the Qualified HTW Design FOA. The next phase of this project is a site investigation (SI) with an estimated cost of \$80,000. CESAS should coordinate closely with CEHND to complete any Ordnance Explosive Waste (OEW) projects first, as appropriate. The SI should be completed within 9 months following authorization of funds.

3. If there are any questions, please contact Dr. Nancy Andrews, telephone (402) 691-4533.

Is Eugene S. Witherspoon

Encl

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EUGENE S. WITHERSPOON Brigadier General, USA Commanding

CF: CEMRD-ED-EA (Andrews) CEHND CESAS

File #HTW G2 IO4NCOO<del>0900</del> Andrews 1700 -Sohiomarm/gc/691-4533

Zebrowski/CEMRD-ED-EA

Winnike/CEMRD-ED-E

Hokens/CEMRD-ED

Todsen/CEMRD-ED

Chester/CEMRD-XA

Davis/CEMRD-DC

Witherspoon/CEMRD-DE

CEMRD-ED-EA (200-1c)

5 SEP 1990

MEMORANDUM FOR CDR USACE (CEMP-R) WASH DC 20314-1000

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Former Camp Butner, No. 104NC0009000, Butner, NC

1. Reference memorandum, CESAD-PD-R, 6 July 1990, SAB (encl).

2. I recommend that CEMP-R approve the subject HTW project and assign it through South Atlantic Division to CESAS, the Qualified HTW Design FOA. The next phase of this project is a site investigation (SI) with an estimated cost of \$80,000. CESAS should coordinate closely with CEHND to complete any Ordnance and Explosive Waste (OEW) projects first, as appropriate. The SI should be completed within nine months following authorization of funds.

3. If there are any questions, please contact Dr. Nancy Andrews, telephone (402) 691-4533.

Isl Eugene S. Witherspoon

Encl

EUGENE S. WITHERSPOON Brigadier General, USA Commanding

CF: CEMRD-ED-EA (Andrews) CEHND CESAS

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Winnike/CEMRD-ED-E

Hokens/CEMRD-ED

Todsen/CEMRD-ED

Chester/CEMRD-XA

Davis/CEMRD-DC

Witherspoon/CEMRD-DE



CEHND-PM-OT

HUNTSVILLE DIVISION CORPS OF ENGINEERS (1) John Friden P. C. BOX 1600 HUNTSVILLE AL=BAMA 35807.4301 (2) PD Files

S: 28 May 1991

22 April 1991

NIT TO ATTITION OF

### MEMORANDUM FOR Commander, U.S. Army Engineer District, Savannah, ATTN: CESAS-PD-EI (Mr. Dave Crosby), P.O. Box 889, Savannah, GA 31402-0889

SUBJECT: Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS); Inventory Project Report (INPR) for Former Camp Butner, Project No. 104NC000900, Butner, NC

1. Reference memorandum, CEMRD-ED-EA, 7 September 1990, subject SAB, and subsequent 1st endorsement, CEMP-RF, 17 January 1991 (copy enclosed).

2. We have programmed an ordnance and explosive waste (OEW) site investigation (SI) at the subject site for 1st quarter FY92. If this time frame is not acceptable, request you provide us with a schedule for all work at this site so that we may request HQUSACE revise the OEW FY91/92 Work Plan. Please respond with your determination by 28 May 1991.

3. The point of contact is Mr. Walter Perro at DSN 645-5142 or commercial 205-955-5142.

FOR THE DIRECTOR OF PROGRAMS AND PROJECT MANAGEMENT:

LAWSON S. LEE

Encl

Chief, Ordnance and Technical Programs Division

CF: Commander, U.S. Army Corps of Engineers, ATTN: CEMP-RF (Mr. Jim Coppola), 20 Massachusetts Avenue, NW., Washington, DC 20314-1000 Commander, U.S. Army Engineer Division, South Atlantic, ATTN: CESAD-PD-R, Room 313, 77 Forsyth Street, SW., Atlanta, GA 30335-6801 ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX G

REAL ESTATE DOCUMENTS

#### APPENDIX G

#### REAL ESTATE DOCUMENTS

Table of Contents --------------G-1 Realty Control File Summary, Unknown date (B-34) G-2 Letter, War Department, Subject: Selection of Training Areas, February 12, 1942 (B-35) G-3 Acquisition File No. CE 601.1, War Department, 27 September, 1943 (B-36) G-4 Real Property Inventory Report, 26 November 1943 (B-37) G-5 Warning Notices, Inactive and Surplus Lands, various dates (B-38) G-6 Declaration of Surplus Real Property, 29 May 1947 (B-39) G-7 Message, Surplus Facilities Branch, 30 April 1947 (B-40) Realty Record Extracts Sheets, 25 February 1944 (B-41) G-8 G-9 Declaration of Surplus Real Property, 2 July 1947 (B-42) G-10 Declaration of Surplus Real Property, 2 September 1947 (B-43) G-11 Letter, War Department, Subject: Transmittal of OCE Forms 290, 24 October 1947 (B-44) G-12 Declaration of Surplus Real Property, 17 December 1947 (B-45) G-13 Declaration of Surplus Real Property, 13 May 1949 (B-46) G-14 Military Acquisition Project Report, 19 October 1949 (B-47) G-15 Declaration of Surplus Real Property, 31 January 1950 (B-48) G-16 Real Estate Documentation (various), April 2, 1953 (B-49) G-17 Quitclaim Deed, NC, 27 September 1954 (B-50) G-18 Memorandum, Final Audit of Land Records, Audit No. 3037, 4 January 1958 (B-51)

G-19 Revised Jurisdiction Summary, 28 February 1958 (B-52)

G-20 Real Property Disposal Report, Audit No. 3037, 31 December 1957 (B-53)

G-21 Quitclaim Deed, VA, 30 October 1968 (B-54)

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REALTY CONTROL FILE SUMMARY (Lond Acquisitions and Disposals Subsequent to 1 July 1940)

3037

RESERVATION NAME

Camp Butner, North Carolina

OFFICIALLY DESIGNATED BY;

A.G.O. Letter, dated 2-12-42

#### LOCATION;

1

In Durham, Granville and Person Counties, 8 miles S.W. of Oxford and 9 miles N.E. of Durham, North Carolina

#### TYPE:

Triangular Division Camp

LAND OWNERSHIP AND COST DATA DISPOSAL ACTIONS ACQUISITION ACTIONS Exhibits "B" See: Volume II and  $I\Pi$ Exhibits "A" LEASED FORTASS NOT INCLUCED MA DISCT ASSURDS \$30 BAR GROSS COST NET AREA 40,201.08 acres, fee 128.40 acres, easements (82)-includes (2) E. no area <u>2.51</u> acres, licenses (3) \$1,342,326.70 40,331.99 acres, total area acquired 40,331.99 acres * 00,000.00 4,856.39 acres, fee * • 4,856.39 acres 4,856.39 acres *** 00.00 RELOCATIONS JURISDICTION Exhibits "C" Exhibits "D"

FINAL PROJECT MAP

#### Exhibit "F"

MISCELLANEOUS PAPERS

Exhibits "E"

# REMARKS'

4.6.5.1

constant to assume the War Assets Administration, 26 April 1947.
 toconstant ty reassumed (withdrawn) by Dept. of Army, 26 March 1948.
 least acres. reported to 0.04 (Form 30) dated 20 April 1953, who conveys 3.M. Cartenaer by QCD dated 17 August 1953.

", "50.33 across conveyed to State of North Carolina by QCD dated 27 Septemt

DL.

G-1

43 601.1 (2-10-42)150-7

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Whit DEFARTMENT The Adjutuat General's Office hashington

JJF/1r

Nebruary 12, 1942

Subject; Selection of Training Areas, Darman, Horth Caroline.

TO: Didef of Lagineers.

1. So much of G-4 Hemorandum for the Chief of Engineers, January 10, 1942, Subject: "Land Acquisition at Hem Camp Sites" as pertains to Durham, North Caroling, is rescinded.

2. Authority for the acquisition of approximately 60,000 acres of land to provide cantonment and training aits at Durham, North Carolins, for a triangular division, at an approximate cost of \$2,200,000 contained in letter this office to the Under Secretary of Nar, January 14, 1942, AO 601.1 (1-9-42)MD-D, Subject: "Acquisition of New Camp Sites (Hopkinsville, Ny.; Colorado Springs, Colo.; Columbus, Inc.; Cookson Hills, Okla.; Durham, N. C.; Medford, Ore.)", is modified to authorize the acquisition of approximately 45,000 acres at that site as outlined on accompany map, at an approximate cost of C1,719,976.

by order of the Secretary of Vari

Adjutant General.

l incl. Sap.

Receive L. . . Iranci - February 14, 1942.

G-2

#### WAR DEPARTMENT

#### ---- OFFICE OF THE CHIEF OF ENGINEERS

File No. CE 601.1 (Camp Eutner, N. C.) SPELR

Date 27 September 1945.

Subject Acoulsition of Eaw Water Line and Telephone and Power Line Easements, Camp Butner, North Carolina. From CHIEF, REAL ESTATE BRANCH To CHIEF, CONDEMNATION SECTION

1. By directive of 14 January 1942, approximately 45,000 acres of land were acquired for Camp Butner, North Carolina, at the estimated cost of \$ 1,719,970.

2. Based upon the request and recommendation of the Division Engineer, 6 August 1943, necessity exists for the acquisition of perpetual easements for a Raw Water Line and Telephone and Power Line in, over and above certain lands indicated in subject above and described more in detail in peragraph 3 below.

2. Description of land and other pertinent data are as follows:

a. BRIEF DESCRIPTION OF LAND: A certain parcel of land in Mangum Township, Durham County, North Carolina, adjoining Camp Butner Military Reservation and described more fully in attached papers and map.

b. PROPOSED USE: For water line, telephone and power line rightof-way.

c. ACREAGE INVOLVED: 0.72 of an acre, more or less.

- d. ESTIMATED COST: \$75.00.
- e. ESTATE TO BE ACQUIRED: Perpetual easement.
- f. METHOD OF ACQUISITION: By Condemnation.

4. Funds for this acquisition are evailable from funds ellotted in the directive of 14 January 1942.

5. Fursuant to general directive issued by the Under Secretary of Wer, deted 10 April 1942, you are authorized to obtain the necessary easements in, over and above the above described percel of land.

12C

Attached: Memo 9-23-43 W/incls.

Forwarded to Chief, Condemnation Section 27 September 1943.

RE-D 343 🛓

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	REAL.	PROPERTY INVESTOR	TREPORT	
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	L. Camp Butner //	2. Date	of report: 26 Novembe	or19_43
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	3. (4) Durban (b) Durhan & Person(c) N.	C4. (4)	AGP (b) 4th Serv	ice Command
	Location County Stat	;● <b>(</b> ) 	Using force) (Command	1 or service)
	5. Triangular Div	taional Camp		
	(Type of station (Repla	coment training C	enter, Armored division de	imp, etc.))
	6. (s) <u>18</u> miles distant from city of (b)	Durham	whose population is	(c) <u>70,000</u>
			bi y son	/• <b>T</b>
	7. TOTAL LAND AREA: 40,187 (a) Areas maintained under continuous use			<u>180 <u>184880</u> 75.73</u>
	(b) Other areas necessary to operation			11.27
	(c) Areas not in use (excess lands)		<u>Non</u>	<u>م</u>
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	<ul> <li>8. LEASED FACILITIES: Type (hotel, warehouse, air Annual rental Total cost of alterations a</li> <li>9. ROUBING: </li> <li>(a) Hilitary Personnel (for capacity, based on 60 sq. ft. per man. 120 sq. ft. per officer</li></ul>	field. etc.) Non t Government exper A) DESIGNED CAPACI 44.042 41.528 100 2.006 508 44.042 None 2.266 44.042 100 0 2.006 508 44.042 100 0 2.006 508 44.042 100 0 2.006 508 44.042 100 0 100 100 100 100 100 100	$ \begin{array}{c}                                     $	C) GENERAL CONDITI E-Excellent O-Oood F-Fair U-Unsatisfactor Rating by Rating <u>post</u> Sarvic <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>
	<ul> <li>8. LEASED FACILITIES: Type (hotel, warehouse, air Annual rental Total cost of alterations a</li> <li>9. HOUBING: <ul> <li>(a) Hilitary Personnel (for capacity, based on 60 sq. ft. per man. 120 sq. ft. per officer</li></ul></li></ul>	field, etc.) Non t Government experi A) DEBIGNED CAPACI 41.528 41.528 100 2.006 508 44.042 None 2.266 459.865 413.371 140.706 322.610 187.750 647.242	$ \begin{array}{c}                                     $	C) GENERAL CONDITI E-Ercellent O-Oood F-Fair U-Unsatisfactor Rating by Rating post Sarvic G G G C C C C C C C C C C C C C

Number on Govit. Number on 14. BUILDINGS & STRUCTURES Rating by Rating by Owned Lands Leased Lands TOOL Service Command (a) Fermanent buildings..... (Masonny walls) (b) Temporary buildings..... (1) Cantonment Type..... 1860 349 (2) T. of O. type..... None ۰. (5) Hutments..... None (C) Tents..... (d) Hangars..... None (Sizes: 16. ROADS: (a) Primary (miles) ..... 47.9 (b) Secondary (miles)...... 52.297 045 (c) Parking areas (sq. yds.). 16. RAILROADSI G (a) Trackage (miles)..... 11.82 (b) Average weight of rail_85_1bs. Runway No. 2 Runway No. 3 Runway No. 4 Runway No. 1 RUNWAYS (list each separately): 17. (a) Direction (b) Type of paving (c) Length (d) Width (e) Design load (f) Character of approaches (g) Type of airplane now using (h) Traffic volume (1) Are pavements satisfactory for present traffic? (j) What is life expectancy with: 1. Present traffic 2. Lighter traffic 3. Heavier traffic (k) General Condition - Rating by post Rating by SC. 18. TAXIWAYS (list each separately): (a) Type of paving None (b) Length (c) Width (d) Design load (e) General condition - Rating by post Rating by SC. 19 APRONS: None (a) Type of paving (b) Square yards (c) Design load (d) General condition - Rating by post Rating by SC. 69,9 (d) Normal annual rainfall ____46.42 WEATEER: (a) Haximum temperature (annual 20. (e) NOTEsl annual snowfall ______ 50.7 (b) Hinimum temperature (annual . (c) Average annual temperature . 60.3 21. CIVILIAN PERSONNEL - AVAILability: Plentiful ____ Sufficient Insufficient ____ _X 22. TRANSPORTATION FACILITIES: (a) RAILROAD: (1) Passenger service - Adequate Yes (Yes or no) (2) Freight service Yee - Adequate (Tes or no) (D) AIRWAT: Airport service Yes_ - Adequate (Tes or no) (c) HIGHWAT: Yeg Access Roads - Adequate (Tes or no) None (C) WATERWATS: - Adequate (Yes or no)or none) 1014: Two existing Landing Fields of approximately 338,800 nn. vds. have been constructed with local troop labor which are utilized by Piper Cub Planes for observation pur- 36 posee. A total of eighteen (18) planes with epproximately seventy-five (75) opera-

tions per day.

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G-4

GREERAL CONDITION

• • •	•	• (	SUPPLEM	KNT FORM -	OF	REPORTS		
9.	HOUSI	CNG s	RE (A) DESIGNED	CAPACITY	(B)	ACTUAL OCCUPAN	(C) GENERAL CO	NDITION
	20000					CT OR USE	B-Excellen G-Good	t F-Fair
			(1) Govt.	(2) Leased	(3) Total		Rating by Dost	Rating by Service Command
	(a)	Military Personnel	(for 60			1		
		sq. ft. per man, li	20 r) 41 529			20.154	Q	
	<b>(b)</b>	Civilian War Housin	61 100		<del></del>			
		2. Dormitory units	0	· · · · · · · · · · · · · · · · · · ·			······································	
	(c)	Prisoners of War (f espacity, based on	or . 60			1		
		sq. ft. per man, 1 ao. ft. per office	20 17) 2.006			1.250	<u></u>	
	(d)	Other housing	508	· · · · · · · · · · · · · · · · · · ·	44 042	44	<u>G</u>	
••	(	TOTAL Hood conseiter	<u> </u>		<del>، علاقات والل</del> ي			
10.	(a)	General hospitals:						
		l. No. beds in per nent buildings.	···· <u>None</u>					
		2. No. beds in tem rary buildings.	None					
	(b)	Station hospitals:						
		manent building	<u> </u>		745		E	<u> </u>
		2. No. of beds in porary building	tem - s0_					
n.	STOR	AGE SPACE (square fe	et)					
	(.)	Closed storage: 1. Heated	469.866		469,866		<u> </u>	
	<b>(b)</b>	2. Unheated	413,571		413,571			
	(0)	1. Paved	140.706	<u> </u>	140,706		<u> </u>	
	(0)	Sheds	<u>322.610</u>		382,010			
	(d)	Igloos	<u> </u>		8_400	<u></u>		
12.	OFFI (equ	CE BUILDING SPACE	187.750		187.750	<del></del>	<u>6</u>	
13.	SHOP	SPACE (square feet)	) 647.742		647.742		G	
<u>ν</u> μ.	BUII	DINGS & STRUCTURES	DESIGNED				GENERAL	CONDIT ION
		-	CAPACITY	Number is Owned	on Gov't. 1 Lands	Number on Leased Lands	Rating by post	Rating by Service Comma
			as 9(a) abov	•)				<u> </u>
	(a)	Permanent Building	s <u> </u>		_54	None	<u> </u>	
	(h)	(Masonny walls) Temporary building	•					
	,	1. Cantonment Typ 2. T. of 0. type	• <u> </u>	<u></u>	860 349	<u>None</u>	<u>G</u>	
	(-)	3. Hutmente	·					
	(d)	Hangars	•llone •None				·	· · · · · · · · · · · · · · · · · · ·
	(•)	(Siles: Whartes:				\$		
		1, General Purpos	•					
		Piers(No.	)					
		Berths[No. 2. Marine Repair	)				·	
		Shops	• <u>None</u>		· · · · · · · · · · · · · · · · · · ·	- <del></del>	·	
		(Sq. Pt.).	•					-

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	DERTH OF BROWN WATER LEVEL, Does not apply 24. THE OF BOIL Clay and Sandy
	bert of thome which beyond
35 -	GENERAL DRAINAGE CONDITIONS (Generics Drivily approvalizatory by the the sub-sub-act good; 1/4 of the
26.	FLOODING FROM RIVERS, RAINFALL, ETC. 7 DESCRIPT BRIDEL BRIDEL BRIDEL BRIDEL BRIDEL BRIDEL
27.	RECURRENT NEAVY WIND STORMST DESCRIBE BRIEFLY EXTENY AND RECURRENCE
	(yes of bo)
	50,000 /00
28.	WATER SUPPLY: (a) Adequate for <u>outvic</u> troops based on <u>to spin saidous per capita per day</u> , (b) Chemically and becteriologically satisfactory? <u>Yes</u>
	(yes or bo)
29.	REWARK SYSTRM: (a) Adequate for 50.000 troops based on 70 sallons per capita per day.
	(b) Does discharge of effluent create health menace or mulsance? No
	(hes of Ho)
80-	ELECTRICAL SUPPLY: (a) Is supply source satisfactory? Yes.
	(b) Condition of post distribution system: Good Yes. Satisfactory
••	(yes Dr DO) (yes or no) (yes or no) (yes or no) (yes or no) (yes
41.	
88.	PRINCIPAL FUEL: Coal X . Gas Oll Other (describe) Rospital
33.	SPACE SEATING, PRINCIPALLY BY: Central plant Laundry. Furnaces 852 . Stoves 2.086
34.	LAUNDAY: (a) Is it post-operated? Yes (b) Rated capacity (number of men) 20,000 per A hrs. shift
	(yes or no)
\$5.	BERVICES TO OTHERS: Describe utility services, if any, furnished to other seencies or to private consumers:
	Emergency water supply to the town of Greedmoor - not to exceed 1.000.000 gals, per month. Tampor
36.	STATE CONDITIONS THAT CONTRIBUTE TO HIGE OPERATION AND MAINTENANCE COSTS:
	None Foreseen.
37.	LIST ESTIMATED COST OF LARGE REPAIRS OR RECORDERUCTION REQUIRED IN BEAT 12 MONTHS AND A DOUDLE
	IN THE 13 WONTHS FOLLOWING None Foreseen
38.	Lay-out map attached showing acreages of areas, location and identification of buildings and improvements, etc.
	if not attached, when will it be submitted? <u>3 Maps Attachad</u>
39.	Are photographs of general area and buildings available? Artial photographs available and maybe obtained
	Revised 1943 Aprilal Photography At Antherence No. 1st Addition AS-3 Scale - 20,000
	PARPARED BY THE THE OUN APPROVED: _////
	· · · · · · · · · · · · · · · · · · ·
	Post engineer Commending Officer
	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineers, Colonal Infantry,
40	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineers Answers by ERRYICE COMPAND Colonel, Infantry, Total (ART OF CONSTRUCTION DO DATE & 39,30°, 742004) of land available
40.	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineers TOTAL COST or years of construction; if part is estimated, give amount of estimate and describe parts Actual and year or years of construction; if part is estimated, give amount of estimate and describe parts Actual and the setimated of the setimated of the setimate and describe parts Actual and the setimated of the setimated of the setimate and describe parts Actual and the setimated of the setimated of the setimate and describe setimated of the setimated as a set of the setimated of the set of the setimated of the set of the s
40.	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineeran Answersen average Colonel, Infantry, Total cost of construction to date \$ 39,300,74 Cost of land excluded, State whether estimated or actual and year of years of construction; if part is estimated, give amount of estimate and describe party Actual and Suitability of Post FOR PRESENT USE: Excellent Occd
40. 41.	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineerant Answerse by statyles company TOTAL COST OF CONSTRUCTION TO DATE \$ 39,300,74}Cost of land excluded, State whether estimated or actual and year of years of construction; if part is estimated, give amount of estimate and describe party Actual SUITABILITY OF POST FOR PRESENT USE: ExcellentOoodFairUESELISTACTORY
<b>40.</b> <b>41.</b> ●3.	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineers TOTAL COST OF CONSTRUCTION TO DATE \$ 39,30%,7% Cost of land excluded, State whether estimated or sectual and year of years of construction; if part is estimated, give amount of estimate and describe parts Activation, 43 SUITABILITY OF POST FOR PRESENT USE: ExcellentOcod(a) Civilian Housing(a) Civilian Housing(b) Civilian Housing
40. 41. •3.	Post engineer R. PRESTON WATTS, Hajor, Corps of Engineers TOTAL COST OF CONSTRUCTION TO DATE 8 39,300,74 (Cost of land excluded, State whether estimated or actual and year of years of construction; if part is estimated, give amount of estimate and describe party Antonal or 43 SUITABILITY OF POST FOR PRESENT USE: ExcellentOcod
40. 41. •3.	Post engineer Post engineer R. PRESTON WATTS, H. M. POOL, Hajor, Corps of Engineers TOTAL cost or construction to dats \$ 39,300,74 (Cost of land excluded, State whether estimated or actual and year or years of construction; if part is estimated, give emount of estimate and describer party Anthral 012-43 SUITABILITY OF POST FOR PRESENT USE: ExcellentOood

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WORKSHEET FOR ASSIFYING LANDS PURCHASED SINCI

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: AREA : LAND USE		USE :	WA	WAR MODIFICATION 1/			AVAILABLE FOR AGRICULTURAL USS			USE	
						TOTAL				18	
	1	ACQUIRED:	<u> </u>	<u> </u>	: 3	: 100al	•	· oropa	. OIGTUR	FUIGAW	MLBC.
	: • Cron Land	12,095		6000	•	6000	6095	6095	: :		
	· Grazing	1.613	·	•	1500	1500	, 113	• <del></del>	113		
	· Forest	26.609	·	•	5500	5500	21109	• <del></del>	1267	19842	
1	16 ec.	••	·	•	•	•	• <u> </u>	•	· <u></u> *	•••••••••••••••••••••••••••••••••••••••	
					·		27317	6095	1380	19842	
	TUIAL	<u>40,517</u>		<u> </u>	7000	<u>; ^^^^</u>	· • • • • • • •	6000	1830	5170	
	TUTAL MOD.	· AAAA		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •	HO317	12095	3210	250187	
	: RECLASS.	·		: <u>_^^^</u>	* <u></u>	·				<u> </u>	
	:Crop Land	::		:	:	:	::	·	::		
	: Grazing	·;		: 	:	•	. <b>:</b> ;		:;		
	:Forest	·;	²	·	:	•	:		::	:-	
2	:Misc.	·:			:	•	·		:;		<u></u>
-	: TOTAL	;;	<u>IXXX</u> :	<u> </u>	: <u>XXXX</u> :	XXXXX	:;	<u> </u>	:;	;_	
	TOTAL MOD.	: <b>IXXI</b> _:			:;	·	: <u>XXXXX</u> :		::		
	:RECIASS.	: <u>XXXX</u> _:	XXXX	XXXX	: <u>XXXX</u>	XXXXX	::		::	;_	
	:Crop Land	: :			:		: :		:	:	<u> </u>
	:Grazing :	:			:		::		::	;	
	:Forest	::		·	::	:	::		::		
5	:Misc.	:			:;	:	::	<u></u>	::		
	TOTAL			XXXX	XXXX	XXXXX	: :		:;		
	TOTAL MOD.	XXXX :			:		: XXXXX :		::	:	
	RECLASS.		XXXX	XXXX	: <u>XXXX</u> :	XXXXX	::		::	······	
	Chan Land				•		• •		• •	•	
	· Grazing	• •	·	'	•	' <u> </u>	··		··		<u></u>
	· Forest	'' !	·	·	:	·	: :	·	: :		
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4	TOTAL		XXXX	XXXX	XXXX	XXXXX	:		: :		
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100.	TOTA		'			·	: <u></u> ;		· <del></del> -		
AREAS	TOTAL		<u> XXXX</u>	<u>, YYYY</u>	: <u> </u>	<u>AAAA</u>	· ····································		·		
	DROLLOG				·	·	• <u></u>	·	·i		
_	TRULASS.		<u></u>	<u> </u>	<u>. YYYY</u>	AAAAA	·		••		

Type of modification to land: The strips, parking lots. Tight and disbursed building construction, light and narrow roads, magazine areas.

(i) and with topsoil removed, filled areas, trenches, erosion from maneuvers.



Eng. Form 1128 Rev. 1 May 1945

attach G-5

SUBJECT: Excess - Ineatire of Operations Robsing at Lamp Bur

SPIDC 520 (1 May 56) Services Grinus Mandauarters, Arny Service Forces

TO LETTHE Chief of Figureers New War Department Building emassington 2 L. Effecting of New York the War Department Building emassington 2 Type nousing fabilities in Department of Surplus at the subject insta-

12.2. Thils, there fore desired that action be initiated without deleter of ill Imager of Regrations type housing facilities, at Cam Buther, birds of the second accordance with inclicable maws, directives and regulations.

E COMMAND OF LIEUTENANT GENERAL LUTES

Brig Gen, GSC Actg Director of

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ARMY SERVICE FORCES OFFICE OF THE CHIEF OF ENGINEERS REAL ESTATE

WN - 2192 DATE 10 June 1946

# WARNING NOTICE

(Continental United States)

TO:	DIRECTO CHIEF, I CHIEF, I CHIEF, I CHIEF, I CHIEF, I	R OF REAL ESTATE, OFFICE OF THE CHIEF OF ENGINEERS PLANNING BRANCH, ACQUISITION DIVISION, REAL ESTATE, O.C.E. REALTY CONTROL BRANCH, REQUIREMENTS DIVISION, REAL ESTATE, O.C.E. MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E. MANAGEMENT BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E. DISPOSAL BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.			
	CHIEF, C	OFFICE SERVICE DIVISION, O.C.E. (Surplus Properties)			
	DIRECTO	R OF MILITARY CONSTRUCTION, O.C.E., Attention: Mr. Getee			
	CHIEF, F	REDISTRIBUTION & SALVAGE DIVISION, READJUSTMENT. O.C.E.,			
		Attention: Major Walker			
	CHIEF, 7	Surplus Government Owned Properties)			
	DIVISION	ENGINEER, SOUTH ATLANTIC DIVISION, Attention: REAL ESTATE OFFICER, For Information Only			
	•	Notice was received on <u>31 May 1946</u> that, effective			
	31 March	1946			
		, the following described property has been classified as			
INAC	TIVE <u>X</u>	STANDBYEXCESSSURPLUSREESTABLISHEDREDISTRIBUTED			
<b>.</b> .		New of Installation Camp Butner			
73		Vame of Installation: Camp Ducher			
		Location nearest: Durham (City) Peron (County) N. C. (State)			
		40,408.784 W. A40.201.08 ublic Lesser 128.404 79.30 Acreage: TotalOwnedLandsInterestsLeased79.30			
		Entire Installation X Portion of Installation			
		Land OnlyLand and Improvements X Improvements Only			
		Industrial InstallationCommand InstallationX			
		Property Used By ASF For Triangular Division Camp			
	2.	Proposed disposition and remarks:			
	·				
Rev.	гогж 1128 1 Мау 1945	G-5			
			(		
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- Al		' - WAR OFPAI	RTNENT		un 2740
No la	0 F F	FICE OF THE CHIE REAL ES	EF OF ENGINEERS	5	DATE 8 Jan. 1947
	WAR	Continental U	NOT I	CE	
TO: D'RECTOR ( CHIEF, PL) CHIEF, PL) CHIEF, REI CHIEF, MAI CHIEF, MAI CHIEF, DIS CHIEF, OF DIRECTOR ( CHIEF, REI AU CHIEF, MII (SU DIVISION ) FOI	OF REAL ESTATE, ( ANNING BRANCH, AC ALTY CONTROL BRAN NAGEMENT AND DISH NAGEMENT BRANCH, SPOBAL BRANCH, MJ FICE SERVICE DIVI OF MILITARY CONST DISTRIBUTION & SJ tention: Major V LITARY RESERVATION UNDER, South of Information Only	OFFICE OF THE C CQUISITION DIVI NCH, REQUIREMENT POSAL DIVISION, MANAGEMENT AND ANAGEMENT AND DI ISION, O.C.E. ( TRUCTION, O.C.E. ALVAGE DIVISION, Walker DN DIVISION, OF t Owned Propert: Atlantic DIVISION	HIEF OF ENGINE SION, REAL EST. TS DIVISION, R REAL ESTATE, DISPOSAL DIVISIO SURPLUS PROPER , Attention: , READJUSTMENT, FICE OF JUDGE 165) ISION, Attentio	ERS ATE, O.C.E. EAL ESTATE, O.C.E. SION, REAL DN, REAL ES ties) Mr. Gates O.C.E., ADVOCATE GEN CON: REAL EN	O.C.E. ESTATE, O.C.E. TATE, O.C.E. NERAL, BTATE OFFICER,
	$\frac{947}{947}$ , the second sec	he following de	scribed proper	ty has been	Classified as
IRACIIVE			hit nast		
r	NAME OI INSTAILS	Developm	Durh		
I	Location nearest:	W. D.	Public Les	sser (Coun	ty <u>neve</u> (State)
L	Acreage: Total 40.3	Owned 51 40,201	Lànds - In:	terests 116	Leased 34
1	Entire Installati	ion X	Portion o	f Installat	10n
1	Land Only	Land and Impro	vements X	Improv	ements Only
	Industrial Instal	llation	Command	Installatio	x
ſ	Property Haed BV	A.G.F.	For Cant	onnent Cent	ar-
				ing Notice	repoven the
<b>A</b>	Proposed disposit	tion and remark.			
2.	33 . 47	<b>4</b>	<b>. . . . . . . . . .</b>		
2. 	llation from an	inactive status	to a surplus	status. 🍸	e records in this
2. sbowe insta office disc	llation from an	inactive status	to a surplus und 128.404 agr	statua. T ne legaer i	nterest.
2. Borve insta office disc	llation from an loses 79.30 acre	inactive status s leased land a	to a surplus und 128.404 agr	status. T na legaer i	nterest.

ENG FORM 1128

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DISPOSAL FORM

12129 #DGEF/C2 11737

incess- Camp Buther, North Carolina.

2 Jan. 1947

D/SS&P.

SW Directs:

فكرت

1. Effective 31 January 1947, the War Department places in the category of surplus, the premises comprising the installation known as Camp Sutner, North CarolDa This reservation consists of approximately 40,201 acres of Goverment owned land, 34 acres of leased land and 116 acres under perpetual essements and with housing accomdations for approximately 35,000 men.

2. That action be initiated to dispose of this installation in accordance, with applicable laws, directives and regulations.

FOR THE DIRECTOR, SERVICE, SUPPLY & FROSURELENT.

2 Incls:

AARON BRADSHAW Brig Gen, GSC Chief, Cervice Group



G-5

#### CSCEP/C2 41339

National Guard Facilities at Gamp Matner, North Carolina

TO: C/E

# FROM'S BEAT 12 DEC 1947 LT COL BRADDONT/4455

#### I. Keferences.

a. Disposition Form to the Chief of Engineers from the Director, Service, Supply and Procurement, dated 8 April 1947, file MDOSP/02 19582, subjects "Application for Rifle Range Facilities at Camp Butner, North Carolina, for Use by North Garolina National Guard Ground Force Units".

b. Disposition Form to the Chief of Engineers from the Director; Service, Supply and Procurament, dated 23 June 1947, file WEGSP/C2 26099, subjects "Mational Guard Facilities at Camp Batmer, North Gerolins".

e. Attached Disposition Form from the Chief, Matienal Guard Bureau to the Director, Service, Supply and Procurement, dated 17 September 1947, file MDSHG 654.1 (Camp Butner) H. C. (S Aug 47), subject as above, with one inclosure, letter, Adjutant General, North Carolina, dated S August 1947, with two inderpendents and one inclosure.

2. Disposition Form referred to in paragraph Is above, is restinded in its entirety and the following substituted therefore

a. Effective 3 April 1947, the Department of the Army withdraws. from the entegory of surplus the Small Arms Range, together with improvements, at Camp Butmar, North Carolina, and substantially as outlined in blue on the attached map. This area as indicated by the blue line, follows the boundary lines of original tracts, with the exception of six tracts which are divided along existing roads in order to eliminate residence and desirable form lands which are not required for range purposes.

b. This property is placed in an inactive status under the jurisdiction of the Chief of Engineers with authority to permit to the State of North Carolina for National Guard purposes.

3. It is desired that action be initiated to change the status of this property.

Y ORDER OF THE SECRETARY OF THE ARMY:

LeR. LUTES Lieutenant General, GSC Director of Service, Supply and Procurement

Service, Supply & Procurement C

G-5

Colonel, GSC Chief, Installations Branch

2 Incls. n/c

SHE/ECT: / National Charge Facilities at Camp Butner, Shorth Carlina.
SHE/ECT: / National Charge Facilities at Camp Butner, Shorth Carlina.
SHE/ECT: / National Charge Facilities at Camp Butner, Shorth Carlina in Section 1917 COLAMENT HO. 2-Install Br. Serv. Gp.
State of the staches letter from the Child. National Course Encourt to the Asjutant General of North Carcina, subject same as above sated 18 North Carcina 1917 to the Chief, National Guard Bureau from the asjutute General of North Carcina 2 The correspondence is forwarded in compliance at the asjutute General of North Carcina preceding Comment No. 2.

2. Inčla: 1-Ltr. AG, NC. S. Aug. 47 w/2 Inda & 1 Incl. 2-Ltr. NGB, 15 Nev Af w/1 Ind & 1 Incl (Mar) WIR DEPARTMENT D I S P O S IT I D NOTE C R II FILE NO. CSGSP/C2 67611 SUBJECT National Guars Fabilities at Camp Butner

TO: Ch/NGB TO: Ch

Incls: 1. DF, C/NGB, to D/SS&P, 17 Sep 47, w/l Incl. 2. (Added) - Map, Cp Butner, dtd 18Aug 43, Director of Service, Supply & Procurement Scale 1:30,000. WAR DEPARTMENT

D.I.S.P.O.S.I.T.I.O.N. FO.RM. FILE NO: VINSNG 684.1 (Camp Butner) N.C. (S Aug 47) SUBJECT: National Guard Facilities at Camp Butner, North Carolina. TO: The Director, SS&P, Installations Branch, FROM: Chief, NGB. DATE 17 September 17. Service Group. 1. Reference is made to the following:

a. The directive from the Director, SS&P to the Chief of Engineers dated 23 June 1947, which authorized the Chief of Engineers to make certain facilities at the subject installation available to the North Carolina NationalGuard under revocable permit.

b. The attached letter to the Chief, National Guard Bureau from the Adjutant General of North Carolina, dated EAugust 1947, subject: Small Arms Range Facilities at Camp Butner, N. C., and the approving indorsements of the Commanding General, Third army and the Commanding General, Army Ground Forces.

2. The letter referred to in paragraph 1 b, above is quoted in part as follows: "1. It is desired that the following changes be rade to the request by this office for small arms range facilities at Camp Butner, N. C.; letter Subject: "Facilitie for Logistical Support of the North Carolina National Guard (Camp Butner), dated in a second 19 February 1947.

a. Delete all of the impace area north of Bullock Road as show Property Map of Camp Butner which was forwarded to the Bureau # 7 June 1947. Area was previously requested for use as an impact area for cal. 50 Machine Gu Declaion has been maderny is office that this weapon will not be fired on the since and the area North Chillock floan will not be fedure ()

b. Boundary lines of area desired are changed to follow as near as possible, the original property lines as contained on inclosed map of Camp Butners This change is desired to simplify the designation and description of poindry lines and the conform to the boundry lines of the original plots. Boundary line at south west corner of range cuts, plots of the South of a dwelling house which is pat desired.

Range Headquarters and Parget Recair Shep shown, on property set are presented in any Parget above locates near junction of known.Distance of called fills have road with heav Bange toad, Breanst desired. State of Mater sever power (light and telephone systems presently in the sever is not desired. State transformer is not desired. I have dry not desired for the alrective referred to in paragraph 1 as above se amanded in accordance with heit letter mission in paragraph 1 as above se in the isomer and with heit letter mission in paragraph 1 as above se manded in accordance with heit letter mission in paragraph 2 above. I have a sever the isomer is not desired in paragraph 2 above. I have an according to the isomer watched in paragraph 2 above. I have a sever is not the action of the isomer is sever in the isomer is a sever w/2 has not i and it is the isomer is sever is a sever is a sever is a severe and in according to the isomer is set in the isomer is a severe with a set indice is a severe and the isomer is a severe is a severe is a severe is a severe and the isomer is a severe is

STATE OF DORTH CAROLINA THE REJUTANTIENEDAL & DEPARTMENT RALEITH

WDSNG. 664.1 (Camp Butner) N.C. SUBJECT: Small Arms Range Facilities at Camp Butner, N.C. THROUGH: Commanding General, Third Army, Atlanta 3, Georgia. TO The Chief, National Guard Bureau, War Department, Washington 25, D. C. 1. It is desired that the fellowing changes be made to the request by this

1. It is desired that the fellowing changes be made to the request by this office for small arms range facilities at Camp Butner; N. C.; letter Subject: "Facilities for Logistical Support of the North Carelina NationalGuard (Camp 4, Butner), dated 19 February 1917.
a. Delete all of the impace area north of Bullock Read as shown on Property Map of Camp Butner which was forwarded to the Bureau 7 June 1947. This area was proviously requested for use as an impact area for cal. 50 Machine Guns. Decision has been made by this office that this weapon will not be fired on the range and the area North of Bullock Read will not be required.

b. Boundry lines of area desired are changed to follow as near as possible, the original property lines as contained on inclosed map of Camp Butner, This change is desired to simplify the designation and discription of boundry lines and to conform to the boundry lines of the original plots.

c. Boundry, line at south west corner of range cuts plots C 70 D and C 75 D to exclude a dwelling house which is not desired.

d. Range Readouarters and Target Repair Shop shown, on property map referred to in Sub Par. a. above, located near junction of Known Distance 30 caliber Rifle Range road with West Ran & road, are not desired.

e. Water, sewer, power, light and telephone systems, presently installed at Range, are not desired.

.2: Boundry lines of area desired are marked in red on inclosed map. -

JOHN FOREMAN Lt. Col., Ord., N. C. NG. Butner, N. C.

1 Incl. Map of Camp Butner, N. C .- .

AJSVD 6607341 Cp Drome, (A Aug 47). H4, Anird Army, Atlanta 5, Ga., 11 August 17.7 THRU: CG, Army Ground Berces, Fort Mannee, Vd TOL. Chief, National Guard Bureau, Washington 25, 1 Incl.

BEADCUARTENS ARTICROUND FORCES, Fort Monroe, Virginia, 19, 10, 19, TD: Chief of NationalGuard Burnaut, Mashington 25, 0, 0, 19, Recommend approval of the pequest contained in basic communi FOR THE COMMANDING GENERAL.

1 Incl. n/c WAR DEPARTMENT WAR DEPARTMENT WAR DEPARTMENT WATIONAL CHIEND THERAO WATIONAL CHIEND THERAO WATIONAL CHIEND THERAO

BUBJECT: National Guard Facilities at Camp Butner, NorthCareling, Constant Camp Butner, NorthCareling, Constitution Building, Constitutio

Reference is made to the fellening:

a. The letter to the Chief, National Quard Bureau, From the Adjutant General of North Carolina, dated 8 August 1947, subject, "Small Arms Range Pacifities at CampButner, North Carolina,"

b. The letter from the Chief, National Guard Eureau, to the Adjutant General of North Carolina, dated 17 September 1947, subject same as above. 2. The application referred to in paragraph 12, above, has been returned to the Bureau by the Director of Service, Supply and Precurement with the following comment (2. It is requested that the impact area recommended for deletion from the permit presently issued to the Adjutant General of North Carolina, be more specifically identified than than shown on map accompanying basic request and that this area be preperly described by metes and bounds and further delineated on the inclosed map of Camp Butner, dated August 18, 1943, Scale 1:20,000. "3. If is further requested that this latter map, with the requested inform mation thereon, and all accompanying correspondence be returned to this office by, is

1 December 1947.

1 Incl:

3. In compliance with the above, it is requested that the impact area of the subject range to be deleted from the license to the North Carolina National Guard be outlined with colored pencil on the attached map of Camp Buther, and properly described by metes and bounds by indorsement hereon. It is further requested that this information be forwarded to the Bureau at the carliest practicable date, reference paragraph 3 of the comment quoted in paragraph 2 above.

FOR THE CHIEF, NATIONAL GUARD BUREAU

A. SEGARRA

DOWN TE PEDERSON

Acting Chief, Legistics Group National Guard Burcau.

Map, Camp Butner, N. C. CSNGR The Adjutant General's Department, North Carolina, Justice Building, Raleigh, N.C. 24 November 1947.

TO: The Chief, National Guard Bureau, Washington 25, D. C.

1. In compliance with request contained in par. 3 basic communication, inclosed map of Camp Butner has been marked with a solid red line to indicate the impace area recommended for deletion from land requested for use by the North arolina Nation Guard as small arms range.

2. The following is a description of subject area: Beginning at the point road junction RG 9 on West Range Road thence north, on West Range Road 1250 Faras

to read junction RG 7 at Control Read, thence east onCranter Road 2175 yards to surction of innamed road whence north east on unnamed road 1100 yards to west fort of Knap of Reeds Creek at a point 100 yards case of boundry line of General 0.P. thence wouth east with fort of creek 1150 yards to Knap of Reeds creek, thence east 900 at is to triangulation point on Wheeler Mt., thence south east 1300 yards to a middly fork of Knap of Reeds creek, thence south with fork of creek 2150 yards to a point 150 yards north of Bulleck Road, thence west 5000 yards to starting point following boundry lines of original tracts and running north of Bulleck ford emerge at the point.

benier lines of eriginal tracts, with the exception of six tracts which are divided tions existing roads in order to eliminate residence and desirable farm lands which are not required for range purposes: This being the same area as shown on copies of maps of Camp Buther, drawing No. 659-144 Office of the Division Engineer, South w Atlantic Division which were forwarded to the Bureau with letter this office, file whose 648.1 (Camp Buther) N. C., 8 August 1947 and with lett. Ind. to NGB letter, file file CSNGB, 8 October 1947.

A. Broken red lines on linclosed map indicate boundry lines of original request which followed roads and creeks and not boundry lines of original tracts as findicated by solid blue line.

5. This effice is not in receipt of permit mentioned in par 2.4.2. of basic communication. Authority for this permit was granted in directive from the Dir ector, SS&P to the Chief of Engineers, dated 8 April 1947, reference NGB letter, file WDSNG 684.1 (Camp Butner) North Carolina (April 6, 1947) dated 24 April 1947. Request subject permit be forwarded to this office as soon as possible. FOR THEADJUTANT GENERAL:

1 Incl.-Map Camp Butner, dated Aug. 18, 1943 Scale 1:20,000.

JOHN FOREMAN Lt. Col., Ord., NC. NG. State Maintenance Officer

A FORM-1005       UNITED STATES OF AMERICA WAR ASSETS ADMINISTRATION         602 CAMP BUTNER, NORTH CONTACT       FNGLT DECLARATION OF SURPLUS AL PROPERTY         (TO THE WAR ASSETS ADMINISTRATOR WASHINGTON 25, D.C.)       9. RATC         29 MAY 19         (TO THE WAR ASSETS ADMINISTRATOR WASHINGTON 25, D.C.)         IMPORTART         SEE INSTRUCTIONS ON REVERSE FOR COMPLETING THIS FORM         REFORTING AGENCY         War Department         Corps of Engineers, Washington 25, D.C.         PROPERTY IDENTIFICATION         Camp Butner, N.C.         AREA         USE OF PROPERTY PRIOR TO ACQUISITION         OPINION OF AEST FUTURE USE	95.3 47
602 CAMP BUTTNER, NORTH CONTACT PROPERTY         (TO THE WAR ASSETS ADMINISTRATOR WARMINGTON 25, D.C.)         INPORTANT         SEE INSTRUCTIONS ON REVERSE FOR COMPLETING THIS FORM         .REFORTING AGENCY         WMAR Department         Corps of Engineers, Washington 25, D.C.         PROPERTY IDENTIFICATION         Camp Butner, N.C.         AREA         USE OF PROPERTY PRIOR TO ACQUISITION	47
DECLARATION OF SURPLUS FAL PROPERTY (TO THE WAR ASSETS ADMINISTRATOR WARNINGTON 25, D.C.) IMPORTANT SEE INSTRUCTIONS ON REVERSE FOR COMPLETING THIS FORM ACFORTING AGENCY War Department Corps of Engineers, Washington 25, D.C. PROPERTY IDENTIFICATION Camp Butner, N.C. AREA USE OF PROPERTY PRIOR TO ACQUISITION OPINION OF SEST FUTURE USE	
(TO THE WAR ASSETS ADMINISTRATOR WARNINGTON 25, D.C.)       WD-L070-C         IMPORTANT         SEE INSTRUCTIONS ON BEVERSE FOR COMPLETING THIS FORM         REPORTING AGENCY       12. DISPOSAL AGENCY NUMBER         War Department       25, D.C.         Corps of Engineers, Washington 25, D.C.       13. REPRESENTATIVES TO CONTACT         PROPERTY IDENTIFICATION       Camp Butner, N.C.         AREA       14. LOCATION OF TITLE PAPERS         OPINION OF BEST FUTURE USE       OPINION OF BEST FUTURE USE	
INPORTANT       L1. WAA HUNDER         SEE INSTRUCTIONS ON BEVERSE FOR COMPLETING THIS FORM       L2. DISPOSAL AGENCY HUNDER         REPORTING AGENCY       L2. DISPOSAL AGENCY HUNDER         War Department       L2. DISPOSAL AGENCY HUNDER         Corps of Engineers, Fashington 25, D.C.       L3. REPRESENTATIVES TO CONTACT         PROPERTY IDENTIFICATION       Camp Butner, N.C.         AREA       L0CATION OF TITLE PAPERS         USE OF PROPERTY PRIOR TO ACQUISITION       L0CATION OF TITLE PAPERS	
SEE INSTRUCTIONS ON REVENSE FOR COMPLETING THIS FORM         REPORTING AGENCY         Nar Department         Corps of Engineers, Tashington 25, D.C.         PROPERTY IDENTIFICATION         Camp Butner, N.C.         AREA         USE OF PROPERTY PRIOR TO ACQUISITION         OPINION OF SEST FUTURE USE	
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REMARKS SUPPLEMENT CAMP BUTNER, N.C.	LEC/pmm
On Block 8 Schedule D of WAA Form 1005, WD-1070, dated 6 Feb. 1947, statement made that twelve (12) P.C.W. bodies were buried on subject installation. Remove of P.O. W. bodies from the cemetery at Camp Butner, N.C., was accomplished on Warch 1947.	was val 4
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ATTN ENGUG & ENGLT CUSTODY AND ACCOUNTABILITY CAMP BUTNER NC ASSUMED BY DIST ENGR SAVANNAH GA 26 APR 1947 PD CUSTODY OF INSTALLATION TRANSFERRED SIMULTANECUSLY TO WAA PD ACCOUNTABILITY OF INSTALLATION WILL BE TRANSFERRED TO WAA 26 APR 47 PD TRANSFER DOCUMENTS WILL BE FWDD UPON RECEIPT IN THIS OFC END SADRM-2 2005Z

3 C APR 1947

Real Estate

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CRYPTOGRAPH OR CLEAR TEXT ESSAGE CENTER NO. 1 TRANSMITTING MEANS DATE-TIME GROUP TRANSMISSION INSTRUCTIONS ORIGINATOR PRECEDENCE STA SER IM. MR GROUP COUNT OPERATING SIGNALS EXEMPT INFORMATION 6R SPACE ABOVE FOR SIGNAL CENTER ONLY FROM: (Originator) SECURITY CLASSIFICATION -a U. S. Engr. Off., Oper. Div., Surplus Facilities B ACTION TO: PRECEDENCE FOR 26 April 1947 ACTION INFORMATION ŕ AIR MAIL ORIGINAL MESSAGE REFERS TO ANOTHER MESSAGE 6.1211 IDENTIFICATION **CLASSIFICATION** INFORMATION TO: DIVISION ENGINEER SOUTH ATLANTIC DIVISION

ATLANTA, GEORGIA

ATTENTION: SADRM-2

CUSTODY AND ACCOUNTABILITY CAMP BUTNER ASSUMED BY THIS OFFICE COB 26 APRIL 1947 PD CUSTODY LETTER FOLLOWS PD CUSTODY OF INSTALLATION TRANSFERRED SIMULTANEOUSLY TO WAR ASSETS ADMINISTRATION PD ACCOUNTABILITY OF INSTALLATION WILL BE TRANS-FERRED TO WAA EFFECTIVE 26 APRIL 1947 PD PAR UPON PROCESSING NECESSARY FROPERTY DOCUMENTS WHICH WILL BE ACCOMPLISHED IN APPROXIMATELY TEN DAYS CMA 290'S WILL BE FURNISHED YOUR OFFICE UPON RECEIPT OF SIGNATURE BY WAA FB PAR ATTENTION IS INVITED LETTER DATED TS APRIL 1947 TO YOUR OFFICE FROM OCE CMA SUBJECT CLN CAMP BUTNER CMA NC CMA AND YOUR FIRST INDORSEMENT TO THIS OFFICE DATED 24 APRIL 1947 PD FRELIMINARY DESCRIPTION AND COST OF BETTERMENTS WILL BE FURNISHED YOUR OFFICE AT THE EARLIEST POSSIBLE DATE FD PAR IN VIEW OF THE ABOVE CITED INFORMATION RE-GARDING TRANSFER OF CAMP BUTNER CMA SUGGEST THIS OFFICE WITHHOLD FURTUER ACTION RELATIVE SMALL ARMS RANGE FENDING ACCOMPLISHEENT OF WITHDRAWAL FROCEEDINGS PD PAR LETTER FROM WAA REQUESTING CASE FILES AS OUTLINED IN PARAGRAFH 2 CMA DISFOSAL DIRECTIVE NO. 5 CMA CAMP BUTNER CMA WILL BE SECURED FROM WAA END SASKS

	SECURITY CLASSIFICATION		
K.	SYMEOL DATE-T	INE GROUP	/s/ E.D.T. EDWARD D. TRACY, Engineer, Civil OFFICIAL TITLE Chief, Surplus Facilities Branch G-7
	WD AGO FORM 11-168 This form supersedes WD AGO Form 1 15 JUN 1845 11-168 and WD AGO Form 801, 12 Mar 43, w		18 44, 16—45801-1 ч. с. соченниент і Лесь.



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Billie Mangum	4-1-47	12-31-4	7 agriculture fransferrad to	<b>10.</b> , 1./26/4	-	\$40.	
Joe H. Baker	4-1-47	12-31-4	7 agriculture Transformation	8. 	-	\$32.	
W.E. Duke	4-1-47	12-31-4	7 agriculture Francformal to	2.	-	\$8 <b>.</b>	
H.H. Wheeler	4-1-47	12-31-4	7 agriculture	4. 	-	¥16.	
W.S. Sherman	4-1-47	12-31-4	7 agriculture-	5.	0	.20.	
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W.C. Humphriss	4-1-47	12-31-47	agriculture Transferred t	6. 0 .ii.n. 11/25/	18	\$24.
H. A. Newton	4-1-47	12-31-47	<b>egriculture</b> Transferred to	10. 5 11/2., 19 [/] 26/	0	\$40 <b>.</b>
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WAA Form 1005	Form Approval 2 JUL 1
UNITED STATION OF AMERICA	Dureau NO. 102005.5
WAR ASSELC, ADMINISTRALION	9. Data 9 1
DECLARATION OF SURPLUS REAL PROPERTY	
(TO THE WAR ASSETS ADMINISTRATOR, WASHINGTON 25, D.C	Juo. Reporting Agency Mo.
02 CAMP BUTNER, NORTH CAROLINA ENGLT	WD-1070-D # ~ 302 .3
IMPORTANT	11. WAA Number
L Reporting Agency	12. Disposal Agency Number
War Department Grant Corps of Engineers. Weshington 25 D.C.	
2. Property Identification	_13. Representatives to Conta
Camp Butner, N.C.	
3 4700	-
S. AFGR ✓ 9,011.42 acres fee land	14. Location of Title Papers
4. Use of Property Prior To Acquisition	
	1
5. Opinion of Best Future Use	-
· · · · · · · · · · · · · · · · · · ·	15. Cost of Property
	Acquisitions 378,187.5 Betterments \$ 248,270.0
De Date of Acquisition Prior to 1/1/40 Mixed Subsequent to 12/31/39	TOTAL \$ 627,057.5
7. Former Owner	16. Proceeds
	<u> </u>
o. Remarks PARTIAL WITH	DRAWAL -
GAMP BUTNER, NOR	In CARULINA
The War Department Requests approval for the withd	rawal from surplus of the
for continued military the attached schedules. T	he facilities are required
	the Martin Carolina Nation &
Guard.	<u> </u>
Guard.	
Block 8 Schedule D lists facilities on Government-	Owned land which the War
Guard. Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve	Owned land which the War d and improvements. If the d. written notification
Guard. Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that	Owned land which the War d and improvements. If the d, written notification the facilities may be put
Guard. Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once.	Owned land which the War d and improvements. If the d, written notification the facilities may be put
Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Guard. Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Guard. Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Do Not Fill In	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Do Not Fill In Do Not Fill In Do Not Fill In Date of Assignment Do Not Fill In Date of Assignment Deligities and an and a state Do Not Fill In Date of Assignment Do Not Fill In Date of Assignment Do Not Fill In Date of Assignment	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Do Not Fill In Do Not Fill In Assigned By	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus.
Do Not Fill In Do Not Fill In Date of Assigned By	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus. 
Do Not Fill In Do Not Fill In Do Not Fill In Date of Assignment Do Not Fill In Date of Assignment Do Not Fill In Date of Assignment	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus. 
Block 8 Schedule D lists facilities on Government- Department desires to withdraw, including both lan request for withdrawal of this property is approve is requested as quickly as possible in order that to use at once. Block 15 above, shows cost of property requested t Do Not Fill In Date of Assignment Assigned Te Assigned By Signature	Owned land which the War d and improvements. If the d, written notification the facilities may be put o be withdrawn from surplus. 

# CAN P. BUTNET, MORTE CAROLINA ANNE DITUET, MORTE CAROLINA ANNE DITUERATE FROM SUPPLY 8

### BLOCK 8 - SCHRUDLE A

A certain track or percel of land lying and being in Durham. Cranville and Parson Counties, North Carolina, dostatining 901142 scree, more or lass being more perficularly described as follows:

Beginning at the faternee flow of the center line of Yest Bange Boad with the center line of Grawley Road then the santer line of Creater Road & 60° E. 1120 feet, & 63° E. 700 feet, 8 62° E. 920 feet, 8 86° E. 530 feet, 8 87° E. 1160 feet, 8 51° E. 1150 feet, 8 41° E. 710 feet, 8 36° E. 6h0 feet to the Interseation of the emiler line of Drawley Bead an in the center line of Central Loop Roads then es along the center line of Central Loop Road W & 3 & 1200 feet, # 267 E 1210 feet, N 51º E. 630 feet. W 57º E2 680 Leet. & 82º 10 E. The feet to be Intersection of the center line of Central Loop Road with the center line of Knap of Reads Breaks theres along the outer line of Knap of Reeds Creek 5 43" Si 110 Test to the Interseald on of the perter line of Ener of Reeds Creek with the senter line of the Last Fork of Knap of Reads Greeks thence & 58 30' E. 266 Tests thence S 10° W.: 6327 feet; thence \$ 33° 5, 2997 feet; thence \$ 19° W. 6993 feet; thence \$ 17° 8, 51,95 feet to a point in the center line of Yeasley Loon Road at Yossley's Taons thence along the center line of Vessley Loop Road 5 16° 30' 8, 770 feet, 8 76° 30' E, 370 feet, 6 62° E, 150 feet, 8 18° E, 735 fast, 9 47° E. 650 feet ; then ge & 2° 30' W. She feet to he intermeditor of the center line of Reeds Greek with the center line of Carlton Roads thence along the manter line of Carlton Road \$ 860 10: W 540 feet, 8 15" W, 1150 feet, 8 56" W, 500 feet, 8 23° 30' W, 380 feet, 8 85" 30' W, 130 feet, H 61° JOI W, 160 Fresh, "# 50" 301 W, 515 Fresh, & 45° #; 680 Fresh, # 13° 30K W, 735 reet, N B2" 10" W, 1000 feet, Writhe Interesciion of the outler line of Curlbon Road with the center line of Cometery Grow Trails thange along the center line of Cometery Trove Trail S 19 L, 2170 feet; then os H 85° W, HOD foot Ones W 78° H, 995 Foot mance H 85° W, 5511 feet to a point in the center line of the trail lending to Henge #5; that a along the center line of seid trail N 2º 30' N, 750 feet, N 299 301 M, 760 feet to the intersection of the Center line of the trail to Range #5 with the center line of Jest Range Road, then no along the center line of West Range Road # 77° W, 2200 feet, W 71º 304 W, 1360 feet, W 100 feet, N 19 301 W, 700 feet, N 130 30' E, 2000 feet, North 1010 feet,

BLOCK 8 - SCHEDULE A

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#### BLOOK 8 - SCHRUULZ A

N 39° W, 1500 feet, N 18° W, 980 feet, N 5° K, 1060 feet, N 2° 30' K, 1500 feet, N 25° W, 1400 feet, N 22° W, 1500 feet, N 3° K, 1180 feet, N 26° 30' K, 1360 feet, N 29° K, 1440 feet, N 28° K, 1540 feet, N 2° K, 2200 feet, N 11° 30' K, 1000 feet, N 18° 30' K, 1360 feet, N 10° 30' K, 2220 feet, N 4° 30' K, 2080 feet to the intersection of the center line of West Range Road with the center line of Crawley Road, the point of beginning.

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BLOCK 8 - SCHEDULE A

Tract	Former Owner	Acreage	Date .	Cost	(P) Furchase (D) Declaration of Taking
<b>C66</b> 3	Gertrude Dixon Stem, N.C. Aurplus Not Surplus	78.00 44.00 34.00	8/14/42	2,563.00 1,502.00 1,161.00	DFICA
C67D	Will H. Hall, est. e/o Mrs. Ella N. Hall Surplus Stem, N.C. Not Surplus	89.50 54.50 38.00	11/23/42	5,256.00 1,983.00 1,273.00	D <b>#38</b>
C68D	Mrs. Della H. Unstend Rougemont, N.C. Surplus Not Surplus	100.50 71.50 29.00	8/10/42	2,135.00 1,519.00 618.00	D#18
C69D	Roy S. Unstead Rougemont, N.C. Surplus Hot Surplus	18.00 13.00 5.00	<b>5/10/42</b>	387.00 279.00 108.00	D#15
<b>C70</b> D	/G.W. Ellis Bahama, B.C. Surplus Not Surplus	118.00 112.00 6.00	8/10/42	6,966.00 6,612.00 354.00	D#19
C <b>7</b> 5D	Konnsth Mangum Rougemont, N.C.	256.00 48.00 208.00	11/25/42	20,089.00 3,767.00 16,322.00	D#43
676D	E.D. Unstead Reugemont, N.C.	515,40	8/14/42	17,751.00	<b>0#10</b> 4
	Star, I.C.	24.00	8/10/42	435.00	D#18
C78D ≜G	Mrs. N. Ella Hall Stom, N.C.	70,00	8/14/42	7-695-00	D-1104

BLOGK 8 - SCHEDULE D Title Status of Area Requested for Withdrawal from Surplus

BLOCK 8 - SCHEDULE D

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BLOCK 8 - SCHEDULE D

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(1)	(2)	(3)	(4)	(5)	(6)	
D120	B.D. Unntead Stem, N.C. Surplu Not Surplu	87.00 48.00 13 42.00	8/4/42	7,398.00 5,827.00 3,571.00	D <b>ÿ</b> 7A	
D136	E.J. Lunsford, et ux Stem, E.C. Surplu Not Surplu	154.00 127.00 127.00	8/4/42	5,965.00 44,919.00 1,046.00	D∯7▲	
<b>D25</b> 0	E.G. & T.F. Gonn Stem, N.C. Surplu Not Surplu	179.00 157.00 157.00	7/8/42	10,162.00 8,913.00 1,249.00	df4A	
D <b>27</b> G	E.O. Tilley Route #5 Surply Oxford, N.C. Not Surply	7.00 25 <u>5.00</u> 25 <u>4.00</u>	7/13/42	1,310.00 561.00 749.00	D#5A	
D <b>28</b> G	E.C. Tilley Route f5 Oxford, N.C.	21.00	7/18/42	491.00	D <b>₹</b> 5A	
D <b>29</b> G	T.F. & B.G. Goss Greedmoar, N.C.	4.00	7/8/42	100.00	DF4A	
D300	Rebecca 3. Soott Stem, N.C. Surp Not Surp)	24.00 Lus 1.00 Lus 23.00	<del>3/4/4</del> 2	1,365.00 67.00 1,308.00	D <b>#7</b> ▲	
D <b>3 3</b> G	Geó. P. Robertá, ést. c/o Henry-O. Roberts 1026 Alabama Ave. Durham. H.C.	43.45 24.43 19.00	8/4/42	1,694.00 953.00 741.00	D <b>#7</b> ▲	

BLOCK 8 - SCHEDULS D

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	BLO	CK 8 - SCH	EDULE D	•	
(1)	(2)	(5)	(4)	(5)	(6)
0546	Jele Newton Route #5 Surplus Oxford, N.C. Het Surplus	60.00 1.00 59.00	7/29/42	2,768.00 46.00 2,722.00	D#6A
D <b>3</b> 50	Mrs. Lelis M. Cozart Stan, M.C. Surplus Not Surplus	415.05 3.05 410.00	7/8/42	17,854.00 131.00 17,423.00	DHA
D369	Hrs. Della H. Unstead Rougemont, N.C.	98.75	7/29/42	8,379.00	D <b>ÿ6</b> ▲
D37G	Roy S. Unstead Rougemont, N.C.	60.25	8/4/42	8,563.00	D <b>‡</b> 7 <b>↓</b>
D380	A.R. Frazier Rougemont, N.C.	24.10	7/29/42	6,115.00	D#6A
<b>D590</b>	Charles S. Frazier Rougement, H.C.	131.50	8/4/42	7,414.00	Ð <b>∦7</b> ⊾
<b>D60</b> G	Mrs. Cora Sanford Sten, Y.C.	129.00	8/4/42	9,626,00	D₽7▲
<b>D61</b> G	Raymond P. Unstead Rougemont, N.C.	180.00	¶/29/4Z	4,075.00	D#6A
D423	Jonah Roberts, et al Aper, N.C. Surp Not Surp	50.00 lus 1.00 lus 59.00	8/4/42	900.00 15.00 535.00	D-7A
<b>D43</b> G	Ralph Joucs, et ur Stem, M.C. Surplus Not Surplus	209.12 151.12 58.00	8/4/42	6,571.00 <u>6,749.00</u> 1,822.00	D#7A

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BLOCK 6 - SCHROULE D

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		BLOC	x 8 - sca	idul <b>e d</b>		
(1)	(2)		(5)	.(4)	(5)	(6)
D680	Geo. P. Roberts, est. e/e Hendry C. Roberts 1028 Alabama Ave.	Surplus Not Surplus	822.75 25.75 297.00	7/13/42	4,750.00 579.00 4,371.00	D <b>#5A</b>
D690	Mrs. Lelin M. Cozart Stem, M.C.	•	21.00	8/4/42	298.00	D <b>₽7</b> ▲
0700 40	Brnest & Pete Regers Rouge #5 Chapel Hill, N.C.		125.00	8/4/42	6,302.00	D#TA
D710	L.A. Bullock Route #2 Oxford, M.C.		69.00	8/4/42	1,299.00	D#TA
D7 20	O.T. Mangum, et ux Stem, N.C.		100.00	7/29/42	2,067.00	D <b>#6A</b>
D789	B.O. Tilley Route #5 Oxford, H.C.		<b>4.00</b>	7/13/42	40.00	D <b>#5</b> A
D820	Mrs. Lelia N. Cozart Stem, N.C.		6.00	7/8/42	<b>30</b> _00	D#4A
<b>R20D</b>	S.P. Mangum Rougemont, N.C.	Şurplu Not Surplu	76.50 47.50 29.00	8/10/42	15,582.00 9,675.00 5,907.00	D <b>#1</b> B
<b>E21D</b>	S.T. & K.R. Mangum Rougemont, N.C.	Surplu Sot Surplu	99.10 29.10 70.00	8/10/42	7,500.00 2,202.00 5,298.00	D#18

BLOCK 6 - SCHEDULE D

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		- BLOCK 8 - SCH	RDULR D		
(1)	(2)	(3)	(4)	(5)	(6)
<b>e30-</b> D	Mr. Nora H. Bacon, et vir Rougemont, N.C. No	102.00 Surplus 8.00 t Surplus 94.00	11/23/42	8,670.00 860.00 7,990.00	D#48
E31-D	S.T. Mangum Rougemont, H.C.	9.75	8/10/42	328.00	D# <b>1</b> 3
<b>B32-</b> D	Tom Jones Rougement, H.C.	172.00	8/24/42	9 <b>,000,0</b> 0	D <b># 2</b> 8
E32aD	Mrs. Lustta Vensey, et al 1108 Trinity Ave. Durham, N.C.	•20	8/24/42	26.00	D <b>₫ 2B</b>
E33D	Mrs. Luna Vaughn Rougemont, H.C.	69 <b>.50</b>	8/24/42	<b>5,347.</b> 00	D#28
B34D	Jasper C. Ellis Rougemont, N.C.	<del>ଟ</del> ନ <b>- 50</b>	8/24/42	8,257.00	D#28
K35D	Geo M. Vonsey, heirs a/o E.S. Vensey Branklinton, M.C.	162.40	8/24/42	6,664.00	D <b>-{/28</b>
<b>B</b> 36D	Mrs. Mildred U. Veasey Station Hoop Camp Polk, La.	25.00	8/24/42	2,035.00	D <b>∯ 2</b> B
E <b>37</b> D	H.B. Hampton, heirs c/o A.H. Hampton Durham, M.C.	3.00	<del>3/24/4</del> 2	150.00	D#28
<b>E38D&amp;G</b>	W.B. & Minnie Hampton, he c/o A.H. Mampton Durham, N.C.	irs 415.00	8/24/42	15,459.00	D <b>#11</b> ▲

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BLOCK 8 - SCHEDULE D

(1)	(2)	BLOCK 8 - f	CHEDULE D	-	
EA10		(3)	(4)	(5)	
E42D	S.T. Hangum Rougemont, N.C. Camp Creek Primitive Baptist A.J. H.11, Trustee	18.50 Chustch	8/14/42	635,00	(6) D#10A
E43D40	Relee Goss Creednoor, R.C.	4.00	8/24/42	900.00	D <b>#2</b> D
E440	Luther H. Carrington Bahama, H.C.	87.00	8/24/42	4.723.00	D\$11A
450	J.R. Fowler Stem, H.C.	7.00	8/24/42	1,985.00	<b>D#11</b> A
460	L.L. Chambers Sten. H.C.	5.00	8/24/42	1,190.00	рула
170	Mrs. Pearl. C. Chambers Stom. N.C.	2.00	8/24/42	1,215,00	D#114
80	Luther Carrington Bahama, H.C.	65.72	8/24/42	8,259.00	<b>D# 2</b> B
9D	J.R. Fowler Stem. M.C.	55.50	6/24/42	1,520.00	<b>D#2</b> B
00	Mary E. Boswell 1108 E. Trinity	68.00 <u>-</u>	8/24/42	1,317.50	D#28
	Durhan, N.C.	100.00	8/24/42	3,210,00	D#2B

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BLOCK 8 - SCHEDULE D

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(1)	(2)		(3)	(4)	(5)	(6)
851D	B.E. Green, est. c/o Eleancr Oreen 128 Church Street Henderson, N.C.		227.00	8/24/42	B 605 00	
3 <b>51a</b> D	Hendorson Tilley, o/o Mrs. Hattie Pa Durham, H.C.	h <b>eirs</b> riah				11. 23
<b>51</b> 60	James Copley, heir c/o Fade Copley	s, st al	1.00	8/24/42	41.00	D\$28
	Durham, N.C.		•25	8/24/42	10.00	D[29
<b>52</b> D	Nors H. Bacon Rougemont, N.C.	Surplus Not Surplus	191.40 40.40 151.00	8/24/42	10,770.00 2,275.00 8,427.00	D#23
76D	L.F. Copley Fougement, N.C.	Surplus Not Surplus	136.00 67.00 69.00	8/24/42	10,114.00 4,932.00 5,132.00	D723
770	Annis Vessey Bahamá, B.C.	Surplus Not Surplus	62.00 6.00 53.00	8/24/42	5,206.00 504.00 4,702.00	D∦2B
780	Annie Veasay Bahama, N.C.		40.30	6/24/42	1,200,00	D <i>≟</i> ⊅n
190	E.S. Franklin Sougement, N.C.		172.58	8/24/42	11,980.00	-, D# <b>2</b> R
300	%•3• Carret Route ∦2 Oxford, f.C.		160.00	8/24/42	4,473.00	D≓28

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BLOCK 8 - SCHEDULR D

		I BLOCK S - SCH	LDULE D		
(1)	(2)	(3)	(4)	(5)	(6)
<b>E81</b> D	S.T. Mangum Rougemont, N.C.	25.00 Surplus <u>1.00</u> Not Surplus <u>26.00</u>	8/10/42	1,064.00 43.00 1,021.00	D#18
E82D&G	William 2. Davis Rougemont, W.C.	139.00	8/24/42	6,123,00	D#11A
<b>E83</b> D&P	Lucius D. Blalock Route \$5 Oxford, M.C.	58.40	8/24/42	4,999,00	D <b>#2</b> B
R840	Isham C. Chambers Stem, N.C.	.19	8/24/42	269.00	D#11A
F1G	K.C. Hill Route #2 Franklinton, H.C.	112.50	7/8/42	4,350.00	D# <b>4A</b>
F20	R.L. Tilley, est. Sten, N.C.	75.00	7/13/42	3,169.00	disa
<b>F3</b> G	Bettle T. Thacker Route #4, Box 229 Durham, N.C.	<b>37</b> .00	7/13/42	<b>875 .</b> 00	D <b>≓5</b> A
F4G	L.A. Bullook Route #2 Oxford, N.C.	23.00	7/13/42	890.00	<b>D#5</b> 4
<b>F</b> 53	William Waller, est. & Frances Short, est. Unknown	12.00	11/25/42	159.00	D#13a
F6Q	0.T. Mangum Stem, N.C.	50.00 Surplus .50 Not Surplus 49.50	7/8/42	695.00 9.00 886.00	D#4A

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BLOCK 8 - SCHEDULE D

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<b>)</b>	(2)		(3)	(4)	(5)	(6)
ag	Isaac Hayes, heirs, et	; =1				
	c/o Isaac Rayan, Jr. Aper, W.C.		.13	7/8/42	10.00	DAA
19	Ida Day Bracey, Va.		15.90	7/13/42	273.00	D <b>#5</b> A
30	T.H. Hoore		19.50	7/13/42	429.00	D <b>#</b> 5∧
	Sten, N.C.	Surplus	6.50		143.00	
		BOT SUPPLUS	10.00		600 e'N	
90	Sam Lloore		20.00	7/15/42	1,180.00	D#BA
	Route 15	Surplus	19.00		1,121.00	
	Muke Forest, N.C.	fot Surplus	1.00		59,00	
109	Paul Noore		19.85	T/13/42	560.00	D#5A
	Ston, W.C.	Surplus	13.85		251.00	-
		fot Surplum	6.00		1.02 .00	
110	Porvie Day					
	c/u Hunt's Service St	ation				
	Durhan, A.C.	free 1	16+60	1/8/42	877.00	D#4A
	· · · ·	Not Surplus	5.00		264.00	
	<b>_</b>	-				
140	James L. Suit, et ux	Ruman Lason	21,94	7/13/42	407.00	D <b>35</b> A
	Stem, A.V.	Not Surplum	5.00			
460	Dalsy S. Mitchell		16.45	7/8/42	92.00	D <b>J</b> 6A
	Oxford, N.C.	Surplus	15.48		75.00	
		NOT SUPPLUS	2.00		T1+00	
460	Mrs. Avery Tapp		103.00	7/8/42	509.00	DAA
	Bex 402	Surplus	5.00	•••	15.00	
	Roxboro, N.C.	Bot Surplus	98.00		294.00	

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(1)	(2)	(3)	(4)	(5)	(8)
F470	Larrence Day Stem, S.C. Surplus Not Surplu	132.00 8.00 124.00	7/13/42	3,141.00 191.00 2,960.03	D∳EA
7480	Sun Mocre Route #3 Surplus Wake Forest, N.C. Not Surplus	18.50 12.59 6.00	7/8/42	401.00 271.00 130.00	<b>D∦</b> €A
F190	J.E. Furler Ston, N.C.	100.00	7/13/42	8,449.00	ię da
1500	Ars. Venu C. Tilley Rougemont, I.C.	67,00	7/13/42	£,035,00	цуба
F51DeG	Krs. Kollis H. Mangum Rougemont, K.C.	221.50	7/13/42	5,045,00	D <b>∲5</b> ≜
r520 ·	A.S. Carrington, est. c/o Brs. Alice R. Carrington Stem, M.C. Surpl Not Surplu	235.00 us 6.50 s 229.00	7/8/42	5,620,000 155,00 8,465,00	D <del>⊈4</del> A
7533	J.H. Gooch, est. c/o Mrs. Janle G. Doughton Surpl 1928 Vail Ave. Not Surpl Charlotte, N.C.	98.00 5.00 us 38.00	7/8/42	475.00 25.00 460.00	D <b>//4</b> A
F54g	Mrs. Vere C. Tilley Rougement, N.C. Surplu Not Surplu	80.00 21.00 50.00	7/13/42	840.00 63.00 177.00	D <b>#5A</b>
PB60	Ling C. Long Stem, N.C. Surplu Rot Surplu	62.00 60.00 11.00	7/13/42	1,083.00 888.00 195.00	D#64

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BLOCE 8 - SCHEDULR D

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(1)	(2)	(8)	(4)	(5)	(6)
770	Williams & McKeithan Lumber Co. Lynchburg, Pa. Surplu Not Surplu	542.50 348.50 194.00	7/13/42	3,183.00 2,042.00 1,141.09	D#8A
78D1G	Willie D. Aiken, et um Stem, H.J.	331.00	7/8/42	9,0%3,00	<b>D#4</b> ▲
19D&G	Pred Hangun, et un Hillsborg, N.C.	15.25	7/8/42	1,416.00	D <b>je</b> a
800	B.A. Thacker Durban, N.C.	60.00	7/8/42	2,570.00	D#sa
820	S.E. Johaston, et al Stam, N.C.	54.50	7/8/42	2,939.00	D#4A
330	L.D. Blalock, et wx Rouge #8 Oxford, N.C.	20,00	11/25/42	1,180,00	D <b>∳13</b> A
300	S.R. Johuson, et al Stem, N.C.	59,50	7/8/42	900_CU	D#4A
LEDEP	Jesse T. Clayton, est c/o Lolia Clayton Stem, K.C. Surplu Hot Surpl	78.25 15.25 14153.00	8/24/42	4,734.00 1,528.00 8,206.00	D#28
15D	Jasper C. Ellis Rougemont, T.C. (\$2,205.00 remains in the Registr he ascertained until bi- death)	00.53 edf 1a Y	11/23/42 Court because	4,085.00 childred of 111	D#3B 's tennent can't

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BLOCK 8 - SCREDULE D

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	BLOCE 8 - SCH	EDULS D		
(2)	(3)	(4)	(5)	(6)
Luna Vaughan Rougemont, M.C.	63.00	11/23/42	8,246.00	D#3B
Benjamin C. Vaughan, heirs c/o Mrs. Jama Vaughan Rougemont, N.C.	41.20	11/23/42	1,964.00	<b>ጋ∦</b> 38
Lizzie Scyling, et vir Stem, M.C.	52.00	11/23/42	3,177.00	D#88

(1)

G16D

G17D

G18P

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H.D. Hunt, et ur **019**P Route #3 11/23/42 59.00 Oxford, N.C. 3,595.00 Df3B Jasper L. Clayton, et ux G20P Sten, M.C. 53.00 8/24/42 2,045.00 D-28 J.N. & Dors Cash G21P 11/23/42 Oxford, N.C. 100.00 4,377.00 D#38 022P Lee A. Oakley 11/23/42 113.00 Stem, M_C. 4,213.00 D#33 Surplus 59.00 1,454.00 Not Surplus 74.00 2,759.00 G23P Mrs. Mollie C. Clayton 714.70 11/23/42 21,126.00 D#3B 820.70 Sten, K.C. Surplus 9,848.00 Not Surplus \$94.00 11,646.00 071P Virginia C. Bilis est. c/o Jacper C. Filis 11/23/42 Rougement, N.C. 51.75 2,591.00 D#8B J.L Clayton 8/12/42 HIG 271.50 7,449.00 DISA Rougemont, N.C. 82.50 Sur clus 5,260.00

BLOCK 8 - SCHEDULE D

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BLOCK 8 - SCHEDULE D

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HŻG	Sue Elizabeth Nooney Timberlake, H.C. Not	230 Surplus 9 Surplus 241	00. 00. 00.	11/25/42	4,655.00 168.00 4,437.00	D <b>\$12A</b>	
123O	J.M. M. Gregory, Jr., et 1007 Homar Street Durham, N.C Ho	ux 540 Surplus 463 Surplus 71	90.90 2.90 3.00	8/24/42	8,106.00 2,653.00 447.00	<b>5#11A</b>	1
K100	L.A. Bullook Route #2 Oxford, N.C. No	60 Surplus 58 t Surplus 7	5.40 1.40 4.00	8/12/42	9,437,00 9,063,00 374,00		
H160	S.E. J. bason Rougemont, N.C.	9.0 <b>T</b>	9.20	8/12/42	332.00	D <b>79A</b>	

Abstracts of Title furnished by Mash, Austin, Norman, Wright, Foust and Dureces, Attorneys, Security Bank Building, High P_int, N.C.

Thirtean (13) Declarations of Taking in Series "A" filed on dates shown as follows: United Stater of America, Petitionar in U.S. District Court, Eastern District of M.C., vs, 9,275.44 sores and 21,772.00 sores of land, more or less, in Granville Co., N.C., and George Collins, Mattie Tems Buchanan, et al, Defendants.

Estates acquired by Declaration of Taking are subject to existing candents for public roads, highways, railroads, public utilities and pipe lines.

Five (5) Declarations of Taking in Series "8" filed on dates shown as follows: United States of America, Fotitioner in C.S. District Court, Middle District of M.C., vs. 8,874.00 sures of land, more or less, in Durham & Person Counties, M.C., and W.S. Currin, et al. Defendants.

Estates acquired by Declaration of Taking are subject to existing ensurents for public roads, highways, railicads, public utilities and pipe lines.

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WAA FORM-1005 (5-29-46)	UNITED STAT			PFROVED NC. 16ROC5.3
	ON OF SURPLUS REAL P	ROPERTY	2.5	EP 1947
TO THE WAR ASSET	TS ADMINISTRATOR. WAS	10. REPORTING AGENCY	NUMBER	
SEE INSTRUCTIONS	INPORTANT	ETING THIS FORM	11. WAA NUMBER	
IREPORTING AGEN	CY REVERSE FOR LOWFLI	LIINO INIS FURM	12. DISPOSAL AGENCY	NUMBER
Gorbe of Engline	ers, Sachington 25.	Pa <b>C</b> a	13 DEBDECENTATIVES	TO CONTACT
2. PROPERTY IDENT	IFICATION			
Comp Sutner,	I.C.			
3. AREA 9.407.67	fee land	267		
. HEE AE BRARET		Stric)	14. LOCATION OF TITL	E PAPERS
·· Vae of thuren	r FRIOR TO ACCOLLINE			
5. OPINION OF BES	T FUTURE USE			
		-	ACOUISITION «	408,631,60
6. DATE OF ACOUIS	ITION	SUBSECUENT TO	BETTERMENTS \$	248,273.00
PRIOR TO 171	140 MIXED	12/31/39	TOTAL \$	656,301.50
7. FORMER OWNER			16. PROCEEDS	**
At the request	of the far Assets ad	ADDITION TO PAU CAMP BUTNER, NOR ministration, the	RTIAL SITERANAL TS CAROLINA	LEC/pmm d for use by the
S. REMARKS At the request Vational Suard, East Seen expand stallation in o There is attach by the extensio	of the Sar Assets ad , requested for withd log by artending the rder to eliminate a and Block 8 Schedule m of the area to the	ADDITION TO PAU CAMP BUTHER, WOR ministration, the rewal on MAA Form aroa to the wester narrow atrip of su D which shows the sastern boundary	RTIAL MITHERAVAL TH CAROLINA area to be retaine 1005, MD-1070-D, d rn bountary line o rplus property on title status of th 1100-	LEC/pmm d for use by th ated July 2, 19 f subject in- the west. e tracts affect
5. REMARKS At the request Vational Juard, Eas been expand stallation in o There is attach by the extensio Blocks 3 and 15 property reques	of the Sar Assets 24 requested for withd by artending the rdar to eliminate a and Blook 8 Schedule m of the area to the above have been rev ted for sithdrawal.	ADDITION TO PAC CAMP BUTHER, WOR ministration, the rawal on TAA Form 1 arow to the wester amprow strip of sus 9 which shows the eastern boundary 1 ised in order to sh	RTIAL MITHERAVAL TH CAROLINA area to be retaine 1005, MD-1070-D, d rn boundary line o rplus property on title status of th line.	LEC/pmm d for use by th ated July 2, 19 f subject in- the west. e tracts affect area and cost of
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REALITY CONTROL

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TO:

WAR DEPARTMENT CORPS OF ENGINEERS OFFICE OF THE DIVISION ENGINEER SOUTH ATLANTIC DIVISION SO WHITEHALL STREET ATLANTA, GEORGIA

SADRM-24- 602.3 Camp Buther, N. C. Trans. to WAA) 24 October 1947

SUBJECT: Transmittal of OCE Forms 290's, Voucher N. C-1799-47, Camp Butner, North Garolina.

> The Chief of Engineers Department of the Army Washington, D. C. Attn: ENGLT

Inclosed are two (2) signed copies of OCE Form 290, Voucher No. C-1799-47, together with list of installed property, covering the transfer of Camp Butner, North Carolina, to the War Assets Administration.

FOR THE DIVISION ENGINEER:

1 Incl. in dup. /OCE Form 290 w/list installed property sttached.

NDEY

Chief, Management & pisposal Branch Real Estate Division

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War Department - O.C.E. Form No. 290 July 6, 1942

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Post Camp Butner, N C Date 26 May 1947 Surial No. C-1799-Job No.

## TRACSFER OF NEW CONSTRUCTION

•	PUTTUTU O DURGON				
(1) Totel No.Juni	(2) Plan No. ts	(3) Designation and Type	Totel Design- Id or pacity	(5) Total Sq. Ft. in Fluor Araa	(6) Building Eumbers and Remarks
	800 <b>350</b>	PEP-81	· · · · · · · · · · · · · · · · · · ·	5,364	<b>T-8</b> 855
8	800-350	PBP		15,660	T-3856, T-3858, T-3860
2	800-443	63 M (Mod)		9_280	<b>T-844, T-84</b> 5
	8 <u>08-<b>4</b>4</u> 3	B <b>=74</b>		465,319,5	T-2621,T-2622,T-2629,T-2630,T-2649, T-2650, T-2729, T-2750,T-2740,T-274
					<u>T-2742,T-2749, T-2750,T-2751,T-2752</u> T-2820, T-2821, T-2822, T-2829,T-28
					T-2831,T-2840,T-2841,T-2832,T-2842, T-2920,T-2921,T-2922,T-2929,T-2930,
	! 	 	· · · · · · · · · · · · · · · · · · ·		T-3040, T03041, T-3042, T-3129, T-3140, T-3141, T-3142, T-3320, T-3321, T-3322,

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BUTLDING & STRUCTURES

War Department - O.C.E. Form No. 290 July 6, 1942

### Page 2

Post Camp Butner, N C Date 26 May 1947 Surial No.

## TRANSFER OF NEW CONSTRUCTION

BUI.	LDING & STRUC	TURES	india o onig		
(1) Total No. Units	.(2) Plan No.	(3) Designation and Type	(4) Total Design- ed capacity	(5) Total Sq. Ft. in Floor Area	(6) Building Numbers and Remarks
		B=74(contd2		-	T-5329, T-5550, T-5551, T-5552, T-5640 T-5541, T-3342, T-5560, T-5361, T-3562
					T-5420, T-5421, T-5422, T-5450, T-5431 T-5452, T-5440, T-5441, T-5442, T-5449
					T-5450, T-5451, T-5520, T-5521, T-5522 T-5529, T-3550, T-5741, T-5742, T-3749
					T-5821, T-5822, T-5841, T-5842, T-4023 T-4040, T-4041, T-4045, T-4120, T-4121
	+			· · · · · · · · · · · · · · · · · · ·	T-4125, T-4140, T-4141, T-4145, T-4220 T-4221, T-4222
899	800-443	B=74		2,085,800	T-140, T-141, T-150, T-152,
	1			· ·	T-155, T-220, T-221, T-222, T-240, T-241, T-242, T-251, T-252, T-320,

It is certified that the neusinvetion list a bareon is in recordence with mens.



War Department - 0.C.E. Form No. 290 July 6, 1942

## Page 5

Post Camp Butner, N C Date 26 May 1947 Sarial No.

3

TRANSFER OF NEW CONSTRUCTION

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BUILDING & STRUCTURES

(1) Total	(2) Plan No.	(3) Designation	(4) Total Design-	(5) Total Sq. Ft. in -	(6)
No. Units		and Type	ad capacity	Floor Arga	Building Rumbers and Remerks
		1			
-		B-74(contd)			T-321, T-322, T-529, T-542, T-543,
· · · · · · · · · · · · · · · · · · ·	. +			! 	T-353, T-354, T-421, T6422, T-432,
	 	· · · · · · · · · · · · · · · · · · ·		 	T-440, T-451, T-452, T-520, T-522,
	! 				T-532, T-542, T-549, T-550, T-621,
					T-622, T-629, T-630, T-642,
					T-720, T-721, T-722, T-729, T-730
	: 				T-820, T-821, T-822, T-829, T-830
				· · · · · · · · · · · · · · · · · · ·	T-849, T-850, T-851, T-852, T-922,
			-		T-929, T-930, T-941, T-942, T-949,
	<u> </u>			: مربع	T-950, T-1022, T-1029, T-1050,
	[ 		·		T-1040, T-1041, T-1042, T-1049,
					T-1050, T-1061, T-1120, T-1121,
	!	l			T-1122, T-1123, T-1130, T-1131,
	}				T-1132, T-1140, T-1140, T-1142,

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War Department - O.C.E. Form No. 290 July 6, 1942

# Page 4

Post Camp Butner, N C Date 26 May 1947 Serial Ho.

## TRANSFER OF NEW CONSTRUCTION

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Serial No._____ Job No._____

BUILDING & STRUCTURES

1. A. 1.

<u>G-1</u>

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[	(1)	(2)	(3)	(4) Totol Design	(5) Total Sac Ft. in	(3)
	Total No. Units	Plan No.	nnd Type	ed orpacity	Fluor Arga	Building Numbors and Romerks
			B=74(contd)			T-1149, T-1150, T-1151, T-1220,
	· · · · · · · · · · · · · · · · · · ·	······				T-1221, T-1222, T-1223, T-1251,
	· · · · · · · · · · · · · · · · · · ·					T-1232, T-1240, T-1241, T-1242,
						T-1520, T-1521, T-1522, T-1325,
						T-1350, T-1831, T-1832, T-1340,
		, 1				T-1841, T-1842, T-1349, T-1850,
						T-1430, T-1440, T-1441, T-1431,
		<u> </u>	· +			T-1442, T-1520, T-1521, T-1522,
`.	i	 				T-1523, T-1530, T-1531, T-1532,
	•	ļ				T-1550 T-1551 T-1820 T 100
	12 Constitution a sure of sure of sure					T-1622, T-1623, T-1650, T-1651,

War Dep	ertment - 0.0	.E. Form No. 290		Page 5	Fost Camp Butner, N C Date 26 May 1947
SAIT SAIT SAIT	, 1942 DING & STRUCT	URES	TRAESF. New CONS	ER OP TRUCTION	Serial ko
(1) Totol No. Units	(2) Plan flo.	(2) Designation and Type	(4) Fotel Design- ad copycity	(5) Total Sq. Ft. in Fluor Arva	(5) Building Bumbers and Remarks
		B-74(contd)			T-1632,T-1640,T-1641,T-1642,
	 				T=1649, T=1650, T=1651, T=1720, T=1721, T=1722, T=1723, T=1730,
					T-1731,T-1782,T-1749,T-1550,
	1				T-1820,T-1751,T-1821,T-1822,
					T-1829,T-1830,T-1831,T-1840,
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				T-1841,T-1842,T-1851,T-1852, T-1920,T-1921,T-1922,T-1923,
					T-1930, T-1931,T-1932,T-1940,
		·		; 	T-1941,T-1942,T-1949,T-1950,
	 <del> </del>				T-1951,T-2020, T-2021,T-2022,
	¦ 				T-2023, T-2030, T-2031, T-2032,
<u> </u>	· · · · · · · · · · · · · · · · · · ·	-	 	ļ	T-2040,T-2041,T-2042,T-2049,
· · · · · · · · · · · · · · · · · · ·	•		· · · · · · · · · · · · · · · · · · ·	-	T-2059,T-2051,T-2120,T-2121,

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1	War Depertment - C.C.E. Form No. 290 July 6, 1942		Pe TRAESF New CONS	<b>age 6</b> ER OF TRUCTION ,	Post Date 26 May 1947 Surial No Job No.	
	(1) Totol No. Units	$\frac{(2)}{\text{Plan flo}}$	(3) Designation and Type	(4) Fotel Design- od copycity	(5) Total Sq. Ft. in Fluor Aras	(0) Building Bumbers and Remarks
-			B=74(contd)		· · · · · · · · · · · · · · · · · · ·	T-2122,T-2123,T-2130,T-2131,
	······································		-			T = 2152, T = 2140, T = 2141, T = 2142, T = 2149, T = 2150, T = 2151, T = 2220, T = 2221, T = 2222, T = 2231, T = 2232.
-						T-2240, T-2241, T-2242, T-2340, T-2541, T-2342, T-2349, T-2350,
						T-2351,T-2352, T-2421, T-2422, T-2430, T-2431, T-2432, T-2441,
·  ~						T-2442, T-2449, T-2450, T-2451, T-2521, T-2522, T-2529, T-2530,
						T-2531, T-2541, T-2542, T-2549, T-2550 T-2651, T-2642, T-2722, T-2940,
		 	       		 	T-2941, T-2942, T-2949, T-2950, T-2951,T-2952, T-3020, T-3021,

Post**Camp Butner, N C** Date**26 May 1947** Serial no._____ Job No._____

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July 6, 1942					

TRANSFER OF NEW CONSTRUCTION

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		121		T	7
(1) Totel No. Units	(2) Plan No.	Designation and Type	Total Design- od copacity	Total Sq. Ft. in Floor Arda	Building Lumbers and Remarks
		B-74(contd)			T-3022, T-3029, T-3030, T-3121,
	<u> </u>			 	T-8122, T-3152, T-3429, T-5641,
		· · · · · · · · · · · · · · · · · · ·			T-3642, T-3649, T-3650, T-3721,
					T-3722, T-3729, T-3759, T-3759
					T-3849, T-3950, T-3951, T-3952,
					T-4020, T-4021, T-4030, T-4031,
	 				T-4052, T-4050, T-4051, T-4052,
					T-4130, T-4131, T-4152, T-4150,
					T-4151, T-4152, T-4230, T-4231,
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	T-4232, T-4440, T-4441, T-4442,
					T-1445, T-1446, T-4447, T-4448,
					T-4449, T-4452, T-4453, T-4520,
					T-4521, T-4522, T-4523, T-4526, T-4
					T-4528, T-4529, T-4532, T-4535,

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Fost Camp Butner, N C Date 26 May 1947

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BUILDING & STRUCTURES

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(1)	(2)	(3)	(4) Potol Design-	Totel So. Ft. in	(0)
Totol No. Units	Plan Ho.	and Typs	od copacity	Fluor Arga	Building Lumbers and Remarks
		B=74(conta)			T-4546, T-4547, T-4548, T-4549,
	; 			· · · · · · · · · · · · · · · · · · ·	T-4552, T-4558, T-4556, T-4557,
·					T-4620, T-4621, T-4622, T-4623, T-4626, T-4627, T-4628, T-4629,
					T-4632, T-4633, T-4640, T-4641,
	<u></u>				T-4642, T-4643, T-4646, T-4647,
				· · · · · · · · · · · · · · · · · · ·	T-4720, T-4721, T-4722, T-4723,
	+	+	····-	· 	T-4726, T-4727, T-4728, T-4729,
			-		T-4828, T-4829, T-4830, T-4821, T-4828, T-4829, T-4830, T-4831,
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		T-4832, T-4840, T-4841, T-4848,
		1	<u> </u>	1 	T-4850, T-4920, T-4921, T-4928,

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Post Camp Butner, N C Date 26 May 1947 Serial No._____ Job No._____

TRANSFER OF NEW CONSTRUCTION

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1		725	(),)	T	7/5/
(1)	(2)	Designation	Total Design-	Potel See Ft. in	(0)
Total	i Pian No•	ond Type	ad or pacity	Floor Arus	Suilding Euchers and Reports
No. Units		And Typs			building Pambers and Rong FRS
		T-74(contd)			T-4929 T-4930 T-4931 T-4932
	-}////				
	+				11-10-10-1-10-1-10-10-10-10-10-10-10-10-
			·	 	T=5020, T=5021, T=5028, T=5029,
	1				T-5030, T-5031, T-5032, T-5040,
					T-5041, T-5048, T-5050, T-5120,
					T-5121, T-5128, T-5129, T-5130,
					T-5131, T-5132, T-5140, T-5141,
					T-5148, T-5150
7	800-317	BOQ-44		56,143,4	T-2819, T-2901, T-3200, T-3202,
					T-3917, T-3918, T-3919,
52	800-317	BOQ-44		252.544	T-517 T-518 T-709 T-710
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	T-801, T-1402, T-1419, T-1500.

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Camp	Butner,	N.	C.	Post	Camp	Butner
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BUILDING & STRUCTURES

r			(1)	(5)	(0)
(1) Totel No. Units	Plan No.	Designation and Type	Total Design- ed orpacity	Total Sq. Ft. in Floor Arga	Building Eumbers and Remerks
32		BOQ-44(contd)	· · · · · · · · · · · · · · · · · · ·		T-1501, T-1718, T-1719, T-1800
	<u> </u>			1 	<b>1-2103, T-2104, T-2200, T-2202,</b>
					<b>1–2518, T–2519, T–3604, T–3916,</b>
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				<b>1-4417, T-4418, T-4419, T-4518,</b>
					<b>1-4519, T-4607, T-4608, T-4918,</b>
· · · · · · · · · · · · · · · · · · ·					1-4919, T,5000, T-5001
	800=805	M172		103.350	T=725. T=1026. T=1045. T=1046.
••••••••••••••••••••••••••••••••••••••					<b>T-1425, T-1445, T-1825, T-1845</b>
	1			-	1-2225, T-2245, T-2845, T-2925,
•					1-2926, 1-2945, 1-5025, 1-5026,
					T-3045, T-3345, T-3425, T-3426,
					T-5445, T-5446, T-3525, T-3526,
		i 1			<b>1-5845, T-3846, T-4558, T-4825,</b>

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Camp Butner, N Post Deto 26 May 1947 Serial No. Job No.

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			(1)	(',)	(5)
(1) Totol No. Units	Plan No.	Designation and Type	Total Design- ad orphoity	Total Sq. Ft. in Floor Area	Building Numbers and Remarks
		M172(contd)		· · · · · · · · · · · · · · · · · · ·	T-4845, T-4853, T-4925, T-4945,
			· · · · · · · · · · · · · · · · · · ·		T-4953, T-5025, T-5045, T-5053,
· · · · · · · · · · · · · · · · · · ·					T-5125, T-5145, T-5153,
	800805	M228		167,400	T-826, T-1126, T-1127, T-1145,
			· · · · · · · · · · · · · · · · · · ·		T-1146, T-1226, T-1227, T-1245,T-1246
	• • •	· · · · · · · · · · · · · · · · · · ·			T-1326, T-1327, T-1345, T-1346,
					T-1526, T-1527, T-1545, T-1546,
					T-1626, T-1627, T-1645, T-1646,
					T-1726, T-1727, T-1746, T-1826,
					T-1926, T-1927, T-1945, T-1946,
					T-2026, T-2027, T-2045, T-2046,
					T-2145, T-2146, T-2345, T-2346,
					T-2745, T-2746, T-2825, T-3145,

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#### War Depertment - 0.C.E. Form No. 290 July 6, 1942 TRAESFER OF

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Post Camp Butner, N C Dates 26 May 1947 Serial No.

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## BUILDING & STRUCTURES

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(1) Totol	(2) Plan No.	(3) Designation	(4) Totel Design-	(5) Totel Sq. Ft. in	
No. Units		and Type	ad ctpacity	FIGST Arta	Bullding Lumoors and Romerks
,	   				
		M228(contd)			T-3325, T-3326, T-3947, T-4026,
				; 	T-4027, T-4046, T-4047, T-4126,
				   	T-4127, T-4146, T-4147, T-4226
	1			   	T-4227
15	800-805	M248		48,750	T-600, T-711, T-800, T-846,
	1			· ·	T-1418, T-1717, T-2102, T-2126,
	   				T-2127, T-2446, T-2586, T-2546,
					T-4000, T-4416, T-5002
1	800-805	M248		3,275	T-2600
				· 	
4	800-511	TH1038-S		51,376	T-401, T-1903, T-3002, T-4300
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Post Camp Butner, N C Date 26 May 1947 Serial No. Job No.

War Department - O.C.E. Form No. 290 July 6, 1942

# NEW CONSTRUCTION

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(1) Total No. Units	(2) Plan No.	(3) Designation and Typs	(4) Total Design- ed copacity	(5) Totel Sq. Ft. in Fluor Arda	(6) Building Numbers and Remarks
2	700-1225	TH-4	•	10,224	T-1303, T-2700
1	PE-147-520	Film Library		2,400	T-3621
1		Photo Shop		1,127	T-3968
l	PE-176-15	7 Open Air Theet	9	1,800	<b>T-4240</b>
11	800-550	CH <b>-1</b>		35,893	<u>T-300, T-902, T-1202, T-1618,</u> <u>T-1902, T-2401, T-2917, T-3403,</u> <u>T-4119, T-4501, T-4719</u>
	800-588	FH-1		23,711	T-1401

It is cortified that the construction listed hereon is in accordance with maps.

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Fost Camp Butner, N C Dete 26 May 1947 Serial No. Job No.

# War Department - O.C.E. Form No. 290 July 6, 1942

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### TRANSFER OF NEW CONSTRUCTION

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(1) Totsl No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- Od ecpacity	(5) Total Sq. Ft. in Floor Arma	(5) Building Eumbers and Remerks
10	800-210	A-10		27,500	T-5449, T-500, T-1400, T-1600,
					T-2100, T-2603, T-2919, T-4561 T-5423, T- <b>5</b> 443.
1	800-661	<u> </u>		1,355	T-3760
10	800-607	CMS-1		23,520	T-5600, T-5601, T-5602, T-5603,
					T-5604, T-5605, T-5606, T-5607, T-5608, T-5609
10	800-607	CMS-1		23,480	T-5636, T-5637, T-5638, T-5639,
•					T-5644, T-5645
1		1	1	•	

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(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Fotel Design- ad copacity	(5) Totel So. Ft. in Floor Arda	(0) Building Fumbors and Romerks
•	800-800	F-2		23,900	T-18, T-657, T-4356, T-1458 T-2957
_58	800-664	05H <b>-1</b>		12,992	<b>T-456, 7-457, T-458, T-459, T-760</b>
	1			······································	T-1258, T-1656, T-1657, T-2056,
					T-2057, T-2355, T-2656, T-2657, T-2658, T-2659, T-2660, T-2661,
			· · · · · · · · · · · · · · · · · · ·		<b>T-2854, T-2855, T-3353, T-3354,</b>
		· · · · · · · · · · · · · · · · · · ·			<u>T-3359, T-3360, T-3361, T-3756,</u>
					T-3756, T-4056, T-4057, T-4464, T-4465, T-5610, T-5611, T-5612,
	······································		· · · · · · · · · · · · · · · · · · ·		T-5613, T-5614, T-5615, T-5616,
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July O	), ± <i>344</i> DIAC & STRUCT	TRES	TRANSF NEW CONS	ER OF TRUCTION	Serial No.	
(1) Tetrl No. Units	(2) Plan No.	(3) Designation and Typa	(L) Total Design- ad or pacity	(5) Totel Sq. Ft. in Floor Area	(8) Building Lumbers and Remarks	
· · · · · · · · · · · · · · · · · · ·		OSH-1(contd)			T=5620, T=5622, T=5623, T=5629 T=5631, T=5634, T=5646, T=5647 T=5648, T=5649, T=5650, T=5651	
					T-5652	
	800-959	MRS-1			T-953, T-4053, T-5360, T-5361, T-5362, T-5363, T-5364, T-5365, T-5366, T-5367, T-5368, T-5369,	
					T-5371, T-5372, T-5373, T-5374, T-5375, T-5376, T-5377	
	800-306	Maj Gen's Quarte	rs	1584	T-99	
2	800-307	BGQ		2262	T-97, T-98	

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War Der	pertmant - 0.C.	E. Form No. 290		Page 17	Post Camp Butner, N C Date 26 May 1947
July 6	5, 1942	EX F S	TRANSF NEW CONS	ER OF TRUCTION	Seriel Ro.
(1) Total No. Units	(2) Plan No.	(3) Designation and Typa	(4) Total Design- ad copacity	(5) Total Sq. Ft. in Fluor Arma	(6) Building Lumbers and Remarks
6	800-308	RCQ-1		6786	T-1417, T-1802, T-2101, T-260 T-2888, T-4102
1	PE-178-43	W.O.'s Qtrs		3693	T=555
1		Provost Marshal	Office	2259	T-5599
1		Detention House		400	
4	800-305	SB-1		<u> </u>	
1	7153-144	DH-1 Mod		100	
	DE0	DH=1		672	T-4855 T-4955 T-5065 T-515

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BUIL (1) Tothl No. Units	DING & STRUCTU (2) Plan Do.	(5) Designation and Type	(4) Total Design- Ed capacity	(J) Totel Sq. Ft. in Fluor Arga	(5) Building Dumburs and Romerks
<b>.</b>	414 <b>-4</b> 3-330	Inc inerator	·····	2439	<u>T-780, T-1870, T-2300</u>
1	PE-176-50	Storage House		123	T=958
1	· · · · · · · · · · · · · · · · · · ·	Guard House		125	T-2301
1	PE-147-383	Fire Station		595	T-130
1	7133-371	Chlorine Control	House	412	<u>T-92</u>
7	800-664	SH-9		18,900	T-355, R-706, T-1253, T-1653, T-2053, T-2558, T-2955
	800-204	DHQ		16,720	T-707

It is certified that the construction listed hereon is in accordence with maps,

War Doj July 6	War Depertment - 0.C.E. Form No. 290 July 6, 1942			Page 19	Post Camp Butner, N C Date 26 May 1947
5 4.5 4 b(117)	DING & STRUCTU	RES	TRANSF NEW CONS	ER OF TRUCTION	Strial Ro- Job Ro
(1) Totel No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ud copacity	(5) Total Sq. Ft. in Fluor Arua	(5) Building Dumbers and Remerks
1	7133-150-1504		, <b></b> _, <b>_</b> , <b>.</b> ,		
	PE-176-145	PHQ-1		11,991	<b>T-603</b>
1	800-219	FB-1		5920	
2	800-225	P0-2		8140	T-605, T-701
1	600-225	P03		<u>5550</u>	T-3620
l	800-907	TT-4		2750	<b>T=606</b>
1	T.0,700-5201 to B.D. 350	OB-AT	· · · · · · · · · · · · · · · · · · ·	2000	T-535Q
1	T-7133-101-12	Lab & Off of Sem	age Plant	1250	T-\$5
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(1) Fotel 5. Units	(2) Plan No.	(3) Designation and Type	(4) Totel Design- ad copacity	(5) Totel Sq. Ft. in Flyor Arda	(6) Building Lumbers and Romerks
	7177190	A-4		2608	T5424. T5425
	1122-123				
15	800-222	IBA-1		26,250	T-819, T-1018, T-1104, T-1105,
	1				T-1301, T-1519, T-1701, T-1819
					T-1901, T-2002, T-2218, T-3204
	* · · · · · · · · · · · · · · · · · · ·			·	T-3300, T-3602, T-3800
15	800-663	SH8		20,250	T-254, T-855, T-664, T-655
					T-753, T-1056, T-1057, T-2356
					T-3155, T-3559, T-3560, T-4854
	<u>+</u>	·		: 	T-4956, T-5054, T-5156
10	800-654	SH-18		90,000	T-5426, T-5438, T-5439, T-5440
	<u> </u>				T-5441, T-5442, T-5456, T-5467
	······································	1. La companya de la El companya de la comp El companya de la comp El companya de la companya de enterna de la companya de			T-5468, T-5469

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	DING & STRUCT			·····	)
l) Stol Muits	(2) Plan Ho.	Designation and Type	Totel Design- ad copacity	Totel Sq: Ft. in Fluor Arua	Building Lumbers and Remarks
1	800-652	SH-13	· · · · · · · · · · · · · · · · · · ·	9392	
21	800-652	SH-13		189,000	<u>T-5352, T-5363, T-5427, T-542</u>
	1			     <u></u>	T-5429, T-5430, T-5431, T-543
	1				T-5433, T-5434, T-5435, T-543
	· · · · ·				T-5437, T-5457, T-5458, T-545
					T-5460, T-5462, T-5463, T-546
					T-5465
1	800-303	GU-HO-14	 	2610	T-2319
16	800-1429	1-2		33,600	T-218, T-901, T-1000, T-1200
	!				T-1601, T-2001, T-2404, T-300
				   	T-5203, T-5400, T-5801, T-41

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BUILDING & STRUCTURES

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(1) Total No. Units	(2) Plan Ro.	(3) Designation and Typa	Fotel Design- ad copacity	Totel Sq. Ft. in Fluor Arda	Building Dumbars and Romarks
		I-2(contd)		33,600	<u>T-4415, T-4703, T-4802, T-5117,</u>
2	800-1432	DC-1		12,760	T-1019, T-3601
15	800-480	E-3		108,000	T-402, T-700, T-1300, T-1504,
	· · · · · · · · · · · · · · · · · · ·		j		T-2019, T-2403, T-3001, T-3518, T-3301, T-3404, T-4200, T-4414,
	· _ ·				T-4502, T-4800, T-5118
2	800-531	E-2 ;	 	6216	<b>T-900, T-904</b>
<b>.</b>	PE 176-137	Post Ex. & Laun	dry	800	T-5413
	800-883	Mess Hall PGM-3		4320	T-3857

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(1) Totel No. Units	(2) Plan flo.	(?) Designation and Type	(4) Potel Design- ud copycity	Totel Sq. Ft. in Fluor Arka	duilaing Limburs end Romerks
1	800 <b>-</b> 865	Off Mess OM-1		4440	_T-2318
2	800=809	OR11-2		2400	T-200, T-5119
8	T.O. 700-64	100 M-B-T		14,080	<u>T-4437, T-4536, T-4537, T-4538,</u> T-4539, T-4636, T-4637, T-4736,
44	800-805	M-112		99,000	T-147, T-225, T-226, T-245, T-246, T-247, T-326, T-346, T-350, T-429
	     			· · · · · · · · · · · · · · · · · · ·	T-445, T-448, T-525, T-529, T-546, T-625, T-626, T-645, T-726, T-926,
	•	· · · · · · · · · · · · · · · · · · ·	     	· · · · · · · · · · · · · · · · · · ·	T-945, T-946, T-1025, T-2425, T-2445, T-2525, T-2545, T-2625,
	: 				T-2645, T-2646, T-2725, T-2726,

It is certified that the construction listed hereon is in recordence with maps,



War Department - 0.C.E. Form No. 290 July 6, 1942			Page 24 TRANSFER OF NEW CONSTRUCTION		Post Camp Butner Date 26 May 1947 Serial No
(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ed orpacity	(5) Total Sq. Ft. in Floor Arda	(6) Building Eumbers and Remarks
		M-112(contd)			T=3226, T=3201, T=3645, T=3646, T=3700, T=3725, T=3726, T=3745, T=3746, T=3825, T=4600, T=4606,
22	800-805	M-152		55,000	T-146, T-325, T-428, T-545, T-826, T-925, T-1426, T-1446, T-1745, T-1846, T-2226, T-2255, T-2626, T-3125, T-4824, T-4844, T-4924, T-4944, T-5024, T-5044, T-5124, T-6144
<b>6</b>	800-1166	M-300		69,120	<u>T-2426, T-2826, T-2946, T-3346,</u> T-4444, T-4445, T-4524, T-4525, T-4544, T-4545, T-4624, T-4625,

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War Dop July 6	ertment - 0.0 , 1942	.E. Form No. 290	TRAUSE	Page 25	Fost Camp Butner, N C Date 26 May 1947 Sorial No.
PitT.	NTNG & STRUCT	URES	N#91 CON1	TRUCTION	Job 40,
(1) Tot:1 No. Units	(2) Plan Mo.	(3) Designation and Type	(h) Total Design- od copacity	(5) Totel Sq. Ft. in Fluor Arum	(5) Building Lumbors and Remarks
		M-300(contd)		· · · · · · · · · · · · · · · · · · ·	T-4644, T-4645, T-4724, T-4785,
	700-310	RB-1		57,808	T-403, T-818, T-1203, T-1503,
· · · · · · · · · · · · · · · · · · ·					T-2018, T-2500, T-3003, T-3119,
	1				T-3318, T-3719, T-4019, T-4413,
			 		T-4702, T-4801, T-5003
12	800-451	ORBL-3	· · · · · · · · · · · · · · · · · · ·	27,000	T-801, T-708, T-802, T-1502,
				·	T-1801, T-2201, T-2900, T-3701,
	! }			: 	T-4001, T-4500, T-4517, T-4701,
• 1	800-210	<b>A-</b> 8		2682	T-4002
8	800-210	A-5		13,500	T-217, T-319, T-400, T-602, T-70

It is curtified that the construction listed hereon is in second nee with mons.

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war Duk	pertment - 0.0	.E. Form No. 290		Page 26	Camp Butner, N C	
July E	July 6, 1942		TRAUSFER OF NEW CONSTRUCTION		Dete <b>26 May 1947</b> S rist de. Job ro.	
(1) Totel No. Units	(2) Plan flo.	(3) Designation and Type	(L) Totel Design- ed capacity	()) Total Sq. Ft. in Fluor Area	(0) Building Eumbors and Romerks	
		A-5(contd)			<u>T-2400, T-3118, T-3402, T-3500</u> .	
3	800-210	<b>A_4</b>			T=2402, T=2517, T=2604	
4	800-210	<u>A-8</u>		9000	T-4803, T-4900, T-5004, T-5100	
4	800-607	15 Storage Bay	······································	38,640	T-5618, T-5619, T-5632, T-5633	
44	800-606	SP-2		136,752	<b>T-357</b> , <b>T-453</b> , <b>T-454</b> , <b>T-455</b> , <b>T-859</b> , <b>T-860</b> , <b>T-955</b> , <b>T-1059</b> , <b>T-1154</b> , <b>T-11</b>	
·			·		T=2358, $T=2453$ , $T=2454$ , $T=2455$ , T=2456, $T=2453$ , $T=2454$ , $T=2455$ , T=2456, $T=2553$ , $T=2654$ , $T=2957$	
	•	1			T=2856, T=3158, T=3253, T=3254,	

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Fost Camp Butner, N C Dolo 26 May 1947

TRACSFER OF NEW CONSTRUCTION BUILDING & STRUCTURES

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July 6, 1942

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War Department - 0.0.E. Form No. 290

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(1) Tote1	(2) Plan 110.	(2) Designation	(4) Totel Design-	Total Sq. Ft. in	(3)
No. Units		and Typs	υς <b>σ</b> υρωσ <b>ατ</b> γ	Floor Kris	Building Lumbers and Remarks
•••••••		SP-2(contd)	· · · · · · · · · · · · · · · · · · ·		T-3255, T-3256, T-3453, T-3454,
					T-3456, $T-3457$ , $T-3458$ , $T-3553$ , T-3554, $T-3655$ , $T-3656$ , $T-3957$ ,
					T-4055, T-4458, T-5624, T-5625,
					T-5628, T-5630
8	800-1007	UGH-24		14,000	T-559, T-754, T-1153, T-1553, T-1953
			gygeld All is an annallannaith marraith (19 a g a guarges		T-2559, T-2760, T-3955
10	10 800-1007	UGH-12		11,500	T-756, T-858, T-1058, T-2357, T-3654
<b></b>					T-3757, T-4856, T-4954, T-5056,
					T-5154,
22	700-348	Car Wash, 10 Car		66,000	T-460, T-2354, T-2653, T-2654,

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·tmont - U.C	.E. Form No. 290			Post 26 May 1947
1742		TRASSF NEW CONS	ER OF TRUCTION	Serial so
ING & STRUCT	URES	• • • • • • • • • • • • • • • • • • • •		
(2) Plan No.	(3) Designation and Type	(L) Total Design- ed capacity	()) Totel Sq. Ft. in Floor Arwa	(0) Building Dumbors and Romerks
	Car Wash (contd)			T-2655, T-2856, T-3159, T-3160, T-3161, T-3162, T-3163, T-3555,
		`	1	T-3556, T-3557, T-3558, T-3758,
				T-3754, T-4058, T-5617, T-5621,
		• • • • • • • • • • • • • • • • • • •		T-5635, T-5653
700-348	Car Wash, 5 car		19,500	T-556, T-557, T-757, T-758, T-759,
				T-761, T-1255, T-1256, T-1654, T-1
				T-2054, T-2055, T-4463
7133-145	Utilities Shop	· · · · · · · · · · · · · · · · · · ·	10,504	T-5421
7133-133	Carpenter Shop		10,400	T~5422
	1.)42 (3.6 & STRUCI (2) Plan No. 700-348 7133-145 7133-133	1.)42 1.)42 (2) (3) Plan No. Designation and Type Car Wash (contd) 700-348 Car Wash, 5 car 7133-145 Utilities Shop 7133-133 Carpenter Shop	1)22   TRAESF     1)242   Transform     1)242   Transform <td>1.942 TRAESFER OF   1.942 TRAESFER OF   1.942 TRAESFER OF   1.942 New CONSTRUCTION   (2) (3)   (1) (1)   (2) (3)   (2) (3)   Designation Total Design   And Type Floor Area   Car Wash (contd) Image: Car Wash, 5 car   700-348 Car Wash, 5 car   7133-145 Utilities Shop   10,504</td>	1.942 TRAESFER OF   1.942 TRAESFER OF   1.942 TRAESFER OF   1.942 New CONSTRUCTION   (2) (3)   (1) (1)   (2) (3)   (2) (3)   Designation Total Design   And Type Floor Area   Car Wash (contd) Image: Car Wash, 5 car   700-348 Car Wash, 5 car   7133-145 Utilities Shop   10,504

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War Du	vertment = 0.0	.E. Form No. 290		Page 29	Fost Camp Butner, N C Date 26 May 1947
eur eur	CDING & STRUCT	NRES	TRANSI NEW CON	FER OF STRECTION	Serial co Job no
(1) Totel No. dnits	(2) Plan flo.	(3) Designation and Typs	(4) Fotal Design- ed copacity	(5) Total Sq. Ft. in Fluor Arta	(5) Building Lumbors and Romarks
	800-1029	Ldy 20,000 A		52, <u>812</u>	<b>T-5416</b>
1	Hone	Grill & Cafeteri	P	8,960	T-3970
2	7133-153.3	Gas Chamber		1,200	T-732, T-5378
1	PE 176-144	Bus Stop at Bus	Station	4 <u>80</u>	T-3551
1	PE 176-114	Bus Station		709	T=3550
1	800-1000	Shop Clothing &	Equip, CERS-1	9,360	T-5420
<b>1</b>	800-1200	<u>CS-30</u>		24,640	T=5455
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It is cortified that the construction listed hereon is in accordance with maps,

Nar Dop July € BUIL	pertment - 0.0 , 1942 DING & STRUCT	.E. Form No. 290 NRES	TRANSF NEW CONS	Page 30 ER OF TRUCTION	Post <u>Camp Butner, N.C.</u> Dote 26 May 1947 Script No.
(1) Total No. Units	(2) Flan No.	(3) Designation and Typa	(4) Total Design- ed copacity	(5) Total Sq. Ft. in Fluor Arma	(0) Building Lumbors and Romerks
	B-AC-51	CS-H-M (Mod)	·····	20,088	T-5454
1	800-682	BAK-3		9,968	<b>T-5451</b>
1	652-542	Ordnance Shop	-	8,400	T-4461
1	700-287	Lavatory (1-7)		1,650	T-3859
10	800-601	Gas Station		1,570	<u>T-356, T-954, T-1555, T-2662, T-266</u> <u>T-3455, T-3657, T-4054, T-5626</u> T-5627
				· · · · · · · · · · · · · · · · · · ·	

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It is cortified that the construction listed hereon is in accordance with maps,

Page 30-A

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PostCe	mp Butr	ner, N.	C.
Date	26 May	1947	
Serial Job Ro			

War Department - 0.0.E. Form No. 290 July 6, 1942

BUILDING & STRUCTURES

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(1)	(2)	(3) Designation	(4) Total Design-	()) Totel Sq. Ft. in	(0)
No. Units		and Type	od copacity	Floor Aras	Building Eumbors and Remarks
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
4	800-1025	2-10 ton vehicle	groase and inspec	tion_rack,_adjacent	to T-460
4	800-1025	2-10 ton vehicle	grease and inspec	tion rack, adjacent	to T-761
2	7133-161	2-Jeep vehicle g	rease and inspect:	on rack, adjacent t	<u>o</u> <u>T-900</u>
2	7133-161	2-Jeep vehicle g	rease & inspection	rack, adjacent to	7-1300
2	7133-161	2-Joep vehicle g	rease and inspect:	on rack, adjacent t	
2	800-1026	2-10 ton vehicle	grease and inspe	tion rack, adjacent	to T-1655
2		2-10 ton vehicle	grease and inspe	tion rack, adjacent	to_T-1555
2	800-1025		grease and inspe	tion nack, adjacent	to T-2055
1	800-1026	2-10_ton_vebicle	grease and inspe	tion rack, adjacent	t to T-2354
5	800-1026	2-10 ton vehicle	grease and inspe	ction rack, adjacent	t to T-2655
2	800-1026	2-10 ton vehicle	grease and inspe	ction rack, adjacent	t to T-2856
4	800-1026	2-10 ton vehicle	grease and inspe	ction rack, adjacent	t to T-3355
2	800-1026	2-10 ton vehicle	grease and inspe	ction rack, adjacen	t to T-3360
2	800-1026	2-10 ton vehicle	grease and inspe	ction rack, adjacen	t to T-4058

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It is cortified that the construction listed hereon is in accordence with maps,



har Dop July 6	ertmont - 0.C. , 1)42	E. Form No. 290	TRANSF New CONS	Page 31 DER OF TRECTION	Fost <u>Camp Butner, N C</u> Date 26 May 1947 Serial No
BUIL	DING & STRUCTIO	RES		, , , , , , , , , , , , , , , , , , ,	
(1) Totel No. Units	(2) Plan flo.	(3) Designation and Typa	(4) Fotal Design- Od copyoity	(9) Total Sq. Ft. in Fluor Arva	(5) Building Eunbors and Romarks
<b>b</b> 2	(700-4214 PE 176-80)	2 vehicle per	rack grease and in	spection rack, adjac	ent_to T-5625
1	800-303	GU <b>-</b> H <b>0-20</b>		3,023	T2800
1	800-550	GH-1	-	3.263	T-704
1	700-1200	GU-HO		27,179	T-3600
1	800-561	SC4		12,505	
<u> </u>	800-617	SC-3		19,960	
1	800-517	SC-3		25.954	

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It is certified that the construction listed hereon is in accordance with maps,



war Dig Buly G	aar 1 pertment - 0.0.1. Form No. 290 July 6, 1942		Page 32 TRAEGFER OF NOW CONSTRUCTION		Post Camp Butner, N C Doto 26 May 1947 Serial do Job No
(1) Total Mo. Units	(2)   (2)   Plan Mo.	Designation and Type	(4) Total Design- Od cepacity	(5) Totel Sq. Ft. in Floor Arga	(0) Building Lumbors and Romerks
ļ	800-661&800-	459 SAO2 & RB-2		3,500	T-823, T-824 Combined
114	800-661&800-	459 & RB-2		313,500	T-144 & T-145 Combined, T-148 &
					T-149 Combined; T-223 & T-224, Combined; T-227 & T-228, Combined;
		· · · · · · · · · · · · · · · · · · ·			T-243 & T-244 Combined; T-248 & T-249 Combined; T-323 & T-324, Combined: T-327 & T-328 Combined:
			· · · · · · · · · · · · · · · · · · ·		T-340 & T-341,Combined; T-344 & T-345, Combined; T-351 & T-352
				<u>.</u>	Combined: T-423 & T-424, Combined T-430 & T-431 Combined; T-443 &
<b></b>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	   	 	T-444 Combined; T-449 & T-460 Comb T-523 & T-524 Combined; T-530 & T-

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Camp Butner, N C Fost 26 May 1947 Serial Ro. Job Ro.

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	()	(5)	(4)		(0)
1011 101 - 1110	Flundo.	Designation and Type	Totel Dasign-	Fluor Aria	Building humbors and Romarks
· · · · · · · · ·					·····
• · · · · · · ·	 	     	   		<u>Combined; T-543 &amp; T-544 Combined;</u> T-547 & T-548 Combined; T-623 & T-624
	1				Combined; T-627 & T-628 Combined; T-6
	1				& T-644 Combined; T-723 & T-724 Com-
	1				bined; T-727 & T-728 Combined;
	· · · · · · · · · · · · · · · · · · ·				T-827 & T-828 Combined: T-923 &
					T-924 Combined; T-927 & T-928 Com-
	1				bined; T-943 & T-944 Combined ;
		 			T-951 & T-952 Combined; T-1023 &
					T-1024 Combined; T-1027 & T-1028
				-	Combined; T-1043 & T-1044 Combined;
				: } }     	T-1047 & T-1048 Combined; T-1138 &
<b>P</b>		1			T-1139 Combined; T-1233 & T-1234
					Combined; T-1352 & T-1353 Combined;

It is certified that the construction listed hereon is in accordence with maps,



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				Para 34
War Dupertment -	O.C.E. Form No.	290,	• .	, ,
July 6, 1942			TRANSFER OF	

Post_	Camp Butner, N C
Date	26 May 1947
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# NEW CONSTRUCTION

# Job No.

BUILDING & STRUCTURES

(1) Total No. Units	(2) Plan Ho.	(3) Designation and Type	(4) Totel Design- ad orpacity	(9) Totel Sq. Ft. in Fluor Arus	(6) Building Eumbors and Romerks
					T-1423 & T-1424 Compined; T-1428
					Combined; T-1447 & T-1448 Combine
	1				T-1657 & T-1558 Combined; T-1658
	; 				Combined; T-1823 & T-1824 Combin
· · · · · · · · · · · · · · · · · · ·					T-1832 & T-1833 Combined; T-1843
	· 				T-1844 Combined: T-1849 & T-1850
			· · · · · · · · · · · · · · · · · · ·		T-2058 & T-2059 Combined; T-2152
					T-2153 Combined; T-2223 & T-2224
·				, , , , , , , , , , , , , , , , , , , ,	T-2255 & T-2254 Combined: T-224
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	T-2244 Combined; T-2425 & T-2424

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Camp Butner, N C Post Date 26 May 1947

Serial	NO
Job No.	

War Department - 0.C.E. Form No. 290 July 6, 1942

BUILDING & STRUCTURES		NEW CONSTRUCTION		Job No.	
(1) (2) (3) Totel Plan No. Designation No. Units and Type		(L) Total Design- ed capacity	(5) Total Sq. Ft. in Fluor Area	(6) Building Numbers and Remerks	
\					combined; T-2443 & T-2444 combined; T-2447 & T-2448 combined; T-2523 &
					<b>T-2524</b> combined; <b>T-2527</b> & <b>T-2528</b> pombined; <b>T-2545</b> & <b>T-2544</b> combined; <b>T-2547</b> & <b>T-2548</b> combined; <b>T-2628</b> &
					T-2624 combined; T-2627 & T-2628
					T-2647 & T-2648 combined; T-2723 & T T-2724 combined; T-2727 & T-2728
				   	combined; T-2843 & T-2844 combined; T-2925 & T-2924 combined; T-2927 &
					T-2928 combined; T-2945 & T-2944 combined; T-3025 & T-3024 combined;
					T-3027 & T-3028 combined; T-3043 &

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It is certified that the construction listed hereon is in accordance with maps,

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Post Camp Butner, N C Date 26 May 1947

Serial	100
Job No	1

War Department - 0.C.E. Form No. 290 July 6, 1942

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BUILDING & STRUCTURES

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(2)	(2) D. (1)	Total Dagier-	Total So, Kt. in	
Plan No.	Designation	IOUEI Design-	Floor true	Auilding Europane and Papanha
	and Type	ad at pactry	FIGOI ALSE	Building Numbers and Remerks
-				
		I I		
المحمد الهوام الممد والمسرا لهذيا وا	 			
				T-3044 combined: T-3123 & T-3124
				ambined m 2127 h m 2120 combined
				[Compined; 1-Sizi & 1-Size compined]
	l			T-3143 & T-3144 combined; T-3343 &
				T-3344 combined; T-3423 & T-3424
				combined; T-3427 & T-3428 combined;
• • • • • • • • • • • • • • • • • • •		╊╼╼╼╼╼╼╼ ╽		T-3443 & T-3444 combined: T-3447 &
				T-3448 combined; T-3523 & T-3524
			,	combined; T-3527 & T-3528 combined;
				T-3643 T T-3644 combined; T-3647 &
	·		de	T-3648 combined; T-3723 & T-3724
			 	combined: T-5727 & T-5728 combined;
·		·	 	T-3743 & T-3744 combined; T-3747 &
	1	· · · · · · · · · · · · · · · · · · ·		T-3748 combined; T-3823 & T-3824
	∲	**************************************	· · · · · · · · · · · · · · · · · · ·	combined; T-3843 & T-3844 combined:
	(2) Plan No.	(2) (3) Plan No. Designation , and Typ3	(2) (3) (4) Plan No. Designation , and Type - entropy - entrop	(2) (3) (4) (5) Plan No. Dosignation and Type of a procity Floor Area

It is curtified that the construction listed hereon is in accordence with maps,

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- July O	.DING & STRUCTU	RES	TRANSF NEW CONS	ER OF - TRUCTION	Serial No Job No
(1) Total No. Units	(2) Plan No.	(3) Dosignation and Type	(4) Total Design- ed oppacity	(5) Total Sq. Ft. in Fluor Arga	(5) Building Numbers and Remerks
······			· · · · · · · · · · · · · · · · · · ·		<u>T-3847 &amp; T-3848 combined; T-4569</u> <u>T-4560 combined; T-4822 &amp; T-4823</u>
	· · · · · · · · · · · · · · · · · · ·				T-4842 & T-4843 combined: T-4846
	1	/			T-4847 combined; T-4851 & T-4852
	, 		`		combined; T-4922 & T-4923 combine T-4926 & T-4927 combined; T-4942 T-4943 combined; T-4946 & T-4947
					combined; T-4951 & T-4952 combine T-5022 & T-5023 combined: T-5026
	<u>+</u> †				T-5027 combined; T-5042 & T-5043
				 	T=5046 & T=5047 combined; T=5051 & T=5052 combined;
· · · · · · · · · · · · · · · · · · ·	······································				T=5125 combined. T=5126 & T=5127

It is cortified that the construction listed hereon is in accordance with maps,

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Date 26	May	1947				_
Serial	ко <b>-</b>				 	
Job No.						

War Depertment - 0.C.E. Form No. 290 July 6, 1942

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BUILDING & STRUCTÜRES

(1) Totol	(2) Flan No.	(3) Designation	(4) Total Design-	(5) Total Sg. Ft. in	(6)
No. Units		and Type	r ad cepacity	risor gr∋a	Building Numbers and Remerks
		} 	• ••••••••••••••••••••••••••••••••••••		·
					Combined; T-5142 & T-5143 Combin T-5146 & T-5147 Combined; T-5151
					T-5152 Combined
	800-661 &800-	460 SA-2 & RB-4	· · · · · · · · · · · · · · · · · · ·	230,750	T-847 & T-848 Combined; T-1124 &
			·		T-1125 Combined; T-1128 & T-1129
					Combined; T-1143 & T-1144 Combin
		-			T-1147 & T-1148 Combined; T-1224
					T-1225 Combined; T-1228 & T-1229
	, <b>}</b>	 	· · · · · · · · · · · · · · · · · · ·		bined; T-1245 & T-1244 Combined;
		1 		 	T-1247 & T-1248 Combined; T-1324
			 		T-1325 Combined; T-1328 & T-1329
	1	· 			Combined; T-1343 & T-1344 Combin
	!	1			T-1347 & T-1348 Combined; T-1524

It is certified that the construction listed hereon is in accordence with maps,

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War Depertment - 0.C.E. Form No. 290 July 6, 1942

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Post Camp Butner, N C
Date 26 May 1947
Serial No.
Job No

BUILDING & STRUCTURES

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[	·(1)	(2) Plan No.	(3) Designation	(4) Total Design-	(5) Total Sq. Ft. in	(6)
	No. Units		and Typa	ad copacity	Floor Area	Building Numbers and Remarks
		-			\$ 1	
					······································	
Ĺ						T-1525 combined: T-1528 & T-1529
		i •			 	combined; T-1545 & T-1544 combined;
				) 	······································	<b>F-1547 &amp; T-1548</b> combined; <b>T-1624</b> &
		! 			-	T-1625 combined; T-1628 & T-1629
					·	combined; T-1643 & T-1644 combined;
		l				T-1647 & T-1648 combined; T-1724 &
		1				T-1725 combined, T-1828 & T-1729
						combined; T-1747 & T-1748 combined;
			-			T-1827 & T-1828 combined; T-1924 & T
						T-1925 combined; T-1928 & T-1929
			1			combined: T-1945 & T-1944 combined:
						T-1947 & T-1948 combined: T-2024 &
		1				T-2025 combined: T-2028 & T-2029
						combined; T-2043 & T-2044 combined:

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TRANSFER OF NEW CONSTRUCTION

Post	Camp	Butne	er, N	c
Date	26 M	y 194	.7	

Job No.

Serial No.

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# BUILDING & STRUCTURES

(1) Totol	(2) Plan 80.	(3) Designation	(4) Total Design-	(5) Totel Sq. Ft. in	(6)
No. Units		and Typs	ad copacity	Floor Area	Building Lumbors and Romerks
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
(					T-2047 & T-2048 Combined; T-2124
	1			)   	T-2125 Combined: T-2128 & T-2129
					Combined; T-2143 & T-2144 Combin
	1	1			T-2147 & T-2148 Combined; T-2343
					T-2344 Combined; T-2347 & T-2348
		`			Combined; T-2428 & T-2429 Combin
					T-2743 & T-2744 Combined; T-2747
					T-2748 Combined; T-2823 & T-2824
				) 	Combined; T-2885 & T-2834 Combin
	+			: 	T-2953 & T-2954 Combined; T-3323
	•				T-3324 Combined; T-3327 & T-3328
				·	Combined; T-3348 & T-3849 Combin
				 	T-3948 & T-3949 Combined; T-402
	1	i 1			T-4025 Combined; T-4028 & T-402

It is curtified that the construction listed hereon is in accordance with maps,

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Post	Camp	Butner,	N	<b>,</b>
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July 6, 1942

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1.0.1				······	······································
(1)	(2) Plan No.	(3) Designation	(4) Totel Design-	Total Sq. Ft. in	(8)
No. Units		and Type	) od cepacity	Floor Arta	Building Numbers and Remarks
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	combined: T-4044 & T-4045 combined.
T	 				H=1040 & T=4049 combined; T=4124 &
					1-4125 combined: T-4128 & T-4129
	! 	 			bombined; T-4144 & T-4145 combined;
					T-4148 & T-4149 combined; T-4224 &
			<u> </u>		T-4225_combined; T-4228_& T-4229
			·		pombined: T-4450 & T-4451 combined;
					1-4454 & T-4455 combined; T-4530-&-
					T-4531 combined; T-4534 & T-4535
	 			• <b> </b>	combined; T-4550 & T-4551 combined;
				· · · · · · · · · · · · · · · · · · ·	T-4554 & T-4555 combined; T-4630 &
	<u> </u>				T-4631 combined; T-4634 & T-4635
· · · · · · · · · · · · · · · · · · · ·					ombined; T-4650 & T-4651 combined;
	} •	) }	J	·	1-4654 & T-4655 combined: T-4730 &

It is certified that the construction listed hereon is in accordance with maps,

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Post Camp Butner, N C Date 26 May 1947 Serial No Job No

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BUILDING & STRUCTURES

(1)	(2)	(3) Decision	(4) Total Design	(5) Total Sa. Kt. in	(6)
Total No. Units	Plan 140.	and Type	ad capacity	Floor Area	Building Numbers and Remerks
					T-4731 combined; T-4734 & T-4735
					combined .
5	800-459	RB <b>2</b>		6,250	T-2848, T-143, T-1427, T-1848,
	+				T-2228
3	T.O.700-6005	WHBT		23,040	T-5472, T-5473, T-5474
2	700-6005	WHBT	4	16,144	T-4467, T-4468
1	800-201	PQM <b>-1</b>		5,436	T=5444
11	800-201	РСИ	•	6,123	T-5446
				· · · · · · · · · · · · · · · · · · ·	

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Post Camp Butner, N C Date 26 May 1947 Serial No Job No.

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TRANSFER OF NEW CONSTRUCTION

907I	DING & STRUCT	URES		·
(1) Total No. Units	(2) Plan No.	(5) (L) Designation Total Design- and Type od capacity	. (5) Total Sq. Ft. in Floor Araa	(6) Building Numbors and Remarks
1	800-759	IS=25	3,200	T-5450
	Butner 1/11	Ambulance Platform	4,741	T=5470
2	PE=147-445	Bowling Alley	9,600	T-610, T-611
		Mag.PortableSteel Igloo	400	T=5700, T=5701
4		Mag.Portable Steel Igloo	1,600	T-5702, T-5703, T -5704, T-5705
4	B-A0-100	Steel Magazine (Earth Covered)	3,180	T-5715, T-5716, T-5717, T-5718
8		Mag Portable Steel Igloo	6,400	T-5706, T-5707, T-5708, T-5709,

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	DING & STUDIOP	, IBES	MENAL COMP	INCOLION	
BUIL (1) Total S. Units	(2) Plan No.	(3) Designation and Type	(4) Totel Design- od copacity	(5) Total Sq. Ft. in Fluor Arua	(5) Building Eumbors and Remarks
43	7133-153.6	Portable Pit La	trine	4300	T-5805, T-5806, T-5807
					T=5815, $T=5816$ , $T=5818$ , $T=5819$
مىيى بى غە مىسم					T-5820, T-5823, T-5824, T-5825
	1				T-5827, T-5828, T-5829, T-583
	· · · · · · · · · · · · · · · · · · ·				T-5833, T-5834, T-5836, T-5837
					T-5838, T-5840, T-5841, T-5843
					T-5844, T-5845, T-5861, T-5862
					T-5863m T-5871, T-5872, T-5873
				· · · · · · · · · · · · · · · · · · ·	T-5880, T-5886, T-5887, T-5888
	-				T-5897, T-5898, T-5902, T-5903
	7177.153-6	i Latrines		200	T-5889, T-5890

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July 6, 1942 BUILDING & STRUCTURES		TRARSFER OF NEW CONSTRUCTION		Serial No Job No	
(1) (2) Total Plan No. No. Units	(3) Designation and Type	(4) Total Design- ed copacity	(5) Totel Sq. Ft. in Fluor Arde	(6) Building Dumbors and Remerks	

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				f	
· • • • • • • • • • • • • • • • • • • •	3	BN -50	Portable Pit Latrine	315	T-5866, T-5867, T-5868
Y	5	7133-153.6	7133-153.2 Latring (Mod)		T-5846, T-5847, T-5848, T-5849 T-5850
	12	7133-153,8	Guard House	300	T-5904, T-5905, T-5906, T-5907 T-5908, T-59092 T-5910, T-5911
					T-5912, T-5913, T-5914, T-5915
	4	7133-153,8	Control Tower	100	T-5808, T-5817, T-5826, T-5835
	2	7133-153.9	Range Hdqtrs-Repair Shop	2304	T-5800, T-5801
 	2		Range Pump House	80	T-5851, T-5802
			1	· · · · · · · · · · · · · · · · · · ·	

It is cartified that the construction listed hereon is in accordance with maps,

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War Dup	ertment - 0.Ç.	E. Form No. 290 .		Page 46	Post Camp Butner, N C Date 26 May 1947
July 6	, 1942	· ,	TRANSF. New CONS	ER OF TRUCTION	Serisl Ro Job No
BUIL	DING & STRUCTU	RES		r (r,)	1 (3)
(1) Total No. Units	(2) Plan No.	Designation And Type	Total Design- ed orpacity	Total Sq. Ft. in Floor Arda	Building Humbers and Remerks
1	Range Sgt's H	ouse		2,718	<u>T=5875</u>
1	Ice House (Ne	ar Range Off)		60	T =5853
					· · · · · · · · · · · · · · · · · · ·
1	PE-	Lumber Supply She	<u>d</u>	1,200	T-5855
11		Magazine Office		1.504	T-5714
4	7133-153.9	Target Storage		4,608	T-5860, T-5870, T-5885, T-5896
11	7133,153,1	Storage Marget		10,736	T-5803, T-5804, T-5812, T-5813
					T-5821, T-5822, T-5830, T-5831
Y	······································		·····		T-5839, T-5842, T-5879
	· · · · · · · · · · · · · · · · · · ·		<u> </u>	- 	

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Post Camp Butner, N Date 26 May 1947 Serial No.

War	De	per	tment	-	0.C.E.	Form	No.	290
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# TRAESFER OF NEW CONSTRUCTION

	BUILDING & STRUCTU	RES			
(1) Totsl No. Uni	(2) Plan Ho.	(3) Dosignation and Type	(4) Fotal Design- ad copacity	Total Sq. Ft. in Floor Arda	(6) Building Dumbers and Remarks
1	B-AH-50	Car Storage		388	T-5900
1	CB-523	Car Storage		614	T-5901
1		Gate #5, Guard E	0136	123	T-5862
1	PE-176-172-A	Guard House		192	T-5721
2-2	7133-124	Gate House		80	T=5720, T=5924
<u> </u>	PE-176-213	Open Target Shed		1200	T-5857
1		Steel Tank	1000 gals	· · · · · · · · · · · · · · · · · · ·	T-5395
·				 	

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Post Camp Butner, N C Date 26 May 1947 Serial No. Job No.

BUILDING &	STRUCTURES	
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,	GUILDING & STRUCTURES			TRUCTION	Job No,		
(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- Od orpacity	(5) Total Sq. Ft. in Floor Area	(5) Building Numbers and Remarks		
<u>1</u>		Wash Rack 10-oar	······	3000	T=5348		
*1	701-140 S.M.	Encl. Swimming F	001	10,612	T=3436		
*2	Butner, 1/91	<u>N-Y-T</u>		86,516	T-3852, T-3532		
*1	Butner, 1/133	Finish Bath		1.362	T-2932		
*2	Butner 1/101	RB-E-T		50,008	T-2720, T-3310		
· · ·		*NOTE: ABOVE BU WORK TEH	ILDINGS PARTIALLY MINATED 29 August	COMPLETED. 1945			
				· · · · · · · · · · · · · · · · · · ·			

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Camp Butner,	Ŋ	
Date 26 May 1947		 _
Serial No.		
Job No.		

War Department - O.C.E. Form No. 290 July 6, 1942

TRAESFER OF NEW CONSTRUCTION

BUILDING & STRUCTURES

BUII	DING & STRUCT	URES		·	
(1) Total No. Units	(2) Plan No.	(3) Designation - and Type	(4) Total Design- od cepacity	(5) Total Sq. Ft. in Floor Arda	(3) Building Numbers and Remarks
	BAJ-1	Dam and Resor-		· · · · · · · · · · · · · · · · · ·	
$\gamma$	BAJ-2	voir (special)	an) 100		5750
	BAJ-51				The dam is a concrete structure 216.5' long at the crest with a 90'-spillway section 28'-above the stream bed, and 126'z' of bulkhead section 33' above the stream bed. A 24" steel pipe is inserted in the dam at stream bed level reduced to 12" with a 13" valve installed on the down-stream side for the purpose of draining the reservoir. At
				· · · · · · · · · · · · · · · · · · ·	form a reservoir of 6,309 acres which has been cleared and a strip approximately 30° wide and 600° long on the western shore has been cleared and grubbed to provide a beach for swimming.

It is cortified that the construction listed hereon is in accordence with maps, 

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# July 6, 1742

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Post Camp Butner, N Date 26 May 1947 Serial No. Job 1.0.

TRANSFER OF NEW CONSTRUCTION

BUII	LDING & STRUC	TURES			
(1) Total No. Units	(2) Plan No.	(3) Designation and Typs	(4) Total Design- ed or pacity	(5) Totel Sq. Ft. in Fluor Arga	(5) Building Rumbors and Romerks
1	800-210	A-10	<b></b>	5,500	<b>T=544</b> 8
l_	<b>9</b> 00 <b>-</b> 460	R B 4			<b>T=3148</b>
11	7133-375	Water Treatment	Plant		<b>F=570</b>
1	7133-375	Clear Water Well		15,129	T-571
24	7133-351	Sludger_Drying_B	eda	29,400	- <b>T-80</b>
1	7133-351	Sludge Digesters		· · · · · · · · · · · · · · · · · · ·	
1	7133-351	Sludge Digestérs			T =82

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BUII	DING & STRUCT	TURES	NEW CONS	TRUCTION	Job Nog
(1) Total No. Units	(2) Flan No.	(3) Designation and Type	(4) Total Design- ed oppacity	(5) Total Sq. Ft. in Floor Area	(6) Building Numbers and Remerk
1					····
5	7133-351	Final Settling Ta	nks (Sewabe		
	 -+	Treatment Plant	2		<u>F-83</u>
1	7133-351	Sludge Control Ho	use & Concen-		<b>F-84</b>
		tration tanks			
			يو 		
1	7138-351	Comminuter and Sa	nd Trap		F-86
			<u></u>		
5	7133-351	Primary Settling	Tenks		T=87
					•
5	7133-351	Aeration Tanks	`		r_89
			a na ang ang ang ang ang ang ang ang ang		
 1	7133-317	Sludge Return Hou	84	······································	T-00
	1			L	<b>T</b> ==00

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Post Camp Butner, N Dets 26 May 1947 Serial Ro Job No.

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BUILDING & STRUCTURES

(1) Total	(2) Plan No.	(3) (4) Dosignation Total Design-	(5) Total Sq. Ft. in	(6)
No. Units		and Type ed oppacity	Floor Area	Building humbors and Romerks
		Emergency Sleeping Qtrs.	1,320	<u>T-5409</u>
1	B-U-50	Dog Kennel (DK-AT)		T=5452
1	PE 176-49	Farmhouse	3,718	T=5060
1		Soil Erosion Office	402	Т
1		Garage	646	- T=855_18th & F Sts.
1	7133-393	Elevated Concrete Storage Tank	1,000,000 gal	T=765
1	7133-158	Bulk Filling Sta. (2 tanks)	12,000 gal.	T-4466

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BUILDING & STRUCTURES

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PostCamp Butner, N.C Deto Sériel No. Job No.

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(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ed cepacity	(5) Total Sq. Ft. in Floor Area	(6) Building Numbers and Remarks
1		Gas Chamber		2,500	T-1860
<u>1</u>	 	Training Fire Tow	er	18!x20!x40!	T=4360
1	• •	Asphalt House		600	T-5416
1	PE-176-216	Off's olub-non-di	vg trp.area	3,360	T-9001
1	· · · · · · · · · · · · · · · · · · ·	Tool House-Stocka	de	150*	T-3762
1		Guard House-Stock	ade	48*	T-3761
1	[ ]	Gas Station	·	1204	T-3969

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Camp Butner, M	
Date 26 May 1947	
Serial No.	
Job No.	

War Department - O.C.E. Form No. 290 July 6, 1942

TRANSFER OF NEW CONSTRUCTION

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BUILDING & STRUCTURES

(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ed capacity	(5) Totel Sq. Ft. in Floor Aras	(6) Building Numbers and Remerks
1	PE-176-129-Å	Storage House(0	l & Paint)	720	T-5408
1		Guard House		35	T-5407
1	PE-147-343	Paper Storage		4,000	T=5475
11	<u>PE-147-343</u>	Equip. Shed, PE	Utility Yd	4,000	T-5397
2		Shop-CCC Bldg		1,922	T-5380, T-5381
<u> </u>	<u> </u>	Shop-CCC Bldg		2,085	T-5382
1	······	Whse - CCC Bldg		3,025	T-5383

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Post Camp Butner, N.C. Date 26 May 1947 Serial Ro. Job No.

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(1) Totrl No. Units	(2) Flan No.	(3) Designation and Type	(4) Total Design- od capacity	(5) Total Sq. Ft. in Fluor Arga	(0) Building Eumbors and Romerks
·1		Salvage Whse	·	3,200	T-5386
1	PE 176-3	Bus Sta Open Typ	е_(Новр)	216	T-101
1	PE 345	Paint Storage		600	T-5410
1	<u></u>	011 Storage		1024	T=5412
1		Oil House		64	T-4062
1		Office-Area Eng	neer	6,556	T-5379
		Mosquito Contro	Bldg	434	T-5402
1	•			and the second	and a second

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Post Camp Butner, N C Date 26 May 1947

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(1) (2 Totel Pla No. Units	) (3) n No. Designation and Type	(4) Total Design- ed copacity	(5) Total Sq. Ft. in Floor Arga	(6) Building Eumbors and Remerks
<b>1</b>	Carpenter Shop	· · · · · · · · · · · · · · · · · · ·	600	T-635
1 1141	-1-39 OM Coal Office Const.		682	T=5200
1 PE	Oil House		64	T-5202
1 <u>PE 1</u>	76-98 Storage Shed		10,000	T-5418
1	78th Div. Arena	a Bldg	5,400	T-465
1	Guard House-Cat	te #3	123	T-5157
1	Roads & Walks		435	T-5403

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Date	26 May 1947
Serial Job No	. 10

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(1) Totsl No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ed capacity	Totel Sq. Ft. in Floor Area	Building Numbers and Remerks
1	·····	Tool House(Back	Post Hq Bldg)	140	<u>T-608</u>
1		Carpenter Shop	(26-E 1628)	257	
<u>1</u>		Carpenter Shop	(23-F)	576	T-1260
1		Storage House (	en.Qtrs)	288	T=105
1		Farm House (MP G	ate <u>#1)</u>	1,263	T-2302
1	Built by Tro	ops 011 Storage Ho	φ <u></u>	145	T-129
1		Heg. Commanders	Qtrs	402	<u>T-516</u>

It is contified that the construction listed hereon is in accordence with maps,

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Post Camp Butner, N C Date 26 May 1947

Ser	1 e I	1:0	
Job	No	<b>2</b>	

BUILDING & STRUCTURES

War Depertment - O.C.E. Form No. 290 July 6, 1942

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G-11

(1)	(2)	(3)	(4)	. (5)	(6)
Total No. Units	Plan No.	Designation and Type	Total Design- ad capacity	Totel Sq. Ft. in Fluor Aras	Building Numbers and Remarks
			• • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·
11	PE-176-191	Garage 3 car		594	T-100
2	PE-147-433	Storage House		128	T-609, T-620
<u>1</u>	800-905	Radio Trans. Bldg.	, RTB-1	216	T-90
1		Guard House - Sub	Station	123	T-3010
1		Col. Huntley's Res	sident	1400	T-102
<u> </u>	Butner 1/32 701-1905M	Swimming Pool- Std Type "C"		5000 ·	T=3226
<u> </u>	701-190SM	Filter Plant & Fu	np House	505	T-3227
L	•	·		1	_1

TRANSFER OF NEW CONSTRUCTION

It is cortified that the construction listed hereon is in accordance with maps,



War Department - 0.C.E. Form No. 290 July 6, 1942 Page 59

Post Camp Butner, N C Date 26 May 1947 Serial No

Job No.

TRANSFER OF NEW CONSTRUCTION

BUILDING & STRUCTURES

(1) Totol No. Units	(2) Plan No.	(3) Designation and Type	(4) Fotel Design- od oppacity	(5) Total Sq. Ft. in Floor Area	(5) Building humbers and Romerks
<u>1</u>	701-200	BathHouse - Std		1,733	T=3225
1		School Room		931	T-560
1		011 House		108	T=5201
1		Gen Parker's Hou	150	1,456	T-103
1		Old Magnum House	)	3,600	T=5876
1		Water & Sewer		377	T-5401
×1		Soil Erosion		341	T=5405

It is certified that the construction listed hereon is in accordence with maps,

Camp Butner, N C Dets 26 May 1947 Serial No.

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3		0 0 12	Domm	No	200
War Department	-	U.C.E.	rorm	NO	290
1.1.1.6 10/2					
July 0, 1/44					

# TRANSFER OF NEW CONSTRUCTION

BUIL	DING & STRUCTU	RES			
(1) Totsl No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- od copacity	(5) Total Sq. Ft. in Floor Arga	(6) Building Numbers and Remarks
		Cement Storage	· · · · · · · · · · · · · · · · · · ·	209	T-5406
l	· · · · · · · · · · · · · · · · · · ·	Motor Shop		1500	T=5385
1		Office		896	T-5384
1		Boiler House	1	120'	T-3433
l	800-1619	LSP 20,000 A		3808	T-5419
2	800-201	Boiler House		850	T-6445, T-5447
1	Built by Tro	ops Tool House		395	T-2060

It is certified that the construction listed hereon is in accordance with maps.

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War Department - 0.C.E. Form No. 290 July 6, 1942

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Post Camp Butner, N C Date 26 May 1947 Serial No.

# TRANSFER OF NEW CONSTRUCTION

BUI	LDING & STRUCT	URES (		· · · · · · · · · · · · · · · · · · ·	
(1) Total No. Units	(2) Plan No.	(3) Dosignation and Type	(4) Total Design- ed or pacity	(5) Total Sq. Ft. in Fluor Arua	(6) Building Bumbors and Romerks
1	· · · · · · · · · · · · · · · · · · ·	Dispatch House		100	T-4060
1		Guard House		50	T <del>.4</del> 061
1	CB-505	Sewage Lift Sta		315	T-8199
1		Tool House		214	T-607
1		Operation Bldg	•	264	T-131
1	· · · · · · · · · · · · · · · · · · ·	Typewriter repair	Γ	336	T-5414
1	7133-164.1	Sewage Ejector S	tation, "Jennings	n	Ejector Station in bank back of

It is contified that the construction listed hereon is in accordence with maps,

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War Dep July 6	pertment - 0.C. 7, 1942 DING & STRUCTU	E. Form No. 290 IRES	TRANSFE New CONST	Page 62 ER OF IRCUTION	Camp Butner, N Post Deto 26 May 1947 Serial No. Job No.
(1) Total No. Units	(2) Plan No.	(3) Designation and Typs	(4) Total Design- od oppacity	(5) Total Sq. Ft. in Floor Area	(6) Building Humbers and Remarks
	7133-154.2	Sewage Ejector	with Mash "Hytor"	, .	

Compressor, Sewage Pot Located in

in Target Butt Latrine

G.E., 50 GPM

Underground Concrete Vault, Compressor

Septic Tank, Dosing Tank, Sand Filter

Yeoman's Bros. Duplex "Shone" Ejector

underground in concrete chamber, 2 2 Sewage Pots 2 Compressors, 3 HP

It is cortified that the construction listed hereon is in eccordence with more.

(Compressor & Motor have been

In field near Target Butt

Given No. T-5370 as shown on map.

removed.)

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7133-154.1

7133-154.2

7133-101.18

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# War Department - O.C.E. Form No. 290 July 6, 1942

Page 64

TRANSFER OF

Post Camp Butner, N.C. Date 26 May 1947 Serial No.

(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ed cepacity	(5) Total Sq. Ft. in Floor Arga	(6) Building Numbers and Remark
<b>1</b>	800-1925	HAR-1		17,784	T-20
l	800-1986	ESXR-1		14,208	T27
1	800-1907	HC -1		16,932	T-28
1	800-1819	HPE-1		10,240	T=45
1	800-1802	HPRB-1		12,480	T-46
1	800-1810	HMDR-1		8,760	T-63
3	800-805	M248		9,750	T-1, T-10, T-11

It is cortified that the construction listed hereon is in eccordered with more

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War	Depertment - 0.C	.E. Form No. 290		Page 65	PostCamp Buther, A C Date 26 May 1947
Jul	y 6, 1942		TRANSF NEW CONS	ER OF TRUCTION	Serial No
(1) Total No. Unit	UILDING & STRUCT (2) Plan No.	(3) Designation and Type	(4) Total Design- ed capacity	(5) Total Sq. Ft. in Floor Arua	(6) Building Numbors and Remerks
		•	<b>A.</b>		
	9 800-517	HNQ-14		71,028	<u>T-3, T-4, T-5, T-6, T-7, T-8,</u> <u>T-14, T-15</u>
· · · · · · · · · · · · · · · · · · ·	3 800-451	ORBL-5		6,750	T-2, T-9, T-12
		Can Cleaning Stat	tion	1,260	T-21.5, T-23.5, T-60.5
	1 800-1846	ноом-63		20,500	<u> </u>
	1 800-2046	HNM-220		9,800	T-23
	-				
	1 800-2059	HPM-600		45,588	T-51
ſ	······	10000		22.780	T=60

It is cortified that the construction listed hereon is in accordance with maps,

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TRANSFER OF NEW CONSTRUCTION

Post Camp Butner, N G.	
Date 26 May 1947	· · · · · · · · · · · · · · · · · · ·
Serial Ro	
Job No.	

BUIT	JDING & STRUCT	UKES	-	· · · · · · · · · · · · · · · · · · ·	۱ 
(1) Total' No. Units	(2) Plan No.	(3) Designation and Typa	(4) Total Design- od capacity	(5) Total Sq. Ft. in Floor Arga	(0) Building Numbers and Remerks
<u> </u>	800-1828	HO <b>Q-31</b>		8,394	T-22
1	800-1834	HNQ		14,496	T-24
<u> </u>	800-1828	HNQ-63		15,632	T-25
1	800-1845	HNQ-74		21,404	T-26
1	800-1876	HG-8		2,050	
1	800-2215	HSP-8		4,410	<b>T=66</b>
<u> </u>	800-1883	HMO-1		2,100	T=67

It is cortified that the construction listed hereon is in accordance with maps,

War Depertment - 0.0	.E. Form No. 290

Pag	e 6	64

PostCamp Butner, N C Date 26 May 1947

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	BUIL	DING & STRUCTU	RES	TRANSFI NEW CONS <b>BOSPIT</b>	ER OF TRUCTION AL AREA	Serial No Job No
	(1) Total No. Units	(2) Plan No.	(3) Designation and Type	(L) Total Design- od capacity	(5) Total Sq. Ft. in Floor Area	(6) Building Numbers and Remerks
		800-2006	EPS-1	····	570	<b>T-70</b>
	<u> </u>	800-1879	HSH <b>-1</b>		3,480	T=68
	1	800-1887	HST-1		26,622	T-55
	2	800-1898	HST-2	· · · · · · · · · · · · · · · · · · ·	53,244	.T-58, T-61
	5	800-1917	HMDB-133	· · · · · ·	83,840	<u>T-52, T-57, T-59, T-62, T-64</u>
į	1	800-2008	HU <b>S-1</b>		2,364	T-69
$\smile$	<u>1</u>	800-1918,800	1919 HC-AUX		16,768	T-56

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	War Depertment - O.C.E. Form No. 290. July 6, 1942			TRANSFER OF		Post Camp Butner, N C Dats 26 May 1947 Serial No.	
	BUI	LDING & STRUCTU	RES	HOSPI	CAL AREA		
• - <b></b> •	(1) Total No. Units	(2) Plan No.	(3) - Designation and Type	(4) Total Design- od oppacity	Total Sq. Ft. in Floor Area	(5) Building Numbers and Remerks	
~	<u>}</u>	800-1934	HSW-98		17,440	<b>1-40</b>	
	1	800-1934	HSW-98		17,704	T-32	
   -	5	800 <b>-1934</b>	H3W-98		83,840	T-31, T-33, T-44, T-47, T-48	
		800-1764	Walks Co vered		7,718,329	······································	
	14	800-1759-1770	Ramps, exit	······	910 ,1.f.		
	2	7133-125	Ramps, side load	ing	252' 1.f.	(Ordnance)	
T	·	7133-125	Ramp, and loading		41° 2° 1.f.	(Ordnance)	

It is cortified that the construction listed hereon is in accordance with maps.

July 6 BUIL	, 1942 DING & STRUCTU	īres	TRANSF NEW CONS HOSPITA	ER OF TRUCTION AL AREA	Dats <b>40 MAY 1947</b> Serial No
(1) Totol No. Units	(2) Plan No.	(3) Designation and Typa	(4) Total Design- ad orpacity	(5) Total Sq. Ft. in Floor Area	(6) Building Numbers and Remarks
<u>} 1</u>	BQ-50	Timber Ramp	·	240 sq ft	(Located at Ordnance Warehouse)
1	BQ50	Concrete Ramp	(Runways)	1040 sq fb	(Located at Ordnance Warehouse
· · · · · · · · · · · · · · · · · · ·					
1	7133-125	Platform, Side	Loading	100 1.f.	· · · · · · · · · · · · · · · · · · ·
1		Flag Pole	1	75 1.f.	(Post Headquarters)
5	<u>TO 700-341</u>	Guard Tower	· · · · · · · · · · · · · · · · · · ·	2000 sq ft	<u>T-8039, T-8054, T-8155, T-830</u>
				1 	T=8355
					···
<u></u>		· · · · · · · · · · · · · · · · · · ·		a) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	······································

It is cortified that the construction listed hereon is in accordance with maps,  $\sim$ 

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War Depertment - O.C.E. Form No. 290 July 6, 1942

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Page 70

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Camp Butner, N C Post Date . 26 May 1947

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(1)	(2)	(3)	(4) Total Design	(5) Total Sa. Ft. in	(6)
Total No. Units	Plan No.	and Type	ad capacity	Fluor Area	Building Numbers and Remerks
×					
	800=1000	Fire Alarm Syst	em Automatic Fire	Detector Master Sta	tions - 8 -
	800-1091		Automatic Sprin	kler Master Station	<b>6</b>
	800-1093	_	Menual Stations	- 48	· · · · · · · · · · · · · · · · · · ·
	800-1094		Punch Registers	- 3	[
	800-1099		Control & Charg	ing Board w/test fa	cilities -1
	800-1288		·	• • •	
	800-1285		Battery Reok w	24"Gould" storage b	atteriesl
1	B-X-400	Automatic Fire	Manual Station	Installed in B	uilding (In Hospital Area) Nos;
-		Alarm System	2		<u> </u>
		(Special)	2		40
······································		-			47
<u>}1</u>	B-X-400	Automatic Fire			
		Alarm System	(continued or	nert nage)	

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July 6 BUIL	) 1942 DING & STRUCT	URES	TRANSF NEW CONS HOSPIT	ER OF TRUCTION AL AREA	Dato <u>26 May 1947</u> Serial No
(1) Totel No. Units	(2) Plan No.	(3) Designation and Type	(4) Total Design- ad capacity	(5) Totel Sq. Ft. in Floor Area	(6) Building Numbers and Remark
	,		Automatio	Manual Stations	i I Installed in Hospital Area
	··· · ··· · · · · · · · · · · · · · ·		Transmitters		Building No. :
				2	29
····· · ····· · ····· · ····· · ···· · ·			1	11	61
		· · · · · · · · · · · · · · · · · · ·			
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	}		1	2	76
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#### TRANSPER OF NEW CONSTRUCTION

Page 71

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HOSPITAL AREA

Camp Butner 26 May 1947 Dete .___ Serial No.___ Job Nc.

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JILITY SYSTEMS				
(1)	(2)		(3)	(4)
	BASE DK	<u>1'A</u>		
FEATURE	UNIT	QUANFIFY	LRAMING NO.	TYFL CR REMARKS
WATER SYSTEM				
Water Mains	Lin. Ft.			
Water Service Lines	Lin. Ft.	! 		
Noter Fumping Stations	1000 gals./day		1	
Vater Filtration Flant	1000 gels./day			
Automatic Sprinkler System	Sprinkler Heads	4,761	800-1090, 800-1091	There are 17 buildings covered
DEADH SYSTEM		 	800-1093, 800-1094	by the Sprinkler System and the
Sanitary Sewer Mains	Lin. Et.		800-1099, 800-1285	covered walks from buildings
Sanitary House Laterals	Lin. Ft.	 	800-1288	<u>52 &amp; 55 to Buildings 20-27-28</u>
Storm Sever Lines	Lin. Ft.			
Sewage Fumping Stavions	<u>1000 sels./day</u>			
Seware Treetment Flant	1000 rals./day			
ETERTO SYSPEN		Equipment		
Canonating Plant	WVA Carocity	6 Post Indi	cator Valves	
Overhend Distr. Lines	Lin. Ft.	6 Flow Alar	ns	
Overhead Services	10.	12 Dry Pipe	Valves	
Underground Distr. Lines	Lin. Ft.	9 Air Compr	PASOTA	
Underground Services	No.			
Ext. Lighting System	lio. Lirkts			
Distr. Line Transformers	KVA			
jub-station	No. Fooders	ļ		
Transmission Lines	Lin. Et.	<b></b>	İ	
GAS DISTRIBUTION	Lin. Et.	<u> </u>	<u> </u>	

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the Fost Engineer with the deficiencies listed on the back of this sheet.

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## TRANSFER OF MEN CONSTRUCTION Page 72

Post <u>Camp Butner</u> Dets <u>26 May 1947</u>

# HOSPITAL AREA

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Serial No. Job Nc.

UTILITY SYSTEMS			pantinense anten sete energiere provinsi alemanente della della sola della della della della della della della	
(1)	(2)	1	(3)	(4)
	<u> 07 07 07 07 07 07 07 07 07 07 07 07 07 </u>	<u> </u>		
FEATURE	UNIT	QUANFIFY	DAANING NO.	TYPL OR REARKS
AATER SYSTER				
hoter Lains	Lin. Ft.	· · · · · · · · · · · · · · · · · · ·		
hater Service Lines	Lin. Ft.	 		
Gater Fumping Stations	1000 gals./day			
N ster Filtration Flont	1000 gels./day			
Autometic Sprinkler System	Sprinkler Head	s 396 - 212°	800-1090, 1091, 1093,	Automatic Sprinkler System Installed in
		1100 - 165 ⁰	1094, 1099, 1285,	Additional Hospital Buildings for New
Seritary Sewer Mains	Lin. Ht.		1288	Troop Capacity, Bldgs, Nos. 29, 71,
Samilary House Laterals	Lin. Ft.			73, 74, 75, & 76.
Storm Sewer Lings	Lin. Ft.			Covered Walkway from Bldg. 29 to 30
Sewage Fumping Stavions	1000 rals./day	ļ		<u> </u>
Sewage Treatment Plant	1000 ruls./day			<u> </u>
		Equipment		<u> </u>
FLECTRIC SYSTEM		2 Post India	ator Valves	<u>11 11 11 11 49 = 71</u>
Generating Flant	KVA Copreity	2 Flow Alari	ha	<u> </u>
Overheed Distr. Lines	Lin. Ft.	5 Dry Pipe	alves	
Overhead Services		4 Air Compre	essors	
Underground Distr. Lines	Lin. Ft.	206_L.E	L. CI Fipe underground	from main to flow alarm valve in
Underground Services	No.		Bldg. No. 73.	
Ext. Lighting System	No. Lipts	166 L.F	I Pipe underground fro	om main to flow alarm valve in
Mistr. Ling Trensformers	KVA		Bldg. No. 75	· · · · · · · · · · · · · · · · · · ·
Ab-stetion	No. Feeders	175 L.F.	5" Gelvenized pipe from	n walkway between Buildings Hos
Transmission Lines	Lin. Ft.		7 and 48 to Walkway b	tween Buildings 49 & 71
GAS DISTRIBUTION	Lin. Fi.	<u> </u>		) 

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It is certified that the construction listed hereon is is a accordance with maps, plans and specifications



#### TRANSFER OF NEW CONSTRUCTION

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Page 73

Post Camp Butner, N. Date 26 May 1947 Serial No. Job Nc.

UTILITY SYSTEMS		<u> </u>		
(1)	(2)		(3)	(4)
	DFSE DA	A		
FEATURE	UNIT	QUANTITY	DRAWING NO.	TYPL OR REMARKS
MATER SYSTEM				
Noter Mains	Lin. Ft.			
Later Service Lincs	Lin. Ft.			
Hater Fumping Stations	1000 gals./day			
Ator Filtration Plont	1000 gels./day			
SERER SYSTER				
Sanitary Sewer Mains	Lin. Ht.			
Sanitary House Laterals	Lin. Ft.	 		
Storm Sewer Lings	Lin. Ft.			
Sewage Fumping Stations	1000 rals./day	ļ		
Seware Treatment Plant	1000 gals./doy	-		
ELLCTRIC SYSTEM				
Generation Plant	KVA Coracity			
Overheed Distr. Lines	Lin. Ft.			
Overhead Servicesc.P. Pole	NO.	956	· · · · · · · · · · · · · · · · · · ·	Polos, Lines, Cross Arms and
ADDREAM AND A STORY AND A STOR	XXXXXXX			
<u> </u>	ba. Lbs.	14,970		Terminal Boxes between Kaw Water
Ext. Lighting System	No. Lights	·		Plant at Lake Michie, N.C. and
Distr. Line Transformers	KVA			Water Filtration Plant, Ranges,
Livertation Terminal Box	MaxxExcelent No	15		Target Ranges and Known Distance
Tronsmission dinas Wire	Lin. Et.	599,515		Ranges.
Tross Arms, 10 Pins Comp.		270		
GAS DISTRIBUTION	Lin. Ht.	1 1		

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the rost Engineer with the deficiencies listed on the back of this sheet.



#### TRANSFER OF NEW CONSTRUCTION

Page 74

FILITY SYSTEMS				
(1)	(2) BASE DATA		(3)	(4)
FEATURE	UNIT	QUANTITY	DRAWING NO.	TYFL OR REMARKS
GATER SYSTEM				
Water Mains	Lin. Ft.	218,997		
Later Service Lines	Lin. Ft.	166,415.5		
Water Fumping Stations	1000 gals./day	5,400		(Govt. installed in City of Durham)
Vater Filtration Flont	1000 gels./day	3,750		(Fumping Station at Lake Michie)
Hydrants, Fire	4=2m2=2x2=2	310		National Standard Thread
SEWER SYSTEM				
Senitary Sewer Mains	Lin. Ft.	214,967		
Sanitary House Laterals	Lin. Ft.	95,276		
Storm Sewer Lines	Lin. Ft.	7,447		
Sewage Fumping Stations	1000 gals./day	2 304		
Sewage Treatment Plant	1000 gels./dey	3.000		
Manholes	Number	58		
ELECTRIC SYSTEM				
Generating Plant	KVA Capacity_	0		
Overheed Distr. Lines	Lin. Ft.	653,938		
Overhead Services	No.	1,923		
Underground Distr. Lines	Lin. Ft.	420		
Underground Services	No.	15		
Ext. Lighting System	No. Lights	761		
Distr. Line Transformers	KVA	9,449		See 437 Card for breakdown
Ab-station	No. Feeders	6		
Transmission Lings	Lin. Ft.	0		
		-		
GAS DISTRIBUTION	Lin. Ft.	0		

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the fost Enfineer with the deficiencies listed on the back of this sneet.


## TRANSFER OF NEW CONSTRUCTION

Page 75 De

Fost <u>Camp Butner</u>, N. Date <u>26 May 1947</u> Serial No. Job No.

JULITY SYSTEMS					
(1)	(2) BASL DA	ſA	(3)	(	4)
FEATURE	UNIT	QUANTITY	DRAWING NO.	TYPE OR	REMARKS
AATER SYSTEM					
Weter Wains	Lin. Ft.				
Water Service Lines	Lin. Ft.	4221.5	Butner 1/62 to 1/68 C.	I. B&S. 4"x6", Un	derground Service
Mater Fumping Stations	1000 gals./day				
Ater Filtration Flant	1000 gels./day				
Sprinkler System	Heads	10,319		39 Systems - 39	dry pipe valves
SEWER SYSTEM			BLDG. NO.		
Sanitary Sewer Mains	Lin. Ft.		T-2621, 2622, 2629, 20	30, 2649, 2650	PLAN NO. NO. HEADS
Sanitary House Laterals	Lin. Ft.		T-2729, T-2730, T-274	2742,2740,2749	Butner 1/18
Storm Sewer Lines	Lin. Ft.		2750,2751,2820, 282	. 2822. 2752	Butner 1/18 95 Each
Sewage Fumping Stations	1000 gals./day		2829, 2830, 2831, 28	2. *2840. *2841	Butner 1/18 Except the
Seware Treatment Plant	1000 gals./day		2842, 2920, 2922, 292	2929 2930	Butner 1/18 marked *
		Į	8040, 3041, 3042, 3129	3140 8141	Butner 1/18 which have
ELECTRIC SYSTEM			3142, 3320, 3322, 3329	3330 3321	Butner 1/18
Generating Flant	KVA Caracity		3331, 3332, *3340, *334	*3342, 3350	Butner 1/18
<u>Overheed Distr. Lines</u>	Lin. Ft.		<u>+3351,+3352,+3420,+342</u> ;	3422, 3430	Butner 1/18
Overhead Services	10.		3431, 3432, *3440, *344	*3442, 3449	Butner, 1/18
<u>Underground Distr. Lines</u>	Lin. Ft.	<u> </u>	<u>*3450,*3451, 3520, 352</u>	3522, 3529	Butner 1/18
Underground Services	No.		3530, 3741, 3742, 374	49, #3821, #3822	Butner 1/18
Ext. Lighting System	No. Lights	<u> </u>	3841, 3842, +4023, 404	4041, 4043	Butner 1/18
Distr. Line Transformers	KVA		4120, 4121, 4123, 414	4141, 4143	Butner 1/18
<u>Jub-station</u>	No. Feeders	l	4220, 4221, 4222		Butner 1/18
Transmission Lines	Lin. Et.		T-2819, *2901, 3200, 3	917, 3918, 3919	Butner 1/19-12408 erc
			T-2925, 3525		Butner 1/27 41 each
GAS DISTRIBUTION	Lin. Ft.		T-3346	1	Butner 1/74 51 mach

ITION Lin. Ft. T-52, 57, 59, 62, 64 Butner 1/9,1/10, 224 ea plus 38 additional It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the Fost Engineer with the deficiencies listed on the back of this sneet. heads in walkway

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### TRANSFER OF NEW CONSTRUCTION Page 75A

• . .

FostCamp Butner, N.C. Dete 26 May 1947

Serial No._____ Job No.

UTILITY SYSTEMS							
(1)	2) BESE DATA		(3)	(4)			
FEATURE	UNIT	QUANTIFY	DRAWING NO.	TYFL	OR REMARKS		
RATER SYSTEM							
Noter Unins	Lin. Ft.	· · · · · · · · · · · · · · · · · · ·					
Later Service Lines	Lin. Ft.	1142	Butner 1/62 to 1/68 (	I., B&S, 4"&	6", underground	service	
mater Fumping Stations	1000 gals./day				<u></u>		
Ater Filtration Flant	1000 gels./dav				······································		
Sprinkler System	Heads	2147		12 Systems	- 12 dry pipe V	alves.	
CENER SYSTEM				Bldg. No.	Plan No.	Ho. Heads	
Senitary Sewer Mains	Lin. Ft.			T-2642	Butner 1/18	90	
Sanitary House Laterals	Lig. Pt.			T-3849	Butner 1/18	90	
Storm Sewer Lines	Lin. Ft.			T-2403	Butner 1/29	146	
Sewage Fumping Stations	<u>1000 £als./day</u>			T-3001	Butner 1/29	146	
Seware Treatment Flont	1000 rels./day	ļ		T-3718	Butner 1/29	146	
				T-3301	Butner 1/29	146	
ELECTRIC SYSPEM				T-4200	Butner 1/29	146	
Generating Plant	KVA Caracity			T-2700	Butner 1/41	212	
<u>Cverheed Distr. Lines</u>	Lin. Ft.			T-2719	Butner 1/72	294	
Overhead Services				T-3002	Butner 1/46	310	
<u>Underground Distr. Lines</u>	Lin. Ft.			T-3003	Butner 1/31	99	
Underground Services	No.	 		T-3119	Butner 1/31	99	
Ext. Lighting System	No. Lights	l		T-3318	Butner 1/31	99	
<u> Distr. Line Transformers</u>	KVA			T-2500	Butner 1/31	99	
ub-station	No. Feeders			T-3204	Butner 1/51	25	
Transmission Linas	Lin. Ft.						
GAS DISTRIBUTION	Lin. Ft.						

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the Fost Engineer with the deficiencies listed on the back of this sneet.

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#### . TRANSFER OF NEW CONSTRUCTION

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rost Camp Butner, N Dete26 May 1947 Serial No. Job ho.

(1)	(2)		(3)	(4)		
	BISE DA	<u>AT</u>				
FEATURE	UNIT	QUANTIRY	DRAWING NO.	TYFL OR REBARKS		
ATER SYSTER						
Later Linins	Lin. Ft.	! 				
hater Dervice Lines	Lin. Ft.	232	Butner $1/1$ and $1/2$	8" C.I., B&S, underground services		
mater Lumping Stations	1000 gals./day					
Nater Filtration Flent	1000 gels./day					
Sprinkler System	Heads	934	Butner 1/1 and 1/2	4 systems 4 dry pipe valves		
LEMER SYDTEM		( 		Bldg. T-5416		
<u>Conitary Sower Mains</u>	Lin. Ht.					
Sanitary House Laterals	Lin. Ft.	 <b> </b>				
<u>- Otorm Gever Lings</u>	Lin. Ft.					
LUWREE FUMPINE Stanions	1000 <u>Fais-/day</u>	+				
Leware frontment riant	1.000 FB). S • / dr. y			······		
LECTRIC SYSTEM						
Generation Flant	KV4 Capacity					
Overhead Distr. Lines	Lin. Ft.	 <del> </del>				
Overhead Services	40.					
<u>Underground Distr. Lines</u>	Lin. Ft.	ļ				
Underground Services	110					
<u>Lxt. Lighting System</u>	1.0. Lipl.ts					
<u>Listr. Lire Transformers</u>						
	110. 1960ers		+			
<u>- Ireascissiosion Lines</u>		<u> </u>	+			
C. DISTRIATET.M	Lin Et.					

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the rost Engineer with the deficiencies listed on the back of this spect.



## TRANSFER OF Page 77 NEW CONSTRUCTION

Fost Camp Butner, N

Dete 26 Mary 1947

Serial No._____ Job No.'

(1)	(2) BESL DATA		(3)	(4)		
FFATURE	UNIT	QUANTITY	DRAWING NO.	TYPL OR REMARKS		
ATER AYSTEM						
Unter Dains	Lin. Ft.	! 				
Later Jervice Lines	Lin. Pt.					
acter lumping Stations	1000 gals./day	ĺ				
Mater Filtration Flont	1000 gels./day					
Sprinkler System Dry Type	Heads	183	Butner 1/47, 1/48	T-3519 - Service Club.		
LARK SYSTEM				Number of heads indicated is that		
Senitary Sewer Mains	<u>; Lin. Et</u>			portion of sprinkler work completed		
Sunitary House Laterals	Lin. Ft.			at time of contract termination		
Storn Sewer Lines	Lin. Ft.					
<u>Sewage Fumping Stations</u>	<u>  1000 [als./day</u>					
Seware Trestment Flant	1000 rols./dry					
LECTRIC SYSTEM						
Generating Plant	KV4 Capacity					
Overhand Distr. Lines	Lin. Ft.					
Overhead Services	110 .	} {				
<u>Underground Distr. Lines</u>	Lin. Ft.					
Underground Cervices	<u>  No.</u>	······································				
Lxt. Lighting System	110. Lights					
Listr. Lire Transformens	- KVA	<u></u>				
<u>ac-station</u>	No. Focders					
<u>Mransmission Lings</u>	<u> </u>					
A.1. D.F.(	Lin. Ft.	<b> </b>				

It is certified that the construction listed hereon is in accordance with maps, plans and specifications delivered to the lost Engineer with the deficiencies listed on the back of this sneet.

1005 UNIT	TED STATE E ANERICA		Tim To con intrours
	ASSETS A INISTRATIO	⊾	GET BUREAU NO. 16ROCS.3
	OF STE UIS REAL	PROPERTY	2. 3 17 DEC 1947
DECLARATION	UI JURILUJ REAL	10. REPORTING AGENCY NUMBER	
TO THE WAR ASSETS A	ADMINISTRATOR, WA	SHINGIUR 25,0.0.)	WD-1070-E
F INSTRUCTIONS ON	INPORTANT REVERSE FOR COMPL	ETING THIS FORM	II. WAA NUMBER
REPORTING AGENCY	• 1 <del></del>		12. DISPOSAL AGENCY NUMBER
Corps of Engineer	re, Mehington 25	. D. C.	13. REPRESENTATIVES TO CONTACT
PROPERTY IDENTIFI	CATION		306 Ga; State Bank Bldg;
Camp Butmer, No	C.		Savannah; Georgia
AREA 31.82 6000	fee land		IN LOCATION OF TITLE PAPERS
USE OF PROPERTY P	RIOR TO ACCUISITI	0 N	I THE LUCATION OF TITLE PAPERS
OPINION OF BEST F	UTURE USE		15. COST OF PROPERTY
	• . • .		ACQUISITION \$ 2596,00
DATE OF ACOUSSITE	0 H	SUBSECUENT TO	BETTERMENTS \$ 409,195,98
PRIOR TO -1/1/40	· HIXED	12131737	16. PROCEEDS
FORMER OWNER	D of them		
	B. Castric		1 . J.
purpose of eors	05. ^a Sumlanat ^a .	ge moted at Block MD-1070-E. Block	3, which was erroneously listed
purpose of sorr on WAA Form 100 in order to ref referred to abo	05, "Supplement", flest the cost of	ge moted at Block MD-1070-E. Block Acquisition repor	3, which was erromeously listed 15 above has also been corrected ted on WAA Form 1005, ND-1070-E
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purpose of sorn on WAA Form 100 in order to rei referred to abo Perimeter desor North Carolina unit map in ord	of, "Supplement", fleet the cost of ove, ription of the ar- Mational Guard w ier to conform wi	ge moted at Block MD-1070-E. Block Acquisition repor as made from the M th the property li	3, which was erromeously listed 15 above has also been corrected ted on WAA Form 1005, ND-1070-E ntinued military use by the ar Assets Administration disposal mps and Disposal Units Nos.
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purpose of eorr on WAA Form 100 in order to rei referred to abo Perimeter desor North Carolina unit map in ord 15, 16, 17, and See Schodules a Block & Block & Block & Block & Block & Slock &	05, "Supplement", flest the cost of ove, ription of the ar National Guard w der to conform wi d 18. attached: B - Schedule A, P B - Schedule B, R B - Schedule B, R B - Schedule C, L B - Schedule C, L B - Schedule D, T DO NOT FILL IN ASSIGNED TO SIGNATURE	ge moted at Block MD-1070-E. Block Acquisition repor as made from the M th the property 11 crimeter Descripti cal Estate Map (See Blo itle status of tra	3. which was erromeously listed 15 above has also been corrected ted on WAA Form 1005, HD-1070-E ntinued military use by the ar Assets Administration disposal mes and Dispesal Units Hos. UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

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The facilities listed above are indicated in area outlined in red on the attached copy of layout map at Block 2 Schedule B.

Accordingly, it is requested that in the disposal of this installation, arrangements be made for the continued use and occupancy of the above described facility by the War Department under the provisions of a long term lease or other appropriate instrument, on terms to be in the best interest of the Government.

It is also requested that the War Department, Division Engineer, South Atlantic Division, 50 Whitehall Street, Atlanta 2, Georgia, be notified sufficiently in advance of negotiations for disposal of the installation to permit a representative of that office to be present for the purpose of answerting in obtaining the necessary interest to fulfill the requirements of the War Department. If the rights requested herein cannot be obtained on reasonable terms, it is the desire of the War Department that this form be considered a request for the withdrawal from surplus of these facilities.

See Schedules attached:

Block	8	Schodule	Å	•	No Ferimeter Description available.
14	Ħ	Ħ	В	-	Real Estate Map (See Block 2 Schedule 4)
H	r <b>t</b>	त	C	-	Layout Map (See Block 2 Schedule B)
Ħ	Ħ	14	Ð	-	Title status of tracts affected.

Slock 15 above shows cost of property requested for continued military use.

2



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Estimated cost of buildings and facilities requested for costinued Military use by the North Carolina National Guard. .

Building No.	Facility
I-5371 I-5372 I-5373 I-5374 I-5375 I-5376 I-5377 Kone None	Supply Center Supply Center Pool, Shop and Storage Feel, Shop and Storage Fool, Shop and Storage Fool, Shop and Storage Gasoline Fump in Post Engineer Utility Yard Grease Rack to be removed from present location.

4

TOTAL COST: \$409,195.98

The facilities listed above are located in the area outlined in RED on the attached copy of Layout Map at Block 2, Schedule B).

Camp Batmer, N. C.

#### DLOCK B - SCHEDULE D COST OF ACQUISITION

Tract	Former Owner	Aoreage	Date	Cost	(P) (D)	Purchase Declaration of Taki
A190	Banuel P. Forsythe, et al Greedmoor, E. C.	49.00 53.79 Surp) 16.21 Not	5/25/42 ius jurplus	6,876.00 5,019.00 1,357.00	D <b>¤1</b> A	
<b>A20</b> G	Mrs. D. L. Boone, et al Darham, H. C.	140.00 124.79 Surpl 15.21 Not 8	6/12/42 lus lurplus	4,548.00 <u>-3.877.00</u> 671.00	D <b>}2</b> ▲	
A54 ^G	J. R. Royoroft, heirs & Jeff Coley Durham, N. C.	28.50 24.10 Surpl 4.40 Not 1	11/25/41 ive iurglus	441.00 <u>378.00</u> 69.00	D <b>#15</b> ▲	
		34.52		2,598.00		

#### TITLE STATUE OF AREA REQUIRED FOR COSTINUED MILITARY

Abstracts of Title furnished by Mash, Anstin, Horman, Wright, Foust and Parsons, Attorneys, Security Bank Building, Migh Point, N. C.

Declarations of Taking filed on date shown as follows!

United States of America, Petitioner in U. S. District Court, Eastern District of North Carelina, vs. 9,275.44 acres more or less, in Granville County, N. C., and Seorge Cellins, Mattie Thomas Auchanan, et al, Defendents.

Estates acquired by declaration of taking are subject to existing easements for public reads, highways, railroads, public utilities and pipe lines.

BLOCK & _ SCREDULE D

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2



#### BLOCK 8 - SCHEDULE A PERIMETER DESCRIPTION

#### AREA REQUIRED FOR CONTINUED MILITARY USE BY THE NORTH CAROLINA NATIONAL GUARD:

A parcel of land located at Camp Butner, Granville County, North Carolina, comprising Bisposal Units 15, 16, 17, and 18, of the War Assets Administration Disposal Unit Map of the Camp Butner property; being bounded on the Southeast by the right-of-way of the Southern Railroad; on the Northeast by Lot 13 of said subdivision; on the Northwest by "B" Street; and on the Southeast by Lots 21 and 22 of said subdivision, and being more particularly described as follows:

Beginning at the intersection of the west right-of-way of the Southern Pailroad with the center line of Central Avenue; thence with the Railroad right of way:

South 51 D - 40'40" N, 155.55 feet, North 65 D - 20'40" N, 56.11 feet, South 51 D - 40'40" N, 580.37 feet, South 38 D - 19'0" E, 60.00 feet,

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South 51 D - 40'40" W, 446.73 feet; thence leaving the Railroad right of way. North 37 D -59'20" W, 381.11 feet; thence S. 51 D - 41'40" W, 236.75 feet; thence N 37D-11*20" W, 349.42 feet; thence N. 39D-25'20" West, 429.30 feet to a point in the center line of "B" Street; thence with the center line of "B" Street, N. 51 D-41'40" E, 1397.30 feet to the intersection of the center line of "B" Street with the center line of Central Avenue; thence with the center line of Central Avenue S. 38 D, 18'05" B, 778.50 feet, and S. 38D-25'00" E, 371.24 feet to the point of beginning. Containing 34.82 acres, more or less.

WAA FORM-LOOS UNITED ATE AMERICA (5-29-46) WAR ASSETS ADMINISTRATION	FCRN APPROVED B. GET BUREAU NO. 16RCC5.3
DECLARATION OF SURPLUS REAL PROPERTY	9. DATE 31 May 1949
DECEMBETOR OF SOME DET TO MASHINGTON 25 D ( )	10. PEPORTING AGENCY NUMBER
(TO THE K IP ASSETS ADMINISTRATOR, WASHINGTON 25,0.0.)	WD-1070-K
INPORTANT	II. WAA NUMBER
SEE INSTRUCTIONS ON REVERSE FOR COMPLETING THIS FORM	
- REPORTING AGENCY Department of the Army,	12. CISPOSAL AGENCY NUMBER
Headquarters, Srd Army, Ft. Mornon, Ga.	13. REPRESENTATIVES TO CONTACT
2. PROPERTY IDENTIFICATION	
See Schedules A & B	
. AREA 35,352.59 acres for-ouned land surplus (revised	d)
. USE OF PROPERTY PRIOR TO ACCUISITION	I IV. LOCATION OF TITLE PAPERS
	4
. OFINION OF BEST FUTURE USE	15. COST OF PROPERTY (Reviewd
	ACQUISITION & 1,091,651.00
5. DATE OF ACQUISITION SUBSECUENT TO	BETTERNENTS \$ 40, 570, 503.44
PRIOR TO 1/1/40 MIXED 2000	I6. PROCEEDS
	1 to the fill a
This Correction to WAA Form 1005, Report 29 April 1948, is for the purpose of adjusting	the eastern, southern, and a
This Correction to WAA Form 1005, Report 29 April 1948, is for the purpose of adjusting portion of the western boundary lines, of lands North Carolina Mational Guard, to conform with boundarize. This Correction is also made to de 177 acres, together with two (2) buildings situ lie between West Range Road, and the Old County Reservation, and 14 outside the Rifle Pange are The only acreage definitely being declar 177 acres noted above. These lands were never Carolina National Guards however, an oversight two (2) buildings in the original withdrawal for This land was formerly owned by Mr. San T. Mang	ring Agency No. Milloro-I, dated the eastern, southern, and a s now under License to the existing individual tract solars as surplus approximately mated thereous subject 177 acres y Road of the Camp Butner Military Read red as surplus in this report is the desired or required by the North included the subject lands and or the Mational Guard property. Two, et al. Furhan, North Carolina,
This Correction to WAA Form 1005, Report 29 April 1948, is for the purpose of adjusting portion of the western boundary lines, of lands North Carolina National Guard, to conform with boundarize. This Correction is also made to de 177 acres, together with two (2) buildings situ lie between West Range Road, and the Old County Reservation, and is outside the Rifle Pange are The only acreage definitely being declar 177 acres noted above. These lands were never Carolina National Guards however, an oversight two (2) buildings in the original withdrawal for This land was formerly owned by Mr. Sam T. Many who is very anxious to repurchase same from the (Continued on attached shee	ting Agency No. MD-1070-I, dated the eastern, southern, and a snow under License to the existing individual tract plare as surplus approximately mated thereous subject 177 acres y Road of the Camp Butner Military Me red as surplus in this report is the desired or required by the North included the subject lands and or the Mational Guard property. Tun, et al, Burhan, North Carolina, a WAA.
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This Correction to WAA Form 1005, Neport 20 April 1948, is for the purpose of adjusting nortion of the western boundary lines, of lands North Carolins Mational Guard, to conform with boundarize. This Correction is also made to de 177 acres, together with two (2) buildings situ 16 between West Range Road, and the Old County Enversation, and is outside the Rifle Sange are The only acreage definitely being declar 177 acres noted above. These lands were nover Carolins Mational Guards however, an oversight two (2) buildings in the original withdrawal for This land was formerly owned by Mr. Sam T. Mang who is very antious to repurchase same from the (Continued on attached sheet DO NOI FILL IN ATE OF ASSIGNMENT ASSIGNED TO SSIGNED BY	<pre>ing Agency No. MD-1070-I, dated the eastern, southern, and a s now under License to the existing individual tract polars as surplus approximately mated thereous subject 177 acres y Road of the Camp Butner Hilitary Me red as surplus in this report is the desired or required by the North included the subject lands and or the Hational Guard property. Turn, et al, Durham, North Carolina, s WAA. st)</pre>

Chief of Prisinger - Paulte Presidente David Patrice Vachington D. C.

#### 8. REMARKS (Continued)

The revision of the National Guard Rifle Range boundaries contained in this report is identical with the area originally requested by the North Carolina National Guard. With the revision of these boundaries, the overall surplus acreage for Camp Butner will be increased, inasmich as this revision reduces the acreage required for National Guard activities. A complete revised Tract Register covering the entire Camp Butner Military Reservation appears as Block 8-Schedule E in this assembly.

In addition to the two (2) buildings mentioned in Par. 2, this Correction also includes Building No. T-5800 & T-5801 as surplus. These buildings are located along the center portion of the southern boundary of the Rifle Range property, and will be excluded from the National Guard License as a result of the adjustment of the subject boundary lines.

Block 3 herein reflects the revised fee-owned surplus acreage. Block 15 shows the revised Fee Acquisition and Betterments Cost of all lands and improvements which were surplus at this installation.

#### SEE SCHEDULES ATTACHED:

Block 8 - Schedule A:	Legal Description (Rifle Range, Revised)
Block 8 - Schedule B:	Legal Description (Surplus Langum Properties)
Block 8 - Schedule C:	Tract Map (Surplus Mangum Properties)
Block 8 - Schedule D:	Real Estate Lap, Sheets 1 373, Drawing #659-14
Block 8 - Schedule E:	Tract Register, Entire Camp Butner Reservation
	(Revised)
Block 8 - Schedule F:	Tract Register (Surplus Mangum Properties)
Block 8 - Schedule G:	Outlease No. W-09-133-eng-1461, Sam C. Mangum
	and Outlease No. N-09-133-eng-1462, Sam T. Mangum
	together with Grant of Interest Man.

#### LEGAL DESCRIPTION

#### NORTH CAROLINA NATIONAL GUARD AREA CAMP BUTHER RIFLE RANGE

All that certain tract or parcel of land containing 4815 acres, more or less, and lying or being in Durham and Granville Counties, State of North Carolina, approximately 15 miles southwest of Oxford and 7 miles northeast of Durham, North Carolina, and being more particularly described by motes and bounds as follows:

BEGINNING at a point marked by a concrete monument in the ground, Monument No. 21, and from said initial point:

Thence N 68°-281-40" E. 1821 to Stake No. 20 on the West right-ofway of the West Range Road; thence along said right-of-way, N 11-11'55", W, 261' to Stake No. 19; thence N 0°-26'-36" E, 152' to Stake No. 18; thence N 8°-23'-C7" E, 190' to Stake No. 17; thence N 9°-56'-08" E, 690' to Stake No. 16; thence N 9"-56'-08" E, 1235' to Stake No. 15; thence N 7*-03'-55" E, 518' to Stake No. 14; thence N-6*-56'-04" W, 328' to Stake No. 13; thence N 19*-28*-02" W, 57' to Stake No. 12; thence N 19*-28'-02" W, 25' to Stake No. 11; thence N 26°-08'-31" W, 415' to Stake No. 10; thence N 45°-28'-00" W, 842' to Stake No. 9; thence N 44°-27'-29" W, 268' to Stake No. 8; thence N 31°-28'-28" W, 405' to Stake No. 7; thence leaving said right-of-way, N 88°-19'-57" W, 409' to Monument No. 6.2 on the east side of a county road; thence along east side of county road, N 1°-04'-40" E, 414'; thence N 4°-06' E, 146'; thence N 3°-23' E, 1024'; thence N 1°-20'-10" E, 500.7'; thence N 4°-44'-50" E, 252'; thence N 12°-28'-20" E. 173': thence N 5°-26'-40" E. 198': thence N 1°-05' W, 196'; thence N 4°-57'-10" E, 176'; thence N 3°-11'-20" W, 136'; thence N 23'-35'-20" W, 146'; thence N 56°-02'-40" W, 151'; thence N 32°-34'-10" W, 132'; thence N 30°-03'-20" W, 343'; thence N 26'-44'-40" W, 146'; thence N 33°-17'-30" W, 263'; thence N 30°-16'-40" W, 619'; thence N 28°-31'-20" W, 258'; thence N 26°-13'-50" W, 301'; thence N 37°-52'-20" W, 314'; thence N 59°-00'-30" W, 119'; thence N 61°-46'-20" W, 367'; thence leaving East side of County Road, N 0°-59'-40" E. 797'; thence N 2°-19'-30" E, 601' to a point in the center of another County Road; thence along the center line of said County Road; N 43°-16'-30" E, 402' to the intersection of the center line of Hampton Road; thence N 89'-E, 352'; thence N 89'-30' E, 868'; thence N 85°-45' E, 1010'; thence N 2°-45' E, 135'; thence S 87°-15' E, 1398'; thence N 2°-45' E, 283'; thence S 87°-15' E, 4921' to a point which is the center line of Woods Road and Granville-Durham County Line, also the Southeast corner of Tract No. E-SO-D; thence along County line and center line of Woods Road, South 231' to the Northwest corner of Tract No. F-1-G; thence along the Northern boundary of said tract, S SS'-SO' E, 2699! to a point on the center line of Knap of Reeds Creek; thence along the center line of said Creek, S 1°-W, 550' to the intersection of the center line of Knep of Reeds Creed with the center line of Hampton Road; thence in a Northerly direction along the Southeast boundary of Tract No. F-3-G, N 59° E. 194'; thence

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N 22°-E, 362'; thence N 47°-10' E, 145'; thence N 46°-E, 441'; thence N 48°-45' E. 372' to a point which is the East corner of Tract No. F-3-G; thence along the Southern boundary of Tract No. F-52-G and the Northern boundary of Tract No. F-47-G. East 5214' (scaled) to a point which is the Northeast corner of Tract No. F-47-G; thence along the East boundary of Tract No. F-47-G and the West boundary of Tract No. F-43-G, South 726* (scaled), to a point which is the Southeast corner of Tract No. F-47-G; thence along the Southern boundary of Tract No. F-47-G and the Northern boundary of Tract No. F-48-G, S 68° W, 1650' (scaled), to a point at a road which is the Northeast corner of Tract No. F-7-G; thence along the Eastern boundary of Tract No. F-7-G and the Western boundary of Tract No. F-11-G, S 12° E, 703' to a point which is the Northernmost corner of Tract No. F-8-G; thence along the Southern boundary of Tract No. F-7-G and the Northern boundary of Tract No. F-8-G, S 714 W, 700'; thence S 672° W, 231' to a point which is the Western-most corner of Tract No. F-8-G; thence along the Eastern boundary of Tract No. F-6-G and the Western boundaries of Tracts No. F-8-G, F-14-G and F-9-G, S 12° E, 634'; thence S 12° E, 587'; thence S 12° E, 647' to a point which is the Southeast corner of Tract No. F-6-G; thence along the Southern boundary of Tract No. F-6-G and the Northern boundary of Tract No. F-10-G, S 694° W, 462' to a point which is the Westernmost corner of Tract No. F-10-G; thence along the Western boundary of Tract No. F-10-G and the Eastern boundary of Traot No. D-68-G, S 202 E, 759' to a point which is the Southernmost corner of Tract No. F-10-G; thence along the Eastern boundary of Tract No. D-68-G and the Western boundary of Tract No. D-66-G in a meandering Southeastern direction, 3600' to a point which is the Easternmost corner of Tract No. D-68-G; thence N 80° E, 100' to a Creek severing Tract No. D-43-G; thence in a meandering Southwastern direction along said Creek, 990' to a Branch on the Northernmost boundary of Tract No. D-42-G; thence along the Branch, which is the Northeastern boundary of Tract No. D-42-G and the Southwestern boundary of Tract No. D-43-G, in a meandering Southeastern direction, 1650' to a point in a road on the Western boundary of Tract No. D-44-G; thence along the Road, S 13° W, 378' to a point which is the Southeastern corner of Tract No. D-42-G and the Southwestern corner of Tract No. D-44-G; thence leaving said road, S 65 = E, 330' (Scaled) along the Southern boundary of Tract No. D-44-G and the Northern boundary of Tract No. D-34-G to a point which is the Northeastern corner of Tract No. D-34-G; thence along the Eastern boundary of Fract No. D-34-G and the Western boundary of Tract No. D-33-G, S 242*W, 1119' to a point which is the Northwestern corner of Tract No. D-30-G; thence along the Western boundary of Tract No. D-30-C and the Eastern boundaries of Tracts No. D-34-G and D-28-G, S 242° W, 860' (Scaled) to a point which is the Northwestern corner of Tract No. D-25-G; thence along the Western boundary of Tract No. D-25-G and the Eastern boundaries of Tracts No. D-28-G, D-35-G, and D-27-G, S 242° W, 460' (Scaled); thence S 77° E, 140' (Scaled); thence S 53° W, 1400' (Scaled) to a point in Stem Road and being the most Westerly corner of Tract No. D-25-G; thence along Stem Road, which is the Northern boundary of Tract No. D-15-G and the Southern boundaries of Tracts No. and D-35-G, in a meandering Northwesterly direction, 1750' (Scaled), point in Stem Road, which is the Northwestern corner of Tract No. D = G = 13

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#### PAGE NO. 3

thence along Stem Road, which is the Southern boundary of Tract No. D-35-G and the Northern boundary of Tract No. D-13-G, N 80° W, 1030' to a point in Stem Road, which is the Northwestern corner of Tract No. D-13-G; thence leaving Stem Road, S 2.3/4W, 990' along the Eastern boundary of Tract No. D-35-G and the Western boundary of Tract No. D-13-G to a point; thence N  $87\frac{1}{4}$ ° W, 1637' along the Southern boundary of Tract No. D-35-G and the Northern boundary of Tract No. D-13-G to a point which is the Northeastern corner of Tract No. D-12-G; thence N 862 W, 2226' along the Southern boundary of Tract No. D-35-G and the Northern boundary of Tract No. D-12-G, to a point which is the Northeastern corner of Tract C-66-G; thence S 85° W, 1650' (Scaled) along the Southern boundaries of Tractz No. C-78-D&G and the Northern boundary of Tract C-66-G to a point which is the Northeastern corner of Tract No. C-67-D; thence along the Northern boundary of Tract No. C-67-D, N 87° W, 504'; thence N 56.3/4° W, 921'; thence S 35° W, 891' to a point in a road which is on the Northwestern boundary of Tract No. C-67-D; thence along said road severing Tract Nc. C-68-D in a meandering Northwestern direction, 460' (Scaled) to a point at a road intersection which is the Southeastern corner of Tract No. C-69-D; thence along said road in a generally Western direction which is the Southern boundary of Tract No. C-69-D and the Northern boundary of Tract No. C-68-D, 1580' (Scaled) to a point in the road at a Creek which is the Southwestern corner of Tract No. C-69-D; thence along said Creek in a meandering Northerly direction which is the Eastern boundary of Tract No. C-70-D and the Western boundary of Tract No. C-69-D, 700' (Scaled) to a point which is the Northwestern corner of Tract No. C-69-D; thence leaving said Creek, N 25° W, 330' (Scaled); thence N 88°W, 2460' (Scaled) along the Northern boundary of Tract No. C-70-D and the Southern boundary of Tract No. C-75-D to Stake No. 20 on the West right-of-way of the West Range Road; thence S 68--28'-40" W, 182' to Monument No. 21, which is the point of beginning.

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#### BLOCK 8 - SCHEDULE B LEGAL DESCRIPTION

11 that certain tract or parcel of land lying or being in Durham County, State of North Carolina, approximately 15 miles southwest of Oxford and 7 miles northéast of Durham, North Carolina, and more particularly described by metes and bounds as follows:

Beginning at a point marked by a concrete momument on the east side of a county road, Momument No. 1, and from said initial point along the east side of said county road:

Thence N 1°-04'-40" W, 325 ft. to Monument No. 2; Thence N 0°-15'-50" E, 306 ft. to Monument No. 3; Thence N 2°-07'-20" E, 477 ft. to Monument No. 4; Thence N 1°-34'-40" E, 436 ft. to Monument No. 5; Thence N 0°-00'-20" W, 282 ft. to Monument No. 6; Thence N O"-44'-20" E, 280 ft. to Monument No. 6 -Thence N 1°-32'-20" E, 416 ft. to Monument No. 6  $\frac{1}{2}$ Thence leaving the east side of the county road S 88°-19'-57" E, 409 ft. to Stake No. 7 on the west right-of-way of the West Range Road and from said stake along the same west right-of-way Thence S 31°-28'-28" E, 405 ft. to Stake No. 8; Thence S 44°-27'-29" E, 268 ft. to Stake No. 9; Thence S 45"-28'-00" E, 842 ft. to Stake No. 10; Thence S 26°-08'-31" F, 415 ft. to Stake No. 11; Thence S 19'-28'-02" E, 25 ft. to Stake No. 12; Thence 6 19°-28'-02" E, 57 ft. to Stuke No. 13; Thence S 6'-56'-04" E, 328 ft. to Stake No. 14; Thence S 7°-03'-55" W, 518 ft. to Stake No. 15; Thence S 9°--56'-08" W, 1,235 ft. to Stake No. 16; Thence S 9°-56'-08" W, 690 ft. to Stake No. 17; Thence S 8°-23'-07" W, 190 ft. to Stake No. 18; ThenceS 0°-26'-36" W, 152 ft. to Stake No. 19; Thence S 11°-11'-55" B. 261 ft. to Stake No. 20; Thence leaving west right-of-way of West Range Road Thence S 58°-28'-40" W, 182 ft. to Monument No. 21; Thence N 89°-02'-50" W, 316 ft. to Monument No. 22; Thence N 7°-21'-00" W 775 ft. to Momument No. 23; Thence N 7°-21'-00" W, 768 ft. to Momument No. 24; Thence N 7°-21'-00" W, 605 ft. to Monument No. 25 on the east side of a county road and from said monument along the east side of road. Thence N 48°-57'-10" W, 241 ft. to Monument No. 26;

#### BLOCK 8 - SCHEDULE B

Thence N 64'-10'-00" W, 341 ft. to Monument No. 27; Thence N 53°-22'-50" W, 98 ft. to Monument No. 1, the point of beginning. All monuments are concrete monuments and all stakes are 2" x 2" wooden stakes.

The above described tract of land is bounded on the north by Tract E-21-D; on the east by Tracts E-21-D, E-20-D, and C-75-D; on the south by Tract C-70-D and C-75-D and on the west by the Post Boundary Line and contains 176.7 acres, more or less.

Beginning at Concrete Monument No. 1 on the east side of a county road, and from said initial point along the center line of another county road;

Thence N 78°-26°-40" E, 203 ft. to T-2; Thence N 62°-02°-40" E, 324 ft, to T-3; Thence N 60°-16°-10" E, 465 ft. to T-4; Thence N 53°-47°-10" E, 930 ft. to Stake No. 12 on the west right-of-way of the West Range Road are points on the approximate bisector of the above described tract of land. Tract map of Sam Mangum property, Camp Butner, N.C. Surveyed 15 De 1948 by J. Price. (1tains 176.7 Acres more or less. Corps of Engineers, U.S. Army, Savannah District, Savannah, Georgia.





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JCA/e: 1"= 1000'

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M-1	N1º-04'-40"W	325'	5-10	526°-08'-31"E	415'	M-21 N89-02'-50"W	3161
M-2	NO-15'-50"E	306'	5-11	519°-28'-02*E	25'	M-22 N7 - 21'-00"W	775'
M-3	N2"-07'-20"E	477'	5-12	5 19°-28'-02"E	57'	M-23 N 7 - 21'-00*W	7681
M-4	NI*-34'-40*E	436'	5-13	56°-56'-04"E	328'	M-24 N7 - 21 - 00 *W	605'
M-5	NO-00'-20"W	282'	5-14	57°-03'-55" W	518'	M-25 N48°-57'- 10"W	241'
M-6	NO:44'-20"E	280'	5-15	59•56'-08*W	1235'	M-26 N64 - 10'-00"W	341'
M-6'	N/-32'-20" E	416'	5-16	59 - 56'-08 W	690'	M-27 N53º22-50"W	98'
M-62	588°-19'-57"E	409'	5-17	58°-23'-07"W	190'	M- / N78-26-40"E	203'
5-7	531°-28'-28"E	405'	5-18	50°-26'-36"W	152'	T-2 N62:02-40'E	_
5-8	544-27-29"E	268'	5-19	511°-11'-55"E	261'	T-3 N60°.16'.10"E	G-1
5-9	545:28:00"F	842'	5.20	568:281- AN"W	1821	T.A. N.53:47:10"F	

DISTANCES AND BEARINGS

# $\underline{\mathbf{F} \mathbf{E} \mathbf{E}} \quad \underline{\mathbf{A} \mathbf{C} \mathbf{O} \mathbf{U} \mathbf{I} \mathbf{S} \mathbf{I} \mathbf{T} \mathbf{I} \mathbf{O} \mathbf{N}}$ $\underline{\mathbf{T} \mathbf{R} \mathbf{A} \mathbf{C} \mathbf{T}} \quad \underline{\mathbf{R} \mathbf{E} \mathbf{G} \mathbf{I} \mathbf{S} \mathbf{T} \mathbf{E} \mathbf{R}}$

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# CAMP BUTNER, NORTH CAROLINA

(REVISED)

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TRACT NO.	ACREAGE	COST
AIG	300.00	\$ 4,448.00
A2G	112.00	2,160.00
A3G	106.50	1,551.00
A4G	•50	125.00
ASG	1.00	50.00
A6G	150.00	5 <b>,508.00</b>
A6AG	1.00	10.00
A7G	200.00	6,146.00
ABG	17.00	285.00
A9G	49.00	895.00
A100 \	35.00	105.00
A110	107.00	<b>4,</b> 479,00
A12G	156.00	7,209.00
A13G	· 95 <b>.0</b> 0	. 4,500.00
A14G	00.003	11,155.00
A15G .	119.00	010.00
A16G	67.00	681.00
A17G	7.00	65.00

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TRACT NO.	ACREAGE	COST
A18G	36.00	\$ 180.00
A19G	49.00 11.00 Nationa 38.00	6,876.00 1 Guard (Cantonment 1,543.00 Area) 5,333.00
A20G	140.00 <u>11.00</u> Nationa 129.00	4,548.00 1 Cuard(Cantonment 357.00 Area) 4,191.00
A21G	153.75	9,669.00
A22G	171.00	2,854.00
A23G	216.00	7,997.00
A24G	22.00	76.00
A25G	172.50	5,052.00
A26D&G	250.00	9,103.00
A37D&G	165.00	18,837.00
A38D&G	126.00	14,222.00
A38AD	•50	75.00
A39G&D	151.75	2,751.00
A40G	22,50	344.0
A410	57.50	1,195.00
A42G	71.00	1,616.00
A43G	69.00	538.00
A44G	110.00	2,204.00
A44AG	. 1.00	51.00
A45G	90 <b>•57</b>	958.00
A46D&G	245.50	14,078.00
A47G	66•75	5,775.00
A48G	32.00	4,591.00

	TRACT NO.	ACREAGE	COST
ļ	A 49G	207.00	3 7,765.00
ļ	449AG	•10	76.00
A	150G	65.50	300.00
A	A51G	23.00	670.00
- -	152G	52.00	1,941.00
Æ	A53G	3.00	9,025.00
. A	154G	51.00	2,736.00
Å	155G	60.50	1,173.00
A	1560	92.00	5,903 <b>.00</b>
A	1570	122.00	4,556.00
A		149.70	4,526.00
A	1590	94.75	1,827.00
A	160G	1.00	160.00
A	AGIG	283.50	6,550,00
А	A62G	178.50	2,059.00
A	x630	25.00	375.00
A	∿64G	44.00	460.00
А	465 <b>G</b>	63.00	932.00
A	4660	8 <b>• 00</b>	160.00
Α	4670	160.00	3,717.00
A	160 G	255.50	5 <b>,</b> 608 <b>.</b> 00
İ	1690	45.00	1,300.00
۸	170G	5.00	50 <b>.00</b>
ŕ	.71G	62.25	1,502.00

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TRACT NO.	ACREAGE	COST
A72G	30.00	\$ 465.00
A75G	27.00	706.00
A76G	34.50	1,000.00
A77G	25.50	820.00
A78G	32.50	313.00
A79G	1.00	5.00
A80G	1.00	634.00
A81G	40.00	811.00
A82G	35.25	105.00
A84G	28.50	441.00 National Guard (Contonment CR 00
	24.10	Area) 373.00
A85G	117.00	3,889.00
BlG	371.00	13,074.00
B2G	187.00	6,004.00
B3G	30.00	150.00
34G	10.00	786.00
B5G	0.12	2.00
B6G	0.25	2.00
B7G	68 •00	970.00
<b>B8</b> G	21.50	316.00
B9G	101,00	2,142.00
B10G	40.00	320.00
B110	160.00	1,305.00

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TRACT NO.	ACREAGE	COST
B120	105.00	\$ 1,000.00
B13G	50.75	1,592.00
B15G	107.85	2,527.00
B16G	150.00	6,893.00
B17G	76.12	2,370.00
B18G	176.00	4,823.00
710G	96.00	2,805.00
B19AG	0.50	51.00
B20G	191.65	3,565.00
B21G	76.00	2,739.60
B21AG	0.05	27.00
322C	52.00	3,346.00
223G	125.00	5,113.00
B24G	137.25	€ <b>,</b> 2 <u>94100</u>
B31G	1.00	497.00
B32G	77.00	1,802.00
B33G	119.20	1,200,00
B340	25.00	380.00
E35G	196.00	5,945.00
C3G	84.00	533.00
C4D	129.00	<b>8,525.</b> 00
07.0	3 <b>.00</b>	50,00
CED	35.50	1,838,00

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TRACT NO.	ACREAGE	COST
Côd	129.00	\$ 4,958.00
CIOD	88.00	3,885.00
C12D&G	35.00	727.00
C13D&G	239.00	3,904.00
C14G	6.50	185.00
C15G	19.50	575.00
C16G	24250	3,899.00
C17D&G	79.00	1,330.00
CIED	20.00	450.00
C19D	72.00	571.00
C2DD	14.50	471.00
C21D	2.00	20.00
C22D	33.30	580.00
CzoD	26.00	311.00
C26D	2.50	830,00
C27D	, 79 <b>.</b> 50	1,080.00
C 28 D&G	45.00	610.00
C29D%G	170.00	2,320.00
C30G	101.00	3,354.00
Ç30AG	0.62	42.00
C31G	54.00	1,063.00
C32G	1.09	1,940.00
C33G	0.25	26.00
C34G	•05	10.00
C35G	1.95	2,022.00

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TRACT NO.	ACREAGE		COST
C36G	11.00		\$ 2,100.00
C37G	9.00		62.00
C38G	200.00		9,286.00
C39G	167.00		7,261.00
C40G	23.00		915.00
C41D	195.00	· · ·	9,616.00
C42D	97.00		6,221.00
C61D	54.00		1,719.00
C62D	1.50		35.00
C63D	74.00		4,625.00
C64D	69.12	·	1,620.00
C65G	112.00		4,315.00
C66G	78.00		2,563.00
C67D	89.50		3,236.00
C68D	100.50 24.00 76.50	National Guard	2,135.00 509.00 1,626.00
C69D	18.00		387.00
C70D	118.00		6,966,00
C75D	256.00 99.00 157.00	Surrlus this report National Guard	20,089.00 7,769.00 12,320.00
C76D&G	315.40	National Guard	17,731.00
C77D	24.00	National Guard	435.00
C78D&G	70.00	National Guard	7,695.00

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TRACT NO.	ACREAGE	COST
DIG	14.00	\$ 392.00
D2G	25.00	1,257.00
D <b>3G</b>	75 <b>.25</b>	3,792.00
D4G	19.00	562.00
D5G	29.84	3,157.00
D6 <b>G</b> .	151.00	≗ <b>,</b> 055 <b>.</b> 00
D7G	63.60	1,247.00
Dê G	195.25	4 <b>,</b> 870 <b>.0</b> 0
D9G	147.33	6,055 <b>.00</b>
DIOG	70.00	2,834.00
D11G	162.53	5,400.00
D12G	87.00 .	7,398 <b>.0</b> 0
D13G	154.00	5,965.00
D14G .	79,50	1,554200
D15G	166.00	3 <b>,</b> 846 <b>,00</b>
D16G .	13.00	<u></u> 30 <b>•00</b> -
2176	4£° 50	618.00
D18G	50 <b>•75</b>	2,638.00
D19G	00.55	3,250.00
D20G	116.40	s,904 <b>.00</b>
D21G	112.70	4 <b>,</b> % 8 <b>.00</b>
D21AG	2.00	0 <b>0.</b> 00
D2 2G	70.00	4 ₅ 0. <b>1.0</b> 0
D23G	2.00	1,000.00
D24G	23.00	280 <b>.00</b>

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TRACT NO.	ACREAGE	COST
D25G	179.00	\$ 10,162.00
D26G	11.25	282.00
D27G	7.00 National Guard	1,310.00
D28G	21.00 National Guard	491.00
D29G	4.00 National Guard	100.00
D30G	24.00	1,365.00
D31G	61.30	1,340.00
D32G	30.00	300.00
D33G	43•43	1,694.00
D34G	60.00 National Guard	2,768.00
D35G	413.05 National Guard	17,554.00
D36G	96.75 National Guard	8,379.00
D37G	60.25 National Guard	3,563.00
D38G	24.10 National Guard	4.115.00
D39G	131.50 National Guard	7.414.00
D40G	129.00 National Guard	9,626.00
D41G	180.00 National Guard	4.076.00
D42G	60.00 National Guard	900.00
D43G	209.12 54.40 National Guard 154.72	6,571.00 1,710.00 4,861.00
D44G	48.50	3,027.00
D45G	10.00	105.00
D46G	52.0	2,304.00
D43G	28.74	- 510 <b>.00</b>

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DAG	47.00	•	\$ 2,640.00
DEOG	54.00		4,509.00
DELG	72.30		3,200.00
D510	50.00		1,495.00
D536	123.75		6,285.00
D58G D59G D59AG	148.80 174.75 ,0.50		4,579.00 9,914.00 36.00
DGOG	27 <b>.</b> 0		676.00
D61G	19.50		923.00
D6 2G	19.50		005.00
D63G	24.00		300.00
D64G	145.25		4,639.00
D65G	117.00		3,310.00
DGGG	399.79		7,539.00
D67G	16.00		<b>2</b> 93.00
D68G	322.75 Nationa	l Guard	4,750.00
D69 <b>G</b>	21.00 Nationa	al Guard	293.00
D70DeG	126.00 Nations	l Guard	6,302.00
D71G	69.00 Nations	al Guard	1,299.00
D7 2G	100.00 Nation	al Guard	2,367.00
D77G	3.00		60.00
578G	4.00 Natio.2	al Guard	40.00
D79G	3.30		45.00
DEING	52 <b>.</b> 0		1,275.00

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TRACT NO.	ACREAGE	<u>OOST</u>
D81G	2.80	\$ 112.00
DE 2G	6.00 National Guard	39.00
E-20D	76.50 59.00 Surplus this reno 17.50 National Guard	15,582.00 12,000.00 3,582.00
, E21D	99.10 19.00 Surolus this repo 80.10 National Guard	rt <u>1,437.00</u> 6,003.00
E3OD	102.00 National Guard	8,670 <b>.00</b>
E31D	9.75 National Guard	328.00
E32D	172.00 National Guard	೪,೧60.00
E32AD	. 0.20 National Guard	26.00
E33D	.C9.50 National Guard	8,547.00
E34D	69.50 National Guard	3,257.00
E35D	162.40 National Guard	8,634.00
E36D	25.00 National Guard.	2,000.00
E37 D	3.00 National Guard	150.00
E36 D&G	415.00 National Guard	15,459.00
E41G	18.50 National Guard	\$35 <b>∙00</b>
E42G	4.00 National Guard	900.00
E43D&G	87.00 National Guard	⊴,723.00
E44G	7.00 National Guard	1,985.00
0453	5.00 Sational Guard	1,100.00
5400	2.00 National Guard	1,215.00
3470	65.72 National Guard	¹⁹ ,250,00
<b>H4</b> 011	56.50 National Gard	1,520.00

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TRACT NO.	ACREAGE		COST
E49D	63.00	National Guard	\$ 1,317.00
E50D	100.00	National Guard	3,210.00
E51D	227.00 115.00 112.00	National Guard	6,605.00 <u>3,450.00</u> 3,155.00
E51AD	1.00		41.00
E51BD	.25	,	10.00
E52D	191•40	National Guard	10,770.00
E74D	2.00		60.00
E76D	136.00		10,114.00
E77D	62.00		5,290.00
E78D	40.30		1,200.00
E79D	172.38		11,980.00
E80D	150.00		4,473.00
E81D -	25.00	National Guard	1,064.00
E82D&G	139.00		6,123.00
E83D&P	58 <b>•40</b>		4,999.00
E84G	0.19	National Guard	269.00
F1G	112.50	National Guard	4,350.00
F2G	75 ₀ 00	National Guard	3,159.00
F3G	37.00		575.00
F4G	23.00	National Guard	8 <b>90.00</b>
F5G	12.00	National Guard	159.00
F6G	50.00	National Guard	895 <b>.00</b>

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TRACT NO.	ACREAGE		COST
· FCA C	0.15	Madda and Carao	<b>a</b> 10.00
P70	15.00	National Guard	ş 10.00
E la	15.00	National Guard	273.00
1991	19.50		<b>42</b> 9 <b>•</b> 00
F9G	20.00		1,180.00
Flog	19.85		360 <b>.0</b> 0
<b>F1</b> 1G	16.60		877.00
F12 <del>0</del>	18.00		270 <b>.0</b> 0
F13G	0.05		10.00
F14G	21.94		407.00
F150	35.37		1,794.00
F15AG	0.43		15.00
F16G	18 <b>.9</b> 5		354.00
F17G	18.03		356.00
F18G	17.52		285.00
F19G	2.00		895 <b>.00</b>
F2OG	31.52		480.00
F21G	44.00		475 <b>.0</b> 0
F22G	22.00		1,275.00
F22G	51.00		1,348.00
F24G	50.00		1,340.00
F25G	72.00		2,360.00
F2CG	43.75		2,080,00
F27G	56550		1,180,00

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TRACT 110.	ACREAGE		COST
F28G	78.90		\$ 1,666.00
F29G	19.17		220.00
F30G	74.50		2,544.00
F31G	3.00		325.00
F32G	17.00		225.00
F33G	11.50		2,244.00
F34G	68.75		974.00
F35G	18.38		140.00
F3∂G	20.65		240.00
F37G	17.87		<b>268 •00</b>
F30G	18.20		378°00
F39G	2.00		2,125.00
F40G	18.11		325.00
F41G	18.42		3 280.00
F42G	87.50		241.00
<b>F43</b> G	18.75		633.00
<b>R4</b> C	17.10		310.00
F45G	16.45		92.00
F4CG	103.00		30 <b>9°00</b>
F47G	132.00	National Guard	3,141.00
F420	18.30		401.00
F49G	100.00		3,440.00
FSOC	63.00		2 <b>,</b> 090 <b>.0</b> 0
F51D&G	221.50		3,045,00
F52G	235.50		5,620.00

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TRACT NO.	ACREAG	<u>c</u>	OST
F53G	93.00	\$	475.00
F54G	80.00		240.00
F55G	54.50		951.00
F56G	61.00	1	,083.00
F57G	80.00	· 1	,111.00
F58G	10.00		50.00
F59G	191.25	. 3,	,352.00
F60G	68 <b>.50</b>		204.00
F61G	100.00	1,	<b>,638 .</b> 00
F62G	50.00		340.00
F6 <b>3</b> G	60.00		400,00
F64G	117.75	2,	,284.00
F65G	75.00		550.00
F66G	250.00	3,	,537.00
F67G	35+60		969.00
F67AG	1.00		16.00
F68G	73.50	1,	,652 <b>.0</b> 0
F69G	50.00	1,	998.00
F70G	45.00	1,	,237.00
F71G	36.00		410.00
F72G	32.00		450 <b>.</b> 00
F7 3G	153.00		900.00
F74G	94.00	2,	766.00

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TRACT NO.	. ACREAGE		COST
F75G	57.00		\$ 315.00
F76G	84.00		496.00
F77G	542 <b>.</b> 5Q		3,183.00
F78D&G	304.80		. 9,029.00
F79D&G	16.25		1,418.00
F80G	56.00	National Guard	2,370.00
F81G	18.00		1,058.00
Fe 2G	54.50		2,959.00
F63G	29.00		1,180.00
F84G	24.00		195.00
Fe 5G	128.50		3,093.00
F86G	321.00		5,447.00
F87G	9.50		210.00
F38G	65.00		1,750.00
F89G	1.00		425 <b>₀00</b>
F90G	59.50		900.00
G14D&P	78.25		4,734.00
G15D	<b>63</b> •00		4,083.00
G16D	63°00		δ,240.00
G17D	41.20		1,964.00
G18P	52,00		5,177.09
G19P	59.00		3,595.00
G20P	53.00		2,045.00
G21P	130.00		4,377.00
G22P	113		

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TRACT NO.	ACREAGE	COST
G23P	714.70	\$21,126.00
G71P	31.75	2,591.00
HIG	271.30	7,449.00
H2G	250.00	4,655 <b>.</b> 00
H3G	540.90	3,100.00
H4G	56.00	455 <b>₀</b> 00
H5G	420.50	3,141.00
Heg	100.00	S <b>30</b> •00
H7G	179 <b>.4</b> 2	1,867.00
HBG	75.50	1,780.00
H9G	105.00	622.00
HIOG	60 <b>5.40</b>	? 
HIIG	386.60	5,000.00
H12P	66.00	3,422.00
H <b>13</b> P	60.10	4,031.00
H14P	139.75	7,175.00
H15G&P	475.00	7,810.00
H16G	9.20	332.00
H17G&P	141.00	6,759.00
H18G	202.25	C <b>,</b> 0 <b>02.0</b> 0
HISAG	0.25	55.00
HISG	100.00	2,862.00
H2OG	650.75	14,000.00
E21G	20-00	200.00

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TRACT NO.	ACREAGE	COST
H22G	112.00	\$ 3,300.00
H23G	95.00	<b>1,</b> 982 <b>.</b> 00
H24G	104.50	1,260.00
H25C	23.00	209.00
H26G	25.00	612.00
H27G	145.00	1,477.00
H2SG	44.50	373.00
H29G	· 55.00	365.00
1130G	44.50	328.00
H31G	397.00	12,566.00
H32G	51.70	1,192.00
H33G	59.13	2,365.00
H34G ´	86.00	5,820.00
H35G	103.75	5,826.00
H36G	147.11	9,507.00
H37G	0.00	1,425.00
H38G	29.50	1,248.00
H30G	4 <i>0</i> <b>.</b> 00	1,134.00
H400	49.00	1,166.00
H41G	195.73	3,127.00
E42G	112.90	7,747.00
H443	05.00	1,07%.00
N430	13.00	4,200.00

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TRACT NO.	ACRMAGE	COST
H46G	39.50	\$ 748.00
H47G	9.75	195.00
H48G	50.00	550.00
H49G	150.00	1.735.00
H50G	98.75	988.00
H51G	80.00	403.00
H56G	58.00	2.964.00
H58G	45.00	656.00
H59G	168.17	5.000.00
HEAG	1.20	70.00
J2P	60.00	5.812.00
J3P	98.00	1.835.00
J4P	50 <b>.</b> 00	3,270.00
J5P	45 _• 30	1,565.00
JGP	50.00	2,152,00
J7G	50.00	1.384.00
<b>J</b> 8G	43.00	1,590.00
J9G	103.04	5.054.00
J10P&G	136.50	5.072.00
JIIP	151.60	3 <b>.</b> ≈₽.00
J12P	113.00	3.025.00
J13P	77.00	2.407.00
<b>J</b> 15P	218.50	J.015.00
JIGP	99.30	₹.415a00
J17Peg	437.62	22,512.00

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TRAUT NO.	ACPEAGE	COST
J18G	91.00	\$ 3,648.00
J19G	87.50	1,307.00
J20G	77.00	3,892,00
J21G	30.00	2,340.00
J22G	58.70	3,533.00
J23G	14.80	702.00
J24G	104.00	2,610.00
J329	109.30	3,035.00
<b>J3</b> 3G	37.50	1,854,00
J346	89.00	4,390.00
J253	66,00	3,124.00
J390	69.23	2,203.00
J44P	41.50	· 226.00
J45P	89 ₉ 30	700400
J462	200.00	4,071.00

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For complete totals, see next page.

TOTALS:

Surplus Acreage: (Entire Camp Butner; including 177 acres of Mangum Property which is surplus in this report). \$ 1,091,631.00 35,352.59 acres (Surplus) 0 Acreage withdrawn for National Guard Use; including Rifle Range (Revised) and Cantonment Area. 4,822.09 acres (Mon-Surplus) \$ 232,077.00 . . Rifle Range . 26.40 acres (Non-Surplus) 3 1,968.00 . . . Cantonment Area . . . . 234,045 4848.49 40,201.08

(Surplus and Non-Surplus)

## BLOCK 8 - SCHEDULE F

#### TRACT REGISTER (ACREAGE SURPLUS THIS REPORT)

Tract No.	Former Owner		Acres	Cost
C~75-D	Kenneth Mangur	l	256.00 99.00 Surplus this report 157.00 National Guard	\$ 20,089.00 7,769.00 \$ 12,320.00
E-20-D	S. T. Mangum		76.50 59.00 Surplus this report 17.50 National Guard	\$ 15,582.00 12,000.00 3,582.00
E-21-D	S. T. Mangum		39.10 19.00 Surplus this report 80.10 National Guard	\$ 7,500.00 1,437.00 6,063.00
	1	Total:	177.00 Surplus this report	
		Cost:	(Surplus this report)	\$ 21,206.00 (Estimatod)

Mr. Sam T. Mangum, et al, former owner of the lands being declared as surplus herein is very anxious to repurchase these lands at the earliest possible date

Under date of 9 May 1949, the Government granted to Mr. Sam. C. Mangum, Durham, N. C., an outgrant covering approximately 8 acres for a period of one year, beginning 1 May 1949 and ending 30 April 1950. This lease covers a portion of Tract No. C-75-D and the land covered by this lease is a portion of the area being redeclar as surplus in this report. Subject lease is designated as W-09-133-Eng-1461.

Under date of 9 Hay 1949, the Government granted to Mr. Sam T. Mangum, Durham, N. C., an outgrant covering approximately 12 acres for a period of one year, beginning 1 May 1940 and ending 30 April 1950. This lease covers a portion of Tract No. E-20-D and the land covered by this lease is a portion of the area being redeclaras surplus in this report. Subject lease is designated as W-09-153-Eng-1462.

Subject leases armear at Flock 8 - Schedule G herein.

BLICK 6 - SCHEDUUD F

HILLTARY ACOULSETION DOG		DATE OF RE	PORT	REP	ORTS CONTROL	•	
TILITART ACQUISITION PRO		10-19-	49	DIRECTIVE NUMBER			
TO WAR DEPARTMENT, OFFICE OF THE CHIEF OF REAL ESTATE, REALTY REQUIREMENTS DIVISIO REALTY CONTROL BRANCH, WASHINGTON 25, 8	ENGINEERS, DW, .C.	FROM (DIVIS	siow) h Atlantic				
PROJECT NAME		DIRECTIVE	DATE				
Camp Butner	3-27-44		RE-D 2950				
PURPOSE		8-4-44	/	STATE	<u>50 A (Gen</u>		
Triangular Division Camp		Durham, Granville and Person		North Carolina			
	Cu	RRENT PERIOD	)	2	ROGRESS TO D	ATE	
Final Report JU31	TRACTS	ACRES	DOLLARS	TRACTS	ACRES	DOLLARS	
GENERAL							
1. TOTAL AUTHORIZED FOR ACQUISITION				38	85	*	
a. Fee				-	-	-	
b. Easements & Lesser Interests				12	33	2,501	
C. Public Lands				-	<b>—</b>	<u> </u>	
U. Leased to U.S.				** 20	52		
ACQUISITION OF FEE, EASEMENTS AND LESSER INT.							
2. TOTAL (Items 1a & 10)				12 /	33 -	2,501	
3. TRACT OWNERSHIP DATA COMPLETED				12			
A TRACT MAPS COMPLETED				12			
5. APPRAISALS APPROVED				9	30	2,501	
6. TITLE EVIDENCE ORDERED			· · · · · · · · · · · · · · · · · · ·	12 			
I TITLE EVIDENCE RECEIVED							
PURCHASE (including Donations)							
B. OPTIONS OBTAINED				*** 12			
9. OPTIONS ACCEPTED			∶ Ŀ╶₊╾₊╾ _┙ ╾┆┯ _┲ ┯╤╤	12	33	2,501	
D. TITLE EVIDENCE SUBMITTED				12			
1. PHELIMINARY TITLE APPROVED				12	77	2 501	
C. PAINENIS AND CLOSINGS COMPLETED				14	20	2 501	
CONDEMNATION (including Declarations of Taking)						~ ~ ~ ~	
ASSEMBLIES SUBMITTED	· · · · · · · · · · · · · · · · · · ·			·····			
CONDEMNATION PETITION FILED	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				li.	
S. OPDER OF POSSESSION ENTERED							
A. LITLE EVIDENCE TO U.S. ATTORNEY		· · · · · · · · · · · · · · · · · · ·				منابعة الم	
2. DECLARATION OF TAKING FILED					) \$21,0000,000000	ļ	
A DELEVILATIONS AND AWARDS APPROVED		*****				· · · · · · · · · · · · · · · · · · ·	
A PARTIAL DISBURGEMENTS				•			
2_EINAL DISBURSENENTS			· · · · · · · · · · · ·		+ <u></u>		
ROJECT MANAGER (Mane) LUCLIN D. SINCH.SUN Chier, Final Audit Soction Roal State Division	monor	OFFICE ADDR	F.C. Javenn	dox 269 ah, leorg	jia		

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PRELIMINARY I FIRAL (Revised

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1							CAJ FINAL(Revised
		TRACT R	EGISTER	3-27 8- 4	-44 ′ -44 ′	'RE-D 2950 'RE-D 2950A (Gen)	(Separato Register to bo propered for each Real Estate Directives
PROJECT (P	Ificial Name)	PURPOSE (A+ 5	at Farth in Di	ractive)		DATE OF DIRECTIVE	DIRECTIVE NUMBER
Camp Bu	tner, N. C.	Triangular	Division Co	атр	<b>.</b>	See above	See above
TRACT NUMBER	LANDOWNER'S NAME	ACREAGE	PRICE	ESTATI L	нетно 	LAST ACTION STEP TAKEN	REMARKS (Including Contract No of Loasov)
63-L	Southern Ry. Co.	0.09	Nominal	้นไ	D	Access road R/W License dtd 3-1-42	For duration & 6 Mos. Area also covered in
65-E	C. L. Lindsay, et ur.	4.80	412.00	ВУ	P	Access road R/W Ease- ment dtd 3-1-42	Perpetual. Formerly known as Tract No. 3. Area also covered in
66 <b>-</b> 5	J. T. Roycroft, et ux	3.00	250,00	ЕŸ	P	Access road R/W Ease- ment dtd 3-1-42	Lease W-2287-ang-16785, Perpetual. Formerly known as Tract No. 4. Area also covered in
67 <b>-</b> E	C. L. Lindsay, et ux	1.11	76,00	E	P	Access road R/H Ease- ment dtd 3-1-42	Lease W-2287-eng-16785. Perpetual. Formerly known as Tract No. 5. Area also covered in
68 <b>-</b> E	Eula Cash, et al	6,95	496.00	E	P	Access road R/W Ease- ment dtd 3-1-42.	Lease W-2287-eng-16785. Perpetual. Formerly known as Tract No. 6. Area also covered in
69 <b>-</b> 6	Roxie E. Suit Fowler, et vi	r 1.95	214.00	EŤ	P	Access road R/W Ease- ment dtd 3-1-42	Lease W-2227-eng-16785. Perpetual. Formerly Gnown as Tract No. 7. Area also covered in
70-e	W. S. Fleming, et ux	1.13	113.00	E	P	Access road R/W Ease- ment dtd 3-1-42	Lease W-2287-eng-16785. Perpetual. Formerly known as Tract No. 8. Area also covered in
71-E	Eleanor Green, et al	3.10	210.00 '	E -	P	Access road R/W Ease- ment dtd 3-1-42.	Perpetual. Formerly known as Tract No. 9. Area also covered in Lasse W-2287.eng_16785
72 <b>-</b> E	W. S. Fleming, et ux	2.40	240.00	E	P	Access road R/W Ease-	Perpetual. Formerly nown as Tract No. 1C. Area also covered in Lease W-2287-enr-16785.
73-E	J. T. Aiken, et al	5 <b>.7</b> 5	<b>490.</b> 00	E	P .	Access road R/W Ease- nent dtd 3-1-42.	Perpetual. Formerly known as fract No. 11. Area also covered in Lease W-2287-eng-16785.
74-L	Southern Ry. Co.	2.37	Nominal	Li	D.	Access road R/W License	For dimation & 6 mos.
81-L	Southern Ry. Co.	0.05	Nominal	Li	D	dtd 3-1-42 Access road R/W License dtd 3-1-42	For duration & 6 mos.
64	St. Hwy & Public Norks Comm.	17.94		Lø	L	₩-2287-eng-16785	Covers portions of areas in Tracts No. 63-L & 65-E through 73-E.
75	Allyne H. Coley, et al	2.42	1.00 p/a	Le	L	x-09-026-eng-797	Area also covered by lease $\sqrt{1-2287}$ -eng-16785
76	John W. Carpenter, et ux	0.10	1.00 p/a	Le	L	W-09-026-eng-798 ·	Area also covered by Lease #W-2287-eng-16785.
77	Allyme H. Coley	1.80	1.00 p/a	Le	L	₩-09-026-en5-799	Area also covered by Lease #W+2287-eng-16725.
78	Sarah H. Heartt, et al	3.91	1.00 p/a	Le	L	N-09-026-eng-800	Area also covered by Lease #W-2287-eng-16785.
79	H. T. Goss, et ux	1.16	1.00 <u>-</u> /8	Le	L	W-09-026-eng-801	Area also covered by Lease #W-2287-eng-167#5.
80	Serah W. Heartt, et al	3.44	1.00 p/a	Le	L	<i>3-09+026-en⊱-80</i> 2	Area also covered by Lease gui-2207-enc-10005.
62	Herbert Lyon, et ux	3,88	1.00 p/a	Le	L '	"09-026+eng-803	Area also covered by Lease W-23 7-eng-10740.
83	J. Garland Daniel, ot al	2.37	1.00 p/a	Ļə	L	. <i>й</i> -09+02∂-en5-864	Area also covered by Lease 4N-818 7-ear-10795.
84	Trs. Finey Grove Missionary Ba; tist Church	0.19	1.00 p/a	ها	·L	₩-09-026-ant-805	Area also covered by Lease ad-uch
85	Dra Meudows	0.4€	1.00 _l /a	Lə	L	57-09-015-eng-806 1	Aren also co G-14

Office of the Chief of Engineers Real Estate Division

## TRACT REGISTER

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	n		TRACT RI	EGISTER				(Separate Enginter to be
	Page 2							Estate Directiveg
Γ	Camp But	ttielet News) nor, N. C.	Triangular	Division Ca	ump.		DATE OF DERECTIVE	DIRECTIVE NUMBER
T	TRACT HUNBER	LANDOWNER'S NAME	ACREAGE	PRICE	ESTAT	ы ет ноо _1/	LAST ACTION STEP TAKEN	REMARKS (Including Contract No of Leases)
ſ	86	G. M. Chappell, et ux	1.38	1.00 p/a	Le	L	W-09-026-eng-807	Area also covered by
	87	Mattie Rogers, et vir	0.53	1.00 p/a	Lo	L	W-09-026-eng-808	Lease #W-2287-eng-16785
	88	M. C. Rogers, et ux	0.28	1.00 p/a	Le	L	<b>W-09-026-eng-809</b>	Area also covered by
	89	Mrs. Elizabeth Cash, et al	0,19	1.00 p/a	Lo	L	W-09-026-eng-810	Area also covered by
	90	Lucy T. ^C oley, st al	0.85	1.00 p/a	Lo	L	W-09-026-ang-811	Area also covered by Lease #W-228 7-eng-16785
	91	M. C. ^M ogers, et ux	0.17	1.00 p/a	Lo	L	₩-09-026 -eng-812	Area also covered by Lease #W-2287-eng-16785
	92	Lakie Haithcock, et vir	1.54	1.00 p/m	Lo	L	W-09-026-eng-813	Area also covered by Lease #W-2287-eng-16785
	95 ·	Town of Greedmoore	0.65	1.00 p/a	Lo	L	W-09-026-eng-814	Area also covered by Lease #W-2287-eng-16785
	94	Mrs. Elizabeth Cash, et al	0.42	1.00 p/a	Le	L	W-09-026-eng-815	Area also covered by Lease #W-2287-ang-16785.
	95	Nannie B. Taylor	1.16	1.00 p/a	ما	L	₩-09-026-eng-816	Area also covered by Lease ##-2287-eng-16785
	96	St. Ewy. & Public Works Comm.	0.02		Le	L	W-2287-eng-16785	
	97	St. Hwy. & Public Works Comm.	0.02		Lo	L	W-2287-eng-16785	
	98	St. Hwy. & Public Works Comm.	1.98	Set for a port in structury       BML 0f DiRCIVE       DirEctive Matter is a port in structury         Set for a port in structury       BML 0f DiRCIVE       DirEctive Matter is a port in structury         1.38       1.00 p/s       Ls       L M-09-026-ang-807         0.53       1.00 p/s       Ls       L       M-09-026-ang-808         0.51       1.00 p/s       Ls       L       M-09-026-ang-808         0.51       1.00 p/s       Ls       L       M-09-026-ang-808         0.55       1.00 p/s       Ls       L       M-09-026-ang-810         0.65       1.00 p/s       Ls       L       M-09-026-ang-811         0.65       1.00 p/s       Ls       L       M-09-026-ang-812         1.64       1.00 p/s       Ls       L       M-09-026-ang-812         1.65       1.00 p/s       Ls       L       M-09-026-ang-814         1.64       1.00 p/s       Ls       L       M-09-026-ang-814         1.65       1.00 p/s       Ls       L       M-09-026-ang-814         1.65       1.00 p/s       Ls       L       M-09-026-ang-814         1.65       1.00 p/s       Ls       L       M-09-026-ang-816         1.75       1.00 p/s       L<				
	99	St. Hwy. & Public Works Comma.	0.42		Lo	L	<b>N-2287-eng-16785</b>	
	100	St. Hwy. & Public Works Comma	5.12		Le	L	W-2287-eng-16785	
								A. March
	12	TOTAL		.ccol.00	<u>1</u> / •	Fo Spa; Fu Purc	*LE* Lossenmint: *LI* License; nese, *O/T* Deciaretion of Tehr	*PEr ternit: *E-
$\left  \right $	DIVISION	South Atlantic	DATE PREPARED	10-10-49	<b>]</b> ":	U• ••••	nuse, furt becharat on of taki got:ated; "T" Transfer; "D" Don > MMPAT Matured bar Towers Ac	tion: +SC+ strai G-14

GSA	FORM NO. 30 3-1-50	Ja GENERAL SERVICES ADMIN	ISTRATION				1. HOLDING	AGENCY NUMBER	2. GSA NUMBER
This Dece	form expl imber 31, 1	BUILDINGS, STRUCTURES, U MISCELLANEOUS FAC	JTILITIES, ILITIES	AND			3. COST TO	THE GOVERNMENT	4. ANNUAL RENTAL
		SCHEDULE A - SUPPLEMENT TO REPORT	OF EXCESS F	REAL PROP	PERTY		3.	PAGE 1 OF THIS	F 1 PAGES SCHEDULE
.INE NÛ.	HOLDING ACENCI BUILDING NUMBER	DESCRIPTION	OUTSIDE DIMENSIONS	FLUOR AREA [®] (SQ. FT.)	NUMBER OF FLOORS [‡]	CLEAR HEAD ROOM	FLOOR LOAD RANGE	RESTR OR GOVER	ICTIONS ON HET TRANSFER OF NMENT INTEREST
( e )	(b)	(c)	( 0 )	<u>(e)</u>		<u>(a)</u>	<u>(h)</u>		(1)
2		Water main. east iron 50", Approximately one (1) mile							· · · · · · · · · · · · · · · · · · ·
4 5 6		thereto.							
7 8									
9 10									
12									
2									
7									
-				}					
-									
								<u> </u>	
	·	TOTAL							
	1	*Prefix figures with symbols to denote	type of space.	as follows	: (a) FOR 0	FFICE; (b.	) FOR STORAG	E; (c) FOR OT	HER (CDC)

NAA FORN-1005 UNITED STATES CONTRACTOR	FORM APPROVED BUDE BUREAU NO. 16R005.3
DECLARATION OF SURPLUS REAL PROPERTY	9. DATE 3 1 Jour 1950
DECLARATION OF SOM ESC MEME FACTOR 25 D.C.)	IO. REPORTING AGENCY NUMBER
TO THE WAR ASSETS ADMINISTRATOR, WASHINGTON 25,000,	HD-1070-M
INPORTANT FE INSTRUCTIONS ON REVERSE FOR COMPLETING THIS FORM	11. WAA NUMBER 1-
· REPORTING AGENCY Department of the Army	12. CISPOSAL AGENCY NUMBER
Corps of Engineers, Washington 25, D. C.	13. REPRESENTATIVES TO CONTACT
. PROPERTY IDENTIFICATION	
AREA 35.534.59 scree, fee owned land surplus (revised)	
USE OF PROPERTY PRIOR TO ACCUISITION	The EUCATION OF THEE PAPERS
OPINION OF BEST FUTURE USE	15. COST OF PROPERTY
	ACQUISITION 2,091,244.CO (revised
DATE OF ACQUISITION SUBSEQUENT TO	BETTERMENTS S
PRIOR TO 1/1/40         HIXED         12/2//27           - FORMER OWNER         -         -         -	16. PROCEEDS
CAMP BUTNER, N. C.	<b>1</b>
CAMP BUTNER, N. C. This Correction to WAA Form 1005, Reporti 51 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Block 8- Reporting Agency WD-1070-K, was inadvertently om for National Guard Activities. Said tract was, perimeter description.	ing Agency No. ND-1070-X, dated acres of land of Tract C-69-D ina National Guard. The 18 Schedule E, of WAX Form 1005, ditted from the acreage retained however, included within the
CAMP BUTNER, N. C. This Correction to WAA Form 1005, Reporti 31 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Block 8- Reporting Agency WD-1070-K, was inadvertently om for National Guard Activities. Said tract was, perimeter description. SEE SCHEDULE ATTACHED	ng Agency No. WD-1070-X, dated acres of land of Tract C-69-D ina National Guard. The 18 Schedule E, of WAA Form 1005, ditted from the acreage retained however, included within the
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CAMP BUTNER, N. C. This Correction to WAA Form 1005, Reporti S1 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Blook 8- Reporting Agency WD-1070-K, was inadvertently om for National Guard Activities. Said tract was, perimeter description. SEE SCHEDULE ATTACHED DO NOT FILL IN E OF ASSIGNMENT ASSIGNED TO	Ing Agency No. WD-1070-K, dated acres of land of Tract C-69-D ina National Guards The 18 Schedule E, of WAX Form 1005, ditted from the acreage retained however, included within the LEC/ HO 17. AUTHORIZED BY Chief of Engineers
CAMP BUTWER, N. C. This Correction to WAA Form 1005, Reporti S1 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Block 8- Reporting Agency WD-1070-K, was inadvertently om for National Guard Activities. Said tract was, perimeter description. SEE SCHEDULE ATTACHED DO NOT FILL IN E OF ASSIGNMENT ASSIGNED TO HIGNED ST	ng Agency No. WD-1070-X, dated acres of land of Tract C-69-D ina National Guard. The 18 Schedule E, of WAA Form 1005, ditted from the acreage retained however, included within the LEC, HC
CAMP BUTNER, N. C. This Correction to WAA Form 1005, Reporti S1 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Block 8- Reporting Agency WD-1070-K, was inadvertently om for National Guard Activities. Said tract was, perimeter description. SEE SCHEDULE ATTACHED DO NOI FILL IN ASSIGNED TO SIGNED BY CC: South Atlantic Div Engr, Atlanta, Ga	Ing Agency No. WD-1070-K, dated acres of land of Tract C-69-D ina National Guards The 18 Schedule E, of WAX Form 1005, ditted from the acreage retained however, included within the LEC/ HC
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CAMP BUTMER, N. C. This Correction to WAA Form 1005, Reporti S1 May 1949, is for the purpose of adding the 18 to the area now under License to the North Carol acres of said tract as shown on Page 7, Block 8- Reporting Agency WD-1070-K, was inadvertently om for Mational Guard Activities. Said tract was, perimeter description. SEE SCHEDULE ATTACHED DO NOI FILL IN E OF ASSIGNMENT IGNED SY CC: South Atlantic Div Engr, Atlanta, Ga D/Log. GSUSA, Attn: Installations Br JAG, Attn: Installations Br	ng Agency No. WD-1070-X, dated acres of land of Tract C-69-D ina National Guard. The 18 Schedule E, of WAA Form 1005, ditted from the acreage retained however, included within the LEC, HC 17. AUTHORIZED BY Chief of Engineers SIGNATURE OF REPORTING OFFICIAL Zdward J. Fanflik Chief, Management and Disposal Pic Real Estate

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## CAMP BUTNER, N. C.

TOTALS :

Surplus Acreage: (Entire Camp Butner which was declared surplus on Reporting Agency WD-1070-K)
\$ 1,091,244
Acreage withdrawn for National Guard Use: including Rifle Range (Revised) and Cantonment Area.
\$ 232,464.00 Rifle Range 4,840.09 acres (Non-surplus)
1,968.00 ° Cantonment Area · · · · 26.40 acres (Non-surplus)
TOTAL NATIONAL GUARD ACREAGE (Rifle Range & Cantonment Area) 4,866.49
Total acreage for above figures: 40,201.08



G-15

	XE, ATTN:	ENGIH			L		
SA FORN NO. 30	GENERAL SERV	CE DNI NI ST	RATION	1.0.	ATE / ORTED	2. HOLDING	AGENCY NUMBER
This form expires	REPORT	OFEXO	ESS	3-3	TE BECELVED		
December 31, 1950	REAL	PROPER	ΤY	3. 0	ATE RECEIVED	4. GSA CORT	KOL HONDEN
· TO-				ADDRESS 5	0 Whitehall	Street	
GENERAL SI	ERVICES ADMIN	ISTRATION		A	tlanta, Geo	orgia	
. FROM: (Name of	Holding Age	ncy)		ADDRESS			
District Eng	ineer, Cer	pe of ang	Lneers, P. O.		Savanan,	MOLETH	<u>_</u>
W. W. SILEPRESE	ENTATIVE TO B	OPPLAATED	P. O. Box 881	ADDRESS	Georgia		
. NAME OF CUSTODI				ADDRESS			
9. PROPERTY IDENTI	FICATION		······	PROPERTY AD	DRESS AND FULL	LOCATION	
Rew water lir	no and pun	pe		Camp But	ner, Korth	Carolina	
IO. SPACE USE	NUMBER OF	FLOOR ARE	A NUNBER OF	FLOOR LOAD	ULEAR NEAD ROON	11. LAND	ACRES OR SQUARE FEE
(1)	(2)	(3)	141	(5)	[6]		(2)
STORAGE	╂	<u> </u>				a. FEE	+
OTHER (San IAn)	<u>↓</u>	<u> </u>				c. OTHER	+
. TOTAL	<u> </u>					d. TOTAL	
2. GOV'T.INTEREST			10. SPECIFI	T "OTHER" USE	ENTERED IN 10c	Approxim	tely one
. OWNER	A CONTRACTOR OF CALL		mile of a	50" oast is	un water m	in with th	<b>10</b> (2)
. TENANT	1		brands env	i appurtena	mes there		
3. COST TO THE GO	VERNMENT	SCHEDULE	COST	14.	LEASE	HOLD DATA	
BUILDINGS, STRU-	CTURES,	, s		a. TOTAL A	NAUAL RENTAL		\$
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NO-ARF 680.3 (Camp Butner) N.C. 8th Ind (9 Sept 52)

SUBJECT: Disposal of 106 Acres of Excess Land

Hq Depts of the Army and the Air Force, National Guard Bureau Washington 25, D.C.

TO: Assistant Chief of Staff, G-4, Department of the Army, Washington 25, D.C.

The National Guard Bureau interposes no objection to the area involved being declared excess.

FOR THE ACTING CHIEF, NATIONAL GUARD BUREAU:

5 Incl N/c SIGNED

R. R. SEDILLO Colonel, NGB Chief, Army F&C Branch, NGB

Copies furnished: TAG for N.C. USP&DO for N.C.

GL/C2 17892

#### 9th Ind.

SUBJECT: Disposal of 106 Acres of Land, Camp Butner, N.C.

DA, Office ACofS G-4, Washington 25, D.C. Apr 2 1953

TO: Chief of Engineers, Building T-7, Gravelly Point, Va.

It is desired that your office take necessary action to dispose of subject land.

BY DIRECTION OF THE ASSISTANT CHIEF OF STAFF, G-4:

с о Р

5 Incls n/c

#### SIGNED

B. R. WILMER Colonel, GS Chief, Facilities Br. Service Division.

attake G-16

STATE OF SHEROTA

Nace ALL MAR BY THESE PREMERCE: That the United States of American, acting by and through the Adapticisator of General Services, under and purseant to the powers and antherity contained in the provisions of the Pederal Property and Administrative Bervices Act of 1969 (4) State 377); as manded, and regulations and orders provalgated theremder, party of the first part, for and in consideration of the sum of TRUE TROBLED THE HINDRED SIDETY-SIT AND NO/LOO DOLLARS, (\$3,286.00), each in hand paid, the receipt of which is hareby admoniadged, does hereby realang relates, and ferever guitelain unto 5, H. CARPENTER, of Durham, North Carolina, his beirs and assigns, party of the second part, under and subject to the enceptions, restrictions, and repervations of fissionable material and rights, as beeningfter expressed and set out, all its right, title, interest, elais and property is and to all that cortain trust or percel of land, situate, lying and being in the County of Orenville, in the State of North-Carolins, being a part of the former Chap Bather Military Reportation and lying is the morthesebucement of the area reperved for the North Carolina National Justic and heing more particularly described as follows, to-wite

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Segisting at a server essent to Trusts 7-52-0, 7-44-0 and F-47-0 furnerly such by A. S. Corrington intake, tree Avery Tupp, and Lasrone Day requestively accepting to the real estate map of Gaug Buiese Hillingy Reserveties dated April 3, 1950 and propared by Corps of Deditorr, Daited States inty, Orlics of the District ingines, Serversh, Overging these east slong the line between the lands furnerly of Here taking the line between the lands furnerly of Here is between the lands formerly of function Days to the line between the lands formerly of Here between the lands formerly of Full Moore and Lands formerly of Lasrone Day 21, 15 thein the seat formerly of lasrene S 2 degrees to Blanks formerly of Lasrenes Day and lands formerly of Sam Here 25 thelass the lands formerly of Full Moore and Lands formerly of Lasrenes Day 21, 15 thein the between the lasses the lands formerly of Sam Here 25 thelass the last Street Day 21, 15 thein the between the laste formerly of Sam Here 27 thelass the last of the last formerly of stating there 3 12° 1, along the last formerly of the last furnerly of Sam Here 25 thelass the last formerly of Ide Day 10,60 the last formerly of Sam Here 26 the Same between the last formerly of Ide Day 10,60 the last for one last formerly of Ide Day 10,60 the last formerly for the last formerly divertion the last formerly do the sectore proves the state formerly of 0, 7, Hergen is A Sectorely there the last formerly do 0, 7, Hergen is A Sectorely of Last by the and an a strike Sime expression of the state formerly direction and is a strike Sime expression of the state of the state formerly do the last sectored of the state formerly do the met last formerly of thilling the state of the state Shert Lastes and along and last arthreaded through the last formerly of thilling thilles and Freneze Shert Lastes and along and last arthreaded through the

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SUBJECT, MONEYER, to all existing ensemble for rends, higherye, reilroods, pipelines and all public utilities.

A STATE OF CHARGE AND A STATE OF AND

And further excepting from this seaveyence and reserving to the party of the first part, in accordance with generative order 2908, approved on December 5, 1962 (12 7. R. 8223), all uranism, thering, and all other neterials determined purposet to Section 5 (b) (1) of the Atomic Henry Art of 1966 (60 State 761), to be peculiarly eccential to the production of fiscionable materials, contained in thetever concentration in deposite in the lands covered by this instrument which are hereby reserved for the use of the United States, tegether with the right of the United States through its anthorized agents or representatives at any time to enter upon the land and prospect for, sine, and remove the same, making just compensation for any demage or injury occasioned thereby. However, su land may be used, and any rights otherwise, sequired by this dispesition mer be conveloped, as if no reservation of such materials had been mades t that, then such use results in the extraction of any such exterial from the land in quantifies which may not be transferred or delivered without a licence under the stanic energy set of 1946, as it now exists or may have fter to anended, such unterial shall be the property of the Inited States Atomie Inerty Considerion, and the Considerion may require delivery of such material to it by any pressour thereof after such material

the been septented as such from the error in thick is one contained. If the Considerion requires the dolivery of such metarial to it, it shall yay to the person mining or extracting the same, or to such other person as the Considerion determines to be estitled thereto, such sume, including prefits, as the Constanting domes fair and reasonable for the discovery, mining, development, production, entraction and other services performed with respect to such anterial prior to such delivery, but such payment shall not include any ensure on account of the value of such meterial before removal from its place of deposit in nature. If the Constantion does not require delivery of such meterial to its the reservation hereby and be of no further force or affort.

caid land was declared surplus and assigned by the Administrator of General Services for disposal, acting pursuant to the above laws, regulations, and orders.

The above described property was a part of Camp Butner Hilitary Reservation and was used in part as a training and maneuvering area for combat troops, portions of which said property were subject to contamination by the introduction of unexploded and dangerous bombs, shalls, rockets, sines and other charges, either below or upon the surface thereof. The party of the first part, by and through the Corps of engineers, United States Army, has caused the above described property to be inspected and has decontaminated the same to the extent deemed reasonably necessary in the opinion of the party of the first part, and consistent with accounte limitations, and has made certain recommendations pertaining to the use to which the above described land may be devoted and the said recommendations are contained in a Certificate, copy of which is attached hereto and made a part hereof, and the party of the first part by attaching such cartificate does not intend to make, nor shall it be construed to have made, any representations or werranties pertaining to the condition of the land. It is agreed and understood by and between the party of the first part and the party of the second part, and the party of the second part by the acceptance of this instrument of souveyance evidences his understanding of the agreement, that the above described land be restricted to surface use only and excinst sub-surface use.

TO MAYS AND TO HOLD the foregoing described premises, subject, however, to the exceptions, restrictions, and reservations of fiscionable materials and rights, hereinabove expressed and set forth, with all the privileges and appurtementos thereunto belonging mate the said S. M. Carpenter, his beirs and assigns, to their own use and behoof, forever.

IN WITHIN WHICH IN the United States of America has caused these presents to be executed in its news and on its behalf, this the 17th any of August, 1953.

VITI-5555

MI Hayt K. Alston

UNITED STATES OF ANSHICA Asting by and through the Administrator of General Services

1:11 Per se lonal Diversor IV. AN G-16

STATE OF GEORGIA COUNTY OF FULTON )

and the second second second second second second second second second second second second second second second

This the 17th day of August, 1953, personally came before me, EVA W. FULLER, & Notary Public in said county and said state, ILOYO OdMSdL, who, being by me duly sworn says that he is the Deputy Regional Director, Public Buildings Service, General Services Administration, Region IV, Atlanta, Beorgia, an agoncy of the United States of America and that the seal affixed to the foregoing insurmment in writing is the seal of the Deputy Regional Director, Public Buildings Service, General Services Administration, Region IV, Atlanta, Georgia, and that the said writing was signed and scaled by him in behalf of the imited States of America by authority of law; and the said LLOYD Gaussi, acknowledged the said writing to be the act and deed of the United States of America.

Given under my hand and seal this the 17th day of August, 1953.

a star Star & Star Star

Be Bl Ere II 1 sta no Filmatte Hosary Public Georgia, State at Large ty Commission expires April 10, 1954

G-16

## 9800 TSU-CE DETACHNINT NO. 8 NGINESE RANCE CLEARANCE TEAM General Delivery Southern Pines, N. C.

D-NC-418

24 February 1953

# CERTIFICATE OF CLEANANCE

All lands contained in the 106 acre area shown on attached skutch legally discribed as all or parts of tracks F 175 F 8 0 F-6-G, have been given a careful visual inspection and cleared of all dangerous and/or explosive material reasonably possible to detect. Since all the land shows extensive cratering from the use of detect. Since all the land shows extensive cratering from the use of high explosive shells and because many high explosives shells were high explosive shells and it is recommended, that the lands be restricted recovered on the land it is recommended, that the lands be restricted to surface use only and against sub surface use.

2 Me De Grander

1. . . . . . . .

/s/ D. R. Lynch D. R. LENCH Captes C. B. Commanding

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G-16

Contermed Cop

CORTIFICATE OF RECAUNTION

STATE OF NORTH CAROLINA COUNTY OF GRANVILLE

I, the undersigned hereby certify that a Quitelaim Deed dated August 17, 1953, from the United States of America to S. N. CARPENTER, conveying 106 acres, more or less, a part of the former military reservation known as Camp Butner, North Carolina, was duly filed for record in my office at (C:15 of clock ...... me,

on the 22 day of Sept. , 1953, and that said bood

has been recorded in Deed Book 137 at pages 412 to 415 inclusive, thereof, of the public records of sy office.

15/ Flores O. Mann

Grantille County, North Caroline

G-16

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24 February 1953

#### CERTIFICATE OF CLEARANCE

All lands contained in the 106 acres area shown on attached sketch legally discribed as all or parts of tracks F 47G, F 8 G, F=6=G, have been given a carefull visual inspection and cleared of all dangerous and or explosive material reasonable possible to detect. Since all the land shows extensive cratering from the use of high explosive shells and because many high explosive shells were recovered on the land it is recommended, that the lands be restricted to surface use only and against sub surface use.

/s/ D. R. LYNCH Capter OD : 10 Commanding 

G-16

#### LEGAL DESCRIPTION

All that tract or parcel of land, lying and being in Granville County, North Carolina, being a part of the former Camp Butner Military Reservation and lying in the Northeast corner of the area reserved for the North Carolina National Guard and being more fully described as follows:

Beginning at a corner common to Tracts F-52-4, F-46-0 and F-47-0 formerly owned by A. S. Carrington Estate, Mrs. Avery Tapp, and Lawrence Day respectively; thence east along the line between the lands formerly of Mrs. Avey Tapp and the lands formerly of Learence Day 49.11 chains; thence S 2 degrees W. along the line between the lands formerly of Paul Moore and lands formerly of Lawrence Day 11.35 chains; thence 3 68 degrees W. along the line between the lands formerly of Lawrence Day and lands formerly of Sam Moore 25 chains; thence S 12 E. along the line between the lands formerly of Sam Moore and lands formerly of Ida Day 14.17 chains; thence S 71 degrees 15' W. along the line between the lands formerly of 7. M. Moore and lands formerly of Ida Day 10.60 chains; thence 3 67 degrees 30" W. along the line between the lands formerly of W. M. Moore and land formerly of 0. T. Mangum 3.5 chains; thence through the lands of 0. T. Mangum in a Northwesterly direction and in a straight line approximately 14 chains to the most easterly corner of lands of William Waller and Frances Short Estates; thence northwesterly along the line between the lands formerly of Lawrence Day and lands formerly of William Waller and Frances Short Estates and along said line extended through the lands for-.Borly of Lawrence Day to a point in the center of a road for a total distance of approximately 20 chains; thence in a westerly direction along the conter of said road approximately 9 chains to a point directly south of the point of beginning; thence north approximately 4 chains to the point of beginning and containing 106 acres more or less.

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attack 18 Lotal acres

STATE ON VINGTOUR COUNTY OF ARLAUGTON

> THIS INDETUNE made this 270 day of September 1954, between the UNITED STATES OF AMERICA asting by and through , Scoretary of the Army, party of the first cart, under and by virtue of authority contained in the protisions of an Act of Congress approved April 2, 1954 (Public Law 327 -83rd Congress), and the STATE OF MORTH CAROLINA, party of the second part;

QULT PLATM DEED

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#### - : WITNESSETH : -

That the said party of the first part, for and in consideration of the assumption by the party of the second part of all the obligations at its trking subject to certain reservations, restrictions and conditions and its covenants to abide by and agreement to certain other recorvations, restrictions and conditions, all as set out hereinafter, has bargained, sold and does by these presents remise, release and quit claim to the sold party of the second part, under and subject to the reservations, restrictions, conditions, exceptions and rights hereinafter set cut, all its right, title and interest in the following described property situate in Granville and Durham Counties, North Carolina, to-wit:

#### Parcel No. 1.

All that 'reat or parcel of lend lying and beirg in Granville County, North Carolina, being a part of the can-tonement area of the former Camp Futner Filitary Reservation lying approximately four miles west of Greedmoor, North Caro-lina and beirg more particularly described as follows:

Segiming at the point of interaction of the extended center line of S 16th Street with the wasterly right-of-way line of the Southern Railroad, said point being S 51° 40° 40" W 155.55 foet, X 65° 20° 40" W 56.11 feet, and S 51° 40° 40" W 94.80 feet along said railroad right of way line from the center line of Central Arenue; therea from said point of bo-ginning along the westerly right-of-way line of the Souther G-17

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Railread S 51° 40' 40" W 465.51 feet, S 380 19' 00" E 60.00 feet, S 51° 40' 40" W 416.73 feet; there leaving the railread rightof-way N 37° 59' 20" W 381.11 feet to a point in the center line of "A" Street; there along the center line of "A" Street S 51° 41' 40" W 236.75 feet to the point of intersection of said center line with the extended center line of S 14th Street; there N 37° 11' 20" W 348.42 feet to a point in the center line of Western Avenue; there olong the center line of Western Avenue N 51° 41' 40" E 1130.00 feet to the intersection of the center line of Western Avenue; there along the center line extended of S 16th Street; 38° 16' 05" E 670.16 feet to the point of beginning containing 16.30 acres more or less.

Together with the following listed buildings and facilities which are located on the above described Cantonment Aree:

Building No.	Facilities
T-5371	Supply Conter
T-5372	Supply Center
T-5373	Pool, Shop and Storage
T-5374	Pool, Shop and Storage
T-5375	Pool, Shop and Storage
T-5376	Pool, Shop and Storage
T-5377	Pool, Shop and Storage
Nono	Gasoline pump and Fost
	Engineer Utility
	Yard
None	Grense Rack

#### Parcel No. 2.

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All that certain tract or parcel of land lying or being in Durham and Cranville Counties, State of North Carolina approximately 15 miles southwost of Oxford and 7 miles northeest of Durham, No Co, and being more particularly described by motes and bounds as follows:

Beginning at a point on the west right-of-way line of West Kange Road, said point bein Stake No. 20 and being N 68° 28' 40" E 182 feet from conserts monument No. 21, said monument No. 21 being on the western line of the former Camp Future Hilltary Heservation and also feing on the south line of Truct No. 3-75-D and being the northwest corner of Truct No. 3-75-D and being the northwest corner of Camp Butner Military Reservation dated April 3, 1950, and prepared by Corps of Engineers. United States Army, Office of the District Engineer, Savennah, Georgia, and also being approximately 2.5 miles southeesterly from Manten, Dunhar Jourty, North Carolina; thence along said right-of-way M 11° 11' 55" T 261' to Stake No. 16; there N 6° 23' Of" E 190' to State No. 17; thence N 6° 23' GOU' to Stake No. 16; there N 9° 56' OF" E GOU' to Stake No. 16; there N 9° 56' OF" E to Stake No. 15; thence N 7* 031 55" E 5181 to Stake No. 11; thence N 0* 501 04" W 3261 to Stake No. 13; thence N 19* 281 02" W 571 to Stake No. 11; thence N 19* 281 02" W 251 to Stake No. 11; thence N 26* 081 31" W 4151 to Stake No. 10; thence N 45* 281 00" W 6421 to Stake No. 6; thence N 31* 281 20" W 4051 to Stake No. 7; thence leaving said right-of-way, N 63* 191 57" W 4051 to Monument No. 6,2" on the east side of a county road; thence along east side of county road; N 1* 001 40" E M141; thence N 4* 061 E 1461; thence N 3* 231 E 1024; thence N 1* 20' 10" E 50.7"; thence N 4* 444 50" E 2521; thence N 12* 25' 20" E 1731; thence N 5* 26' 40" E 198; thence N 3* 23' E 1024; thence N 4* 57' 10" E 176'; thence N 3* 11* 20" W, 130; thence N 12* 25' 20" E 1731; thence N 55* 26' 40" E 198; thence N 1* 05' W 196'; thence N 4* 57' 10" E 176'; thence N 3* 11* 20" W, 130; thence N 23* 35' 20" W 146'; thence N 55* 02' 40" W, 151; thence N 32* 34' 10" W 132'; thence N 30* 03' 20" W 343'; thence N 26* 44: 40" W 146'; thence N 33* 17' 30" W 26' 44: 40" W 146'; thence N 33* 17' 30" W 26' 44: 40" W 146'; thence N 30* 15'; thence N 26' 44: 40" W 146'; thence N 39* 07'; thence N 26' 44: 40" W 146'; thence N 39* 17' 30" W 26' 15'; thence N 0' 16' 40' 20' W 367'; thence N 26' 44: 40" W 146'; thence N 39* 17' 30" W 26' 10" W 132'; thence N 0' 6' 31' 50" W 301'; thence N 37* 52' 20' W 314'; thence M 59* 00' 30" W 119'; thence N 0' 16' 40' 20' W 36'; thence leaving East side of County Read, M 0* 59' 40" E 797'; thence N 2' 19' 30" E 60%'; thence along the center Aime of said County Read, N 43* 16' 30" E 402' to the intersection of the center line of Hempton Read; thence M 89* E 352'; thence N 8' 45' E 23'; thence S 87* 15' E 1396; thence A 12' 45' E 23'; thence S 87* 15' E 1396; thence A 12' 45' E 23'; thence S 87* 15' E 1396; thence A 12' 45' E 23'; thence S 87* 15' E 1396; thence A 12' 45' E 23'; thence S 7* 15' E 1396; thence N 2' 5' S 30' E 2695' to a point on the center line of Tract No. F=00-b; thence A 12' 45' E 23'; thence N 372* to a point which is the East corner net No. F-3-6; thence along the Southern Mary of Tract No. F-52-0 approximately 1973 to a point on the north line of Tract No. G, the Southeest corner of Tract No. G and the Southeest corner of Tract No. G; thence through Tract No. F-47-6 South eximately & chains (26% feet) to the center road; thence easterly along the renter of read approximately 9 chains (59% feet) to

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a point in the easterly lite of Track No. Febru extended Worshwertwily: themes S Nº E Approxim-mately 20 chains (1320 feet) along said extended easterly line and the easterly line of Track No. Peter to a point on the porth line of Track No. earticly line and the earth of line of That We. Peters to a naint on the north line of That We. Fend: there through That Peters 20° E approxi-enter of That We. Felled: there along the Eastern bundary of That We. Felled: there along the Eastern bundary of That We. Felled: There along the Eastern bundary of That We. Felled: There along the Eastern bundary of That We. Felled: There along the Eastern bundary of That We. Felled: There along the Eastern bundary of That We. Felled: There along the Settern bundary of That We. Felled: The Settern of That We. Felled: there along the Settern bundary of That We. Felled: the Northern bundary of That We. Felled: Solar W 162' to a point which is the Westernmost corner of That No. Felled: there along the Mertern bundary of That We. Decled: Solar to a point which is the Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of That We. Southernast corner of Thet We. Southernast corner of That We. Southernast corner of That We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of The Southers Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of Thet We. Southernast corner of the Southernast corner of Thet We. Along the partern boundary of tract No. Defect in a meandaring Southeastorn direction 30001 to a point which is the Esternmost corner of Tract No. Defect thance N 80° E 1001 to a Creek sever-ing Tract He. Debact thouse in a mandering Southwastern direction along said Treek, 900 to a Branch on the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Northernmost boundary of Tract No. Debect the Southeastern boundary of Tract No. Tract No. Debact of Tract No. Debact in a point which is the Southeastern corner of Tract No. Trace and the Southeastern corner of Tract No. Trace and the Southeastern corner of Tract No. Trace and the Southeastern corner of Tract No. Trace and the Southeastern corner of Tract No. Trace No. Debact the Northeastern corner of Tract No. Debact the Northeastern corner of Tract No. Debact and the Mastern hound neary of Tract No. Debact and the Mastern hound neary of Tract No. Debact and the Mastern hound neary of Tract No. Debact and the Mastern hound No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact the Northweatern corner of Tract No. Debact No. Deced Stat the Northweater boundary of Tract 
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No thisentory direction 1750: to a point in Star Rad, which is the Merthwestern conner of Tract Me. Del5-6; thence along Stem Poad, which is the Southern boundary of Tract No. Del5-6, N 80° W 1030: to a point in Stan Road, which is the Northwestern corner of Tract Me. Delse; thence leaving Star Road to 2.3/4° W 990: along the Rostern boundary of Tract No. Del5-6 and the Mestern boundary of Tract No. Del2-6, to a point which is the Perturbation corner of Tract Ceo6-6; thence 2.85° M 16501 along the Southern boundaries of Tract No. Ce76-D26 and the Northern boundary of Tract No. Ce76-D26 and the Northern boundary of Tract No. Ce76-D26 and the Northern boundary of Tract No. Ce76-D26 and the Northern boundary of Tract No. Ce77-7; thence S 35° M 851' to a point in a road which is on the Northern boundary of Tract No. Ce77-7; thence along snin Fract No. Ce69-7; thence Northern boundary of Tract No. Ce69-7; thence Northern boundary of Tract No. Ce69-7; thence along snin Fract No. Ce69-7; thenc

The above accorded parcels being the same proparty now utilized by the State of North Caroline National Quard as a general tiring range.

EXCEPTING, HOWEVER, from this conversion and reserving to the patty of the first part, in accordance with Excentive Order 9901, approved on personal 5, 1907, (12 Fe Re 3223), all unwriter, toophars antiall other materials determined personal to dection > (F) (1) of the Atomic Shergy Act of 1906 (of state 762), to be pocultarily estential to the production of fissionable material, contained, in-whatever

Concentration, in deposite in the lands covered by this instaurant, which are hereby reserved for the use of the United states, together with the right of the "hited states through its authorized agents or representatives at any time to enter upon the land and prospect for, mine, and remove the same, making just compensation for any dendge or injury obtaioned thereby. However, such Land may be used, and any rights otherwise acquired by this disposition may be exercised, as if no reservation of such materials had been made; except that, when such use results in the extraction of any much material from the land in quantities which may not be transferred or delivered without a license under the Atomic Energy Act of 1965 as it now exists or may nereafter be amended, such material shall be the property of the inited States Atomic Energy Commission, and the Commission may require oplivery of

10 such material to it by any possessor thereof after such material has been separated as such from the ores in which it was contained. If the Commission requires the delivery of such material to it, it shall pay the person mining or extracting the same, or to such other person as the Commission determines to be entitled thereto, much size, including profits, as the Commission deeps fair and reasonable for the discovery, mining, development, production, extraction, and other services performed with respect to such material prior to such delivery, but such payment shall not include any mount on account of the value of such material before removal from its place of deposit in nature. If the Commission does not require delivery of such material to it, the reservation hereby made shall be of no further force or effect.

And further excepting from this conveyance and reserving to the party of the first part, as required under said Public Law 327 = 83rd Congress, all mineral rights, including gas and oil, in the land moreline above described.

TO HAVE AND TO HOLD the said premises with appur Lenances there-

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unto belonging, except the fissionable materials and mineral rights, including gas and oil excepted above, and under and subject to the reservations, restrictions and conditions set forth in this instrument unto the said party of the second part forever.

By the acceptance of this deed or any rights hereunder, the said party of the second part agrees that the property transferred by this instrument is accepted, subject to the following restrictions set forth in sub-paragraphs (1) and (2) of this paragraph, which shall run with the land and which are imposed as a requirement under and by virtue of said Public Law 327 - 83rd Congress, approved April 2, 1954:

(1) That the land, buildings, structures, improvements and facilities in which this instrument transfers any interest shall be used for military purposes only, and in the event it shall not be used for such purposes, title thereto shall immediately revert to the United States, and, in addition, title to all improvements made by the party of the second part during its occupancy shall vest in the United States without payment of compensation therefor.

(2) That whenever the Congress of the United States shall declars a state of war or other national emergency or the President declares a state of emergency to exist and upon the determination by the Secretary of Defense that the property herein conveyed is useful or necessary for military, air or naval purposes, or in the interest of national defense, the United States shall have the right, without charge, except as indicated below, to re-enter upon the property and use the same or any part thereof, including any and all improvements 11 made by the party of the second part for a period not to exceed the duration of such state of war or national emergency, plus six months, and upon cossetion of such use, such property shall revert to the party of the second part, together with any and all improvements thereon and appurtenances appertaining thereto, subject to all exceptions, reservations, restrictions and commitions of this conveyance; PROVIDED, HOMEVER, that the United States shall be responsible during the period of su

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the mitire cost of maintaining all of the property so used, and shall, pay a fair rental for the use of any structures or other inprovements which have been added thereto without Federal aid.

IN WITHERS WARRENT, the United States of America has caused there presents to be executed in its name by the Secretery of the army, and the geal of the Department of the Army to be hereinto affixed, this

27. the cay of September , 15540

SFAL OF THE DEPARTMENT OF THE LEMI

STATE OF VISCIULA CONSTRUCT OF APLIE STOR

, a Hotrry Fublic in and L. K. F. Spade for the State of Virginia and County of Arlington, so hereby certify , Secretary of the Department that pohert T. Stevens or the intry personally spowed before me this day and acknowledged the one execution of the slove and incaming instrument.

user was an hand and oppicial seel this 27th any or difficulty

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a. 7. Spark

UNITED STATES OF AMERICA

Secretary of the Army 1

Ny Consission DEPRESS

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Arter 7, 1985

AGUEFTANCE OF GEAT CLAIM DUT

The undersigned, sating for and in behalf of the State of Worth Carolina under and by virtue of authority conferred under the Laws of the State of North Carolina, do hereby accept that certain Quit Chein peed executed by the Secretary of the Army on the 27 day of <u>Reputerbound</u> 1955, under authority of Public Law 327 - 53rd Construing, approved 1991. 2, 1956, and which said conveyance Quit clains unto the State of Ponth Carolina a portion of the former Camp Euther Military Benervation, while a more fully accorded in said conveyance.

IN WITHESS WEREDF, the undersigned has hereinto excepted these presents for and in behalf of the State of North Carolina and cancel the Seal of the State of North Carolina to be affixed, this 2.7 day of October , 195he

STATE OF MORTH CAPOLIDIA

NORTH CAROLINA: WAKE COUNTY :

12

I, Claire Eastman Nickels, a Notary Public in and for said County and State, do hereby certify that William B. Unstead Governor of North Carolina, personally appeared before me this date and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal on this the 27th day of October, 1954.

Claire to stary Public

G-17

My Commission expires 1-1-0

Filed for registration this 26 day of Nov. 1954 at 9:10 o'clock a.m. and Registered in the Office of Registar of Deeds for Granville County, N. C. Book No. 140 Page No. 236.

Flora O. Mann Register of Deeds

#### North Carolina - Durham County

The foregoing certificates of A. F. Jpada, a Notary Public of Arlington County, Virginia and of Claire Eastman Mickels, a Motary Public of Wake County, attested by their notarial serils, are adjudged to be correct. Let said instrument with all certificates be registered.

Witness my hand this the 7th day of December, 1954,

Ass't Clerk Superior Court

North Carolina-Durham County 

M. G. Brooks, Register of Deeds M. Celcling & Deputy, Register of Deeds By t. ..

NORTH CANDLINA-DURHAM COUNTY THE FOREGOING CERTIFICATE OF CLAURE Pastonen Nickelo HOTARY FUELD OF Wake County ATTESTED NORTH 1 DE CORIECT. LET THIS BY HIS GOTING & SALE 7; INSTRUMENT WITH ALL OF LE HEAD WITHESS WIT IT IN THIS IT I ... I November 1954 Marganet R Rest Deputry ALLEA SCHLIGER LUG.

NORTH CAROLINA DUBLIAM DOUGH Bled for registration at 12 ticlork 1. At Nord 1719 S Kind registerned in the office of the Register of Dada for Durian

County in Bank 72 2 June 70-71-72. NOU.1719. 7ð C.

## North Curolina,

Granville County.

In deference to an opinion by Honorable Harry Meinlian, Attorney General of North Carolina, the foregoing cortificates of A. F. Spada, a notary public of Arlington County, Mirtinia, and of Claire Eastman Mickels, a notary public of Wake County, North Carolina, attested by their respective notarial seals, are adjuized to be sufficient.

Lot the instrument and the certificates be re-

### -isterod.

Witness my hand, this 24th day of November, 1954.

Clerk Superior Court,

Granville County G-17

Filed for registration this _ 2.6 ...... Nov 1957 09:10 o'clock M. and Registered in the Office of ... Registrated Deeds for Granville County, N. C. LOJK Not 40 Page No. 234

NORTH CAROLINA DURHALI COUNTY Filed for registration at LL Scieck A M NA 4 19 Sand registration the of flog of the Rugister of Dent for Purlam County in Book 223 Page 5 JEPLA - 105519

REMETER OF DELDS

Report Fee

United States of Rimerica To State of North Corolina

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NORTH CAROLINA DURITAN COUNTY Elled for registration at /2 octood P Me Moor 1/7 19 74 and registered in the abtice of the Register of Decids for Durham. County in Book 2220 0 70 NOV 17 19 54

ADS /wmi



4 January 1968

SASRC

SUBJECT: Final Audit of Land Records, Camp Butner, N. C., Audit 5087

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THRU: Division Engineer U. S. Army Engineer Division, South Atlantic Atlanta, Georgia ATTENTION: SADRO

TO: Chief of Engineers Headquarters, Department of the Army Washington, D. C. ATTENTION: ENGLH

1. The final audit of Camp Butner, N. C., has been revised to show complete disposal of the installation.

2. Inclosed is revised Sheet 1 of Final Audited Map showing disposal of 106.00 mores to S. M. Carpenter, and 4,750.39 mores to the State of North Carolina.

3. The acreage of area on which accountability was reassumed by the Department of the Army on 26 March 1948 has been corrected to read 4,856.39 acres instead of 4,866.49 acres, a decrease of 10.10 acres. This was due to an error in reporting the acreage redeclared as surplus to War Assets Administration on WAA Form 1005, Reporting No. WD 1070-J. The area described actually contained 18.52 acres instead of 8.42 acres, leaving 16.30 acres instead of 26.40 acres to be retained for the cantonment area of the North Carolina National Guard. Since there were no changes of the boundaries of the areas involved, but only a correction of acreage and, since the entire project has been disposed of, no other corrective action has been taken.

4. It is requested that this office be advised as to approval of the above and be authorized to show the installation as CLOSED.

FOR THE DISTRICT ENGINEER:

l Incl Rav.Sheet 1, Dwg. 659-29 (in quad)

ALBERT D. WOODLE, JR. Chief, Real Estate Division

attack >1 G-18



SASRF 601.1 (5 Apr 50) 6th Ind SUBJECT: Final Audit of Land Records re: Camp Butner, North Carolina

Corps of Engineers, Office of the District Engineer, Savannah, Georgia, 19 March 1951

TO: The Division Engineer, South Atlantic Division, Atlanta 1, Georgia

1. Reference is made to preceding 4th indorsement.

2. The audit assembly has been corrected in accordance with paragraphs 1a and 1b.

5. In reference to paragraph 10, it has been determined that accountability was reassumed by the Department of the Army on 4,866.49 we acres for the use of the National Guard on 26 March 1948, Accountability was reassumed by Inventory Adjustment Report, ND AGO Form 444, no formal transfer document having been executed. A permit dated 14 May 1948, and accepted 26 April 1948, was granted to the National Guard for the use of the area and the U.S. Property and Disbursing Officer, North Carolina, assumed accountability for the National Guard on 15 February 1949.

4. In reference to paragraph 1d, custody and accountability was assumed by War Assets Administration on 28 April 1947. A copy of Messageform showing said date is inclosed. The Eng Form 290, Voucher Mo. C-1799-47, dated 28 May 1947, and signed by a representative of WAA under date of 7 October 1947, was delayed due to the amount of time consumed in making the necessary inspections and reports and also to the length of time these reports were held in the office of the War Assets Administration before being signed and returned to the Department of the Army for distribution.

5. A reproducible print and two copies of the Final Project Map are inclosed.

FOR THE DISTRICT ENGINEER:

2 Incls 7 & 8 w/d 9 - Cy Message Form 4-26-47 (in dup) 10 - Map (in trip) H. V. SIKKING Realty Officer Chief, Real Estate Division
SADRC 601.1 Fur Gen1st IndCp Butner, N. C.(4 Jan 58)SUBJECT: Final Audit of Land Records, Camp Butner, N. C., Audit 3037

Division Engineer, U. S. Army Engineer Division, South Atlantic, Atlants, Georgia, 6 February 1958

TO: Chief of Engineers; Department of the Army, Washington, D. C.

ATTENTION: ENGLH

l Incl n/c exc l cy w/d

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#### CAMP BUTNER, NORTH CAROLINA

#### Revised Jurisdiction Summary

Prior to disposal of the 40,201.08 acres fee, 130.91 acres lesser interests (82 easements, 3 licenses, and 2 no area easements) and 52.40 acre leased area, exclusive jurisdiction was vested in the United States over the entire fee area, and jurisdiction was not vested in the United States over the lesser interest and leased areas.

Exclusive jurisdiction over the fee area was ceded to the United States by Act of the General Assembly of the State of North Carolina approved 24 January 1907 (Public Laws of North Carolina of 1907, Chapter 25, page 58, and Section 8059 of the North Carolina Code of 1939, Annotated, Michie) over the entire fee area acquired for use in connection with this installation.

Vesting of jurisdiction in the United States was effected by notice of acceptance issued by the Secretary of War on 4 November 1943 applicable to .50 of an acre fee of this installation (Tract A-38a-D) and on 21 April 1943 applicable to the balance of the fee area of this installation. These letters were duly acknowledged by the Governor as of 8 November 1943 and 4 May 1943 respectively.

The cession statute reserved to the State of North Carolina the right to serve civil and criminal process over all areas ceded to the United States.

The cession statute of North Carolina was applicable only to lands title to which had been acquired by the United States and did not include areas over which the United States had obtained easement and licensee interests but title to which remained vested in parties other than the United States. The War Assets Administration assumed accountability over these areas on 26 April 1947.

Jurisdiction over 1,864 acres fee retroceded to the State of North Carolina by operation of law pursuant to the cession statute upon conveyance of 1,864 acres fee by War Assets Administration to the State of North Carolina (N. C. Hospitals Board of Control) on 27 December 1948, conveyance of 106.00 acres fee by GSA to S. M. Carpenter by quitclaim deed dated 17 August 1953, and conveyance of 4,750.39 acres fee by Department of the Army to the State of North Carolina by quitclaim deed dated 27 September 1954.

All land acquired for use in connection with this installation has been disposed of.

28 February 1958 - M. J.

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### CAMP BUTNER, NORTH CAROLINA

### Revised Jurisdiction Summary

Exclusive jurisdiction was ceded to the United States pursuant to an act of the General Assembly of the State of North Carolina approved 24 January 1907 (Public Laws of North Carolina 1907, Chapter 25, Page 58 and Section 8059 North Carolina Code of 1939 Annotated, Michie) over the entire fee area acquired for use in connection with this installation.

Vesting of jurisdiction in the United States was effected on 8 November 1943 over .50 of an acre fee (tract A-38a-D), and on 4 May 1943 over the balance of the fee area by acknowledgment of letters of acceptance from the Secretary of War to the Governor.

The cession statute reserves to the State of North Carolina the right to serve civil and criminal process over all areas ceded to the United States.

Jurisdiction over the lesser interest and leased areas remained vested in the State of North Carolina.

30 April 1953 - MJ/mb

### WAR DEPARTMENT

### WASHINGTON

CE 680.2 (North Carolina, State of) SPELS P

Honorable J. Melville Broughton, Governor of North Carolina, Naleigh, North Carolina.

Lear Governor Broughton:

The laws of the State of North Carolina (an act of the General Assembly of the State of North Carolina approved January 24, 1907 (Public Laws of Morth Carolina, 1907, p. 58; sec. 0059, North Carolina Code of 1939, Annotated, Michie)) permit the assumption of exclusive Federal jurisdiction over lands within that State acquired by the United States for military and certain other purposes.

Under section 355, Revised Statutes, as amended by the oct of February 1, 1040 (54 Stat. 19), and by the act of October 2, 1940 (54 Stat. 1083; 40 U.S.C. 255), it is provided in effect that unless and until the United States has accepted jurisdiction over lands acquired or in which any interest shall have been acquired after February 7, 1040, it shall be conclusively presumed that to such jurisdiction has been accepted.

Coordingly, notice is hereby (iven that the chited States cocepts exclusive jurisdiction over all lands sequired by it for military purposes within the State of North Carolina, title to which has heretofore vested in the United States, and over which exclusive jurisdiction has not Caretofore been obtained.

Coturn of the duplicate body of this latter, with over inconservent thereon designating time of model to of this completed by your office, would be exprediated.

inderely jours,

ecretary of war.

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APR 21 1943

Homorable J. Helville Broughton, Governor of North Carolina, Raleigh, North Carolina.

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Dear Governor Broughton;

The laws of the State of North Carolina, (An act of the General Assembly of the State of North Carolina approved January 24, 1907 (Public Laws of North Carolina, 1907, p. 56; sec. 8059, North Carolina Code of 1939, Annotated, Michie)), permit the assumption of emulusive Pederal jurisdiction over lands within that State, acquired by the United States for military and certain other purposes.

Under section 355, Hevised Statutes, as amended by the act of Pebruary 1, 1940 (54 Stat. 19), and by the act of October 9, 1940 (54 Stat. 1083; 40 U. S. C. 255), it is provided in effect that unless and until the United States has accepted jurisdiction over lands acquired or in which any interest shall have been acquired after Pebruary 1, 1940, it shall be conclusively presumed that no such jurisdiction has been accepted.

Accordingly, notice is hereby given that the United States eccepts exclusive jurisdiction over all lands acquired by it for military purposes within the State of North Carolina, title to which has heretofore vested in the United States, and over which exclusive jurisdiction has not heretofore been obtained.

It is requested that you return the inclosed copy of this letter, with an indorsement thereon over your signature stating the data of your receipt of this notice.

Sincerely yours,

HENRY L. STLASUS

Secretary of War.

<b>s</b> he	The Office of	original of the Governor	this letter of accept on the <u>4</u> day o	ance was received	in DE 43
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### QUITCLAIM DEED

STATE OF VIRGINIA ) COUNTY OF ARLINGTON )

THIS INDENTURE, made this  $30^{\circ}$  day of <u>octoBER</u> 1968, by and between the UNITED STATES OF AMERICA, acting by and through the Secretary of the Army under and pursuant to Public Law 90-192, 90th Congress, dated 14 December 1967 (81 Stat. 579), party of the first part, and the <u>STATE OF</u> NORTH CAROLINA, party of the second part:

### - WITNESSETH -

WHEREAS, by Quitclaim Deed dated 27 September 1954, the party of the first part under and by virtue of authority contained in the provisions of an Act of Congress approved 2 Apil 1954 (Public Law 327, 83rd Congress), conveyed unto the arty of the second part certain tracts or parcels of landying and being in Durham and Granville Counties, State of with Carolina, being a portion of that land formerly know as the Camp Butner Military Reservation and which said decears recorded in the public records of Durham County, Nort Carolina in Book 222, pages 70, 71, 72, 73, 74, 75, 76 and 7, and Granville County, North Carolina in Book 140, pag 230, 237, 238, 239, 240, 241, 242 and 243, and contained a povision that the land and improvements therein conveyed

> M. On purty of the second part desires to construct solar supply purposes on lands owned by the party of

the second part, the construction of which said dam will cause a portion of the land conveyed in the aforementioned deed to be inundated.

NOW THEREFORE, the said party of the first part for and in consideration of the sum of SEVEN THOUSAND SEVEN HUNDRED DOLLARS (\$7,700), in hand paid, the receipt of which is hereby acknowledged, has bargained, sold and does by these presents bargain, sell, remise, release and forever quitclaim to the party of the second part, their successors and assigns the right to inundate the following described property situate, lying and being in the County of Granville, to-wit:

All that tract or parcel of land lying and being in Granville County, North Carolina, being a part of the North Carolina National Guard Firing Range, located within the boundaries of lands formerly known as Camp Butner. The said parcel or tract encompasses that part of the John Umstead Hospital water supply lake that is within the North Carolina National Guard boundary and being more particularly described as follows:

BEGINNING at an iron, corner of N. C. National Guard and J. C. Scott, said corner being the southwest corner of the J. C. Scott land; thence a new line across N. C. National Guard N 81° 50' W 700.53 feet to a point; thence N 47° 27' W 1094.08 feet to a point; thence N 13° 24' W 1505.99 feet to a point; thence N 42° 06' W 950.16 feet to a point; thence N 67° 26' E 481.90 feet to a point; thence N 42° 46' W 1723.13 feet to a point; thence N 7° 01' E 672.03 feet to a point; thence N 50° 30' W 708.90 feet to a point; thence N 18° 19' W 749.90 feet to a point; thence crossing Knapp of Reeds Creek N 70° 43' E 127.13 feet; thence S 56° 05' E 2106.40 feet to a point; thence S 37° 30' E 898.72 feet to a point; thence N 78° 19' E 1212.28 feet to a concrete monument; corner of the N. C. National Guard and Gantt Oil Company; thence with the property line of N. C. National Guard S 34° 04' E 170.09 feet to a concrete monument; thence S 4° 05' E 100.04 feet to a concrete monument; thence

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N 89° 34' W 179.91 feet to a concrete monument; thence S 85° 41' W 141.94 feet to a concrete monument; thence S 47° 40' W 129.98 feet to a concrete monument; thence S 46° 19' E 223.13 feet to a concrete monument; thence \$ 10° 25' W 233.06 feet to a concrete monument; thence S 17° 40' W 154.03 feet to a concrete monument; thence S 29° 55' W 146.01 feet to a concrete monument; thence S 82° 17' E 123.06 feet to a concrete monument; thence S 54° 57' E 300.18 feet to a concrete monument; thence a new line across N. C. National Guard S 67° 25' W 556.00 feet to a point; thence N 64° 43' W 543.02 feet to a point; thence S 0° 34' W 1519.08 feet to a point; thence S 78° 36' E 384.59 feet to a point; thence S 21° 24' E 1449.96 feet to a point; thence N 64° 40' E 618.73 feet to an iron; corner of N. C. National Guard and J. C. Scott, said corner being the northwest corner of the Scott land; thence with the line of N. C. National Guard and J. C. Scott S 12° 42' W 863.30 feet to the beginning, containing 170.66 acres, more or less.

This conveyance is subject to the condition that the Party of the Second Part, its successors and assigns indemnify and save the Party of the First Part harmless against any and all liabilities for injury to any person who trespasses during any period of notice that the National Guard Firing Range is in use, and which notice is to be furnished to the Business Manager, John Umstead Hospital, Butner, North Carolina.

EXCEPTING, however, from the conveyance and reserving to the party of the first part the right to use the land described above and any improvements thereon without rental consideration in the event the Congress of the United States or the President of the United States shall declare a state of war or other national emergency.

TO HAVE AND TO HOLD all and singular the premises herein before described unto the said party of the second part, their successors and assigns forever.

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IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name and on its behalf by the Secretary of the Army and the Seal of the Department of the Army to be hereunto affixed as of the day and year first above written.

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UNITED STATES OF AMERICA

(SEAL)

Stendy R. Rear BY:

Signed and sealed in the presence of:

ill Baulen 1 A. Moll.

STATE OF VIRGINIA ) ) COUNTY OF ARLINGTON )

Witness my hand and official seal this <u>30th</u> day of <u>October</u> 1968.

Notary Public

My Commission Expires: tryd T. Ferd, Kolary Public aly of Arilagton Compared Arilagton Compared Arilagton Arithmetical Arithmetical Society (1971) NORTH CAROLINA

GRANVILLE COUNTY

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THIS AGREEMENT, made this the <u>11th</u> day of March, 1968 by and between the STATE OF NORTH CAROLINA, party of the first part, and W. T. GANTT & SONS, INC., party of the second part;

AGREEMENT

### $\underline{W} \underline{I} \underline{T} \underline{N} \underline{E} \underline{S} \underline{S} \underline{E} \underline{T} \underline{H}:$

That whereas, the parties hereto are the owners of adjoining lands situate in Dutchville Township, and possibly Tally Ho Township, in Granville County, North Carolina, the lands of the party of the first part being described in that certain deed from the United States of America to the State of North Carolina, which said deed is of record in Deed Book 140, at page 236, in the office of the Register of Deeds of Granville County, and the lands of the party of the second part being described in that certain deed from Charles A. Gantt to the party of the second part and also two certain deeds from W. T. Gantt and wife, Louise W. Gantt, to said party of the second part, which said three deeds are of record in Deed Book 157, at pages 170, 171, and 172, respectively, in the office of said Register of Deeds; and

Whereas, some question has arisen concerning the dividing line between the party of the first part and that of the party of the second part; and

Whereas, it is the desire of the parties hureto definitely to fix and establish the boundary line between said partles; and

Whereas, the North Carolina Adjutant General's Department has authorized and approved this agreement; and

Whereas, the Governor and Council of State of North Carolina at a meeting held in the City of Raleigh, North Carolina, on the <u>26th</u> day of <u>February</u>, 1965, approved this conveyance and directed execution of the instrument:

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Now, therefore, the said parties of the first and second part, in consideration of the premises and the sum of \$10.00, each to the other in hand paid, the receipt of which is hereby acknowledged, do hereby covenant and agree that the boundary line between the lands of said parties shall be

as follows:

BEGINNING at concrete monument on the east bank of Dickens Creek, concrete monument 41 as shown on plat of survey of National Guard property by Boney and Newcomb, Raleigh, North Carolina, said point being the common corner of the property of Odell, Winnie and Albert Nelms, W. T. Gantt and Son and the State of North Carolina; running thence along the common line of W. T. Gantt and the State of North Carolina along the east side of Dickens Creek North 2 degrees 22 minutes 29 seconds East, 100.04 feet to concrete monument 40; thence North 27 degrees 36 minutes 41 seconds West, 170.09 feet to concrete monument 39; thence South 84 degrees 46 minutes 34 seconds West, 410.00 feet crossing the run of Dickens Creek to concrete monument 38A; thence North 9 degrees 53 minutes 26 seconds West, 297.30 feet to concrete monument 38; thence North 5 degrees 09 minutes 26 seconds West, 400.30 feet to concrete monument 37; thence North 10 degrees 44 minutes 26 seconds West, 919.00 feet to concrete monument 36; thence North 24 degrees 59 minutes 26 seconds West, 360.65 feet to concrete monument 35; thence North 25 degrees 44 minutes 26 seconds West, 358.15 feet to concrete monument 34; thence North 27 degrees 23 minutes 26 seconds West, 456.18 feet to concrete monument 33; thence North 5 degrees 58 minutes 57 seconds West, 338.00 feet to concrete monument 32; thence North 62 degrees 57 minutes 03 seconds East, 397.75 feet to concrete monument 31, said monument being the southwest corner of lot 15 in the division of the Sam Moore lands as shown on plat by B. E. Green made in March, 1916 and said monument being the southwest corner of tract F-10-G as shown on the real estate map of Camp Butner by the U. S. Army Corps of Engineers dated April, 1950; running thence North 17 degrees 2 minutes 57 seconds West, 749.50 feet along the western line of lot 15 or tract F-10-G and along the eastern line of tract D-68-G to concrete monument 30, the northwest corner of lot 15 and tract F-10-G and the southern most corner of tract F- $\dot{D}$ -G; thence North 72 degrees 42 minutes 03 seconds East, 462.00 feet to concrete monument 29, the southwest corner of lot 14 of the Sam Moore property and tract F-9-G on the real estate map of Camp Butner; thence North 8 degrees 46 minutes 57 seconds West, 1870.30 feet along the western line of lots 14, 13 and 12 of the Sam Moore property and tracto FAG-G. F-11-G and F-S-G and along the eastern line forset F-A-W as shown in the rial estate map of Comp Butner is more the monument will the northwestern corner of trust 12 of the Jum Moore privately and tract F-2-3 and a corner in tract F-6-3 of the real estate map of Camp Buiner, said monument is also the sutneestern corner of the property of S. M. Carpenter and the most western corner of the property of W. T. Gantt.

- 2 -

It is mutually understood and agreed by and between the parties hereto that the line hereinabove fixed shall be the eastern line of the property of the party of the first part and the western line of the property of the party of the second pagt, and the said party of the first part does hereby bargain, sell and convey unto the said party of the second part, all of the land in which it has any interest whatsoever lying east of said line; and the said party of the second part does hereby bargain, sell and convey unto the said party of the first part all land in which it has any interest whatsoever lying west of said line.

In further consideration, the party of the second part does hereby give and grant unto the party of the first part and to its successors and assigns, the right and privilege of ingress, egress and regress over and along all existing roadways on said tract or parcel of land now belonging to the party of the second part; however, it is expressly understood, contracted and agreed by the parties hereto that the party of the first part will, at its own expense, repair any and all damages done to said roadways by any of its agents, employees or licensees.

The United States of America acting by and through Stanley R. Resor, Secretary of the Army, hereby joins in the execution of this instrument for the purpose of giving its express consent and acquiescence to the establishment of the division line as hereinabove described.

IN TESTIMONY WHEREOF, the State of North Carolina has caused this instrument to be executed in its name by Dan K. Moore, Governor, attested by Thad Eure, Secretary of State, and the Great Seal of the State of North Carolina to be hereunto affixed, and W. T. Gantt & Sons, Inc., party of the second part, has caused this instrument to be signed in its corporate name by its President and attested by its Secretary, and sealed with its common corporate seal, this the day and year first above written. The United States of America has caused these presents to be executed in its name by the

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Secretary of the Army, and the seal of the Department of the Army to be hereunto affixed, this also the day and year first above written. STATE OF NORTH CAROLINA Governor W. T. GANTT & SONS, INC. By ATTEST: President Canes. Secretary UNITED STATES OF AMERICA By Staly R. Read Secretary of the Army (Seal) APPROVED AS TO FORM: THOMAS WADE BRUTON Attorney General In Partle Stickner Assistant Attorney General

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### NORTH CAROLINA

### WAKE COUNTY

I, Claire Eastman Nickels, a Notary Public in and for the State of North Carolina, County of Wake, do hereby certify that on this the <u>19</u> day of <u>Man</u>, 1968, personally came before me Dan K. Moore, Governor of the State of North Carolina, and Thad Eure, Secretary of State of North Carolina, who being by me duly sworn, says each for himself, that he knows the Great Seal of the State of North Carolina, and that the seal affixed to the foregoing instrument is the seal of the Great State and that the name of the State of North Carolina was subscribed thereto by Dan K. Moore, Governor of said State, and that said Dan K. Moore, as Governor of said State, and said Thad Eure, as Secretary of State of North Carolina was affixed thereto by virtue of a resolution of the Council of State and by the Governor of said State, and that said instrument is the act and deed of the State of North Carolina.

Witness my hand and Notarial Seal, this the 12 day of

Clair Earturn Tickey

My commission expires: 1-15-69

Notary Public

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NORTH CAROLINA

DURHAM COUNTY

the seal affixed to the foregoing instrument is said common seal, and the name of the corporation was subscribed thereto by the said President, and that said President and Secretary subscribed their names thereto, and said common seal was affixed, all by order of the Board of Directors of said corporation, and that the said instrument is the act and deed of said corporation.

Ru Ja-

My commission expires:

1-13-69

G-21

ATE OF VIRGINIA COUNTY OF ARLINGTON

On this 30th day of October 1968, before me, LLOYD T. FORD, a Notary Public in and for the County and State aforesaid, personally appeared STANLEY R. RESOR, to me personally known, who, being by me duly sworn, did say that he is Secretary of the United States Army, that the seal affixed to the foregoing instrument is the Seal of the Department of the Army, and that said instrument was signed and sealed by him on behalf of the United States of America by its authority duly given, and the said STANLEY R. RESOR acknowledged said instrument to be the act and deed of the United States of America.

WITNESS my hand and official scal of office at <u>Arlungton</u>, Virginia.

Ford

Noticy Public in and for Arlington County, Virginia

My commission expires: trys 7. Fild. Xvery Public Lenty of Public My Commission Expires 10 Sept. (27)

G-21

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

APPENDIX H

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NEWSPAPERS/JOURNALS

### APPENDIX H

### NEWSPAPERS/JOURNALS

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### RSDAY MORNING, FEBRUARY 19, 1942.

# **DON BLAMES JERMAN PEOPLE**

### h Envoy Says War Is ainst Individual and Not Hitler in UNC Talk

pel Hill, Feb. 18.-(AP)--"This a war against Adolf Schnickper but against the individual an.' " declared Dr. Alexander on, Netherlands minister to Inited States, in an address afternoof when he traced ggression from the time tabs in the Black Forlans for domination 'lhelmstrasse.

.ning new-lt is age ' he asserted. 'The always struck for tion and the pleaswn through history. . . always ... rike where they see thing they want.

aybe one German is nice, but Jermans spell aggression; three : a regiment, and four-blitz!" or that small minority of Gerr who said they did not ape of the Hitler aggression, he -"why in God's name didn't have guts enough to protest?" dressing a capacity audience emorial Hall at the University orth Carolina, Dr. Loudon was second in a "Victory Series" of

peing presented this win--C C ind spring by the International with a character the strands A.F.

### Memory Honored

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The late Major General Henry W. Butner, native of North Carolina, for whom the new Army cantonment near Durham and Oxford has been named. General Butner, who died In 1937, was born in Stokes County and graduated at West Point in 1898. He served overseas with distinction, winning the Distinguished Service Medal, 'the Silver Star for gallantry and the French Croix de Guerre. At one time he was commandant at Fort Bragg. Work on Camp Butner is now in its preliminary stage.

tions Club, headed by Roger lenium." It was concerned with a who presided this afternoon, internal progress with no budget for speaker was introduced by Dr. army and navy, he said. "We were riment and editor of the pub-asleep-just as other nations were

Goldsboro, Feb. 18 .- Miss Bessie Johr Blacknell, missionary at Nenana, Cr Alaska, spoke to the Woman's Auxiliary of St. Stephen's Episcopal Church Monday afternoon, describ- $\mathbf{D}\mathbf{u}$ ing nightly blackouts at Nenana Edwa was which last from 3 p. m. to 9 p. m. Navy Since war has been declared it is Buen very hard to obtain articles in Dunr Alaska which have to be shipped Hit in, said Miss Blacknell, who is on a Quin tiffed year's leave of absence from St. Mark's School for Indian children Navy Si at Nenana. She said that food is becoming bom! so scarce that all persons who do abou not have to remain in Alaska are arid being brought to the states. To- with Ki matoes sold for 50 cents a pound, and last summer she and four mate friends paid \$3 for a watermelon. Th base she said. time HEARING IS SLATED after IN ANTI-TRUST CASE siste wree Wilson, Feb. 18. -(AP)- Federal erin. Judge I. M. Meekins will hear motims  $-\mathbf{Y}$ 

ALASKAN CONDITIONS

DESCRIBED AT MEET

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tions of defendants in the case charging violations of the Sherfor man Anti-Trust Act in the potato here industry at Elizabeth City on Frikno day. emp

G. L. Parker, deputy clerk of Mill Federal Court, announced today that F motions to relieve defendants of beer restrictions of oaths administered riva by the grand jury which examined late them would be heard. mor

The oaths, Parker said, prevents be the defendants from discussing their testimony before the jury even with G their attorneys. Trial of the case 400 is set for Wilson on July 6. Sta

"Be Prepared," Bank's Motto. C T and a tree but thank God who made no chine County Savings Bank is ready an'

THE NEWS AND OBSERVER, RALEIGH, N. C.,



The above "drag line" was the first piece of heavy machinery to be put into use in the construction of Camp Butner, new \$34,000,000 Army camp to be erected between Oxford and Durham. The above scene was photographed near the Henderson-Durham tracks of the Seaboard Air Line Railway, just south of Creedmoor, where workmen of the McCormick Engineering Company and the Sution Construction Company, both of Florida, are engaged in building a railroad spur track to connect the Seaboard with the Southern Railway at Wilkins. The spur track is for the purpose of moving supplies and building materials into the camp area. Construction of the actual camp is expected to begin some time next month.

General Chennualt's Son **Rising Fast in Aviation** While Dad's Busy with Burma "That's great, sin't it?" Max agreed. Pood Rottlee Son May

Feb. 25, 1942

### Draft Kids?

Chicago, Feb. 24.—(P)— Fay W. Hunter of Washington, chief of the farm placement section of the U. S. Employment Service, asserted today it may become necessary to draft school children from the seven planse up to meet the nations farm labor shortage THE NEWS AND OBSERVER, RALEIGH. N. C., SUNDAY MORNING, MARCH 15, 1942.

### ACTIVITY BOOMS AL CAMP R

# Army Camp Workers Go on

nutbi-and-day efforts to propare the en-square mile area for soldier procupation by early fall

Construction was used in how and Ma) James P. S. Develous New construction is exempted if four-and million dollar how million dollar how mere in come the foundations are completed with-ecta inside the area. Awarding of final bids has Monday led to a later when full facts are known, construction econstruction econstruction activity. space-up in construction activity. St was said that those who have the Navy said.

paning will probably be paid for awarded the Medal of Honor: crops planted.

completed and will serve as one of a cam, Franklin Van Valken-Carolina, Vermont, Virginia, and companying fighter planes three principal conduity for institution burgh, 3023 E. Ocean Bivd, Long West Virginia, in addition to Ore-trom Camp Butner into Highway Beach, Calif. from Camp Butner into Highway Beach, Calif. No 11 between Oxford and Dur- xCapt Mervyn S Bennion, Ver Bron and Washington. hate

Creedmoor residents saw the glow et large fires in the area almost nue, Coronada, Calif highly during the week as efforts Lieut-Comdr Samuel G Fuqua. were made to clear evacuated areas 401 N 5th St. Hannibal. Mo guickly for construction

and land sales were held in the strong direct of Fisherty To use rule many more miles when this radius in each of two veries. Orecomor vicinity, and the influx, strong must find the test for the rule many more miles when the radius in each of two veries. and land sales were held in the Arbor, Mich of engineers and laborers into the Broadway Blvd. Battle Creek, Mich of year at incided rates of speed the consists and investigation of the second second second second second second second second second second from their terms and second s being set up and lots purchased for the terection of temporary homes.



front wert of Moscow were Lighten- mendation by Knox ing another grant noose around a Sam Aweau, labor foreman

north of Vyazma. to 20 miles.

### AWARDS Continued From Page One Comdr Cansin Young, when this

blown overboard from his ship when the Arizona explored cliniced back to prevent stations from selling and numerivered his ship to safety, without restriction and running out and nanouvers in an a second supplies within a few days who fought fires about the Arizonal Second Second the Arizonal Second to coverve fuel atocks in UI CUINTERCHINE Creedmoor March 14 - A 168-hour week was thrown into effect at Camp Butter this week as buil-and returned to bis station each time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time. The next day he reclaimed time the Pacific Coast. The nuters forbid delivery of fuel time to how hive Japanese fighter planes time to prove the long range craft abut. The nuters forbid delivery of fuel time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to how hive a station of the next time to

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xFirst Lieut George H Cannod transportation facilities Meanwhile, numerous auctions (Marines) 1110 Olivia Ave, Ann

lingenine to the advantage of the Brinklyn N Y was cut severe: who received Navy crosses William W. Parker, Namar first, country, if the speed of all motor show the face when the impact (f) class, care Mrs. Herbert Seal, Pica- vehicles were lim led to a maximum the first torpedo shattered a wir-" 40 miles per hour and if reguildow on the bridge and int; mich

lations were promulgated requiring blood before he and the other sur-Zhukew's divisions on the central [ Civilians awarded letters of com- liequent checking of tires in order vivors were taken aboaid the re-

the insure their repair or, where cue vessel Southport Man. possible, retreading at the proper-

Third Assistant Engineer Elten William J. Hoffman, shipwright. ' lume formed by Smolensk, \$30 miles west | These civilians were awarded let- | I would greatly appreciate your Hewelt 30 of Southport N C of the capital; Vyazma 80 miles east ters of commendation by the com-upoperation is an effort to achieve who was 'half asieep' when the and shabily north of Smolensk, and mander-in-chief, United States Pa-jurese objectives throughout the first torpedo crashed into the steam-

Maria E Chandler wife of Lieuticy (The the rationing program so of aminship, saw the snip (was means of so one the world that Sweden has under Tomdr W. D. Chandler, John Elemently, which had be not aminship, saw the snip (was means of so one the world that Sweden has under Bahev, some 70 miles almost due cife fleet in an exercise. Sweller wire of condict, whe of condict of the reliance programs to manually have the program was a subscription of the condict of the condi claimed the Nazi ling of retreat in lingson electrician Kenneth B of Price Administrator has been a reached the deck

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was said to be smashing forward in the internet of the among those participation on the part of the gov-[Fig. Louis Salata, ordinary restingtion on the part of the gov-[Fig. Louis Salata, ordinary restingtion on the part of the gov-[Fig. Louis Salata, ordinary restingtion of the second se and the second devery and their state defense man Winber. Pa. Gerald Thibe. Appraria subport of legislation German press is upbrate



Washington, March 14-4P-Theiof these engagements the bomber latest southwest Pacific victory of accounted for nose enersy planes who rought news advard the Arizonal Acting to conserve fuel stocks in American army heavy hombers was accommend for more rises of planes. The Blaine sketical of the milling and Machinist D.K. Box: warrant by lasted areas the War Production American army heavy hombers was the value of the calify dealed areas to be warrant today de-officer, who remained at his post areas installation or as a clinching vindication of War and the milling areas of the war and termed them. officer, who remained at his post when any issued provide installation of as a clinching vindication of War officing to rets. Large numbers of aboard a ship though blinded and have all burners of the set of th

Agbi-and-day efforts to prepare the antimed many many many preparations for the highest destination of the highest area for solidier being the sol New construction is exempted if

yesterday in a communique, took Other biows include: Destruction at the end of February the States affected by the restriction place Wednesday Some earlier air of buildings and rinways at Japa-built correspondent of the L It was said toat there who save an apa- on their spring The following were among those states anected by the restriction place wegnesday some earlier air or buildings and rinways at Japa- on their spring The following were among those are Connecticut, Delaware, Florida, battles in which the American four-meas-held airdromes at Catamus and Gazette write, concident made progress on their spring The following were among those are Connecticut, Delaware, Florida, battles in which the American four-meas-held airdromes at Catamus and Gazette write, concident awarded the Medal of Honor: Georgia, Maine, Maryland, Massa-engine bombers participated left Lae, New Guinea, and of a pier at ports that more German x-Denotes posthumous awards and Name Name North Combine engine to the uniformation without and of a pier at ports that more German x-Denotes posthumous awards acy. New York, North Carolina, quistions as to their vulnerability the latter port

Labons into Creedmort has been Washington, D. C. Denneylyania Rhode Island, South dizzy altitudes unprotected by ac eight presumables fiving more manufacture the molitization would complete and will serve as one of xCapt. Franklin Van Velken Carolina Vermont Virginia and companying fighter names

earlier attacks on the Borneo of beached

port of Balik Papets

The news and require so long to whete inadequately protected oper-jud an Allied offensive through Rubben experts agree that fast build that the multiaty results of attick bases were put out of action ern Norway to create a to driving wastes rubber and that their bonitions were thus parily new new the Mart of the Japanese in- and know Finland out of



OF NAZI AT

Neutral Nation Is Rei Stepping Up Her Prep tions for Emergen

By THOMAS F. HAWK Bern Switzerland, March -Sweden stepped up her The satest tabulation of the neavy

They have lived up to every liansports, the destruction of 35 creased the tension in the circled Scandinavian kingd Considerable numbers of and with crippling a battleshing four The New Guines battle, reported cruisers, 14 transports and a tanker, truop reinforcements were

were arriving in the Stavan. huselts, New Hampshire, New Jer- when reading enemy objectives at. The day before a formation of A Swedish army commun

companying fighter planes eigni presumably nying mote manifiture for some lime vel Two of a formation of five were ited in a communique with setting lost and one damaged in a battle its time of burnts of Solomic lime for Jamtland were the molost and one damaged in a battle its in a communique with saming of Jamtland were the mouth a swarm of Japanete inter, but leaving two Jupanete study prehensive ever held vieters over Celeber, on February but leaving two Jupanete study troops, molectized units a tenters over downed in each of two sinking four on the and one cooperating with civic gue

The table at on exclusion Decem-the Sweder The heavy bumbers carry such ber operations in the Philippines | The much discussed r 1 20 the sharp of the month on provide the Germ The true in the state of the Trees of Concerns Gr H terrentiations in Nervey and the German Battach Summer ton 30 P P S

AUX ment has These are as ints in ner favor. So is som, weath wrone Gerr taisund for iron are would

Some resuble foreign d informants expressed to a the new German press Workington Mar h 14 - 4 - As a might be merely a prejud-

Sweden has undergone



SPEED Continued From Page One

turbed because of lack of sufficient

The following were among those of the individual motorists and? Captain Nonolas Manous r

sing Authority, D. L. Ward, Mayer sing connervy, 17 to which staver ommittee, ffacty Lipnias member ousing director. Vice Chasman W The only head housing embers.

the alleged theft of 12 automobile ires last month were convicted in Sumering Court here today and pere ten nution seufences ranging from 12 months to three years,

is snown as allies of whakie in Knakie', a stage show presented in Duan by soldings of the 39th Infanty, Fert Bibge. The show, acclarged throughout the State, was dresented before noise than 14 REDAVEL BY 1,200 people in Dutiti,

Buthesfoot colleges fifter point

1



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### 3, RALEIGH, N. C., SUNDAY MORNING, APRIL 19, 1924.

Burial was in Fine Hill FINALS EXERCISES OPEN WO r, and music was furnished Mebane Tabernacle Baptiat AT DUNN SCHOOL FRIDAY quartet. MU.TON JONES.

atte -E. Milton Jones, 81. died in Memorial Hospital day night from a heart at-ich he suffered three days

Herbert and Elb in Jones avile and Gordon Jones of S. C.; three daughters.

S. C.; three daughters, Jones; Mrs. Ether Richand Henry Ray Jones; one J. A. of Danville; ond a Mra. Sallie Rice of Reids-

19. LUCY MeL. HALL teville,-Mrs. Lucy McLamb 1. died, at her home here May 3. by after an illness of a Mrs.

survived by her husband. tall, three step children and ndchildren.

rai services will be held afternoon at 4:30 from ton Memorial Methodist

I. FRANCES E. GUITON. tteville .- Mrs. Frances Eliza-Juiton, 65, of Cumberland. a a local hospital Saturday

short illness. is survived by her husband. uiton; four sons, three daughwas the daughter of Rober ances Smith Braddy, Funeral w will be held Monday al the residence.

**IPAHAW CHILD DIES** DM GASOLINE BURNS 3.Year Old Girl, Burned Plaming Gas, Passes Four Hours Later

City

Collins.

# Senior Play to Open Finals Program; Erwin to De-

exercises will get underway at the Col. H. M. Huntley Named at services will be conducted with the presentation of the arniver atterneon at 4.30 and inter-ill follow at Filliam View Principal G. T. Profit. T. great his wife; four sons, Morning Glory," have been under-Herbert and Eib in Jones way for weeks. Class Day exercises of the Fourth Corps Area, U. S.

way for weeks. Class Day exercises of the Fourth Corps Area, U. S. will be held on May L. (Army, has been named command-The Rev. J. Luther Davis of the ing officer of Camp Butner. Gospel Tobernacle will deliver the baccalaureate sermon on May 3. Monday night Dr. Clyde A. Erwin. daily: Only several farm families State superintendent of Public In-terminin in the camp area, a triangle struction, will deliver the cum-between Durham, Oxford, and Roz-mencement address, and diplomas, bern. will be presented on the night of Other activities of the week In-clude:

leading role in "Gord Morning Office at E Morning Glory," taking the part of Seabhard I Glory Gammon, described in the Northside). Finishing

Pearsall, Lewis Hemmingway . Billy Les and Marion Zollicoffer

EIGHT TAR HEELS END NAVY CADET TRAINING Raleigh Boy Among Those

Finishing Preliminary Flight Course

Charleston, S. C. April 18.—Eight North Carolinians this week complated training as aviation callets ed more than 800 acres of wepd-in the Navy and have reported for land inside the camp area. April 18-Barbara advanced flight instruction at the lins, three-year-old Naval Air Stations in Florids and ter of Grødy R. Collins of Sax. Texas, it was announced today by w. In a hospital here Fri- Sixth Naval District headquarters. termoon when a cup of gas. Sourced the fledglings will be WILSON CHIEF RESIGNS; Zachary of Baxapahaw and Commissions as ensigns in the U nadvertently thrown on the The North Commission

nadvertently thrown on the B. Naval Reserve. The North Carolinians are Jack Ohief of Police Olyde, P. Ro-nary had come to Siler City St. High Polint; Hamilton Jones, St the child's father and had Anthony Hall, Chapet Hill; Clai-d to help a motorist whose borne Murrell Nixon, 400 N. Road wilson. April 18 - Chief of Police Olyde, P. Ro-cutt Will Oppose Sheriff Weathersby in Eun Wilson. April 18 - Chief of Police

FINAL'S EXERCISES OPEN AT DUNN SCHOOL FRIDAY Benior Play to Open Finals Program; Erwin to De-liver Main Address Dunn, April 18 -Commencement secretises will get underway at the Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Dunn High School on Friday nutlice Bell Coll, H. M. Huntley Named Coll, H. M. Huntley Named Commanding Officer of New Army Camp Camp Butner, April 18-Coll, H. Menang ingth, May 4 will be barcalaureate aermon on May 1. Mite will be presented on the night of May a will be presented on the night of Mite address, and diploms of Mite address and diploms Bais augernite nethor of Public In-Mana Will be presented on the night of Mite address and diploms School and the stage set in School and the stage set in State supervision of B. Frowler. Textpin Whiternon will play the Breize and Muter the supervision of B. R. Fowler. Textpin Whiternon will play the Breize and howler. School and High will connect the station agent and the stage set in the for subs on the aput track connect the for subs on the aput track connect Textpin Whiternon will play the Breize and Muter Connect the station agent May 2. The He Frowler. Textpin Whiternon will play the Breize and Marting Textpin address. The hole connect the station agent and the states agent the School and the states agent connect the station agent and the states agent the School and the states agent the School and the states agent the School and the states agent the School and the states agent the School and the states agent the School and the states agent the sta venior play and the stage set is of multi completion of the laying being built under the supervision ing the Seabard Railway with the of B. R. Kowler. Southern at Wilkin, camp entrance

playbilt as "sweet and lovely." Jack Finishing of preliminary grading Hemmingway, senior president, will he the leading man as Harold Hines, "a handrome troubsdor" Others in the cast are Ida Case Brince, Anne Stewart, Alma Young, Luck Parker, Louise McGugan, Jack Wenne Durham and the camp to aid

Insuguration of buy service be-tween Durham and the camp to sid

The first mixing of concrete at 200 Building Transferring labor. The first mixing of concrete at 200 Building Tabernacle. a glant concrete mixing plant con-altructed for the comp. Rapid construction of many prin-to 00 R. N. Simma Barake Class from Tabernacle Church Barake Class from Tabernacle Church Barake Class from Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Church Barake Class From Tabernacle Class From Tabernacle C a giant concrete mixing plant con-atructed for the comp.

cipal buildings inside the camp area is on Tabernacle Baprist Church of Guards at boundary stations re-ported a constant turning away, of 12 00-News ightseers. Contractors reported no 12 13-Letter To Ny Sen. MBS. shortage of inbor, but difficulty in 12 13-Letter To Ny Sen. MBS. obtaining sufficient materials for 12 43-Bob fores Dangettee Hour. construction. Fire of undetermined origin burn-ed more than 800 seros of wood-tend inside the camp area.

The camp is scheduled to be completed by August, Some \$5.000 soldiers will eventually be guartered inside its approximately 80,000 scres

SEEKS SHERIFF'S POST

Wilson April 18 - Chief of Police

### Radio Today

WRAJ.

1 30-Luthetan Hour, MB3 100-Lining Lastar Barty Songs, MB3 133-Ruth Craig, J 300-University Round Table, 300-University Round Table, 300-The Chromopoliant 300-The Chromopoliant 300-Laster Lastie-OCD Relly 300-Laster Lastie-OCD Relly 300-Laster Laster 500-Laster Cassier 500-Laster Chromopoliant 500-Laster Cassier 500-Laster Cassier 500-Master Wilke Orch, MB3 500-Master Works of Music, 500-Master Works of Music, 500-American Forum of the Air, MB3 500-American Forum of the Air, MB3 535-News, 535

### LUTHERAN GROUP OP HICKORY SESSION TO Richmond Pastor Wil Main Speaker at Luthe Hour Rally Tonight

Hickory, April 18-18-4 North Catolina Lutherans Missouri Synod will gather tomoriow for meetings of the castern Lutheran Laymen's 3 the southeastern women's  $\pi$ ary league. The meetings v followed by a Lutheran Hou tomerrow night.

Under the leadership of Pr Vernon T Eckerd of Mary Laymen's League will plan activities, and select the na Bible camp recently pu near Linville. The camps ? near Linville program will be mapped by infilter headed by George of Conover.

The Woman's League prog by Mis. F. A. Freed of Hickor ident, calls for addresses Rev. Richard Melbohni of W Salem, and Mrs. Henry Greensburg, wife of a form signary to Africa Main speaker at the L

Hour will be the Rev. O. A 5 Richmond, vice president Southeastern District Missou eran Synod. A special traradio message from Dr Maier of St. Louis, Lothers fodio speaker, will be heat "Die combined choirs of Co Christ and St. Stephens c in this county, directed b crick Mochlmann, will sing heid of Luach.

THREE FIRMS IN N. LOSE COAL LICI

Washington, April 18voked the registrations of th distributors in North Care failure of the firms to at they were engaged actively tributors.

Registering distributors titled to buy coul At # Others are required to minimum prices at the min there are special permits the division. Among registrations rev

Gr

Citizens Coal Co. Glenn Coal Co. Durba

Glenn Coal Co., Durbam, Hollister, New Born, N. C

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HEAR

### 78th Division To Re-Form In Camp Butner In August

### Brin. Gen. Edwin Parker. Jr., Formerly of Fort Brapp. to Be Commander

by off. DONALD Blanor. Fort Bragg. June 13-When the 78th latantry Division-which is to be sermed in August at Camp But-ner, morth of Durpam, takes up its ner, morth of Durham, lakes up its builte position on pre-of the United Nations' righting fromin, it will bear the proud recent of its World War I predecement, the Dath "Lightning" Division, which was the "point of the wedge" in the First American Army be over 34 kilometer in the Last offensive of the World Nat. Brig-Gen. Riwe P. Parker, Jr.

Brig-Gen. Briwh P. Parkier, Jr. a native at: Writerillei Va. will command the division, which is any of loar which will be organized in the United Street during August, according its a scent announce-ment by Secretary of War Silmson. Geospin Parkar was units recently the commander of the Field Artil-lery Replanament of the Field Artil-lery Replanament of the Field Artil-Brazz the largest in the world. As commanding general, he had super-vised the training of thousands of soldiers for a specific and highly important offensive branch of the Army-the field artillery. As a division leader he will command arthat round out a division."

ande of mildlers from New York, Malin Oraig Engineers. New Jersey supplied manner men for the 136th Infantry Brigade. 2. The the new trianguar vain-were or-ganized by the granifer of quali-time, the corps commander cannot a large part of the divisions force as part of the money taken. The men, irrangecive of their place of induction.



which included the 311th and 212th a normal sector are very great and later, and the 78th moved south-Infantry Begiment; the bosh Artil-a test of the efficiency of your ward to be billeted in numerous bemarie jall, gave State Highway lery Begiment; and the first battal-ican at the 2010 Fryineers. A divi-success machine gan battalion came in open concerned in the secon-in the movement. To have accom-let; athletic programs were inaugu-to at the 2010 Fryineers. A divi-plished this under conditions of rated; a division newspaper. The secon- was first published Febru-the movey, which Sides did. Benefited in the secon-plished this under conditions of rated; a division newspaper. The secon- was first published Februthe division which was of the old done is most creditable, but when ary 6, 1809.



Daly of Goldsboro who was cited bosthumously for "distinguished service and devotion to duty" for giving his life in attempt to save a wounded shipmale trapped aboard their burning ship at Pearl Barbor, Daly, 24, 1s the son of, Mrs. Willie S. Daly of 114 North Elocumb St., Goldsbore. His wile, Mrs. Les Frances Daly. lives in San Diego, Calif.

commander, General Liggett, sent impossible to estimate the captures, resented by Attorney M. B. Sher-"I. I am directed by the corps strong machine-gun opposition when bery, it was learned today, regard-

thans. men for the 136th Infantry Brigade. 2. The difficulties of taking over The Armistice came a few days money for Federal officers. which included the 311th and 312th a normal sector are very great and later, and the 76in moved south- Later, however, Howell, in the Al-

"square" type, as contrasted with there is further added the fact that But the farmers, factory workers well bank identified the \$100 and 14 "square" type, as contrasted with there is further added the fact that But the farmers, factory workers well bank identified the \$100 and 14 the new "triangular" 78th-were or- your diginion is in line for the first and storekoopers who constituted \$2 bills found at the Coley airport

Where General Parkers mon will command will give a good account them on February 26, and on April case might or could be considence from is, of course, not yet of itself in this and duture situa-account and account at the units began preparations for level either by the Federal grand safely at a foreign port after sail-account any store in which is will find itself."

thows. The setting of course, not you thom in which it will find itself." thows. The setting divides now thom in which it will find itself." those is the setting of the setting of the setting of the setting of the setting of the setting of the set of

### Among Tar Heels in War Zone

MORE BANK LOOT Concord Youth Allegedly Used

### Holdup Money to Pay Off Gambling Debt

Concord, June 11-Developments in the case of the United States ve Archie Howell, 22-year-old Concord youth who early this week confeesed to the symed holdun of the Rockwell bank, continued to move speedily.

They included recovery of another \$20 of the \$720 taken from R W Brown, cashier of the bank, during the holdup. Of the missing money \$656 has now been recovered. Including \$4 found on Mowell at the time of his prest. This money has been turned over to agents of the SBI from Releigh.

The sum of \$128, one \$100 bill and 14 \$2 bills, was found Thursday hidden beneath the ledge of a hern on the old Coley flying field near Concord

Three Concord men to whom Howcil paid part of the loot, allegediv for gamb'ing debts, E. H. Sides, Jr. John Jarvis and Zeb Cox, were questioned by Federal agents to whom they gave statements. Durnance, medical and other, troops won from the Germans. The corps that its advance was so swift it was ing the questioning Sides was rep-

New Jersey and Delaware. From view Tork, "I. I am directed by the corps strong machine-gun opposition when bery, it was learned today, regard-New York came the 180th Infantry Commanister to inform you that the it gave dver its place to the stind ing payments of money made to Singade, composed of the Stath and the port of the sectors of the Division. In its eight weeks of them by Howell. Attorney Sher-is and Stath Ardiffer Regiments; the 207th lieved was, so far as he could learn. The second hestialon of the 263rd done in an orderly, well-directed lift to the final collapse of the Ger- at Greensboro for advise, he said, a the second hestialon of the 263rd done in an orderly, well-directed lift to the final collapse of the Ger- at Greensboro for advise, he said, a and Higgins told him to hold the

Elliott L. Bizzell of Sanford Is on Special Duty in War Area

Elliott L. Bizzell, radio technician for aircraft, class A, has arrived

ine maximum sentences of \$10,000 Monica, Calif. He was one of three



CATE TON BERTH



WALTER P. SUGGS.





Reginiration Draft Beerd No. 8 an-reterday the Jame Bo n for poin 14 and 20 n for poin 14 and 20 it will be Add in the litreet Solday School on. Rears will be to 900 ff. m. Beard re South Baloigh. rard No. 1 perioasly that replaciption for o. 1, covering North will be hold in the try new stands, saw 1 y years of age are rt to draft, atthough could fo replater.



City Emergency Be Ready for Ocncy Monday

Va. June 17.-A 33-1 to Emergency Hospihead City, N. C. built upervision of the Rich-nal office of the Federal ncy, will be ready for by next Monday, IFWA gineer C. L. Vickers an-lay.

ing, a temporary frame ith concrete foors, was elation. ess than six weeks after James

VRECK VICTIM Man Dies Following

Harris, of Newton, Route car with Hinyle, died an r the crain and Fred Lincoln County, driving piteT of fe, Mrs. Dealle Klutz, two tendars in Ma"car.

Three Phases of Price Admiti-istration Work Still to Be Organized

Appointment of five executives who will be smortg the sight men to bead up, Pederai Price and Ra-tioning administration in North Carolina was announced pesterday by T. S. Johnson, North Carolina OPA director.

The five sireedy approved and on the job include Guy W, Rawls of Raleigh, named state organization officer and charged with responsibility of maintaining nearly 150 local price, and rationing boards in the State. Rawls, formerly an automobile and radio dealer, since March has been assistant rationing admin-istrator under Johnson until 'the OPA took over the State organization.

James T. Maddrey of Raleigh has James T. Maddrey of Maleigh has been appointed State administrative officer, in charge of selvicing the branch offices of OPAi and local boards. A native of Winston-Balem. Maddrey was formerly a banker in Winston-Salem and an official with the State WPA offices here.

A. F. Dichterimueller of Charlotte will be state accoustant. Dichtenwill be state accouptant. Dichten-mueller, a certified public account-ant, recently has acted as cost analysist for textile inherests. Miss Ruth Vick Everett of Raleigh was appointed consumer relations representative. She has served for several years as field secretary of the Mosth Commission Manham Account

the North Carolina Education Asso-James C. Greene of Raleigh was

eas than dix weeks after larted. If painting the building plumbing, heating and dipment is expected to d this week. If annes was built as a scapacity to m bets. If annes was built as a for military personnei orkers in the Marchael to Morchead City to to Morchead City to

Y Federal grant of \$34.000 Two important positions have not 1 to Morenead City to yet been filled, though appointments cost of construction and have, been made. They are for price The construction work administrator and resioning admin-y the T. A Loving Com-istrator. Johnson said he would an-nounce their names as soon as the nominees are approved by the At-lanta regional office. WRECK VICTIM: Million to completion of Cityape TO Bailton the state headquarters, Johnson an-

the state headquarters, Johnson anndunced he was authorised to pro-cred with opening of five branch OPA onces at Charlott, Winsloa-Salem. Greenville, Winsloa June 17. Andrew Hoyle. Salem. Greenville, Winsiele. June 17. Andrew Hoyle. to do the job expected of the Salem or and Asheville. He mid state beskguar-ters was at last gettad for many and Asheville. He mid state beskguar-ters was at last gettad for many and Salem. Greenville, Winsiele. Winsiele. June 17. Andrew Hoyle. to do the job expected of the Sale opital in Vawter. flues-tries received in a herd-n which killed two other d injured in a herd-the mighting St. south Hatris. of Newton

with Hnyle, died an the crass and Fred A state conference on weights and the crass and Fred A state conference on weights and the killed instantly. June 25 through 37, [C] D. Baucom, There et a Mrs. Pate division of the weights and messures there et a Mrs. Pate division of the State Department of Catawbé County and agriculture: announced yesterday: The opening visy. will be devoted to registration and al dinner, mess-tra by ordinary woodrow ing

### Sugar Stamps

Washington, June 17-09-The Office of Price Administra-tion announced tenight that the Falue of sugar-raises Biampe B and 6 had been increased to two pounds each-but that each ive permas each-built has each stamp would cover a period of a month instead of two weeks centinaing the weeks 'tailou to asch communer at half h pound. OFA explained their flag No. 4, new valid for the pur-chase of a period of mgst, would expire at midmight, June of the period for

Will express a manufact, out of for first the period of any, good of ary time thereafter thell midwight, July 23, whereareas Stamp Ne. 6 will became vald until August Stud.

Sometime before August 22, OPA will announce the period of time to be covered by other stamps in the ration books.

The ration stamps numbered from 1 to 4 each permitted pur-chase of one pound of sugar and covered a two-week period. OFA offered no official axalana OrA suffred to extend explana-tion of the extendent on resenth, but it was evident that the move is make a stamp last longer would reduce the number of stamps which grocers would have dependent

At the same time, OPA dis-closed that, effective Saturday, it would permit institutional and industrial users to obtain sugar allowances for a twomonth period, instead of the one month new permitted.

TROOPS ARRIVING AT CAMP BUTNER

Over 30,000 Men to Be Sta tioned at Reservation After Completion in August

Camp Butner, June 17 .- Arrivat early this week marked the begin-ning of official military activity at this 60,000-acre reservation. sched-uled to be completely built by Jata August. The first arrivals moved inte

The nrst arrivals moved inte quarters in the section of the camp being constructed by Cauldwell Wingste Company-near the four-million dollar hospital, some five miles soutbwest of Creedmor, Duties of the first arrivals will

be cleaning and preparing the camp for future training activities slated to invelve from \$0,000 to 40,000 men.

Thousands of civilian workers are engaged in the \$30,000,000 construc tion project here, involving erec-tion of some 1,700 buildings includ-ing berracks, mess halls, recreation ceniam, storage Warehouses and hospital facilities. The camp is lo catedon; the triangla between Rox burdy micharb and Oxford, Evecua tion . Lamille's from the area has been forhulated.

### TANKERS SELDOM PASS THEOUGH INLAND ROUTE Liberry Freighters Beginning Heavy Shipping on Cape

### Foar River

Southport, June 17 Ships and tank the returning after discharge ing regoer at Wilmington have becorrections of the revest things on the Capacitant River, passing through Southport. The waterway is used sengars in his "car. t (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow ing. 1. (Turk) Taylori Woodrow 1. (Turk) Taylori Woodrow 1. (Turk) Taylori Woodro

### WILLKIE IMPLIES OIL AGREEM HIS RETIREMENT DEFENDED HERI

## Public Office Again

New York June 17.- U.P. - Wen-dell Willkie spesking briefly to-

with the slightest self-interest." Incit said the agreement with the He did hot elaborate on this German of concern was effected 1929, "years before Nazism and t and, when reached at home after. Hitlers were of political consequer in that country." "At that time," he asserted, "Gto It.

The titular leader of the Republican party has been active in that role both nationally and in New York State in recent months. His anti-isolationist post-war sland for the party was approved at a policy meeting in Chicago earlier this year and he has been outspoken in recent weeks aginit the re-nom-ination of Rep. Hamilton Fish, premation of New, Hamilton Fish, bre-war isolationist, of New York State's 20th Congressional District. Only last week he took issue by inference with New York's other State's 20th Congressional District. Only last week he took issue by inference with New York's other outstanding Republican 1 e a d er. Thomas Z. Dewey, a likely candi-daft for governor, over Fish after Dewey was reported to have said that he opposed the congressman for his alleged misuse of his office and not for his views. A re-check of Dewey's speech showed that he had said he: opposed Fish "not for have said he: opposed Fish "not for have and he used and the use had said he: opposed Fish "not for have and of the use here a to be an office and not for his views. A re-check had said he: opposed Fish "not for have and of the use here a to be an office have a congressman for his alleged misuse of his office had said he: opposed Fish "not for have a congressman have a cong his views only" but also for the use he made of his position. he made of his position. In his remarks ponight Wilkie larger r said that while he was "too; old product. "Since

Wilkie received an unusually and other government agen

life American labor is proud to be a part of every community effort. "In the balue for production they

gave up the privilege of striking, in order to protect their right to briefly, urging cooperation in strike. In the battle aginst infla- current rubber salvage pro tion, they are giving up some wage increases, to protect their right to

merson to protect their right to better their own conditions." ( Wagner said he "denied with all my soul" the statement that de-meetery. In fighting for its life should put its liberties on the shelf for the duration.

### Republicari Leader Indicates Standard Dil Representativ That He May Not Aspire to Says German Agreement Furthered Production

New York June 117.-01.9.-Wen-dell Willkie speaking briefly to-night av a dinner honoring found-ors of the Louis Di Brandeis Me-morial-Coloriy in Palestine, said it was doubtful if he would aspire to public office again. "I doubt If I shall ever again aspire to public office." said the issue of the German by d claring that the German by d claring that the German by d claring that the German by d claring that the German by d claring that the German by d claring that the German by d claring that the German conce devised a process of retineme which is essential to high quall petroleum products. Speaking before a dinner me-tian causes and beliefs and do not with the slightest self-finterest." R. T. Hammett of Charlotte, sp.

many was at peace with the Uni-States and great efforts were i ing made to effect its rehabilitati New ing made to elect its remaining a. His The principal piecess which v d for policy was hydrodenation. By adapting s this since 1929, we have been able produce much larger quantities gasoline from crude oil than f been possible before and to mu higher quality petroleum produc

esses originating in Germany has from the beginning of its search andenvored to interest larger rubber companies in

anuary, 1939. Stanc in this war, he always would be Oil has worked very closely a prepared to fight at the bar to de- the Army and Navy Munil fend abrogation of citizens' rights Board, the Chemical Warfare S.

Willkle received an unusually and other government agen long ovation when he rose to speak. with the bopes of finding a mi-Ha devoted (most of his speech to by which synthetic rubber c baying, iribute to U.S. Senator be developed on a larger scale Robert F. Wagner and to the late ould possibly be undertaken any private company." Wagner and Undersecretary of War Bobert Palterson. Senator Wagner said that de-Senator Wagner said that de-ror 100 orthen aviation Rasoline mocracy, "for which there is no also for synthetic productior rematz." Is 'frising to new heights many times the demand for in the white heat bf the war ef-for a disinot "laid on the shell for gas masks and for an oil In the while heat bit the war effor acid-resistent synthetic ru fort? and isinot "laid on the shell for gas masks and for an oil for the duration." "In this war for instional exist. Io extreme changes of as muc ence, none bit us has any priv-lieges," he said, "as the largest these, he said, now are hel organized group is our national America win the war. The action is the instant of the said of the said of the said.

The oil representative addre 200 Raleigh business men and State officials and their wives. and reassetting his contration the East Coast states should b lieved of discriminatory gas

The dinher was in charg Charles M. Byers of Char North Carplina division ma for Standard Oll.



foold they had definite clurk t

pening Held at Camp Buther Forma

FOURTEEN PAGES TODAY

26. H. W. Huntleyp Part Commencer, is an own before micromones on the porch of, Postilizaters, Camp Buliner, we helpspike at flag unfutling commones on the porch of, Postilizaters, Camp Buliner, we helpspike at flag unfutling commones at the new Army camp yester-orning. It was the bifficial opening of the damp, which is kineted in Durham, Granville, and counties. Othersi matheted off the porch are: (front row Mts. J. M. Broughon and Governor tion; Maj. Gen. Edwin, P. Pirkar, Jr., commander of the 78th (Lightning) Division which will wated at Camp Hyper of Armist 5; Brig. Gen J. Van B. Metts of Raleigh; chaplain; H. W. af the 78th; (second row are ref) i. A. Buthertof Winner, Shien, borther of the late Maj. Gen Wolfe Butner, for whom the camp was named, and Nrs Butner; Mrs. J. S. Atknoon of Elkin of General Butner; Srig Gen. A. F. Kibbler, chief of artillery with the 78th Division; and Brig W. K. Harrison, Jr., sassant division commander, also with the 78th.



Documents Reveal Intent to Negotiate with Japs Should India Be Freed/

that the great majority of the AU-India Congress Werking Commit-

UNIONISTS STUDY * PROPOSAL IO ENU SCHISM IN LABDR

ws and

RALEIGH, N. C., WEDNESDAY MORNING, AUGUST 5. 1942.

Definite Plan for Mergel of AFL and CID Approved by 2. Organization Chiefs Chicago, Aug. 4.--(A) The Amer-ican Federation of Labor and Ibe Congress of Industrial Organiza Longress of Industrial Organiza-tions agreed oday to confider merging their forces in one huge unit at a historic peace party. A conference to study stors to close the sevenycer gap between them and to bring approximately 11,000,000: workers under a store standard became assured when ARL President William Grace approximately

"the conferees will be able to reach a settlement thir to all concerned." Muriay, fin a letter to Green last Sunday, advised that he had normed a committee to discuss "possibili si-tablishment lof pranic unity be-tween, our organisations." Green regarded the note as the CIO of or-ficial acceptance of the AFUs pus-realion last May that peace palleds be besuind a threen hold remeted. reation last May that prace papers be resumed.; Green told reporters he believed. President Roostvitt was "deeply interested" in a re-union of the labor bodies. From both campa came cluber cation of the objective of the firth-coming conference—"organic time.

India Be Freed for the merging of the two organizations were need to day the merging of the two organizations government ebarged today times into one, the meting up of one of the great majority of the AU-with authority to speak for the majority of the AU-dua Congress Working Commit: ganized workers of the national the set of the majority of the AU-dua Congress Working Commit: ganized workers of the national the set of the majority of the majority of the majority of the majority of the majority of the majority of the set of the majority of the majori Murray aide who asked omition of his name defined it as a met-

Testifies He Ffew At-G. Feeds Reporters Covering Trial updis. Aug. 4 - ---triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William Dudley The service of the mark of the interview triat of William The service of the mark of the interview triat of William The service of the mark of the interview triat of the interview triat of William The service of the mark of the interview triat of the interview triat of the interview triat of William The service of the mark of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the interview triat of the inter



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Sgt Joseph W. Marske of the planes on Brig. Ge Japan, receives the Diring Carlock formmonder of the background is Liout

### Many Anin In Ring

Blaze Sweeps Mena Tent: Loss Tentatively E mated at \$200.000

BERGH FAILS BOOST PELLFY

Testifies He Flew Al-

Huge Garrison Flag Rises Over Butner: Construc-tion Work Continues Staff Correspondent.

. Camp Buinet. Aug. 4-The Store and Struces rock briskly over the ne-Und's bevest Army camp this morningliff firmal opening ceremonies.

### Report on Buck Creek Camp Made at Quaker Meeting at Guilford College

G frit Critege Aug. -The Quaker Cuulian Public Service samps required the attention of the North Catolina Yearly Meeting lot Friends duting most of the motaa a sersion

Raymond Binford, president-e eritus of Guilford College, who with his wife Helen Binford, is co-directer of Bark Creek Camp near Mar-1.7. described the opening up for conscientious objectors of new ave-tures of service, outside the camp.

Lurs of service outside the camp. He told of 25 volunteers who had lott for a special forest fire camp in the far west and of 15 others who had gone to Williamsburg, Va., to relieve the terious shortage of at-tendants in the mental populat there.

Emphasizing the significance 6 the costribution such follow ersiot the contribution such followers of the way, of non-violence imight make in the treatment of mental pa-tients, he recalled that it was the Society of Friends that had led the movement to take mentally diseased perions out of the prisons and underjake to restore them to mental health.

CO's Are Impatient. COS Are impatient Speaking of the increased unrest at Buck Creek Camp since Ameri-ras entry into the war, he wild the enscientinus objectors in general were impatient to use their energies in the feller of the tremendius human suffering and to share in the hardships and dangers that had been brught on by the wat The report today of the Willian Public Service Board showed shat

Public Service Board showed dhat will carry into combat. the yearly meeting had contributed will carry into combat. the yearly meeting had contributed will carry into combat. the yearly meeting had contributed will carry into combat. In a ceremony that will piend the in 'supplies to the Civilian [Public crash of salute guns with the color pervice Camps, which are theneed of battle streamers, the Talh Divi-by the conscientious offectors sion, whose soldiers fought valuently themselves and the three historic at St. Mihiel, Meuse-Argonne and the control and Limey sectors will be the control and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul and Limey sectors will be the foul

eare churches. Enthusiastic response greated the Enthusiastic response greeted the activated for the first time line its reading of a short epistle form the demobilization in 1919. I North Carolina Junior Yearly Meet-in addition in brief talks by Gen-ing of Friends, which has just been Edwin P. Parker, Jr. Chi Bonry expansed here by the Quarker child. W. Huntley, post commander at o en, with flarry L. Johnson Jr. of Camp Butner, and Governer Brough-G. eenabero, as presiding clefk, and ton, the program, starting at 2. m., Marria Ann Furnas of Guilford Col-will include military music by the lege. as assistant and refording an article military music by the

Training Need Clied, play the national anthem. Troops The report from the board of re- of the 78th and the Post Station Licius education reflected the need Complement will be massed in for-The report from the board of 75-16 the Jath and the fort point of the series of fort. It is all the need Complement will be massed in fort. Series of the the dealer division and matter based in fort. The Lightlang Division was charged by the park it the Carl of the anerdy for the quake pipers is and military and called for a guarded as one of the most re-training in the Sunday schole and military and civilian branch based in fort. The Lightlang Division was charged in the series of the most re-training in the Sunday schole and military and civilian branch based in fort. The Lightlang Division was charged in the series of the most re-training in the Sunday schole and military and civilian branch based in fort. The Lightlang Division was charged in the series of the most re-training in the Sunday schole as one of the most re-markable historical restoration of the quake inpets in most merel Governer with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with cleang the aner (Governer) with clean the internet of the dent of Durham (Thomtion N. C. Aug. 3-47- (Governer) with the list of the failt post executive of an 80-car Norobus the list of the second and the of the date of the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the sec



Two some of Mrs. G. F. McGhee of Cary and the late E. F. Oakley, of Durham are in the Array Ph. Charence H. Oakley (left) recently completed the dust involvation course in Baltimore and is stationed in Settiring. Find 13h was inducted October 7 1941 His brother, Pvt. Expl. F. Oakley (1999). Initised Balt November 28 and is with the Array Air Corps (a Populand, Ore. They have two sisters. Mrs. R. G. Pickins of Soluti h. toute 6, and Mrs. C L. Cox of Durham.

### 78th Will Be Activated on Saturday At Butner

Famous Lightning Division of []] World War to Raise

**Banners Again** Camp Butner, Aug. 8 - The Battle traditions of a great fighting force will be reboth at Camp Butset next Saturday afternoon when Mal.Gen. Edwin P. Parker, Jr., commending general of the 78th Lightride Divi-sion, presents the coloral bis men will carry into combat.

activated for the first time since its nn Furnas of Guilford Col- will include military music by the assistant and refording 9th Division Band from Fort Brage 



Willigh N. Campbell, 23, and of Mr. and Mrs. D. M. Camp be of 209 Ashe: Avenue, has be or promoted to first licuten and at Pine Bipff. Ark. Ho was griduated on engineering from State College in 1941.

### PARK MONUMENTS Look GO BACK TO 1607 Obening and Closing of Colo-

### nial Virginia Drama Are in Historical Park

THE NEWS AND OBSERVER. RALEIGH. N. C. SUNDAY

Richmond, Vs., Aug 8-The open ng and closing scenes of the drama Colonial Virginia ate incluided ođ within the Colonial National Historical Park.

Cape Henry Memorial, now mark with a stone cross and included the park, commemorates the site in In the park, commemporates the site of the first landing; on American soil of the English settlers, April 20 1807. After staying a few days at "this point on the Chessipeske Bly the settlers sailed up the Japase River, landing May 13, 1807, at a place which they called "James Tywne" and there established the fast permanent English settlement Ant permanent English settlement

The larger part of Vamestown Is-and has been acquired by the Pedand nas been acquired by the Per-eni government. About 23; acres als awned by the Association for the Preservation of Virginia An-tiquities.

The APVA area includes the lism T. Fitt ined church tower that is the Mrs. W. T. i te remnant of 17th century been named selle remnant of j17th century ocen named Jamestown remaining abovel the jant ch.ef.of Bround, In an older church which the Army Gr Dobably shood on this site, there by heat in 1819 the Arst represent the general of the solutative assembly in North Ame. Previous 1 Solutative assembly in North Ame. schitative assembly in North Ame- Previous 1 tra — the beginning of American tion in Mar democratic self-government, Here General Mc abo are statues of John Smith and training of the Indian Princess Pocahonias and Colonel Fill shrine commemorating the first Army capac sprine commemorating the part lers, Washing rvice of Holy Communion cele-lers, Washing people He was bo Virginia. Virginia.

In Virginia. In the Federal governmant set. H.s. m ler, archaelogical investigations of study at have uncovered many physical re-mains of the old city on the James, school. Fort including house foundations roads. Leavenworth hundreds of thousadds of objects War College Some of these are displayte in a LUTHERA ບສອນກາ

The Colonial Parkway which PLAN Lff dentually will connect Jamastown, Williamsburg, and Yorktown-has: Maricn, A been completed between Yorktown, and Williamsburg. It is beautifully will condu-indexaped and follows the York area for it index ground of the American the Loro-H Revolution, the visitor Ands re- in Avery C thored fortifications, museums, the here iscan Noore House (where the terms of The pro-stored fortifications, museums, the first cations house (built in 1705), and the reminders of the Revolution-ry era. Visitorical Park will find by dering in The Colonial Parkway - which PLAN LI

historical Park will find be dering in the park the City of Williamsburg.



30. Mester

COL. FITT

TO S Warrenlon

H-8

d jointly by the The general's words were taken and pritest equipment is repaided alth and the In-as a reflection of the views of both As an obvious obcisance to a lesson the Builish and American govern the Builish have learned; that the are Two. 1

that there were considerable fatalittes. The headint ambalance La the even

ORNING, AUGUST 16, 1942.

### Race Fans Are In Jam CREASE Over Use Of Gas Cards TOBACCO

### Shows Big Aderages Durnd Week

e. 15 - Prices on acco markets ad- ing

o from \$1 to \$4.

of cutters at top higher average grades resulted in 3.16 a bundled in

the work endling 541.38 a hundred. ir quality lugs and but to low quality but to low quality Lurs and prim-rd but were pro-han opening week. I the bulk of the

en mark-ted for a Lm.ted numed with work end-

Land \$45 \$12 fair 5.18 5.16 w-\$44 \$42

\$30, \$30.

ales for the period 225 238 84

at Lumberton were out 8 per hun



Bussians to "withouth of Kolelnikovthreatening Stelina the northeast.

Boston, Aug. 15 - UP - The OPA jusing gasoline that may have come loday ordered 270, Masseehusetts to them through a sea infested by metorists holding liberal gasoline Nazi submarines, for purposes very they should not be prosecuted for interclous fuel was issued, is appai-making "frequent" visits to Rock-ling. Inclume track in their submarile. The sea baseling the law for Make Addresses at Military Exercises

making "frequent" visits to Bock-tling. inclining track in their automobiles "They are breaking the law for during the recent huise race meet-which severe penalties will be im-ing posed" Spotted at the Salem (N, H) track Only "repeaters" at the track dur-

acco markets ad-as prices over those prices over those prices over those prices over those prices over those from two to five days, during a prices over those from two to five days, during a prices over those prices over those prices over those from two to five days, during a prices over those from two to five days, during a prices over those prices over those from two to five days, during a prices over those prices over those from two to five days, during a prices over those prices over those prices over those prices over those prices over those from two to five days, during a prices over those prices o

ide gains ranging. I driving per month is a low some of the automobiles, he said commander, Maj-Gen. Edwin P hundred, lugs and Henry Parkman, Jr., State OPA came from as far as Sagamore. Parker, Jr. i director, made public the results Greenfield. Springfield and Tong. Official activation of the unit fol-of the survey and asserted that meadow in the western part of the lowed with the reading of War De-quality. In the rightful enjoyment of well-ham and Worcester of an unusually carped relaxation and recremention. The Salem track is 33 miles from Presentation of the national col-of cutters at top the speciable of callous individuals Boston.

The a buildred in PERSON BOY GETS Two More Caught Two more of the 17 convicts who excepted from the North-ampton County prison camp early Thursday morning were HIGH ARMY HONOR receptured near Beyton, Va. last night.

> The prisoners recaptured were Norman Davis, 33, senienced

> Reckingham on August 1, 1930.

te 15-20 years for manslaughter:

and Dennie L. White, 19. sen-tenced in Cumberland County

on January 12, 1942, to one to two years for larceny.

new at large.

Only first of the convicts are

New York, Aug. 15-47-For the

OVER BRONX AGAIN

### Corp. Farris Humphries Receives Purple Heart for Pearl Harbor Action

Midland, Trxas, Aug. 15-18 Corn Farris M Humphries, a native of Boxhore N. C., and stationed bere at Midland Army flying school of Rexhara Guide Sto. 344. Today was awarded the Medal of BAD SMELL SPREADS nice-\$44, \$42; good meritorious service at Pearl Harbor

The presentation was made by as: Choice -345, 542. The presentation was made by au -329, 527. Brig. Gen Isaish Davies, command-ing arket reported ing general of the school. The cere-les insurd in all wide network to access over a statesecond time, within a month, a strange stench polities the air in the Bronx and again neuseated les more reported in seneral of the school. The cere-tie funt seven days wide network. Corporat Humphries was wound-

er hundred poinds ber, but refused to leave his maof in the Jap attack on Pearl Har. Something is being done but Russell bor, but refused to leave his may without result, for no one-expert school, come gun post. He was knocked or layman-has found the source. There but when a salve of ten bombs of the smell. And many have tried (classes for a term of 12 weeks butst only four feel from him Yesterday.ifor instance, Dr. John Students will be taught to operate

> STOLEN TIRES FOUND BY OFFICERS IN PITT Loot Is Believed to Have Been Taken in Warsaw and Raloigh Giveniville Aug 13-Sheriff's of samily houses and the south of state and house and the south of south o

# FAMOUS DIVISION **Military Exercises**

Camp Bulner, Aug. 15-The TRih Lightning Division whose division

ing general's fing followed along with maripal ruffles and flourishes Principal Guesta

Colonel Collier introduced rue They were: Mayor Graham H. An-drews of Raleigh Mayor W.Diam S. Hobgood of Creedmoor, Mayor Thomas Jardan of Oxford, Mayor William F. [Cart of Durham and D-Robert L., Flowers, president of Duke University.

Brief addresses were made by Col. Harold W. Huntley, Camp But-ner commindant: General Packer and Governor Broughton

The exercises were concluded with a compon solute to the colors at the playing of the National Anthem

Tonight members of the 78th's enlisted personnel held the? n-augural dance in the Field House,

### STATESVILLE TO HOLD" COURSES FOR DEFENSE

second time, within a month, a atrange stench pollutes the air in Sintesville. Aug. 15 - New courses the Bronx and again nauseated at the Defense Training School citizens are clamoring for some-here will begin August 24 accord-thing to be done about it. ing to approximate the source of the being done but Russell, supervisor of the traning

There will be three eight-hour resisted without instance. Dr. John Students will be taught to operate Oberwanger, health department lather, multing machines or shoers aanitation chief, postponed his va-and possibily an internal grinder or cation to go, bunting for the odor, an external grinder in eff to he didn't find it but right after he will also be given in reading left, the wind changed, and there prints

H-9

HE NEWS AND OBSERVER, RALEIGH, N. C., SATURDAY MORNING, OCTOBER 10, 1942.

HEELS HELD CLINC' HOAX

nia Minister Convicted Role with Western Carolina 'School'

idelphia, Det. 1 .- A 18-yearhiladelphia who claimed to ormer U. S. Consul in Vene-and Chike, his 45-jeer-old snd a middle aged Gastonia, minister, were convicted in first, three days of their drive, ul District Court today of flent use bit the mails in the tion of a correspondence to teach medicine and sur-list sentence Ben C. Matthews is dister, Begina Matthews, to-w. He gave the minister, the

iw. He gave the minister, the C. E. Phillips, a suspended ace of three months and placed probation for six months. ٥**D** ise his patt was a minor one. Journ defendant, Andrew C. I of Asheville, N. C., was un-to stand Itial because of Ill-

to stand that because of the He will be tried later. sistant U. S. Attorney Francis Sullivan mid that the group sted under the name of the Ridge Health Eastfutte" and traed to have "health childs" sck Hill, S. C., Asheville, N. C., Shaton, S. C. Postal authori-however, said that there ics'' amounted to nothing more Postal authoripost office boxes and that all was forwarded to Matthews in

adelphis. re of the "students" was D. B ch of Sealle, Wash. He tsetlfor a "course" in natural thera-tics and way not satisfied with ics and was not saturned with knowledge he acquired. diver said, the cost of the urses" was usually based on at the traffic would bear."

### ID MEN CONVICTED

OF LIQUOR CHARGES filson, Oct 1 .- J. C. Norwood at silotte and J. T. Cornor of Jack wille, [Tis.] were sentenced to ve one year each on the roads ve one year each on the roads, Recorder Charles B. McLean in Ison recorder's court today, fol-ving their conviction on liquo appiredy charges. 36th men appealed to Superior urt and boad was fixed at \$2,00

Neithes had made bood late Witnesses in the case included Q lexander and J. D. Whitley o Neckienburg County police testified that Norwood "had

tion for liquor" in Chai MoLean ordered 300 Recorder

Recorder mulean visit truck ses of liquor and the men's truck massed. The truck and its cade > was seized when the men we rested several days ago

VIDENCE COMPLETED IN ANTI-TRUST CAS

MARINE MOTORS GIVEN WORK IS SLA Salthport, Oct. 8.-Donors to the scraf drive here today included Paul Fodale and Dallas Piggol, seafood buyers, who each donated more

than all cons of marine engine and other metals. Other Southport citizen who has been factive in getting meda this week reported donations of 30 tons up to today.

ST PAULS PUPILS TAKE UIG PART IN CAMPAIGN

Expansion Program at Army Camp to Cost Nearly Two Million Dollars

Carolina Representatives Durham.

Carolina Representatives Durham. Cooley and Folger that all exist-ing facilities, including the hos-pital, at Camp Butner would be ex-panded at a total estimated cost of The details of the expansion could fand. G. C. Uzzle, and Will Barber At 25, Negro of Selma, was com-but declined in Georgia and homa. Deputies Lester Hales. D S Strick-last year is 642750 000 pounds not be learned, nor would the War captured a 30-gallon cooper dis-Department say exactly how many tilling outfit and a barrel of beer Contract for the new construction four months' suppended sentence is expected to be awarded in a few and a fine of \$75 and costs Carolina. Missistippin and used but declined in Georgia and but declined in Georgia and but declined in Georgia and but declined in Georgia and being the sentence but declined in Georgia and the basistic sentence Contract for the new construction four months' suppended sentence is expected to be awarded in a few and a fine of \$75 and costs Contract for the new construction four months' suppended sentence the last 40 years

days, Representative Durham said. PEANUT CROP WILL TO Work will be supervised by the Wilmington District office of the ALL RECORDS THIS YE Army Corps of Engineers. Butner is located near Durham

Exceeds Rellel Quots

Pasquotant Lounty nearly represented integration of out 2021 92 its quota of contributions in the office for the Navy Relief Society, the State as a whole passed its quota by only 11 per cent, a letter time reported today. from State Chairman Dr Fred-This would be the Jargesi from State

The News and Observes Bureau 1934 National Press Bullio

Washington, Oct. P-The pro Elizabeth City. Oct. 9 - When tion of peanuts for picking Pasquotank County nearly tripled threshing from this years cr

Million Dollars from State Chairman Dr Fred- Inis would be the jarks in the second and about double washington, Oct. B. The War locat chairman, reveals. Total re-lyear's production, Yield per Department today advised North st.397 with a guota of \$500. ... during September in Viggina. during September in Vitginia, Carolina, Missipeippi and Lou Loui



### THE NEWS AND OESERVER.

# D. May 2, 1943 Target Ranges At Butner Named For State's Heroes

# Famous Soldiers of Revolus tionary Civil and Worlds War | Are Given Honors

Camp Burners May L-Combit target mages which simulate nearly every type of target practice necessary fir achial battle have been named bere fils week in honor of famous North Carolina Revolutions ary. Citil and World War I heroes Col Haraid W. Huntley, post commanderi announces.

The tangel area, covering more tan at equate this within this

than **A** require inities within this have melitarificienciation, is located within the lightly word three coun-ties - Diritatic finitudi are as follows: Pringress that have already been romed and grated are as follows: Pringress Raigel named for Brig-Gen James L. Petigrew, Tyrrell County Civil Wat here, a series of r fie ranger: Bicke Range for Maja Gen Agent Light Mar here, rifle and light machine gun range: Nash Runge for Brig-Gen Francis Nash, Revolutionary War here for whom Nash Camby and Nathville, Tenn-were named, fille and light mathine Eur range.

Ramwur Range, for Maj -Gen. Ste-

e pistol raite. Gienn Range, named was famous for his coolness and ef-for Maj-Gen Edwin F. Glenn ficiency in battle. He surrendered Greensbord Whrid War I hero, is with Johnston on April 26, 1685. one of the likest type onti-tank General Nash, for whom Nash ranges equipped with a motor-driven both named, was tegarded by Gen-raited for Brid-Gen William Lee eral Washington as one of the Revo-Davidson d'Irddell County a Revo. Intionary War hero, is another type arti-tank Taike, Pender Range A monument has been erected to sort-tank Taike, Pender Range A monument has been erected to Pender Edgeombe County Civil conton, was a West Point graduate War hero, is an ani-antreaft file appointed a brigadier-general by there while Stampson Lang Fai-brigade of Nord County Civil Conton, was a West Point graduate for Brid Can Bengeon Lang Fai-brigade of Nord Can Bengeon Lang Fai brigadier de Stammanded the for Brid Can Bengeon Lang Fai brigade of Nord Carling research for Brid County Civil Conton Counts Carling research for Brid County Civil Conton, was a West Point graduate for Brid Can Bengeon Lang Fai brigade of Nord Carling research for Brid Barban Lang Fai brigade of Nord Carling research for Brid County Civil Conton, Barban Bar

AN PRARLE

Commissioned



Leonard Grean Weaver 600 of Mr. and Mrs. B. C. Weaver of Holly Springs, Route I, has been commissioned a second lieutenant in the Army following completion of officers training at Fort Monmouth, N. J. A graduete of the University of North Carolina, Lieutenant Weaver entered the Army in July, 1941. Prior to entering the service he was employed by the Compensation Rating and In-spection Bureau of North Carolina.

Ramwur Range, for Maj-Gen. Ste-pher Di Rardseut. Lincoln County Civil War Herci a trench mortari for Bil Raber fr LL Com Dan's mortar range. Hill, furmer North Cambin -General Pettigrew, for whom the Military Institute/superintendent, a four rifle ranges have been mamed. Status tange: Barringer Range, inta graduate at 10. He was ap-pointed so general by President a matring ginner Allow. General Pettigrew, for whom the Military Institute/superintendent, a four rifle ranges have been mamed. Status tange: for Brit Grow, N C. Civil War hero, pointed a general by President General Bragg Renored. Camp Bilner Also honors Gen, was burled in Rafeigh and his body Braxton Bragg of Warrenton, the family estate at Lake Scuppetnong. Camp Brings also honors Gen, was later moved to Bonarva, the process of Warrenton, the was later moved to Bonarva, the process of Warrenton, the was later moved to Bonarva, the process of Warrenton, the surger state at Lake Scuopernong, was named. Brake Range hat is General Hoke of Lincoln County of pirtoi mathe. Glenn Range, named was famous for his coolness and effort. Naj Gen. How the Grand the surrendered for Maj General Hoke of Lincoln County of the surrendered for Maj General Hoke of Lincoln County of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for Maj General Hoke of the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrendered for the surrender

THE SHERE FIRE WARDEN BURDEN BON THE ST



of Stonewall Jackson's Corps and participated in the battles of Gettys-burg: Wilderness and Spotsylvania. He was bromsted to major-General in Janei 1894, and was mortally wounded at Cedar Creek, Va. the same year.

General Hill, a South Carolinian by birth also a West Point gradu-ate, was a member of an reademy class which furnished 12 Civil War class which nitnished 12 Civil War generals? In 1854 he joined the Da-vidsob College faculty and five years; later became superintendent of the Meth Carolina Milliary In ti-tute at Charlotte. He organized tote at Charintie, he organized North Carolina's first military train-ing chmp. He was appointed in rapid succession, brigadier, major and lieutenant.general. General Barringer, another Uni-

versite of North Carolina alumnus, practiced law in Contord. He be-came is major in 1863 and shortly after yards a lieutenant-colonet and atterwards a lieutenant-chipaet and i informati brigadieriseneral. He fought in 76, ents, Mr. engagements and was counded, of Dover three filmes. After the war he re-sumed bis practice of law on Char-dell'Count-

winned bis practice of law in Chai- dell'Count-lotte. A in the Fou-Bragg has been thamed, was born promoted in Warrenton. A West Point grad- colonel for uate, diam of 1837, he had a colorfulling discrete career, the was appointed briga-discreterial in 1861 and the follow- discreteries ing year a major-general and full ment is er general.

General William Dorsey Pender on Colles was borg in Edgecombe County, named for Also a West Point graduate, he saw action in New Mexico Collegent Also a West Point graduate, he saw General action in New Mexico, California, Greensbor Oregon and Washington statelIndian graduate, battled. In 1861 he became a colonel manded ( and was later promited to brigadier general, 141 29, he was promited to brigadier-Major general and was considered the 83rd D one of the Confederate army's ablest Chilicothe officere

officers. Gen: William Lee Davidson of Ire- Genera General BOTLAN PEARCE INTERNETINGTON STORE





-Now that three pairs must le quality is all-important. I shoes are made of flexible. legthers. Besides being sensi tical . . . girls love them be smart, too.

(THURD FLOOR)



prisoper



Philippin informati

The American Control Could Harf ended by new Your + Heard on the second of t 1. j. j. ( the second secon sould that they by seeked their energy store their and set great first that still raged muchenked 24 hours led to night.

Boldiv challenging Japanipe ses power within 1 200 miles of Tokyo, the American five caught the 19-land + defenders is mpletely by surlent of use and destroyed 20 pertheir rollitary metallations

Nimitz, Breaking the official al-Nimitz, Breaking the official al-Inet that has shroulded the opera- Air Assault On German Eu-Incential has structured the hippra-tion across last work when the Japp incent radius roce ded that As Par-rifle ourgast was under attack for the second time store the war began, disclosed, that the carrier planes first raided the sland at dayn and centinued to fix over in waves the suppost the day.

Two fighter planes and one torand all three apparently fell ported that the permises marks out ing of energy access and a set of action and that not a single enemy plane rose to challenge the attackers.

Tree started throughout the Island still were burning the day following the attack | Nimitz's communique said indicating that the mainland.

Seven twin-engined Japanese companied the hombers

Heavy bombs showered down by the raiders wiped out hangars troop betracks, and fuel and ammunition Jap trawler nearby was attacked

silence to give full details on the on one operation escerted bombers attack, and N-mitz' communique on the Lille and Vitry-En-Arlois way interpreted as meaning the attacks and started one of the war's warsh:ps had retuned to A base or biggest dogfights. "sale" zone. to #

was made on March 4. 1942, when a wing covering the Marauders shot force under Adm. William F. Hal-down six Nazi planes and damaged

to the southwest stand, 875 miles "I never asy the sky so full of from the new stlock came posted. "The dogfights were still from the Tokyo ratio which an going on when we crossed the neutricid on Sept. I that American const." A separate force of the tree were believe riers were benibug and machine-gunning its installations.

at that time stated only that a raid on the is and was scheduled to have begun on the morning of Sept. I.

### ALLEGED WIFE SLAYER CAPTURED IN GEORGIA

Charlotte, Sept. 8 - UP-The Cher-Inite FBI office announced tuday the arrest at Delmar, On. of Cecil Silver. 23 who, Agent A. C. Schlenker said, vias wanted in Yancey County In connection with the slaying of his fe last April

and Shiriff R E Neill hlenker Yancey County was preparang to return Silver to the Yancey County iatt.

### SURRENDER IS CHEERED

a the prisoner Wheeler today greeted with Can:p

Lon, D. L., to Miami, Pin. Richmond, Va., Ralaigh, and (harlosian, S. C., Savarmah and Prunewich, Ga., and Jacksonlile, Daytons Beach, Orlando, Vero Beach, and Wool Palm Beach, Fia.



rope Building to Climax; Italian Air Bases Help

BY GLADWIN HILL London, Sept 1-47-The Allied

aerial pincers on beleaguered Ger-man Europe closed tighter today as Italy capitulated and Britzin-based pedo bomber were the only Ameri-can luser in the smashing blow, bombers, operating in close con-cand all three apparently fill at the cert with the Mediterranean drive. start of the attack, for Nimits re-continued their intensive hammerported that the bonihers blusted the ing of enemy sirfleids and commu-

> ing toward an eventual climax like that in the south

which the Italy's capitulation. air battering from Britain materi-ally hastened by hampering both nerial and ground reinforcementa tak force had blocker in the verifie the will in turn give imperior to the ity for almost 48 hours, despile the will in turn give imperior to the fact that Marcus is only four hours weitern campeign, permitting closer fiving time from the Japanese concentration of Allied air power on the Germania crumbling European fortress.

Seven twin-engineri japanese litalian air bases, in addition to bombers caught aground were de-stroyed by machine-gun fire from providing an advanced striking point against Germany from the American fighter planes that ac-south, were also a likely terminus for shuttle-bombing from Britain. Flying Fortresses already have shuttled much farther to North Africa. duning strips on the Island, while a American Marauders followed Jap trawler nearby was atjacked and sunk. N'mitz revealed the task force was N'mitz revealed the task force was N'mitz revealed the task force was Nazi air bases in France. Lille-Ven-errmmanded by Real Adm Charles A Pownell, UNS The Navy had held up all infor-mation on the Marcus sland raid were brought down in these raids. for a full week, stating that the task force had not broken rado silence to give full details on the por energing exertable more started bombers

One squadron saw more than 90 The first assault on Marcus Island German fighters. A Polish Spitfire

was hit on Thursday by Ameri-Navy spokesman in Washington can Flying Fortresses and on Sun-hat time stated only that a raid day by Typhoons.

Evening brought no confirmation of the noon Paris radio report that American bombers had raided Amiens and Abbeville again, but toward dusk coastal observers rebombers streaming back across the channel from attacks still unan-

nounced. Fliers reported that in the attack upon Lille-Vendeville, near the Belgian frontier, direct bomb hits blew up a hangar and a German transport plane.

transport plane. American Thunderbolls swarmed through the skies of northern France and Balgium while RAF fighters tangled with the Germans BY ITALIAN PRISONERS over the continent. Eight German Maron, Ga. Sept. 8 -(A)-Italians planes were brought down with a of war camp at loss of five Allied fighters.

cheers the appropriement of Italy ADMIRAL LEARY VISITS

Funeral rises were held at the conclusing during the last three Biptist Church in Carthage at 3 months, with the courts imposing a o'clock Wednesday and burral was total of \$2,060 in time for volations in Crose Hill Complety at Carthage while OPA collected \$2,226 M in con-Surviving are his wife, the former Miss Allie Caddell of Carthage; one son, Charles A. Ross; one brother,

# **ARRIVE AT CAMP**

### Italians To Be Given Processing Period at Camp Butner; Not Ready for Jobs

Cartin Butner Sent 2 -- Exactly at 11:30 p. m. Tuesday a prisoner of war train pulled into the Camp Butner siding with a trainload of captured Italian troops, who have recently been transported from the battlefields of the Mediterranean area.

As the prisoners filed out of the coaches, Camp Buiner armed guards lined them up in sections of three columns each to await removal to the internment area.

Their uniforms were of varied hum, domoting different branches of service in the Italian army. A few of the med wore American faligue suits given them by Yankre sol-diers. Cigarettes of American make

oiers. Ligarettes of American make soom made their appearante. On their backs they carried non-descript packs of all kinds-field packs musetts bags, and just wrap-ped bundles with articles of clothing protruding from them. They stared with quizzles! ex-

pressions at the American soldiers who did not seem to bear them any animosity, but merely stood a and kept a firm hold on their WOODODI.

At commands from Italian-speak-At commands from latisfipped ing American soliders, they march-ed up B street in long columns on their way to the internment camp. danked by the military police of this sarrison sfoot and in jeeps.

Once they have been safely placed in the compound, they will be procensed and assigned to certain duties involving their own administration After processing, which is expected to take a few days, is completed, the men will be made available for employment under the supervision of the War Department and the War

Manpower Commission. Manpower Commission. Colonel Huslier, post commander, pointed out that all the rules of the Geners Conference will be carried out to the letter and that the in-tarned men will be treated as honorable prisoners of war.

"Thai does not mean we will pamper them," said the colonel, "but they will be given firm, but just, humane treatment."

### ALL BUT ONE SCHOOL OPEN IN DARE COUNTY

Manico, Sept &-Dare County schools have opened, with one exception, and work is progressing in ported more formations of medium regular order in most of the schools. according to Superintendent R. L Laske.

The exception is Stumpy Point, which is both elementary and high school. Only one teacher has been secured as yet, and it would be im-

the opening of hois school. Ayon was also hard hit by the teacher shortage, only three out of His parents now reside in Hertford, rist teachers having been secured. Cong. These three teachers are substitutes. Annivermary Observed who are holding the classes together while waiting for regular teachers to come in.

Biste."

tributions in the U.S. Tressury representing charges made by retailers in ancess of maximum cell-

cases apped the total number of cases receiving enforcement action in the Raleigh office to 1,536. The figures cover the period ending August 21.

"These figures indicate fine pub-lic support in reporting violations of rationing and price regulations to the local War Price and Ration-ing boards," Johnson said. "During

the 13-month period previous to June, reports of violations were about 30 per cent of the time un-worthy of anforcement because in-Today, however, less than 10 per cent of the cases coming to the district-office from the local boards are not serious enough for court action.

"Compliance with price ceilings and retioning regulations is improv-ing and the Raieigh office is puting more power into enforcement action where violations are re-

He ennounced that during the June-August period a total of 14 criminal prosecutions were com-June-August period a total of 15 criminal prosecutions were com-pleted, with 11 court fines and three Jail sentences being imposed upon violators. Other enforcement scilor included 275 warning letters and conferences, one dosen preliminary and final injunctions, seven suspension orders, and five cases adjusted by companies.

CONCORD PASTOR TAKES WILSON CHURCH POST

Concord, Sept. 8.—The resignation of the Rev. Clyde IL Baucom pas-tor of the McGill Street Baptist Church for the past ten years, has been submitted and accepted in con-ference, it was announced today. He will leave Concord an Novem-

ber 1 to become pastor of the First Baptist Church in Wilson. The McGill Street Church has shown rapid growth under Baucom's

pasterate, growing from a membership of \$78 to about 850.

After, attending Wingste Junior College, the Rev. Mr. Baucom continued his education at Waire For-est, graduating in the class of 1939, and in 1932 completing his studies the Southern Baptist Seminary at Louisville. He has been mod-erator of the Cabarrus Missionary Baptist Association for the past two Baucom has been a trustee yeers. of Winmate Junior College since 1935

### HALIFAX BOY WOUNDED IN BATTLE OF MUNDA

Halifax. Sept. &-Mrs. Badger Reed of Hallfax received a letter this week from her brother, Wallace Hammil who was wounded several weeks ago in the Munda battle. He stated that he is now several ed a portarit of miles behind the lines and is resting neer Jersey bre comfortable in a hospital on New Georgia Island. He was in the hos-pital when the Japa made their air attack peveral weeks ago and he Biltmore Farm stated that he thought he was the breeder having stated what he though he was the ling Jersey durin luckiest person in the hospital—that ing Jersey durin he received not a scratch from the sented by J. A. attack, even though most of the specialist of St possible for one teacher to teach he received not a scratch from the elevent grades. Leake said that he attack, even though most of the could promise no definite time for other patients were wounded by the bombs or flying shrapnel. He is a native of Halifan County.

hese three teachers are substitutes, ho are holding the classes together hits waiting for regular teachers ocome in. Buxton has two substitutes out of creating the substitutes out of courts anniversary as a mapping creating the substitutes out of courts anniversary as a substitutes out of courts anniversary as a substitutes out of courts in substitutes out of co

PLANE BRINGS FOR BURLINC Civil Air Patrol Drug for Bro Il at Duka

Durham, Sept. 8 Nicholson of Burl Patrol pilot, was re serious condition i tonight a faw ho been administered here by plans from pital at Norfolk. Lieutenant Nich

stated is was entr on the condition o suffering from sta been a patient h five days.

Major Frank E Carolina Civil Air mander, requested made available to olann and 800,000 arrived at the Rai port about 5 p n piloted by Lt. Pa Alfred Kendricks, CAP on active du transferred to a w which was given r heroital.

Another 1,000,000 was scheduled to during the night. the Army Air Top

JERSEY CATT HOLDS A Average Price La \$354; . Trophies

Statesville, Sep consignment sale

ling Jersey Cett' here Tuesday, wit 600

Buvers were h Florids, Virginis, parts of North C purebred Jersey a for \$850.

The sale was u of sales manage Dean W. Colvarc sey Club, and th composed of Ted farm, Charlotte, Biltmore Farms, Robinson, Grena Fally.

Dr Howard W Hill president o the sale, which by Laurence B. field representati Jersey Cattle Cl Lewieburg, Teni Prizes were offe animals best fit lows:

First prize. Wr of Biltmore; sec of Monroe; third Mrs. Huntington J. W. Hendri mont Experime: of Animal Indu the portrait sal! A large silver

to be held in th aloner of Agric Raleigh, Judge Biltmore Farm American Jerse

KINSTON IN FROM

er is e Address

the Institute

a weakness in American y-the lack of ethics. Dr. ation. In fact, we have beaccustomed to corruption office that we seem to be shockproof and impervious is well known that jobs are and soul of the political also well known that politicians in many of our te contracts for a let of up-y things in order to create to contracts for a let cf up things in order to create EXCHANGE HOLDS cities of millions of dold in the last analysis robe t me, the taxpayers But t seem to mind; we nardly anything about it.

#### Examples.

instance, there's Philadel-that city the City Fathers ree subway shelters, at huge expense, and not a one has en used. But their construc-ated jobs for the voters.

estimated that \$125,000.000 e annual 'take' in Chicago the days of 'Big Bill' Thompwas small pickin's this nd ed to the amount taken by ermak and the Kelly-Nash e. A total of \$33,000,000,000 ated to have passed through nds of the Kelly-Nash manus brydny. * must love crooks in this

we would not elect so of them to high office. n said, and well said. 'Steal go to jail; steal \$5.000 and steal \$500,000 and have a ient erected to you; steal 30 and be elected to office."

all corruption and theft is nd in the nation's high places. look at the doings of the 'man and woman. The own-national drug firm had Leonreler, distinguished crimino-to give the lie detector test of his employes in 50 of the stores. All but three agreed the test.

he remainder, Keeler's tests -and the tested employes red-that 76 per cent of them len from the company. None money, but the women emtook such things as perfume. igarettes, and powder, while n employes stole such articles r blades, tobarco, and shaving

#### 'Hale Upon Sur-

haps, one reason for the low f our ethics is the halo we on success, but not upon the of attaining success. Just so of attaining success Just so a gets to the lop we don't ow he got there. Right after where he had some to escape abury investigation -- I saw him conference. one of the greatest ovations ver witnessed. And Walker his crew mulched the City w York of millions of dollars. Juvenile Delinquency. riously, the low state of our

l right. there been a terrific increase enile delinquency "Prinkty, Nonday, but ha bomba were anophot. n't know, We do know, how A Finnish communique said 203 that wartime conditions have persons also were injured and that d up a state of affairs that al-uther parts of Finland had been has existed. Undoubtedly, bombed. has been some increase be-of the entrance of to many and Beyet (Tailion) in Estonis also

Four other occupants of the Pil-Four other occupants of the pren car were injured. Clarence (State Commission Jusenile Maining 1) was huil about the nev and a distornished brad Ars Vernun Jackson, his sis-gest, was introduced by ter, suffered a broken arm and other Institute Friers B Denny busiliances the doubler Anna Norm Justice Errery B Denny injuries. Her daughter, Anna Norm State Supreme Court Dr. Jackson was injured painfully. An-is the only speaker to mike other daughter, Hallie Jackson, was earance in the five-hurt slightly. All live at Robersonlville

Charlie Spruill, Negro, driver of

the truck, was not injured. buy Academiss in Anniholm in truck, was net inputed, in-the lack of ethics. Dr. Highway patronmen stated that said. "This weakness ex-Spruill's truck was parked across roughout the body politic the road and he was jacking it up sund in high places as well to make repairs. The front wheels Ethics in high places are were in a ditch, and the lights of the the state of the base demonstration and the lights Ethics in high places are were in a ditch, and the lights er than the ethics of the shone downward toward a field, officers reported.

The car was wrecked; the truck

was damaged badly. Pilgreen and his party were on their way to Hookerton in Lenoir County to notify Clarence Manning's and that contracts create relatives of the funeral of his sister, who died near Everetts Sunday.

SCOUT PROGRAM

Club Votes to Sponsor New Troop; L. Polk Denmark **Talks on Scouting** 

The Exchange Club last night joined in observance of Boy Scout Week-and the club's observance was featured by decision to sponsor a new troop of Scouts in the Deverrux Meadow Section of the city. Organization of the troop will be completed under direction of a committee composed of Jim Weaver and Arnold Peterson.

The speaker at last night's meeting was L. Polk Denmark, a member of the executive committee of the Occoneechee Boy Scout Council and the oldest active member, in point of service, in scouting in Wake County. Denmark gave a review of the history of the Boy Scouts of America, who this week are cela-braing their 34th affiversary. "Scouting." Denmark said, "Is es-sential in our American life. There

are no teen-age problems among Scouts

The Boy Scouts of America have been one of the main agencies in our various salvage campaigns. They have done nuterinding work in thu salvaging of rubber, paper, scrap metal, musical instruments, and books, as well as in the distributing of government pamphlets and post

ers Last night's meeting was conduct-ed by Vice-President D. L. Corbitt.

### **FINNS**

#### (Continued from Page One.)

The Helsinki radio and press more than once have indicated that it was unconditional surrender at which the Finns saged, but the British view is that Finland is as much i German satellite as Bulgaria and. whe got there. Right after like that country, can expect no Walker returned from Bu-here he had sone to except terms except those of the Casablance

That Russia holds a similar view seemed underlined yesterday when Moscow officially denied that peace negotiations were proceeding with Helsinki or that an ultimatum for contributes to juvenile delin- surrender had been dalivered.

If children see their par-If children see their par-Stockholm dispatches said fires at dishonesty, if they still were burning in Helsinki at In high office, they are moon from bombs which hit 200 mapt to think such actions buildings and killed 38 persons Sun-tight. A set to the set of t

Another alert sounded at noon enile delinguency" Frankly, Monday, but no bomba were dropped. n't know. We do know, how- A Finnish communique said 233

to Pitt tignerst Reepin died shortly after arrival. Volunteer first-alders worked over them sense time.

ambulance transporting

The ambulance transporting the injured boys broke down on the way to the hospital. Bruce Skinner was a con of Mr. and Mrs. W. R. Skinner. Billy Ward was a con of Mrs. Mary Louise Ward. Funces accomments have

Funeral arrangements pern made. Felz 8, 1941 **ITNER BEI** 



through appropriate reassignment where needed, the War Department

said The following categories of Army personnel will be transferred to the centers.

(1) Battle casualties, other than members of the Army Air Forces. who have been discharged from hospitals and are capable of useful service in a different branch of the

(2) Personnel returned from over seas for whom no immediate assignment is available:

(3) Personnel made surplus tem porarily by the reduction, inactiva-tion or reorganization of their units; (4) Personnel whose qualifications aggest reassignment would be

suggest reassignment would be beneficial, and, (5) Personnel rejected for over-

seas service at ports of embarkation and staging areas.

The centers will not handle Wacs and members of the Army Nume Corps, nor physical disability cases. disciplinary cases, officers over who are subject to relief from astive duty because no suitable posiusing states to which they can be assigned, or officers qualified for duty in their individual arm of ervice.

The normal residence of any individual at the center will not be greater than 10 days. Classication and evaluation of personnel for appropriate Army jobs will be initiated promptly upon their arrival at the centers.

mended for additional training so that they can be assigned to duties other than those for which they were previously trained, in the event unit vacancies do not exist MERCHANTS CONSIDER for their particular specialties:

WAKE BOARD RECEIVES

dedicated to Norman Airks first club member to lose his life in the

club member to lose his life in the current war Lieuzensn' Hick-mather Mrs Revisah Hicks, and his slater, Gertryde Hicks, were special guests at the luncheon meeting Captain Whoten was a member (if the first contingent in American fighter pilots in land in Paland, in June, 1907. After taking part in the rweeps over Praces during the Disport debacks, he was transferred to Gibratter for an use transferred to Gibratter for an subow and the Sicily show, and had jurt begun work over the Italian coast in August 1943, when he earned the trans-fer home. ter home

He had completed 135 missions for a Re hed completed 13 missions for a total of 300 combat hours. Els score included five planer shot down and six damaged and probables. At present Capitain Wootan is atationed at Bu-menthal Field near Wilzerfion - Th Tough

be known as the Eastern Personnel Reasafanment Center and will have an initial capacity of 4,000, which may be expanded later to accommo-tools in front line hands is the War date 6,000. A Southern center will be set up at Fort Sem Houston, trexas, and a Western center at Camp White. Oregon. Each center will use established camp facilities and no new com-the prooding drives because by the camp facilities and no new com-the prooding drives because the with be 508,000 American soldiers overseas They are the prooding drive because by the camp White. Oregon. Each center will use established camp facilities and no new com-the prood of you and help them win by arming them win by arming them with be boys fill up the holes in the front lines with aircraft, tanka, and artillery Buy bonds units, so as to effect a rapid and efficient employment of their skills. Caption Wooten appressed a keen ad-through appropriate reassignment intruction for the Boysi Air Form, and intrution for the Boysi Air Form, and intrution for the Boysi Air Form, and intrution for the Boysi Air Form, and intertion for the Boysi Air Form, and the set for the set intervals appropriate reassignment intervals for the set for the set for the form and intervals for the set of the set

aier." Captain Wooten aspressed a keen ad-miration for the Royal Air Force, and particularly for its knowledge of serial warfare. He was among the fighter pilots chosen to escort Churchill to he Casabianca conference. A brief talk was made by Lt

A price tail was made by L Rh-thony Evans, who eccompetined Capitain Wooten to Raleigh Lieutenant Evans recently returned from Italy, having completed 50 acrial missions A total of \$77,500 in War Bonda were

A total of paradow in war bonds were bought by Civitans at yesterday's meet-ing Oncer Pitta, War Loan chetrman, auctioned off four tickets in the War Bond Promiers of "Madama Curie" here toright for \$1,000 each President Ryan Bashford presided at

the meeting.

### SILLIMAN EVENS QUITS HIS CHICAGO SUN JOB

Chicago, Feb. 7.-(P)-The Chi-cago Bun announced tonight that Silliman Evans had resigned as publisher and had been succeeded by Marshall Field, editor and owner. "Mr. Billiman Evans has told me

of his desire to be relieved of his responsibility as publisher of this newspaper, on account of the presand under the circumstances I do not feel I can sak him to further sacrifice these interests." Field said in a statement.

in a statement. Evans, in a statement, said: "Mr. Pield asked me to assist him in the astablishment of a Chicago morning newspaper. This has been done. The purpose for which I came to Chicago having been ac-complished. I am grateful to Mr. However, some personnel return Tield for the acceptance of my ad from overseas will be recom-

Evens, numer and publisher of The Nashville Tennessen, has maintained his residence. Machville

SUMMER HALF-HOLIDAY PETITION FOR A ROAD closing for summer months already The usual Wednesday afternoon

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### RALEIGH. N. C. WEDNESDAY MORNING, DECEMBER 6, 1944. ER1

about a month age and will strive form of a culonet of the Greek regu-to have its legislative proposale lar army, "but I wouldn't to the whipped into shape in time for Communists." presentation during the opening But that was not the end of the days of the General Assembly. The day's fighting. Like a forest fire, committee probably will present its it teaped from place to place through uary meeting, which will be held duting the first week in January CHURCHILL TO OPPOSE to coincide with the convening of the Assembly and with the inaugu-ration of Governor-Elect Gregg Cherry.

UNSETTLED-The Board of Education no doubt will be very sorry to learn tomorrow that a "bot contraversy" springing from Mecklen-burg County has not been settled.

The controversy concerns citi-zenr of Berryhill and Steele Creek

crowded emulting in preserver in Britain's policy (nwards liber-bachent by providing transportation, even as some British left-wing far-for some students to the Steele tions accused the government of visited the station hospital. Creek school The students, sup-ported in some cases by their par-ents, refused to make the transfor now are providing their nown trans-portation to Berryhill and the state for the British and the station hospital. Berguizer and between times and the station hospital. At the Tuesday night address. A bloc of Laborite members General Marzball, Introduced by pressed for an immediate full-dress General Marzball, Introduced by pressed for an immediate full-dress of the world, mave a graphic gicture down. The House speaker refused of the mobilization, training and to accept their motion, however, employment of the state of the

now are providing their own trans-portation to Berryhill down. The House speaker retused to accept their motion, however, saying: "I will be quile frank. I. forgered the Mecklenburg dispute. Information was provided by Julian S. Miller of Charlotte, member of the board from the ing. Fenner Brockway, pollical independent was named by the State board to con-sider the dispute. So for mother ing. Fenner to accuse the British meet with the county board to con-sider the dispute. The state board to con-sider the dispute. The state board to con-sider the dispute definite has been. "The consequences may be se-

So far, nothing definite has been So far, nothing definite has been "The consequences may be se-done about the dispute, except that rious," he warned. "Relations with the county board of education has Russis may be involved." asked the State hoard's transports. The Communist London Daily

of Education will hear more about the Mecklenburg dispute, probably at tomorrow's meeting.

APPOINTMENT - The reappointment of the North Carolina Commis-sion on Uniform State Laws was announced yesterday by Governor ł y Broughton.

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st. 1 full text of the address by Dr. Archi-bald Henderson of Chapel Hill on ı'n, Governor Thomas Burke

nđ Dr. Hendetson's address was de-livered at the dedication on October 87 .41 15 of the Burke memorial monolith at the tomb of Governor Burke near 0



yelled angrily that the EDES were the

the city.

COMMUNIST DICTATORSHIP

The Greek people will have a chance to choose the form of gov-ernment they want-whether mon-archy, republic, right-wing or left-wing-he said.

school districts, and it arnie over wing-he said. the rerouting by the Mecklenburg A tense House of Commons heard County Board of Education of the Prime Miniater's declaration-pchool buses serving the two schools weighing it as a possible keysione The rerouting was made to releve in Britain's policy towards liber-crowded conditions at the Berryhull aled countries in its military sphere

BURRE-The Congressional Rec-ord of November 30 contains the maintained."

In working with the government of Prime Minister George Papan-drou, Churchill said, "We cerdrou, Churchill said, "We cer-tainly shall take care that that government is not used to fasten any sule or faction upon the Greek prople



### Army Chief of Staff Inspects a9th Division in Un-

COMMUNIST DICTATORSPIT London, Dec. S. (A) — Prime Min-Ister Churchill asserted today loat the British Army stood ready to C. Marshall, chief of staff of the crush any revolt aimed at setting United States Army, inspected the in a "Communist Dictatorship" in Soch Infantry Division at Camp But-Greece. The Greek people will have a units of the division in training, was a communist of the division in training, was a market a units of the division in training, was a communist of the division in training. Was a communist of the division in training. Was a communist of the division in training. Was a communist of the division in training. Was a communist of the division in training. Was a communist of the division in training. Was a communist of the division in training. Was guest of honor at a dinner tendered by Maj. Gen. Thomas D. Finley. or man contract and the division, and gddressed officers and non-norm-missioned officers and non-norm-grades Monday sight.

employment of the American similar in the war to date. Platoon stault firing problems and company attack problems by the 353rd infantry Regiment were wit-nussed by General Marshall. He also found time to visit various cisases being conducted by other units of the 89th and to inspect the divisions ordinance shops.

With so little time available, General Marshall was only able to pay a brief visit at the hospital but while there, in company with Gen-eral Finley, Brig, Gen. John N. Robasked the State hoard's transports. The Communist London Daily eral zintey, srig, tren, some state division to furnish additional Worker charged that "The British inson, assistant division commander, information on the bus routes in government cannot encape direct and Col. James Trout, post surgeon the area involved. It is a safe bet that the Board of the situation it has provoked." How lists everal wards

As Te Blame. As Te Blame. Is ind a mess hall at the hospital. While cautionsily avoiding placing Manday evening's dinner hosor-the blame for the uprising in Alh-ing the chief of staff was given in ens. Churchill searched that the the division staff officers mess for ens. Churchill asserted that "the the division statt oncers meas for suthority and constitutional govern-ment must be accepted and en-forced throughout the country" bert M. Pool, post commander, and "No government." he declared. "can have a mure foundation so long inglon, as guests.

The Broughton. The Broughton. The Broughton. The Broughton. The Broughton. The Broughton. The Broughton. The Broughton as guesta. The Brough worked out to meet the "immediate grievance" of these competitive

#### Canference Possible.

He said the department was con sidering the convening of the In-ternational Cotton Advisory committee to ace whether an international cotion conference should be called to discuss the over-sit world

**Purple Heart** Mr. and Mrs. L. G. Messer of Route 3, Ralsigh, have reof Route 2, Ealing, have re-cover the Purple Heart award-od porthumonaly to their son, Pfc. Lee J. Messer, who was killed in action in France on June 18. Pfc. Mosser entered the Army in August of 1942, Re had been overseas for eight months at the time of his death.



#### Pledges Efforts to Expand Medical Facilities; Seaboard Doctors Meet

Wilson, Dec. 8.—Speaking at the opening session of the annual con-vention of the Seabhard Medical Soopening sension of the annual run-resources, while the vention of the Seebaard Medical So-nang other traile devantages of the response of the sension of the traile advantages of the self program fors of his administration to an expansion of the health program for school children, and said he great ention-growin would support any program of edu-for school children, and said he great ention-growin would support any program of edu-for school children. The sension of the present of the present tered for the opening session. To-morrow's program calls for a series of scientific discussions and the reading of several papers by promi-inant surgeons and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon and physicians. The fust surgeon at the New York Samuel A. Thompson, associate pro-dominance in this fust two Medical School. Medical School.

Medical School. Sharing the opening program with ments looking tow: Dr. Paul A. Whitsker at Kinston, lion of cotton for president of the State Medical So- not now employed, ciety, Cherry said that "the equal ment of our agric right of every child to enjoy a fair to meet what appe-chance at health demands that the evitable decline in ' State accept the remonability for ket. chance at health demands that the evitable decline in State accept the responsibility for ket. Improving the health of every child. He suggested th no matter whether he lives in the experiment faciliti shadow of great wealth or in the ur-evites be enlarged

ban community. There are thousands of boys and girls seek a solution of a

ban community."
There are thousands at boys and girls
There are thousands at boys and girls
In the public schools who are not reaping the benefits of aducational opportunity for the two states a
suffering from physical defects."
The governor-elect said that 'it
mould be unspeakable tragedy if, for
states and of these are defined their mpinderspiele number of these boys tretrained for peace-line amply solution to a
define the servicement, he asid, but
for the short the short in the short interadded that The servicement, he asid, but
for the servicement, he asid, but
for the short the short the short interthe servicement, he asid, but
for the short the short the short interthe servicement, he asid, but
for the short the short the short interthe short the short interthe short the short the short interthe short the short the short interthe short interthe short the short interthe short interthe short the short interthe short interthe short interthe short i upon to make very substantial additions to the accommodations of our institu-tions of higher learning"

tions of higher learning." Cherry also touched on the General Trund surplus, saying. "Our veterans: have first claim on any reserve thet remains in the General Fund efter me have growided for the relifement of the General Fund Indebtedness." The Whisher find the secondation that

Whitaker told the anoctation that Dr

Is of the Burke memorial monolity at the tomb of Governor Burke near Hillsboro. The address was placed in the congressional Record at the re-of Congressional Record at the re-of Congressional Record at the re-of Congressional Carl Durham haped Hill GREECE Continued how Pars One. Hearing firing, L approached the atom of a more and financial problem apart of do this if the tommyguns which area The streets were compty. Small knots of people stond in doorways Some, including women, were arm of provide trivices come belonging the being able to express their compared for the streets were compty. Small knots of people stond in doorways of provide trivices come belonging the detainghing the tommyguns which the streets were compty. Small knots of people stond in doorways of provide trivices come belonging the detainghing the tommyguns which the streets were compty. Small knots of people stond in doorways of the trivice come belonging the detainghing the tommyguns which the streets were compty. Small knots of people stond in doorways of the trivice come belonging the detainghing the tommyguns which the streets were arm the provided for use against the terms to the post of the cotton-Textile institute the detaing able to express their the streets were compty. Small knots of people stond in doorways form is the tom street arm detainghing the the tommyguns which the trivice come belonging the detainghing the tommyguns which the streets were compty. Small knots of people stond in doorways form is the tom street the tommyguns which the trivice arm at the street arm detail are the street arm belonging able to express their the street arm belong and the tommyguns which the trivice arm belong able to express their the street arm belong and and ferestiged medicine trivice trivice arm belong able to express their the street in the cottom market. The trivice arm belong and area to prevent adequate hospital and medicine trom becoming a resituy.



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### Broughton Tells Group States A erate to Find

Columbia, S. C. nor J. Melville Brou

carolina told the C ber of Commerce the two Carolinas : their positions of do tain economic fields "a program of clo and mutual assist Insugurated and ma The two states, he occupy a dominant textile fields; they for the advantage of resources, water to many other trade 1.1.2

sition, he said, pre sity of at least two

"to the end that w

forest reserved in "that is little short In the post-war the two Carcian have a reservoir power probably ur similar region in

He suggested this sources be develop ar "amazing grow the coming years fleation lines shou amure telectric hig every farm in th The inland wa

the two states ha during this emerge as should have t said, "because of a channel drainage. A vider use of c of the ports of p will indispen some future industrial i

ed that the Car

THE NEWS AND OBSERVER, RALEIGH, N. C., SUNDAY MORNING, DECEMBER 10, 1944.





FORREST TYNDALL.

all of Vy

have Worlds

class, has been in the Coast Guard th the over two years, during which time , hav- he was stationed at the armed guard for 18 school in Gulfport, Miss. He recentughler ly left for overseas duty. Staff Sgt. M. F. Tyndall, Jr., t class, served four years and four months

M. F. TYNDALL, JR.

t class, served four years and four months years, with the Army. If participated in where the battle of Gusdalcanal and servalman, eed at Schofield Barracks in Hal, serv- wall during the lattack on the Isnd the land of Oahu. He received an hondoing orary medical discharge from the Long Army last month and is living at

is employed in defense work at

second Newport News, Va. "istmas Arder Johnson, Abe C. Harper, Aln Leh-In Leh-In Leh-Ing in Langston, Alfred H. Gerrans, Jr. ehman, Milton Hill, Headla H. Kennedy, Kinney, Louis Edward Cox, Edwin Collins k Morand Dan Taylor. Other names will a Jean be added as necessary and the club g, Barwill keep a permanent record of the i Ledcounty's World War II dead. II

hopes to erect a more permanent enterone of to come. President-Paschall obe year, served.

A STANDART PLAYMAKERS TO MARK



beys written, cast and directed by sing of sludents enrolled in the University a of the Department of Dramatic Art Tuesdrive day night in the Playmakers Thester.

Since the founding of the group by the late Dr. Frederick H Koch



### Camp Is Designated as Location for New Huge Redistribution Station

IFIDUIION STATION Durham, Dec. 8.—(AP)—Installation of an Army ground and service forces redistribution station, post type, to handle reassignment of overseas miurnees at the rate of 8.000 per month has been announced for Camp Buiner by Col. Herbert M. Pool, post commander. The redistribution station will replace the present Eastern Personnel Reassignment Center, now located here, which has been handling an average of 400 men per month.

dling an average month. The change means a great deal more to G. I. Joe, who has done his bit on the baitlefield and is being sent hack to the United States, for it will bring him two weeks or more of "good old U. S. A." while Uncle Sam is studying his newest job in which he will contribute his share toward winning the final victory.

Colonal Pool said that one of the most complete aports and recreational centers in the United States is planned for the station, which will follow the newest Army policy of giving the returnee an ample opportunity to rest and relax while his next assignment is being prepared.

Li. Col. Robert C Hanes, commanding officer of EPRC, also will be commanding officer of the new redistribution station Colonel Hanes is a man who should understand well what the average Gi will want to find in such a station, for

want to find in such a station, for he is a veteran of 28 months fighting in the Southwest Pacific and holder of the Silver Star award for gallantry in combat. His staff will continue duties as

His staff will continue duties as at present in the new set-up with Lt. Col. Cleveland P. Coe as executive officer; Maj. James E. Millard, as adjutant, and Maj. Glendon R. Long, control officer. More than 50,000 vcterans have passed through EPRC but it is expected that at the nearong rate of the

More than 50,000 veterans have a parsed through EPRC built is a expected that at the planned rate of processing, which calls for a turn over of 2,000 men each week, that figure soon will be passed by the new station

Inew station. Every effort will be made to make the station as free from the restrictions and routine of normal sormy life as it is possible to make them.

#### Assault Charge.

Durham, Dec. 9. -(A) - A warrant charking assault and battery on a female was aworn out Thursday against T. L. Bailey, Jr., superintendent of the County Home, by Thomas White, Negro, son of Ida White, who alleges she was beaten up by Bailey when she attempted to visit her husband at the institution last Saturday Bailey claims that he "used only such force as necess sary to remove her from the premfiers when she persisted in visiting"

on off hours". It is said to take four tons of tresh grapes to make one ton of dried ralains.

CHOOLS, INSTRUCTION



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### THE NEWS AND OBSERVER RALEIGH, N. C. SUNDA' MORNING JANUARY & 1941

# Butner General Hospital To Be Closed by March 1

### Rumors at Durham Say That Entire Army Camp May Be Closed by April 15

Durnam, Jan 5 .- (4)-Camp Butner's General Hoppital has been declared excess and will be closed not leter than March 1. Surgeon Gen. Norman T. Kirk Washington today. Kirk explained! that with the diminishing needs of the Army many general hospitals throughout the country would be clesed within the next few months. He added, that with the concur-

rence of the surgeon general of the Fourth Service Command, he was erelering the Cámp Butner hospital to close by March 1

A check with Camp Butner offic als tonight/brought the information that orders had been received there r gt to receive any mode patients. The reder is effective immediately, LL Arnold Silvert, public relations officer, stated.

Camp Butner's Convalescent Hosritsl and Hospital Center, the latter á reparation point, where closed December 15.

Although nothing official could be learned tonight, it was reported in s veral circles that all of Camp Buti er would be closed down by April 15 Four companies of Wacs, who have been serving in the hospital, already have been discharged of transferred and the prisoner of war camp has been shipping captured Germans back to Europe as rapidly as possible. However, it will take reveral weeks to complete the job. it has been reported. Bue to the fact that several thrusand Nazis have been brought here for processing.

#### Transfer Rumored.

Reports have been current for said, on any grounds. werks that the Frurth Division would be transferred, rumors hav- position ever since it started con-

# **UNO DELEGATION**

#### Continued from Page One.

ment expressing the determination [ but the Navy's militar of the American representatives to work for the success of the UNO, bargoes were placed on which he described as "a great ad-lost and other products to venture in world cooperation."

With the American party on the announced in Queen Elizabeth were the UNO into, Stark replied delegations from Canada; Brazil, Argentina, Cuba, Uruguay, Panama, and Colombia.

The entire American group was scheduled to meet Monday to get down to business for the opening session of the general assembly Thursday.

### ALCOA

#### Continued from Page One.

to use its power over patents and processes to control the competition of Reynolds or to exact concessions from the government that will still leave ALCOA in substantial control. of the aluminum industry.

"We are told by RFC that representatives of ALCOA have made statements that suggest the company may be unwilling to grant a license or discuss its terms unless the antitrust suit against ALCOA is settled or dismissed."

#### Not Settled.

Last March a special United States circuit court found ALCOA to be a participant in a monopolistic conspiracy violating the Sherman antitrust law, but the ultimate question of whether the company was to be dissolved was left unsettled.

Wilson said Symington's charges were "absolutely without founda-lion." ALCOA has not refused to grant licenses under its patents, he

"It has been ALCOA's announced ing it that the Tvy cutfit would be struction of the government-owned echt in For' Jackson, S. C. What aluminum plants that it would grant disposition will be made of the di-licenses under its patents to the vision remains to be spen. The same RFC or whoever operated the govationed argument plants on reasonable termis

# PEARL HAF

Continued from Page ever or any intimation would shoot unless we we and then we would no orders," He said.

The M-chigan whether Stark had bee in case of war, at the eral months before Pea The whole situation ha

"We had the militar implement the war plat tinued "We knew it w 'H' of a war, p. ricula with."*

Delemire Yn Stark recalled he had conference while still Cl. Operations that 1942 defensive year in the we would be gathering 1943, that we would go a and "that we would wit Stark related to the

that he warned Japanc dor Nomura before the Japan that if the United forced into a fight it

the end of the Japan The 1941 chief of nav said he told the amba might have some init: but "we would comp them before we got th "I'm inclined to thir with me." Stark added to the Senate-House C vestigating Japan's Dec attack

The date of the for not brought out

Stark, under ques Ferguson sparstedly de United States had any go to war in event J: British or Dutch pesse

"We had no commit ever that we would sh whre attacked he se

Ferguson asked if S at the time reports in Senator Pepper (D. Fla the fall of 1911 The Pepper as a stand "drawn a line" in the ورجود كالمتحد بتوري ستندر

**AND OBSERVER** 

SATURDAY MORNING, JANUARY 13, 1945.

#### INCREASE SOUGHT Nazi 'Superman' Dislikes LITTLE WORK DONE Verdict In Slapping Case AT HOUSE SESSION LIBRARY FUNDS

Marjorie Beal Would Raise **County Allotments: Other** Departments Satisfied

The Joint Appropriations Committee had another easy day yesterday, with only one of the six State departments and sgencies States Commissioner, who superided heard requesting more funds than wars recommended by the Advisory Budget Commission in the 1945-47 appropriations bill.

ra-ind The lone request for an increase in appropriations was for State Ald to Public Libraries. An appropriation of \$225,000 for each year of the * 27 next blennium was requested for this purpose by Marjorle Beal, secnđ.

inis purpose oy Marjorie Iseal, sec-retary of the Library Commission. The Budget Commission recom-mended appropriations of \$175,000 for each year of the next blennium. VER San The fund received \$125,000 for each year of the current biennium. Encouragement to Counties. 02-

îlα. Miss Beal requested the increase in order that the State's alloument Ra In counties could be increased as an Fran encouragement for the 20 countles not participating in the program. Record show that there now is 005 with

one bonk in public libraries for every three people in North Caro-ling and that 1147348 persons in this State are served by public libra ervert en in ries, compared with 2.012,508 served or six in 1**M**1. from

Stanley Winborne. chairman been the Utilities Commission, asked the loint committee for a further hearing at a later date because of rugrien rested "changes" in the commis-sion which Gavernor Cherry now is AIRCRAFT SCHOLARSHIPS considering. The Utilities Commis-Johnrested two and sion requested appropriations of \$47,323 and \$49,423 for the next biizh: a of Ra--The Budget Commission ennium. recommended appropriations of 344.nafield **baries** 594 and \$46,594.

Soth of Following are the requested and commended appropriations for the Helen next blennium for the departments and agencies heard by the Joint eld in Appropriations Committee yesterunced.

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Department of Tax Research: Requested, \$48,365 and \$49,790; recom-mended, \$49,760 and \$51,185 RING Department of Archives and Hiseiver

in Mill tory: Requested. \$152,350 and \$152,d Janrecommended, \$120.915 and 710: 5071 L. \$119,915 Court.

State Library: Requested, \$16.162 and \$16,437; recommended, \$15.136 and \$14,538 Library Commission: Requested.

\$24.040 and \$24.190; recommended, \$21,719 and \$21,719. 11.719 and \$21.719. (10.854 and \$152.348; recommended, Biate Aid to Public Libraries: Re- \$137.978 and \$137.978. claims, holder

ileging of

Race' for Cursing

A Negro employe of the Army ree ervation- at Camp Butner, charged with striking a German prisoner of war, yesterday was assessed a fine of \$7.56 by Mrs. Elsie Garton, United fendant remain of good behavior. The Negro, Jake Battle, 50, of Henderson, went on trial because he "slapped down" one of Hitler's to-called "supermen" who refused work under the Negro's supervision.

Battle, who was in charge of a group of German prisoners of war working on the reservation, entered a plea of guilty to hitting Adelph Rothkegal Battle told Mrs. Gar-ton that he had been ordered to report any German prisoner, who refused to work. Rothkegal refused to work, so Battle reported him to

the proper authorities. Still Rothkegal refused to work. He and Battle argued, and Rothke-gal, who speaks very little English, ursed Battle-in plain English. So Battle knecked the German

down. After Mrs. Garton passed judg-ment in the case, nothregal saked the interpreter what had been doos with Battle. When Mformed that Battle had received a suspended factive had received a supprise fine, Rothkegal told the interpreter to tell Mira. Garton that "It such a thing had happened in Germany, the defendant would have gotten 30 days in jall with no questions, attact ssked.

OPEN TO YOUNG WOMEN College Graduates Are Interviewed at NOR; More Interviews Set for Jeb. 1

Interviews WETO conducted -21 State College yesterday for young women from seven colleges to dewhite Alternal Corporation. Prof. Robert IR. Rice, executive

officer of the Sinte College Department of Mechanical Engineering and coordinator of the Pratt and Whitney firm is interested in obtaining technically-trained young women for positions as engineering aides at quested. \$228,000 and \$225.000; rec

ommended, \$175,000 and \$175,000. Adjutent Géneral: Requested

Camp Butner Negro Pops So-Called Member of 'Master' Race' for Cursing LIODE

NYD

Students from the Woman's Col-legs, Greensboro College, Duke Uni-versity, the University of North Carolina at Chepel Hill, Flore Mac-Caronica at Chapti min, from and donald, Winthrop, and Queens col-lege were interviewed yesterday by Marion Nelson, special coordinator for Pratt and Whitney. She was as-sisted by Paul Leonard of the De-partment of Machanical Engineering at State College.

Successful applicants will enter State College next June to study courses prescribed is a special cur-riculum. They will remain at the college for 12 months. They agree to give Prait and Whitney and option on their services for a period of one year after completing training.

The fellowships cover all tuition. fees, books, instruments, board, lodging, and laundry, and provide a monthly cash stipend. Young wom-en with B. A. degrees or with equivalent training are eligible to submit epplications for the followships to Prof. Rice at State Coleige. Anether interview period will be held on Tebruary 1.

#### TOMBERLIN PAYS FINE FOR GAMBLING DEVICES

# 15-misute reasion 74 sing in City Court, Mur.ese , and continuences were and 24

In a 13-minute session restordery moraing in City Court, Saur.cases were tried.and continuonces were assessment in several sther eases. J. P. Temberlin of Capital Apart-ments pleaded guilty to.a starge of possession of gambing fervice, punch-beards, and he was scopitted of a charge of driving while under the m-lineare of information, Tomberlin was erdered to pay ES and east on the grashing charge. Kader Hemden, whose hidress were fitted as Milreuken, Wis, pleaded guil-ty to a charge of peddiing goods with-out a peddiar's license, and he was ordered to pay IS and east. Sim-den string of a process, and he was ordered to pay the and east. Sim-den string that is is an American ethi-ican but only recently returned to his country after several years in Angria. He was charged with peddiing this is out the string of the pedding the sed linens on Bouth Boylan Avenue between South and Lanotr. Bareet.

Members Invite TVA's David Lilienthal to Speak: Six **New Bills Presented** 

h 1D

By FRANCES NEWSOM.

Little news was made yasterday in the House, which received six new bills and passed one measure-a joint resolution inviting David E. Lilionthal, chairman of the Board of Directors of the Tennessee Valley Authority, to address a joint session of the General Assembly on Janu-ary 30.

Rep. George A. Shufard of Bunequally between the wife and child the estate of a married man who dies intestate and who leaves a wife and one child. The measure provides that if the man leaves a wife and two children, the estate shall be distributed "by equal portions to and among the wife and the two children of the intestate and such persons as legally represent such children, as may then be dead.

Another bill introduced by Shuford proposes that if a married per-son makes a will bequesthing property to his or her mouse, a subsequent absolute divorce of the parties shall "operate as a revocation of that shall "operate as a revocation of that portion of the will or testament which devises or bequestis property to the stame of the testator or lastatrix still the property described in such portion of the will shall pass under an appropriate residuary clause, if any, of the will." The bill further provides that if there is no appropriate residuary clause, the property shall be distributed as if the instator or testatrix had died Intestate. A third measure introduced by

Shuford would provide for a lien for landscaping, amending the Laborers Lien Law.

The Senate bill to reenact the Emergency War Powers Act of 1962 was received by the House yesterday and referred to Judiclary Committee L

The House adjourned in memory of Burton Craig of Winston-Salem, former legislator, who died on

A reque between Bosth and Lenoir of Burton Craig of Winson-Saleth former, a bins of guilty to a charge of speed-ing and driving without a flate driver's license, was antared by Thurmana Ray of 604 K. Salabury Street, and Se was ordered to pay the corta. Continueness were granted in the toi-structions from Fourth Bervice Com-lowing conset: Nethenisi Lisesonh. Ne-fre of dis Smith Street, assault with a deadly weepon, sontinued until Web a deadly weepon, sontinued until Web a deadly weepon, sontinued until Web a deadly weepon, sontinued until Web an subartiers, Atlantiz, post influence of 13 Segwell Avenue, driving an subartiers the influer is all mailing a close check on fuel con-sensels while under its Broeds, Negre et Kd E South Street, driving as automobile while under the Broeds, Negre et Kd E South Street, driving as automobile while under the influence of in boxicants, Friday.



EPORTS YGTON TRIP

T grape theoret. pline, a new ap-tark-up study in exert allocations deral murketing the Heme Agri-Kerr Boott dis-man and United held in Ware of-In Washing-

oppropriation o long-range pro ~ grape sulture at stant Station, In and at the Bouth-ation at Willard ation et Willert id, was discussed ad of the Burgau

the constant pays

fet that funde for llard form be rafe-ully to \$10,000 for supply costs hes 1. Department of

mind to Washingand Ivan Binette, returned to date.

#### CE MEN HAS MISSING

4. Rasse, son W. Resse of Dec. 21, 1944, ac-stion received by War Department ress alightly more Rurle, Jr., are

R. P. Lucas, MI been missing in

on January, 1943 riess in May, 1943, Pennsylvenia, Fle with the invation

S ARRESTED NG CAR HERE Jan. 28 -- (P)-- Two County Jail ral authori-:omi I be furned over to for proscution. son mid today. further mid Ture ·n Id

Grash in Ireland; Snow Hill Man Resourd

A U. S. Bomber Bess, England, an. 21.-...(P)--Two. American Blers Jan. 25. were killed and seven others were restored from a bilrrard in the mour teins of Northern England recently after a Flying Fortress had brashed into the side of a peak, it was dischard today. The dead were Flight Officer Fred

A bis return yes. Halombe, Swannabes, N. C., and Parms division of Rgt. Frank R. Turner, Jr., 1600 of Agrissium in Fickens Rt, Columbia, B. C., a gunnet

It George Kyle, Jr., Steunion, Ve is in a serious condition in a Neurostie hospital with head infurtes.

A 49-year-old shepherd led a rescue party of nine in a three-hour ad of the Bureau clim party of build mountain while the U. B. De-climb up the storm still raged. He had watch-be Approvisione with the storm still raged. He had watch have looked with and creanized the search. DURHAM PAPER STAT

WO inder regenized the search. The shepherd's for found four suber terms huddled in a peak box remed pellet thet the cresh and were barefooted. In the for their com-the group were Bats. Just the consumer more br the group were Sgts. Joel Berly, Jr. Clemion, S. C.; George P. Smith, Louisville, Ky; Howard F. Dalaney, Watertown, N. Y.; and William R. Kaufman, Chicago.

e contrarts stores," assured interest assured the superspectation th ing first ald. All the crowmon except Kyle have

### Campaign Underway. Clinton, Jan. 25.-Wilh a guota ar

et 27,840, the infantile paralysis compaign for Sampson County got underway here last week with 1 23. — Ceptein Manly Jones as chairman. Mrs. husband of Mrs J Schere Royal heads the women's en of Burlington, division, Mrs. Tatt Bass is publicity 4. Rasse, son of chairman, and D. V. Carter is treas-4. Received, son of chairman, and D. V. Carter is Desa-W. Receive of the urar. Various committees have been y, have just been appointed throughout the town and in action. has been missing per and pretty girl contest will be Dec. 31, 1944, ac: held in Clinton on the night of elion received by January 31, instead of the urual War Department hitchday bell. Each high school in meas allship more the content will word a contestant. slightly more the courty will send a contestant. Support and  $A\alpha$  amateur boxing match and trie,  $Jr_{a}$  are square dencing will climar the se-Hutties of the evening.

New Director Named, Kinston, Jan. 28-The First Pres-ylerian Church here has employed full-time director of religious education, the Rev. Thomas H. Hamiltor, perfor, announced today. She is Hortanas Pruitt of Steunton, Va. who will take over her new dulies here March 1. She is a faughter of Mr and Mrs. E. R. Fruiti of Charles-ten, S. C.



Tas Department of Conserva-tion and Development yesterday announced that J. S. Holmes, Sale forester for more than 35 years, bas been made associate State forester, and that W. K. Brichter, who has been with the Division of Ferestry for the past

18 years, has been promoted to the office of Biale formiter. The simulations and was

by Bruce Etheridge, department director, who sold the changes were worked out largely for the purpose of relieving fleimes of stranuous duties and respondbillites involved in the office of Etata forroler.

Halmas, regarded as one of the piencors in forestry work in the country, began service with the old Greiegical and Economic La sid Chelegical and scenario Burvey-with the Wilf of for-orior-in 1900, and has served reptimenting in a similar for New grant of the served of the served New grant of the served of

### DURHAM PAPER STATES

Durham, Jan 25 .-- (A) -Camp Butner will officially close on March with the exception of the horpital and maintenance crews, the Durham Morning Herald will say tomorrow Lt. Arnold Silvert, publicity di-rector of Camp Butner, and tonight Official orders have not been reeived making the station hospital at Camp Buiner a United States Army general hospital.

First Intimation that Camo Butner Hospital would be turned into a classification of general hospital was received this week when 60 veterans of foreign wars were sent here to be hospitalized. Part of the patients were ambulatory while the others were litter cases

#### Unit Citation.

With the Fifth Army in Italy, Jan 26 .- Second Lt. Claude A Barrow, 20.—Second Lt. Claude A Barrow, son of Mrs. R. D. Barrow of Erwin, N. C. is a member of the 128th Field Artillery Battation Service Bettary, which was swarded the Meritorious Service Unit plaque on the Fifth Army front recently. The unit is a part of the 18th (Custer) Infeatry Division unit is a part of t Infantry Division.



Designed to make your pretijest fronks fit with nare a wrinkle. This she for the watering and built up shoulders the watering the fitmening design at the provide the second for the second second second for the second second second second for the provide second second second of the sector. and in costs, for the second second second second for the sector. and in costs, for the second second second second for the sector. and in a costs, for the second second second second for the sector persons the second second for the sector persons the second second for the sector persons the second second avenue. Law FORK 15. W



Scientists . . , those wonds men . . . would never ma extravagant claim. They'll you . , knowingly . found Biodyne R helps offse depressants of normal skin ... that it stimulates the vite take of your skin's tiny cell and see what your mirror t when you begin using SRI Cream ... Day Lotton .... R.' See how quickly you fresher, younger . . . look smoother, soller.

NIGHT CRE

• Not a bornow ... but a world discover actival collator substance frond in an orb stor core proparation. A product of Sport, Inc.

(COSMETICS: MAIN FLOOR)





### hitlow of Leasburg Fighting Family; Thrills Sisters

MacAribura Beadquar-Tel 1-49-Amona the Bataan and Corregidor Batasa and Corregidor applyity by the victori-m Army in the cepture BUTNER HOSPITA an Svelyn Whitlow of Bne.

desighter of Mrs. Caro **ψ.** Σ

Va. Job. L-UP-The inther of Evelyn Whit-Aurs N. C. won't know rescue from a Japanese camp at Manila until to-A two sisters of Danville If'it's wonderful."

"to bre of the 60 Army merican Army of Luzon most from a fighting

ninter, Mrs. B. O. Lee. t; that there, are three military service, two in

nillow of Leasturg won't right is because there are a commutications to the

Hi, and it was a typestcard with her signature mailed in May, 1944, seven fore it was received by w family.

st you atten. With to be

who graduated from the August, 1939, arrived in days before the attack on

bot. -4 rie her family then that i not trade her place Two months before Coril in June, 1942, she sent

time, while the Japs were is the American positions, ribed her condition as

served at Fort Oglethorpe ly after she had requested revice on joining the Army a June, 1940, less than a abe had completed her aid

cribed her as the rter mh dark brown hair rn eyes. She is 28.

GHTON DEFEATED ANADIAN CONTEST

finister D. L. MacKenzie anticipated that instructors and impromise conscription pol-teaching facilities from nearby uni-

Wake Collections Collections up to Polemery 1 1 9746.000.75-er 00.7 per cont-t the 1044 tax lovy was reported is the scenty constitutions yesterday in the monthly rope of C. C. Rich, Wake County is

collector. Rich reported total solicitions of \$139,521.00 hs Jacoury; of which Didd,500.00 wise on the war-rent Hvy, 96,462.30 hs back taxes. Solid unsolicited on the 1944 lovy is \$20,252 hs "Schedule B" taxes. Solid unsolicited on the 1944 for \$251,522,482 as the amount of back taxes unsolicited on fevies from J127 to 1942, healantys.

blueibly reports also ware re-estud by the comministenets, of yesterday's mosting of the beard. from the bounty treasurer, and tor, superintendent of the



ty home, and farm agent.



Chosen To Become Army's Largest General and Convalescent Hospital

Atlanta, Ga., Teb. S .- (F)-Camp Butner, N. C., 14 miles from Durham, has been chosen as the sits for the newest and largest Army general and convalencent hospital, the War Department announced today. The general hospital will specialize in vescular diseases, treatment of military service, two in an theatre, and another isen transformed another isen theatre, and another isen theatre, and will be able to treat isen menth for foreign and will be able to treat 3,200 cases-2,400 bed and 800 hos-pital ambulant patients. More than an isen will be 5,000 convalescent soldiers will be accommodated and given the Arroy's new education-recreation reconditioning program, according to Col

where they live. An tioning program, according to Col-ribers. Marion Whitlow, Robert C. NcDonsid, Fourth Service rear going back home to coll James M. Trout, M.C., for-mer commanding officer of the camp Butner hospital, will assume command of the Camp Butner gen-tron Evelyn was in De-test and the left werd from Evelyn was in De-test and the werd to the convelocent hospital. Pa-Md, and it. were a type-tients will assume to the senaral tients will proceed to the genera timits will proceed to the general hospital directly from ports of de-barkation from overcess and con-valescent soldiers will report to [Camp Butner from after hospitals throughout the nine service com

who graduated from the One of the outstanding activities Bospital nursing school in the varied convalencent program auto mechanics in the Camp Butner ordnance plant. For many weeks Army vehicles which were in use that during the building of the Alcan "for Highway in Alaska have been pour-cor- Highway in Alaska have been pour-enting into the Butner ordnance depot for heavy maintenance and repairs. With the equipment that already

is installed in the Camp Butner ordnance shops, about 1,000 students can work at a time. Such technical courses and practical work as weldwork at ing, carpentry, electric and automoive mechanics, and metal work will be taught the trainees by experienced shop workers.

Surveys have defermined that more than 60 per cent of convelescents are interested in learning more about auto mechanics. The remain der of the convalescent population will turn their interests to sports: word, leather, and metal crafts; games, cabinet-making electrical en-Sound, Ont., Feb. 8. (P) gineering. Army institute courses finister D. L. MacKenzie and little theater productions. It is



N+0 \$15/45

#### Lovechuk Tells of Recreation for Returning Gls: Music by Quartette

Camp Buiner provided the pro-gram for the weekly session of the Lions Club at the Hotel Carolina yesterday, with Lt. Paul Lovechuk telling of recreational facilities provided returning : servicemen and with an instrumental quartette play-

ing popular selections. Lieutenant Lovechuk, athletic of fcer for the redistribution station at Camp Buiner, declared that the men coming home from the war fronts mjoy home hospitality more than any other feature of their homecoming experiences."

"I know many of you in this audia gnow many or you in this audi-ence have taken returning service-men into your homes, 'said Licuten-ant Lovechuk, "but you can't begin to experience the thrill theil comes the three three thrill theil comes to these boys when they sit down to a big meal and again know that there is such a thing as a home.

The speaker said the GI veterand re not going in for vigorous athletics such as they participated in before going overseas. . "If you go to one of them and in-

vite him to play basketball or some-thing similar, he'll say: 'None of that stuff for me, lleutenant; I sol my exercise on Anslo beachhead." Lieutenant Lovechuk said the rec-

ational program for the returning Gis is putely voluntary, the facilities of a big fieldhouse being put at their disposal for their pleasure and at their pleasure.,

"Most of them are inclined to take said the speaker. They It easy." seem to like to just lie around and read and real.

The Lions vigorously applauded the Butner Instrumental quartette for novelty renditions of "Caravan." "Limehouse Bhues" and "Jersey Blues" and "Jersey The group included two Bounce." guitars, trumpet and bass viol played by Sgt. Julie Hansen, Sgt. Gene Ellia, Cpl. Pete Boruke and Pvt. Jack Stanco. Sergeant Ellis won the day's attendance prize. Fregram.

The program was arranged by Ollie L. Carpenier, Dean Malcolm E. Campbell, and Albert P. Park

Neil Hester, chairman of the club "Stork Committee," presented a gift to Lion Garland Midyette-in honor presented # gift of Garland of the recent arrival Eugene Midyette, Jr -- after initiating Papa Midyette by having him est his lunch in the committee's huge high-chair.

W. Paul Lyman, head of the Raleigh stunts committee participating in the Lions VEriety Show of 1945 to be presented Friday night in Memorial Auditorium, announced that final rehearsal for the performance will be held in the auditorium to night; and Wyatt Taylor "general" of the ticket-selling campaign, said a breakfast meeting would be held this morning to put the drive into the home stretch of the goal to fill



#### On Time

on schodule. Is can be disclosed that Febru-ary 4 bad been known among highest War Department offielain for many days as the data General MacArthur's schedule salind for. MacArthur's formal announcement was flashed to the United States at 6:91 p. m. Eastern War Time, Sunday.



#### Wake War Dads Hear Talk on Benefits Provided in 'GI Bill of Rights'

The "rights and benefits" of the members of the armed forces and their dependents under the "GI Bill of Rights" were discussed by Col.

to meet after discharge in order to quality.

to quality. Inat he had obtained the clothes : The educational features of the Emith. "OI ; Bill,"; including apprentice. In the matter of the stolen clot: training and vocational training. were explained. Colonel Joyner dis-tarcony of a pair of pants and a successful and the stolen charge of larcent russed loans for homes, farms, and business, and he gave illustrations of the working of the government guarantees on such loans.

#### 18 New Members.

Is new memoers. The chapter accepted 18 new members at last nights' meeting, bringing its member/hip to 213. President E. R. Ailen presided, and the Rev. B H. Ingle, chaptain, gave the invocation.

Representatives of the chapter will attend funeral services here of all pervicemen, it was decided at last night's meeting

The meeting was held in the courtroom of the Wake County Courthouse.

#### PILOT CLUB MEMBERS VOTE TWO DONATIONS

The Pilot Club meeting last night the Woman's Club was devoted st. to the discussion of numerous business matters. President Lillian Glass Jones presided.

The club voted to contribute \$10 to the Infantile Peralysis Fund, and the itching of Eczema, pimple also voted to contribute \$15 for gry red blotches and other "graduation essentials" to a high school girl it is aid ng.

It was announced that the Raleigh Civic Council soon will bezin a kin look better, feel better, cempaign for sewing old clothes to son's Ointment also soot be given for foreign war relief. Club tired, lichy feet and cracks be membtre were urged to support the Lions Club in its project of obtain- if not delighted. Civil Air Patrol unit explained the in a blind worker for the community. Civil Air Patrol unit explained the in a blind worker for the community. Work of the CAP in a talk at last A report by District Governor work of the Exchange Bizabeth Hayes outlining the work.



#### Frank Smith, Negro, Ser tenced to Four Years for Stealing Clothing

Frank Smith, Negro of 5 Blad Street, was convicted in City Cos yesterday morning of three charg of stealing clothing and receiv road sentences aggregating fo years, in addition, probable cau was found against Smith on a char of larceny of an automobile, a this case was passed on to Wa Superior Court.

Police Investigation of the th of the automobile, belonging to " Rev. L. J. Morriss of 2804 Anders Drive, led to the charges that Sm stole various articles from the Vor Clothing Company, where Smith imployed as janitor from Decemi 28 through January 20.

members or the armed increas and employed as janitor from Decemi their dependents under the "GI Bill 28 through January 20. In the automobile-isreenv case. Sn W. T. Joyrier in an address last night to the Raleigh Chapter of the American War Dads. Colonel Joyner explained that the government's program of assistance being broadened right along, and he urged "a listeners to keep in-formed on the proposis for changes as they develop. He quote's frequently from "Your Rights and Benefits." Government istration, Office of War Mobiliza-tion, Warhington 25, D. C., and said for white later. The two during an enuing provisions which the veterans the benefits provided for veterans, the benefits provided for veterans, the benefits provided for veterans, the benefits provided for veterans have to meet after discharge in order

ating officers, when they question in the sout the cooles he was wear that he had obtained the clothes :

In the matter of the stolen close Smith pleaded guilty to a chart larceny of a pair of pants and a and to another charge of larcen overcast and an Army chirt, all the Vogue Clothing Company. B was entenced to two years on inade on each charge, the sent

The withers to two years on reads on each charge, the seni-to run concurrently. Smith was also was convicted charge of larceny of two port of two pairs of trouvers, and Ave from the Vosue company. He was lenced to two years on the road seniences imposed on the cher chy In another case tried yeaterday. Dieaded guilty to a charge of for it and adultery, and he received a suppended senience. Final full was continued until Wednesday I case of Willie Mae Williams. Neg 5 Bladen Street, codefendant ir morals charge. Judgment was cort

5 Bladen Street, codefendant in morals charge, Judgment was cont after it was revealed in c Smith recently has undergone enurt ne the Smith recently has undergone the irestment cure for a veneral dise Smith did not offer testimony it of any of the charges against him Other Cases. Probable cause was found in th of Melvin Tessles, Negro of 415



A simple way to quick relief irritations, is by applying Pete Ointment to the affected parts lieves ltching promptly Max seoth:0 35c all druggisty. Mor toes.

this area are asked to file their names is immediately with the Raleigh Local pt Office of the U.S. Employment Service

J (white), P.-O. Hox 1270, Releigh, or the

Raleigh Divisional Office of the U. Employment Service (Negro) 113 E 0-

ie St., Raleigh. Deadline for entries idnight May 2, 1948. **n**-٦ŧ

Tamilies whose immediate members 18 (that is, father) mother, sons, daughters, including legally adopted children, but not in-laws are engaged in substi-tial war work; that is, work that has been declared essential by the War n :e. Manpower Commission to be 'essential' nt to the war effort, should submit the names of the workers, the names and addresses of their employers, and the d-18 าก type of work being performed by each one, "Manager L. J. Craven of the USES said. "The largest family flaving

*त*. the most members doing essential war 11work will receive a \$100 War Bond. 113

"Employers are urged to enter a representative, from each of their mills or TP establishments where production work m is being performed, in the contest for

nt Queen of War Workers'. Clerical and office workers are not eligible for entry for this particular feature, nor are agri-22

e- cultural workers, as this is a campaign a against industrial absenteetand Employee are asked to take into consid-eration the best daily attendance record of the worker they choose to represent them: Plotures of the girls must be on

ch submitted not later than midnight, May he 2.

"From all pictures submitted, 18 white on. girls will be selected and will be the at Camp Butner has a new name. It is ter guests of the Ambassador Thestre on Friday night, May 4; also, 10 Negro girls will be selected and will be the he success of the Lincoln Theatre on Thursday flight, May 3, at each of the finals. the audiences will vote, by applause, for the most beautiful girl. A 'Queen of War Workers' will be chosen and nđ ₩. .ed crowned at each theatre, and each will receive a \$25 War Bond." eď lor

Brunk, Disorderly Charges. Two men, Tommy Cox, 44, and Dock' Clifton, 46, were arrested last night following a disturbance on West Martin Streef. Cox was charged with being drunk and Clifton with disorderly conduct. The

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third man involved left the scene before arrival of officers, said police. Clifton gave \$25 bond and was released.

Winners Named.

Payetteville, April 28.-Allie Atkinson and Walter Townsend were nominated for places on the FAYetteville board of alderman in a run-on primary Tuesday. Attrina son, present alderman from the first ward, defeated I. H. Riddle by 33 otes. Townsand won over T. C. Tranklin by 181 votes in the sec-ond ward. A total of 2,181 votes were dast. The election will be Hald in May. Scientists says some earthquakes

occur as far down as 1,000 miles

The Raleigh District OPA yesterday announced that it is "seeking a perma-nent injunction against Taubman's of Wilmington, Inc., Wilmington, restraining the organization from selling, or offering for sale, above OPA ceiling prices and also restraining the company from offering items for sale until the firm complies with OPA regulations on pricing its merchandise."

Acting District Director I. Beverly Lake said that the OFA is bringing this action "because the local War Price and Rationing Board in Wiknington and the Raleigh District OFA office have received approximately 18 complaints over a period of time against the con-DETD."

Lake said that OPA charges that Taubman's, "has failed to keep necessary records and that such action on Taubman's part is deliberate in order to evade the price regulations and to hide records of possible overcharges." Norman C. Shepard, district enforcement attorney, appeared this week before Judge Johnson J. Hayes in U. S District Court at Wilmington in behalf of the government's case. The court deferred the matter until May 4, when OPA's motion for a permanent injunc-tion will be argued at a Raleigh term of the court: 2 / 1945 6 2

### HOSPITAL AT BUTNER ASSIGNED NEW NAME

Camp Butner, April 26 .- The hospital now called the Hospital Center and its component installations are, officially, the U.S. Army General Hospital and the Camp Butner Convales-cent Hospital. This has just been an-nounced in a War Department circular. The commanding officer of the Horpital is Brig.-Gen. Roy C. Hellebower. The General Hospital is commanded by Colonel Hugh L. Prather, who has succeeded Colonel James M. Troutt. The Convalescent Hospital is under

the command of Lt.-Col. Frank L. Alloway.

### VETS' SERVICE DIVISION **REPORTS ON ACTIVITIES**

Pensions, compensations, and other benefits obtained for veterans and their families during March totaled \$54,300, an increase of \$5.022 over the February total, according to the report insued restarday by the Veterans' Service Division of the State Department of Labor.

The report shows that the division handled 1.637 cases during the month. conducted sos personal interviews, arranged hospitalization for 27 veterans, and obtained pensions for 181 veterans.

Se ...

#### THENE OF FIGHTCH

The Campaign launched last spriby the membership of the Calvary Ba tist Church to retire the indebtedne on the church building in 12 mont has reached the halfway mark of t proposed goal of \$14,000, it was a nounced yesterday by the Rev. L. Morriss, pastor.

The congregation and friends w pledged to the campaign to pay week or monthly installments during t period are requested to pay the pledges in full at the worship servi Sunday morning at 11.

The present membership of Calve Baptist: Church purchased the chur building from the Jefferson Stands Life Insurance Company on April 1937, at a stipulated price of \$18.8 With the cooperation of the Bapt State-Convention, which has been pi ing seportion of the interest, the pr cipal on the indebtedness has been

duced to \$5,830, as of April 15, 1945. The Rev. Mr. Morriss began his p torate at Calvary Baptist Church October 15, 1944, and was elected a ing general director of the app Under his leadership the sum of \$5. has been paid on the church debt.

The campaign appeal will conth through July &, until the full amount the indebtedness has been raised i the mortgage has been cancelled.

A special program has been arran for each organization of the Sun-School and Church to bring their spe offerings Sunday morning.

### RALEIGH GIRL ACCUSED OF MAY ACT VIOLATIC

A 17-year-old Raleigh girl, who g her name as Virginia Squires and address as 404 N. Boylan Avenue. bound over to Federal Court yester on charges of violating the May by engaging in prostitution.

Mrs. Elsie Garton, U. S. Commissi er, held a preliminary hearing in CARE. The girl pleaded not guilty. FBI agent trailfied for the governm Bond was set at \$200 and the defent was released pending trial here r week before Judge Johnson J. Haye



Liquid LA

I can tell you how to make folks

Bung offshool from the Farmers' Visit furnishing a large percent-age of former followers of the Rev. Fr. Charles E. Coughlin and per-prins of German origin, it is exten-sively represented in Darke, Mercer. Butler and Hamilton countles. Ohio and in Pennsylvania, Michigan lillinois, Wisconsin, Iowa and Minimesota

It's members did some loud com-plaining about government agricul-tural controls and rationing. That was the invitation for the Nationalwas the invitation for the National-fat to move in. First came Gerald L. K. Smith, collaborator of former U. S. Shnator Robert R. Reynolds, who heads the American Nationalists Party, Then Smith brought in Carl Mote, Indianapolis utilities, owner, who became president of the Farmers' Guild Dec. 6, 1944.

Serious trouble started in Darke County, Ohio, the night of March Y. 1944.

#### DPA Offices Baided.

Fifty rebellious farmers raided the invention hall at Greenvilla, Ohio, and destroyed OPA and Agri-Chio, and destroyed OFA and Agri-cultural: Adjustment Administra-won records. This was followed by two similar assaults. A Federal judge si Dayton pieced six farmers, including their leader, James Mannix, under a two-year probation after imposing suspended prison pentences and fines,

Carl Mote's rise to power in the Farmers' Guild was typical of the sintrigue of Nationalists leaders, who everywhere are on the alert for opportunities to muscle into economic and political organizations

Mote is a lawyer, former secre tary of the Indiana Public Service Commission and part owner of the Northern Indiana Telephone Corp. and Commonwealth Telephone Corp. Jie has appeared frequently as speaker; before "mothers" " groups speaker: before "mothers" " groups and such nationalist organizations as the Cliffers of U.S. A. Commit-tee, a Chicago outift run by Ean Southard and William, J. Grace. Mote was chairman at the convention of Gerald L. K. Smith's Amer-1044. The main part of the division Mote publishes "America Pre- should start reporting into the res-

Mote publishes "America Pre-ferred," a monthly paper which at-tacks the Brillish, Russians, Ameri-can government, Jewa, Negroes, la-bor unions, the Fair Employment Desching Committee and the Ead Practice Committee and the Tederal Council of Churches of Christ In America. He praises the Franco government of Spain and the economic progress of Germany up to 1939. The "Farmers Guild News," published by his farmers' organiza-tions, fallows the line laid down in "America Preferred."

#### Hew Groups Linked.

with all the Nationalists outfits in the Smith and Reynolds camps. Then in came the "mothers," Mrs. Beatrice Knowles head of the De-Bestrice Knowles, nead of the De-troit mothers organization, became chairman of the Farmers Guild's wetbook commission. When Smith rap for president on the America First Party licket in 1944, he took Harry A Romer of St. Henry, O., 6 power in the guild, as his vice presidential candidate.

Mote was planning big things when he took over the Farmers' Guild I have the report of a conversation in which he revealed his smbitions.

Doubling the membership to 5,000 peried the guid to become an im-peried the guid to become an im-portant factor in the National Grange an organization with about 900,000 members. Note said many of his guild farmers also are members the Grange and that some of ~* them occupy prominent positions in Grange activities.

order is returnable at Thibore August 13, when OPA will each to have the tomporary rostreting or-der extended to the final Bearing, Bo said.

The complain in the case sets forth that the alloged violations forth that the history bottload decurred between August 3, 1944, and Janury 27, 1944, and that the prices charged customers by the concern were in sized of the marinum prices allowing 1944. After apice paper for allowing 1944. FIR 41H DIV

Full Strength to Be Reached by Sept. 1: Division Chief Arrives at Post

Allive's all rost Durham, Aug. 4.-(P)-The assist-ant-commander of the Fourth In-fantry Division, Brig. Gen. James S. Rodwell, arrived here Friday, night after e nine-day notor trip from his home in Rio Gunde City, Texas, to direct the advance units of the "lvy" Division slated to re-port within the next few days. He was welcomed to Camp Butner by Col. George M. O'Connor, com-manding officer of the 28th Detach-ment, Special Troops, Second Army, ment, Special Troops, Second Army at his headquarters.

This morning General Rodwell was officially greeted to the post by Col. Herbert M. Pool, camp com-mander. They held a half-bour conarence.

The veteran of two wars stated that he expected the advance party to report on August 8. This detach-ment would number 141 enlisted men and 44 officers. They are representatives of the various units of the 4th and their duties are to provide a plan of training and direct the units to their areas.

Also expected to arrive within the next day or two is the chief of staff of the "Ivy" Division, Col.

ervation around August 15 with the ervation ground August is with the 4th reaching full strength by Sept. 1. Mal. Gen. Harold W. Blakeley, commanding general of the "Ivy" Division, is expected to arrive here about two days before the first organizations start pouring into camp. General Rodwell is a vetaran with 10 battle stars. During World War I, he was a member of the 2nd Infantry Division. He shered the Army June 22, 1940, as the same time the "Ivy" Division was reac-tivated and has served with that With Mote as president, the organization almost continuously. Termers' Guild found itself allied He now holds the Distinguished Bervice Cross, Silver Star with an Oak Leaf Cluster, the Bronze Star, pre-Pearl Harbor ribbon, European theater of operations ribbon with five battle stars and an arrowhead for participation in the invasion of Fonce, Brilish Distinguished Serv-Conce, bright French Legion of Honor and the French Croix de Guerre for this war. He has the Victory Medal with five battle stars for World War I and the occupaof Germany during World tion War L

With General Rodwell was his wife. They plan to reside on the post until accommodations can be found in Durham.

ple and the large number of Negross' working in way plants is what makes the city a flanger spot as the Nationalist movement develope.

Ward B. Long formerly was leader of the United Sons, but left The sho toyed with the idea that He also toyed with the idea that the Nallonalita' influence might be aztended to the United Mine workers. More was encouraged to Sone distributed anti-Nero propa-this thought by the fact that the United Farmers of Ellinois, which



In addition to the roster of names of men who have entered the i has arected three score crosses, each representing the grave of a serviceme battlefont of the world. Here the others and relatives of the men can plac as they would do in a cemetery. Shown are townspeople reading the inscri morial in Franklin, county seat of Macon.

They Cuss Devton a Lot, But Cussing Is Friendly **Budget** Guardian Assistant Director of Budget

Has Tough Task, but He's Equal to Job

By BALPH L. HOWLAND. Associated Press Writer. Me's probably the most cussed man on Capitol Hill, but it's a triendly sort of cussing.

He's R. G. (Bob) Deyton, sisistant director of the budget, who can tell you just where all your tax money you just where all your tax money goes; and, goodness knows, that's quite a problem these days with tax collections — and spendings— hitting a new high in North Caro-Una's history. The State will spend around \$300.

000,000 during this biennium, and it's up to Deyton to see that it is spent properly and under the laws and directives set down by the legisisture. He's answerable only to the Governor, but sometimes he tells the Governor what the Governer can do.

mor can do. Siupendous Task. The Budget Bureau, with its pres-nt eisht employes, certifies salant eight employes, certifies sal-aries for more than 9,000 employes, and generally overgees funds that go toward the payment of 6,000 oth ers connected with various insu-lation to any that they can be maintutions, and the approximately 30,- latter to see that they can be main-

000 public school employee. If a department head wants to give a stenographer a \$5 raix, it is up to Devion to approve it; if a college wants to transfer \$5,000 from one purpose to another, it is up to to say okeh or deny II; and if mental institutions need \$100,000 get bureau sometimes is hard to from the Emergency and Contin- convince Officials might want funds him from the Emergency and Contin-rency Fund, Deyton is called in for

finance and spending experts in the upon or department in question.

State to back him up. The Budget Bureau operates un-The Budget Bureau operates un-der the Budget Bureau Act, giving State Auditor's office is advised the department authority to trans-for funds not specifically earmark-the Auditor's office, which is the well-defined authority. You couldn't exactly call Deyton the bureau Authority and Deyton at the bureau Authority and Deyton

a tightwad, although some State employes do, because he never forgets that it is the people's money that is being spent. Just because the State has a record-breaking surning is no reason to miurge, because rainy days are shead, he says.

#### Engineering Branch. There's an engineering branch in the bureau. When a building project is planned, the engineers study its advisability, whether the work can be accomplished with the money allotted for that purpose, and other factors. The engineers keep a close eye on the project, if it.



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tained on the money earmarked for

that purpose. Requests for transfer of funds often cause a multiplicity of head-aches. There has to be a mond reason for such transfers, and the budfrom the intergency and contin- convince outcass much which thinks gracy Fund, Deyton is called in for to go over from one year to the advice, and his advice usually is though unused portions of the allotments usually revert to the necoed. But his authority is well defined. General Fund. Again the budget and he has the authority of the Ad-visory Budget Commission, which the need is great, and such funda-usually includes some of the best should be retained by the institu-

Procedure. As the State funds are spent, the



When the i





over in the language its drawn at Bretton however, "interpret"

promise, by which d bi-partisan supor committee said in tion" that the bank, uon that the back, would make long on loans. The United power over United y handled; by the

fund is the function



m coast. illens were surren-

the principal high members valley, Gen. Douglas closed, today. were made by Gen. Robert S

#### Bond Sales

Winston-Salem, June 7.-(J)-North Carolina R bond sales io-taled 134,340,000 as of June 5.-45 per cent of the quate-State War Finance Chairman Clar-ornes T. Leinbach sememood here inst aight.

bere last alghi. Over-all aales, including K bonds, is individuals in the Saventh War Loan amounted to \$62,500,000, or 60 per cent of the goal for this phase of the drive. goal for this phase of the drive. Leinbach said individual saiden as a whole are "remaining at a satisfactory rate but E bond buying needs to take a termid-erable spurt in order to got within striking distances of our duets."



turn of the so-called Constitutional mocrats who opposed the Roose-De a were found carry. tion, and other former Democrats r cruds spaars made alterated by the New Desl. amboo, but they area.

r crude spears made amboo, but they gave little trouble. ADVANCING ADVANCING Hervey Morris, former Senator Joe L. Blythe, Rep. James B. Vogler, Rep. Hervey Morris, former Mayor June 8.-O.M. Ben E. Douglas, Fred B. Helms, Tom Subing Into the Little, Mrs. John Newitt, and Mrs. y, last major Japan. J. A. Graney.

g, 18 miles north of sire said, with 300 sustaining mem-trances of more than berships, and a first goal of 3,000



#### 5,1945 CHARTER FILED HERE ARTER FILED HERE. BY WAREHOUSE GROUP Bright Belt Warehouse Associstion Files Certificate

Aun

of Incorporation

bership tobacco warehousemen in the Carolinas. Virginia, Georgia, and Flor the

Installing of the function of the subject of the process of the strength of beiprij to the tobacco farmer and the warshousemen entaged in handling the products of their farms." The incorporators named in the Ber-tificate of incorporators are Fred Royster, Henderson; Wesley Bingle-Wesley Bingi. D. Matthews Roytier, Henderbon; Weiley Bingle-tary, Lake City, E. C.- Z. D. Maithewn, Winston-Salem: O. V. Smith, Gréen-wille; J. H. Dison, Mulina, S. C.: E. A. DaJarnette, Bouth Boston, Va.: J. C. Eagles, Wilson; B. B. Sugg, Gremwillej A. L. Carver, Durham; L. R. Beck, Puquay Springs: A. A. Powisr, Pair-mont: Jack L. Neal, Danville, +Va.; John S. Walkins, Oxford: A. W. Jack forgs, South Hill, Va.: Gur El Barnya, Greenville; and R. Y. Scruggs, Hahrm, Doorgin. They charter wed Siel an behalf of the derporation by Geberal Coulant Broughton. rives, Wilson; B. B. Bugs. Greenvilles L. Carver, Durham; L. K. Beck, squay Springs: A. A. Powier, Pairs and Strain and Strain and Strain and Strain and Strain proposals will be received until 13:00 o'clock noon June 20th 1946 in 13:00 o'clock noon June 20th 1946 in 13:00 o'clock noon June 20th 1946 in the office of the bid must secompany each oughton. M. C. A'bidder's certified check for St, o derporation by General Couler of the bid must secompany each bid. In Hest Usersof, a Midder may after a sectified the for St of the bid plus a bid boad of St of the pid.) A performance bond in the second of the bid of the bid of the bid pid.) A performance bond in the second of the bid of the bid of the bid boad of St of the pid.) A performance bond in the second of the bid of the bid of the bid of the bid boad of the bid the bid plus a bid boad of St of the pid.) A performance bond in the second of the bid of the bid of the bid boad of St of the pid.) A performance bond in the second of the bid of the bid of the bid boad of the bid boad of the bid board of the bid board of the bid board of the bid board of the bid bid plus a bid boad of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board of the bid board bid board board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid board bid Broughton.

HAYES BARTON CHURCH

## The secontation is the memory of Moved; Redeployment Center to Be Opened

MEN FOR PACIFIC

The Form and Observe Power 1958 Notimal From During Washington, June 1.--Camp But-ner, near Durham, N. C., will be closed as a redistribution center and will be converted into a redeployment center for returning sol-diers, Senator Clyde R. Hbey m-

nonced today. The camp will handle troops re-assigned to the Pacific theater of operations from Europe.

A War Department absouncement a Mar Department absouncement said that Buther's redistribution center will be shifted to Fort Ogle-thdrbe. Ga., probably within the next 60 days.

It's Kert Cooking.

The favorite houp of Franch pessants, poi-su-feu, is a dish that goes on forever. It is kept on the stove and cooked for years, with the women just adding leftovers to the pot and keeping ft cooking.

LEGAL NOTICE

ADVENTISEMENT Ľ, CHOWAN COUNTY

County, North Carolina, will re-retive bids for the construction of the following teacherage. The Teacherage to be erected at Social Cross Roods School. Chowas Colinty, N. C., located fourteen miles north of Edention, N. C., on hard sutface roads. Building construc-tion as follows: Exterior walls brick and siden blocks injustion road mice and cinder blocks, interior stud partitions, wood foor, concrete foor is furnace room and concrete foor on real joist for porch soors. Roof composition shingle, all as shown by plans and called for in specifiestions.

The proposals for Phumbing. Heating and Wiring will also be rejeived on this data by let under

H-2:

## Aug. 28, 1945 'FAMOUS FOURTH

#### Ivy Leaf Division Retrains Near Here; Has Outstanding Combat Record

NOW AT BUTNER

Camp Butner, Aug. 27 .- One of the U.S. Army's great fighting units, the famous Fourth Infantry Division, which trained in the South before heading for Europe, has returned to Dixie for retraining following 11 months of combat. The divi-

ing 11 months of combat. The divi-sion is stationed at Camp Butner. Now commanded by Major Gen-eral Harcid W. Biskeley of Wash-ington, D. C., the Fourth Division trained for more than three years, chiefly in Southern camps, before point overcast in Lanuary 104 Fol. going overseas in January, 1944. Fol-lowing further training in South-ern England, the division became one of the Allies' principal striking forces in the invasion of Westerr Europe.

#### Five Campaigns.

In five compositions which carried the "Ivy Leaf" division from Nor-mandy, France, deep into the heart of Germany, the Fourth captured more than 77,000 Germans and killed or wounded a total impossible even to estimate. From D-Day to VE-Day. the Fourth saw more action than any other American division and, consequently, suffered more battle casualties than any other (more than 21.500). The Fourth set # record by maintaining contact with the enemy for 199 consecutive days and accomplished a record of "firsts" second to no unit in the European Theater of Operations.

On D-Day in Normandy, the lvy Division was the first to come ashore on Utah Brach Later it was the first division to enfor Cherbourg. Doughs of the Fourth helped to spearhead the all-important Ameri-can greakthrough at St. Lo and a month later became the first Ameri-can troops to enter Paris. Driving across Northern France and Bel-gium in hot pursuit of retreating Germans, the Fourth, on September 11, became the first division to cross the burder into Germany. Within a few weeks it had become cross the burder into Germany. He is aurvived by his father: attein taking only a few hours one brother, Julian Massey of Golds. Through the valued Siegfried Line. In later fighting, the division was the first fighting, the division was the principal American assault force of Goldsboro, and Mrs. Glenn Wood tered the Army in March, 1919, and the of Goldsboro, and Mrs. Glenn Wood tered the Army in March, 1919, and the the burdy filtrane forces that where the principal American assault force of Goldsboro, and Mrs. Glenn Wood tered the Army in March, 1919, and the the burdy filtrane forces that where the force of Goldsboro. in the bloody Hurtgen Forest bat- of Princeton tie

The Fourth is one of the very few U. S. Divisions in which all three regiments have been awarded the coveted Presidential Unit Citation Its 12th Regiment, which received the award last week, earned the citation by saving the city of Luxembourg and halting the left shoulder of the major German break-through in the Ardennes last December. Previously, the Fourth's 8th Regiment gained the award by spearheading the D-Day landing on Utah Beach. The 2nd Regiment was cited for its major role in the American breakthrough at St. Lo which set the stage for the Allied advance to the German burder

#### HAMLET WILL BE HOST TO FIREMEN'S SCHOOL

### ured in Wreck at Aber



Here is the scene of the Seaboard Railway wreck near Aberdeen members of the medical staff of Comp Mackall, Fort Bragg and Fine Bluff attention to 25 persons injured in the accident. On the left are two of the "Robert E. Lee," New York-to-Birmingham train, which was in collision with "Robert E. Lee," New York-to-Birmingham train, which was in collision wit tersection *st* a siding with the main line. (Photo by Kenneth Epps)

#### PRINCETON BOY KILLED COL. RAYMOND JENKINS IN NAVY PLANE CRASH SERVES IN PHILIPPINES Petty Officer W. O. Massey, Jr., Buried on Okinawa,

Tather Is Advised

Goldsborn, Aug. 21-W. C. Massey, Jr., AOM 2-c, son of W C. July 28 in the service of his coun-try, his father has been notified evacuation planes of nurses and medical by the Navy Department. He was stationed with a Naval patrol bomb-himself flown thousands of miles in 300 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of miles in 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousands of 80 himself flown thousand Massey of Princeton, was killed on base hospitals in the last six months ing in a plane crash in the South Pacific. The message just received stated that he was killed, that his remains were interest remains were interred on Okinawa, and that details would be forward-

1943 went over

SEABOARD GIVES ORDER FOR GIANT LOCOMOTIVE and their daughter, Pennie, live in Black Mountain.

Reilway has placed an order for a BROUGHTON TO SPEAK 564,000-pound Diesel electric loco- AT CHIRCH SALET motive, which will go into service this fall, officials announced teday The fail, officials annunced today i Finctops, Aug 21 - The Synod of Peak The giant unit is under constructive the Prechyterian Church in the U with Ulon at the Baldwin Locemotive S will meet at Davidson College unit and Works in Philadelphia. When com-October 9-11, according to the Rev pleted it will be used initially for H R. MacFadyen, the mederator (reight hauls. If the big fellow lives be transacted, but an inferesting the spectations it will be added program has been arranged Among. Se the

TO FIREMEN'S SCHOOL Hamlet, Aug. 27.-The Hamlet Fire Department is sponsoring a fire school, to be held in Hamlet on September 18 and 19. The full time fremen, volunteer firemen, and in-terested persons from North and South Carolina are invited to st-tend. The methods of giving first ald most top-filght passenger stream-will assure the presence of a num-will assure the presence of a num-

Headquarters, 13th Air Force Philippines -As assistant chief surfrom of the 13th Air Force, Colonel Raymond T Jenkins, Block Moun-tam, N C, has supervised evacua-tion of more than 19500 Army casualties from battlefronts to rear

GAI Lilla LAN Mrs. / NIV Shelhi Shelhi Shelhi Shelhi Shelhi Shelhi Shelhi the 13th Air Force Carrier Group Morale of the entire Philipping forces has been markedly elevated by knowledge that if they become a ed to his faher. Petty Officer Massey entered the by knowledge that if they become a service in December, 1941, went (casually, they can be removed by overseas in 1942, and returned in alteralt to a hospital where exect-, LIN in December, 1944, he again lent medical facilities and expert over.

attion taking only a few hours CAPT Carolina ("Frein He en-JUSSE 939, and ford Y more _ 010

has tren on overseas duty more than a year. His wife, Mrs. Blanche W E. Jonkins, formerly of Kinston n (n - (n - 1) n - 35 () 11h#

AT CHURCH MEETING *

Finctops, Aug 27-The Syned of

up to expectations, it will be added program has been arranged. Among' Se to Seaboard's motive power fleet as those who will address the Synch slow the largest locmotive on the rail-will be firmer Gow. J. M. Brough- field road. In fact, no railroad engine inition, who also will lead a discussion per the country will equal it for size hnur. Exangelism will be stressed on, or power. The neart of this from horse is jective of 50,000 won to Christ this was

of Pail the QI A 11

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e" the CIOF contention that has acted upon Gardner's. can grant a 25 per cent pay t of its profits without liftes. It held, instead, that the ment was manifest. policy for America today is betition and consumer r cl ce to bring down prices.

Robey, chief economist for outlined his organization's on the pay-price-profits conin a formal reply to the **JIO** wage report prepared by R. Nathan.

v said a "substantial" drop g costs is possible six months ow if wages are not increas-

acknowledged that many ies could afford to give pay without upping their prices. ed that they use their extra margins instead to lower

#### Critical of Nathan.

was bitingly critical of the ions reached by Nathan, a government economist, Nas-

that he based his findings es and guesses."

an's report, he said, "is an ato fool the public into choosalternative of higher wages. means higher prices."

h if his figures were accept-] Tressury.

Seral tax on corporate profits, anticipated. Prices and Wages.

vels whereas a true comparirice statistics

dded caustically that Nathan record of faulty predictions. and that income from wages aries this year would drop by 000,000 to \$35,000,000,000

in a radio forum broadled his claim that wages ng the price structure.



Wiggins has a number of friends five years of appearances on Capitol sity of South Carolina, is publisher

Hin at head of the Exder + 945815 SURPLUS BY ARMY

WAC To Get Property Jan. 31: State Seeks Camp Hospital for Mental Patients

The News and Observer Bureau. 1255 National Press Building.

Washington, Dec. 30 .- The War sinterpretation of statistics Department announced today that per data and substitution of Camp Butner, between Raleigh and Durham, N. C., will be declared surplus on Jan. 31, 1947.

In the meanwhile, War Department spokesmen revealed, the State aid Nathan used "pure guess- of North Carolina is in the final in calculating industrial prof- stages of negotiating for a lease on 1946 and in forecasting that the camp's 2,410 bed hospital and ill continue at a high level other properties for use as a State mental hospital.

The Federal government reportede NAM economist said, "40 ly is asking a \$261,000 annual rental ht of the wage increases he for the hospital facilities, while the d would be paid out of the State's most recent offer was \$100,-000 a year. A compromise settlewas a reference to the 40 per ment between the two figures is

Even if a Federal-State lease y also challenged Nathan's agreement is not reached by Jan. 31 ) of demonstr ting that prices -- the date on which Camp Butner sen more than wages. He said is scheduled to be turned over to O expert compared January, the War Assets Corporation for disvages and prices with cur-posal-it is expected that North Carolina authorities will be granted uld have to be based on 1939 additional time for negotiation, if necessary.

#### Land Sought.

ng his forecast that 8,000,000 covered in the hospital lease will s would be unemployed last be disposed of by WAC. In addition to the hospital buildings, the State seeks 10,000 acres of camp land for farming purposes to support the projected State Hospital.

Since early in 1946, when a Northraised 25 per cent without Carolina delegation headed by Govbusiness recression, accome official bid for the Camp Butner by unemployment, deflation hospital, the War Department has A. L. M. WIGGINS.,

No opposition to either appoint. live Committee of the Bankers' Association.

Wiggins, holder of an A. B. degree a where they are and in Congress, along with experience from the University of North Caroin dealing with its committees, from line and an LL.D. from the Univer-



### Names Tar Heel

Washington, Dec. 30 .- President Truman today announced the appointment of Charles S. Murphy of Wallace, N. C., as an administrative assistant.

Murphy, who has been an assistant legislative counsel to the U. S. Senate since 1934, in a graduate of Duke University. where he received his A.B. and Ll.B. debrees. He is the son of Mrs. Kate Westbrook Murphy of Wallace and the late W. F. Murphy.

Although by law the President has authority to appoint six administrative assistants, at the present time the only others besides Murphy are David K. Niles and Raymond R. Zimmerman.



Hamilton Field Private Admits That Story of Battle with Gunmen Was Hoax

Hamilton Field, Calif., Dec. 30 .---(U.P)-Private James Hill tonight was the saddest sack in the United States Army.

All day long he was a hero-the intrepid sentry whe singlehandedly drove off six gunmen attempting to steal a \$250,000 payroll from the In any event, camp properties not Army Post. His commanding officer was ready to decorate him. His girl. gushing with adoration, said she would marry him on New Year's Day. Newspapers proclaimed his daring.

in-C But tonight Private Hill's rosy be a world collapsed and he was just a  $N_{\rm D}$ He ernor Gregg Cherry put in its first antian bimalt into nd ' gotten himself into an awful mess 11 and wanted to get out of it.

ankruptey for many com- classified the 38,000-acre military FBI agents and Army officers, Pit-Cappears imminent, and use as mactive. 24 were Hill admitted the whole story ...

nouncec one inc reduce per cen will cal mittee work e would Presie ed by +D-Con the "lit percent pavers. frated. taxes y cember manis ilerate Conn agreed thing t Sec Ne

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1 Pine Hill cemetery following nal rites held from: the James treet Primitive Baptist Church by lder A. B. Barham and Elder L. Martin. She was the widow of Serviving. are openh Bennders. our daughters, Mrs. W. F. Poust of iraham, Route I, Mrs. Robert Nanie of Selisbury, Route 4, Mrs. E E ucker of Winston-Salem and Mrs. seorge Roberson of Snow Camp, oute 1; one son, J. B. Saunders of 'aterson, N. J.; 21 grandchildren and ve great-grandchildran.

Mrs. Della Collins, 76, widow of learse W. Collins, died at her home hinday at 10:30 p. m. The funeral vill be held from the Burgaw Methdist Church Tuesday at 2:30 p. m. y the Rev. W. C. Bebson, the pesor, assisted by the Rev. P. L. Clark. jurviving are two sisters, Mrs. J. D. larr of Wallace, Mrs. D. B. Teachey f Rose Hill; one brother, J. S. Carr d Wallace.

Mrs. Venie Moore Brown, 80, of smily cometery Tuesday following inal rites from the home at 3 p. m., conducted by the Rev. J. M. Perry included by the Rev. J. R. Everett. Mrs. Brown, widow of H. T. Brown, was a metive of Pitt County, Burriving are one son, Raymond Brown if the home and nine stepchildren.

Hab Reders, 72, of near Fork, S. C. farmer widely connected in Robson and Dillon Counties died Bunay night following three years of lectining health. Funeral services vill be held Tuesday et 3 p. m. from he home, Interment will be in the hurshound of Buck Swamp Church.

Mirs. Julia Poterson, 71, of Clayton, toute 2, died in Rex Hospital Monlay afternoon after a brief illness. funeral arrangements are incomslete. Surviving are three sons, Tayton, Boute 2; one sister, Emma Pate of Selma, Route 2: 11 grand-:hi

D. Barber, 69; of Bladenbore died Sunday night of a beert attack. Funeral services will be held Tuesday afternoon at 3 from the graveside in the Walson cemetery near Elizabethtown by the Rev. Trank I Bat-Inalia

# an. 21, 1947 NAD CE HELD FURNITURE MART UN BUINER LANDS

Legislators Say State Has Good Chance for Camp's Hospital Facilities

The News and Observer Burees. 1356 Notional Press Building.

Washington, Jan. 20.—There is a good chance that the Federal Government will grant Governor R Gregg Cherry's request that the State of North Carolina be permitted "interim occupancy" of Camp But ner Hospital for use as a mental institution.

This was the report Monday of tobersonville, will be buried in the two State legislators who represented the Governor in a conference with officials of the War Assets Administration. They were John W. Umstead, member of the House of Representatives and brother of U. S. Senator William B. Umstead, and State Senator Thomas O'Berry.

Umstead and O'Berry said that as soon as the formal application for permanent ownership can be completed, North Carolina will seek "the hospital and sufficient land for various operations."

The conference with WSA was arranged through Senators Umstead and Clyde R. Hoey and other members of the North Carolina delegation.

ank min Site. Newton, Jan. 20.-Sam Rowe; a local engineer, said today that he larvey, Everette and Thurman of is laying out a site for a silk mill in Taylorsville. The mill is to be mile radius are booked to capacity constructed in the near future.

Southern Furniture Market at High Point Opens for First Time Since 1942

ATTRACTS 3.000

High Point, Jan. 20.-(P)-The Southern Furniture Market opened [ here today for the first time since 1942 and was swamped with the largest registration of buyers in the market's history, Paul Casey, manager; said approximately 3,000 registrations had been made. The largest previous opening day registration was 1,500.

Prices for medium and quality case goods and upholstered goods were firm today, but distribution of such goods is still on an allotment basis and there was little free selling. In the other goods brackets, including specialties, metal and plastic furniture, however, manufacturers were taking as many orders as they could get. The demand for these goods was moderate.

There was little talk of buyer resistance at the market today and observers said the market appeared to be more stabilized than was the case on the opening day of the recent Chicago market.

For the first time in the Southern market's history, buyers were present today from all sections of the country and Canada. Usually the market is patronized mainly by buyers from the Southeastern states.

Hotels here and throughout a 40for the entire two weeks of the



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of the mentally ill of our State." Charlotte, which supplies a portion Although the Medical Care Com-mission as a whole has taken no ac-tion or expressed an opinion on to hearings for allegedly watering. The House received a these requests, it is known that milk.

some members of the commission There was no fight at the hear-are in favor of a program that ings, Pegram said. Some producers would provide such provisions for admitted watering their milk sup-

# the mentally IIL N+0 Geb 18, 1947 Al and MILK. Page Two. Move Into Camp Butner Now Planned for April 1

With acquisition of Camp Buiner| Board plans call for placing 1,800 Butner hospital and made plans for can be utilized. moving into the new hospital by April 1.

Although the sale of the Butner tration has week announced that the State will be granted interim occupancy. This is tantamount to final acquisition on the part of the State, since interim occupancy is granted only in cases where sale plans have been worked out to the satisfaction of both parties.

#### Funds on Hand,

The budget approved by the board yesterday will not require any additional funds from the State. In the biennial Appropriations Bill now pital, with the stipulation that the santon hospitals. money might be transferred by the The Medical Advisory Commit- CO-OP-Urging Senato Governor to another mental institu- tee's report includes an endorse- Senate Finance Committee tion if need arises.

as a mental institution now assured, patients in the Butner hospital by the State Hospitals' Board of Con-October 1. The hospital has a catrol yesterday approved a \$1,372,000 pacity of \$,374, but it may be sevyearly budget for operation of the eral years before the entire plant

Of the 1,800 patients to be admitted to the Butner hospital, 500 will come from the Sutton hospital. hospital to the State has not been The board then plans to fill the remade yet, the War Assets Adminis- maining 1,309 beds to be utilized at Butner with persons now on waiting lists at the other mental hosplials in the State.

#### To Train Personnel.

The board plans to set up a program at the Butner bospital to train attendants and other personnel for all of the State's mental hospitals. In carrying out this program, the board will cooperate with the Duke Medical School to permit the training of resident physicians.

Also discussed . at yesterday's being considered by the Joint Ap- meeting were a report of the board's propriation: Committee, an appro- Medical Advisory Committee; and pristion of this amount was made the need for new medical center for the Camp Sutton Mental Hes- buildings ist the Raleigh and Bor-

The House received a 1 ter drugs for alleviation o

without a physician's certi The Finance Committe on the bill proposing to ts

House and Senate meet . House Judiciary No. 1 9:30, Justice Building.

Senate Judiciary No. 2 9:30. Justice Building.

House Conservation and mont meets at 10. Utilitie room.

Joint Finance meets; at 2 Chamber.

Joint Appropriations 1 2:30, Room 402, Revenue

LOBSYIST-Only one put his name on the re book in the office of Sec State Thad Eure yesterds He was E. M. Stanley boro attorney, represen Committee for the Pror Safety Upon the Public of North Carolina. | Sta he was employed yesterda in connection with HB would require proof of fin sponsibility for certain mc

His -signature brought number of lobbyists who istered during the currer

APRIL - Governor Ct. newsmen yesterday that I reason why the Legislat not adjourn sine die by maybe a few days before A lot depends, the Gov clared, on what the Legi this week.

today's hearing on the

H-26

Bes BUTTER, Page Two.

# Med School Wins Battle; House Passes Money Bill

### Proposed Amendments Defeated Before House Approves Appropriations

After beating down a series of amendments aimed at the proposed four-year medical school for the University of North Carolina, the House yesterday passed and sent to Senate Spending Committee the Senate the 1947-49 permanent improvements bill.

Among amendments defeated by overwhelming votes were ones to put the medical school and adjoining teaching hospital in Asheville instead of Chapel Hill; to give Buncombe County priority in allocation of hospital and medical center funds provided under the bill; and to defer the building of the fourvear medical school and teaching hospital until after all local medical centers and hospitals have been completed.

#### \$48,432,254 Appropriated.

form that it came out of Joint Ap- tablishment of the mental institupropriations Committee last week, tion. Earlier in the day, the Senate ralls for appropriations of \$48,432,- had passed an act enabling the Hos-256 for permanent improvements pitals Board of Control to acquire during the ensuing biennium. Add-the general hospital for use as aned to the bill in committee were other institution for mental paappropriations totaling approxi- tients. mately \$3,900,000 above those recommended by the Advisory Budget Commission.

Included under the bill are sppropriations of \$3,700,000 for the construction of a four-year medical school and adjoining teaching hospital at Carolma; and \$6,250,000 to House. the Medical Care Commission to be used for construction of medical centers and local hospitals.

This \$6,250,000 will cover a third of the cost of constructing medical centers and local hospitals, with Federal funds, and local funds to finance the remainder of the cost. The appropriation will be administered by the Medical Card Comm:#\$10n.

during the 45-minute discussion yesterday in the House, the bill finally voures heard in opposition. The medical school-local hospital conthe only parts of the measure they now draw. brought under fire

In and that we dahant

BUTNER MEASURE

Votes \$1,500,000 for New Mental Hospital By WOODBOW PRICE. The State Hospitals Bound of

Control was given the green light yesterday by Senate Appropriations for its plans to establish a mental institution at Camp Butner's General Hospital, which receptly was made available to the State by the War Assets Administration.

Without a dissenting vote, the committee approved a measure ap-The bill, which passed in the same propriating \$1,500,000 for the es-

#### Report Bill Today:

The appropriation bill will be reported out to the Senate this morning, and probably will come up for Senate approved legis action tomorrow. No opposition is authorizing the Unite anticipated, and clear sailing is fore- join the International cast through both Senate

Before the money is made available for the hospital, the Governor and Advisory Budget Commission must approve the acquisition of buildings, land and equipment for ipation in the relief the institution, and the Hospital up by the United Nat Board's general plan of develop- no way lower this cou ment for the hospital and its fa- gration barriers. cilities.

Including the funds for Butner, Revercomb (R-W Va) the Senate committee approved bills leagues "we must prote While amendments poured in appropriating at least \$1,865,994.35. try from Communism." Selicitors' Lose Raise.

The committee balked at provid-bership in the IRO car was passed on voice vote with no ing an increase in sary for the ator Vandenberg (R-) State's 21 solicitors, and killed a man of the Senate F bill which would have given them tions Committee, told struction sections of the bill were \$750 a year more than the \$5,000 this would lead to a "

Opposing the bill, Sen. Thomas O'Barry miniad out that they were lies's share of the cost

#### Freak Spring Stor High Winds Visi

A freak spring storm the United States east of yesterday sent tempar bling in North Carolina of a full-fledged thunde day night.

There was plenty of v day's weather-rain, anand high winds, with or State experiencing a d dense that the sun way

The storm caused millars in demages in the left at least 11 dead in cluding North Carolin Negro was killed when barn roof at Guilford the strong winds. V winds swept across Southern and Eastern storm moved into the 1 Valley and headed for

Eight-inch 8n Winds up to 60 and hour were felt in sol North Carolina. On Mc. there was an eight-inc night, with the mercu around the 12-degree ma Spring weather took turn for the worse thi State, as temperatures freezing or near freez. State. Frosts were fore tral and western region

See WEATHER, Pas REFUGEE PROGR. APPROVED BY

Washington, March and ganization and to sper for the care of displace Before passing the  $\pi$ voice vote and sendir House, the Senate amendment specifying

In urging this pol

The voir for United unl economy." The Michigan senato



rmany, Nov. 3 (IT) | Mummenthey. Other sentences initop-ranking SS cluded: meers headed by

rimes court.

acquitted

Monsters."

were given sen-

om 10 years to life.

former SS lieuten-

o was subordinate h Himmler in the

ded by Judge Rob-

Detroit, described

as "monsters of

had built a system

camps and traded

r extermination.

Gen. Karl Fanslau, 25 Brig. id who constituted years; Col. Hans Bobermin, 20 years; ains" of the Nazi and Col. Erwin Tschentscher, Col. mps, were sentence Herman Pook, Col. Hans Loerner, ows today by an Col. Hans Heinrich Bater, and Capt. Leo Volk, 10 years each.

Hans Hohberg, civilian employe of

west of Charlotte in mountainous and traditionally. dry Western North Carolina. The vote was authorized by a special act of the recent General Amembly.

Both sides predicted victory, and a heavy vote was expected.

Election officials said 20,090 aligible voters were registered. Experienced political observers tonight said the vote on the ABC stores proposal would probably run around 10,000 to 12,000. Voting will be from 6:39 a. m. to 6:30 p. m. in 24 city precincts, and the weather man has sioner Frank I heen called by said that Spive church and told house as his wit reached the Spia. m. He sald § who weighs abo covered with b showed signs of The officer so his wife, was



noon. I didn't se Maxwell grinn "Well, Governe ci why?

Mrxcell hod already had put ton's signature t sign to file for th nation to the L well's lack of sur anyone Everybe a guestion of tim would file.

EVERYTHING When Senator chaliman, to ser

So, Broughton The filing fee

See CRIMINALS. Pase Two Nov. Predicted warm weather. he group of 15 was wholesale murder, \$1,347,500 State Check Closes Deal for Butner "Raymond. wi

s the first to hear acknowledgement. tonment area at Camp Butner. ved their sentences

outward display of

and officials of the State Hospitals The deed presented yesterday in WAA.

exchange for the check covers the inmates until they of various Washington agencies. In operated mental institution. lleu of the hospital deed, the State Franz Eirensch- over shortly.

#### \$1,350,000 Price.

Karl Sommer es were given to nk. Pohl's first dep- day and the \$2,500 paid to the War will be used as a trade and indus- year term here icfer, and Col. Kacl Assets Administration several weeks

The State yesterday handed overlago makes up the \$1,350,000 purced pronounced. He a check for \$1,347,500 in exchange chase price set by the WAA for the n. clicked his heels for a deed on the long-sought can- sequisition of the cantonment and hospital areas at Butner, Outlying Payment for the area closed ne-sections of the camp were not purgotiations that began nearly two chased by the State, but may be years ago, when Governor Cherry bought later for farming purposes.

For months, the State has been Board of Control began attempting making use of the general hospital to acquire the former Army camp and some other camp buildings on and its rambling general hospital an interim permit granted by the

The huge hospital, large enough and his underlinge, 1.900-acre cantonment area. A deed to accommodate nearly 3,000 pa-hadn't prepared the had built death for the general hospital, which al- tients, already has a population of ed for the filin: and towers manned ready is being used by the State to over 500. Some of the barracks and shot and killed on house mental patients, will be given cottages surrounding the hospital died in Decemb l vicious dogs which to the State within a few weeks, are being used to house doctors. Cherry appointe people to shrads after it passes through the hands nurses and attendants at the State- Durham, then

The cantonment area, which has ber, 1948, genera ang with Pohl were vesterday received a paper signify-more than 1.400 buildings, will be term would have te Loerner, his see. Ing that the deed will be turned used by the State for several proj- uary, 1949.

ects. A section of the area will be converted into a colony for feeble- remaining betwe The \$1,347,500 check paid yester- minded children; another section tion and Januar See BUTNER, Fase Two.



a second of the second second second information de gned to give ision to the surfactured desire peoples for a cent



(Continued From Page One)

riff McDouble and it was the t homoble secure he had ever word. Coroner High Kelly at sage and Sheriff McDonald forat the Spivey bome about 11

#### Blow on Head,

o officers and that Mrs. Spiney cently was folled by a blow at suck of her bead. Dr. W. N. Me. e of Robbus who examined; udy, also held to that opinioh. z Yow, a tree drever, fold of

he saw Mor. Splvey return Saturday He said she got out nonneed several months ago. e cab and into her own car and aw ber drive the automobile

vev has made no further state since talknor to the officersav morning

s. Spivey, an attentive browninches tall and weighed about the conferences. County. The couple had been led 12 years but had no chil-Spivey had two children by a or maniage. His first wife was d in an automobile accident e Spiveys moved to Robbins t four years go from Burling lemment over acquisition of the but had operated the S. and M. since going to Robbins. The Butner area de was well leked in the town. ineral services for Mrs. Spivey be held. Tues day morning.

#### Kansas Industrializing.

att. Kan .- (UP) Who says this ie land only of wheat and cat-George B. Weeks, western rdpntative of the Kansas Industrial clopment Commission, says two nent industrice are seeking sites he western point of the state for factories.



and permitted of the charter: adjusted belonging to the SS, nutinsisted that he knew nothing about its law-breaking program.

Bowever, SS men still are under the "mandatory" arrest category because of the ruling by the Inremational Military Tribunal which designated the SS a criminal ofgamization. The task of apprehending Elife Guard members still at large was turned over to the German police several months ago.

## **BUTNER**

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#### (Continued From Page One)

trial arts school for war veterans. and various huildings will be converted into dwellings for strff members at the mental hospital

Other buildings in the cantonment area will be safepsed and sold by the State Division of Purchase in another taxicab about 11 and Contract, Governor Cherry an

Handing the \$1,347,500 check over to F. L. McGinnis of the War Assets Administration came late in the coner Kelly y ad an inquest will frieness held during the day with Alty-Gen Harry McMullan and Governor Cherry General Supt Divid Young, General Business Manager R. M. Rothgeb, and John Unistead of Chapel Hill represented brunette, was about five feel als more than the Board of Control at

Camp Butner, used as an Army bounds. Spivey was a native of maining camp during the war, was declared surplus on January 31. 1947, nearly a year after it had been virtually abandoned by the Army. Unstead and Thomas O'Beiffy of Goldsborn handled the major pertipn of negotiations with the gov-

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 $\mathbf{x}$  palous be of spon the physics are acquitted, the detendant bet parent two protocols are relevant to  $\mathbf{x}$ H and Blanton A. Harmes of San shid inteford, Dr. W. R. Hartines, Jr. etc. Tues Jonesboro Beight', Sanford, Thoma-Hartneys of Greenville, S. C., and Dire John Hartness of Sanford, four set, Hurr ters, Mrs. D. D. Thomas of York will S. C.; Mrs. J. G. Dudley of Shelly (Hon Mrs. W. E. McNan and Mrs. W. J. Solo 104H Bilinn, both of Sanford

#### ARTHUR A. MOORE

Stan 1111

Washington, N. C. Arthur Au a m gustus Moore, 68 farmer of nearlytha Washington, died Sunday mucht at died 11.50 o'clock at les home on the sons Williamston highway following p²Star critical illness of several months la sti [He has been in failing health ferger of several years. He was born in Mis-Beaufort County August 25, 1859 Bal. son of the late Augustus and Susan Anne Swanner Moore. He spent, - 11 his much life in this county, Sure 115. viving are his wife, the former Cora-Swanner; cleven staldren, Mr., Retaglant Thompson, Williamsburg, Vo. Mix-Tion Jessie Needham, Terre Haute, Ind. 11. Mrs. Margaret Davenpork, Newporth  $M_{\rm F}$  : News, Vo., Mrs. Cora, Ethel, Shu Mew Homesterd, Penn, Mrs. pińka, – 11.11 eigh Dever Ann Atter Mot Nancy Mich, Mrs. Willie Educt Dought Joint Washington, Arthur Moore J. Rep. Newport News, Bessie Lence Gar Moore, Nortolk, Va., Mr. Patricit sull Norther Coyton, Washington, Dot every othy Helen Moore, Morganton, and erne Rochelle Moore of the home, seven Rev grandchildren, one sister. Mis be-Mamie Peele, Washington, Functal) service will be held from the home w Tuesday morning at '1 o clock by Coo

the Rev. M. L. Ambrose, paster of nice the Old Ford Christian Church Burial will follow in Oakdale Ceme- 6  $\sim$ tery.

MRS. LILLIE N. SUITS. Mrs. Lillie Neese Burlington.

# **Possession About Jan. 1, 1948**

Fine business location, No. 509 Hillsboro Street (100% block). Traffic count about 22,000 vehicles daily. Store size approximately 27x105 feet. Rear truck entrance. Lease if desired. Apply Alfred Williams, 119 Fayette ni 14 7767 Datatah

#### Bitter furning Company, Danville, Va. His speech in behalt of Smith's surpose of good government is to P. NUTS There are

### Exhibit Proves Popular In City of the State

The exhibition 40 Americans since 1000 which closed at the State Art Gallery after its showing Wednesday, attracted visitors from 44 North Cambina towns and communities, 18 other states, and four mintries outside the United States, dge. He received from the registered attendance in

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1832 and his MA the visitors' book at the Gallery. Cambridge Unithe display since May 21, the pointings making up the exhibition undained Descon England in 1935 England in 1935 were selected from the extensive 6 serving in the art collection of the International inford and Shef-Buckness Machines Corporation, and as View of Holy were shown here through the cour-rs. Sheffield. In they of IBM assistant general. Of the total of L100 who paw the

Of the total of 1,300 who saw the estimation, do were from the pub-lic school college and art school groups which came to see and study

the paintings during the three-week exhibition period.

The Gallery will be closed through Saturday for the Installation of the midejummer exhibit which opens Sundas to run through July, Under 1 Sunday to run through July. the title 'North Carolina Paintings. 1 10.00 this midsignmer exhibition will present a gapup show of oil printings recembled by the Gallery. from recent work of 16 outstanding voueger artists of North Capolina. #11 of whom have whibited in gat-

ternes of this State as well as elaspor the min- are everal artists who have won up to the minpresented by Edon the Camp Butner sits was turn- part. netional and regional recognitions. fellowships and swards during the VES REQUEST last two or three ylars. College and university art testhers, as well as artists working independently, are

static party every included. During music, poens, included. During Hai Stanley, ter person this exhibition torning that dual list, of artista lacludes Harriet Bright, Joseph Bolt, Jean Church, Chande Howell, Géorge Kachergis, Inst. Longton, Margaret Philip Moure, Margaret (Tharles Sib-SR'S NOTEBOOK has une' Gregury ebook: Carol has distributed for the state of the state of the state his notebook is

#### Notaries

cinating things-Governor Scott ##sterday appoint re, human interest rms and joken-of ABT BARDES Governor Scott jokterday appoint-of ABT BARDES Governor Scott jokter public: Mrs. Nennie W. Ebdig. Greensborn; A. C. Jarkson, TBomarville; W. C. Kilpatrick, Ashbville; Lawrence Martin, Gastonia; L. C. Draughon, Dinn; Dorothy Hell, Charlotte; Ag-nes Chappell, Edgeton; Clude P. scale and BE the Erwin, Lennir; Mrs. Edytha W, Yates vs rights the Wax Derham; J. C. Torner, High Point; Usaka public, Mrs. Martin, Mrs. Martin, Point; Scale and BE the Brwin, Lennir; Mrs. Edytha W, Yates vs rights public, Mrs. Martin, Write Varian, Mrs. Bortham; J. C. Torner, High Point; Mrs. Martin, Mrs. Martin, Write : takes yers for Mrs. Rich L. Henley, Newton; Wil-lism M. Neeby, Winston-Salem; and Jmenh C. Whisnant, Shelby,

Northern Louisiana Territory wa at first stisched to Indiana Terrius that the Am orth his weight in but everybody t redie Int Man

#### More of Same

More of the same-meaning warm, humid conditions, with worldy summy skies - is the wastherman's forward for today.

Sentered afterneen thunder-showers are looked for Broughout the Sinte and there's a chance that and will drip! aver Ralvich and vielaty, the local Raivega anti-versery, usu re-en-wrether station reported, Gon-erally, no great change from yesterday's warm and headd weather is in tunnedbits propres-pres, the report stated. Temperatures are exploited to

tay in the m A high of 10 degrees is fore for this effortness, and at low of Hi degrees this security, Tasfor Sala afterio terday's templerstarer', ranged from 07 degrade to the speet M'A. •7

Varney asserted that the issues in

the compaign are "clear cut." "If we eliminated a few groups which might be called political ma- Federal Constitution. chines," he said, "the incues present "Willis Smith believes in this a conflict between what has arisen kind of government and does not bea conflict between what has arisen In later years under the term of lieve that a re-declaration of prin-Detailing and sound government," ciples is necessary, He added that "extreme liberal- Liberalium, he contended, " He added that "extreme liberal-

andidary in the second primary form a more perfect tunine, setablish dampeten originated over Station justices, to insure demosite fran-WTSR in Lamberton and was car-guilty, to provide for the common ried over other stations in all parts faret and secura the blokeings of faret and secura the blokeings of liberty in Aurastvas and Aur Pon-berity, and thus declared our Aura-ing fathers in the preamble to the

ism is of such a nature that it ishes no guide or chart for seciety. does not prortaim principles of gove It affers to humanity all the money ernment, but proceeds upon the that can be raised by burdensome basis that whatever the people want inzation, provided they clamer loud auxi the done. Liberalista try to enough for it and promise to vote apportion taxes among the clariff, accordingly [50 p.30]

They'll Do It Every Time

State Gets Butner Deed



### Couldn't Find Law to Fit

Attorney Géneral's office searched in vain yesterday for a North Caroling law| touching the case of an barased marchast who set a Jewhal trap for thisves.

ession for about a year, but the deed bas been held up while the Army cleared "duds" and undeto-

nated shells from the property. For the land, the buard paid \$115,260,

нк

Mahon of the War Ameria

The question concerned a llocky Mount store heaper when tired of eternal break-ins, rigged up a trap gun in his place of business. It harked back to the aid days when it was fairly contrast for if more the of shot and shell for nightime sector pelled to strug the sold defense intervent shell for nightime sectors ". The by d add defense intervent in the setting of a builted the bran growth a protect rest in the setting of a built of the bran growth a setting baid, the bitsourty a rolling baid, beild the bran growth a spart of the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty a rolling baid, the bitsourty are bitsourty and a spart of bitsourty are bitsourty and bits of the bitsourty are bits of the bitsourty are bitsourty are bitsourty and bits of the bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty baids are by a bitsourty bable baids are by a bitsourty baids are by a bitsourty baids ar

the person defling it is liable to indictment for studer ar menslaughter.

In Virginia, such a sum killed a pallosman checking a store. The merchant was canvished of second degree murder.

A South Caroline rolling said that a person may be sound guilty of manalenghter is more a person is hilled, who esters "morely to satis-

othere. We have a situation here "he gen on a reacting provide with a sparing of his provers beingtony of his provers and the provers beingtony of his provers and the provers and the provers and the second pusition for the second pusition for the second pusition for the second pusition and the face of the second pusition and the second pusition for the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition and the second pusition are second pusition. The second pusition are second pusition and the second pusition are second pusition and the second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition. The second pusition are second pusition are second pusition are second pusition are second pusition are second pusition are second pusition are second p

building after if him best losten to the start of the start of the based." The sale bight will fet off a blast from the Athenese General was then then the gun. "I found in bin the start of the start o



- Lockfish

# n. N. manon of the wer Austra Administration regional council de-livered the deed to Roy M. Purser, business manager of the boord of inverse the open to Roy M. Purper, per explained, business manager of the board of A. Arent of 190 Hareford have cat-control. The action brings into the board's dation for the Investory prostrom, presention some over 13,000 acres of and a' datry herd of 100 criss has the fremer Army ramp size, pur-been established. Also underway are said. Of the remainder of the are poullay focks and abits hold with bett. ner sain. Or use remainmer of the late poulity seeks and with refu-approximately 42,608 serves encom-passed in the wartime base, part Acquisition of the new land will was taken over by the National service sparities the farming operations in Guard, with the former several expand, he declared,

effect, Parser said,

projects, he sold.

ser emplained.

Land



29 PROJ



ections of the State who attended a three-day stork insurance schoul at Chapel om various sections of the country length classes at the school, which was promoved inc. and the University of North Carptins Extension Division. O. T. Other of A+O Thanks 25,1181 p-3

Officers



nburg, former Wake County superintendent, "arolina Education Association yesterday at the out opposition to succeed K. G. Phillips of Sisk of Fayetleville, who was steried vice presi-Fred W. Greene (right), executive secretary of



, "Jealous of wrong person nothing can be done one does not about it?"

Id make one "A few more of the more daring irts like our are divorced and remarried in ansuspicion. We other country But the marriage edestal. They is neven recognized here." intatiously at

Alicla to marry a man she doesn't love, Shea too attractive"

Can I reach you at

Phil whiatled. "But that's terrible, for a girl like;

ly sgreed inits why you hove. Shes too attractive of a differ. "Alicia never meets any men e there or novies of h ls of a diffet-

nd, Senorital friends, Her social life where men n nothing to are concerned is always supervised of the utmost and very limited' wrives She bad expected Philip to argue utial about coming in since it was only Idram 11 but as livey winted for the night purfero to open the door Philip chil-said, "Well, good night, hant Tve

of your chil-

a hard day tomorrow but 1'll tele-"A man's phone you. ly differ the bank?" saarily. differ-

Polly gave him the number and been said good night Obvinusly Philipp had "You had been more interested in Alicia Га зну. ed away with than he was in her. Aliria also not

CONSTRUCTION STARTED ON HOSPITAL AT CAMP

tonstructing and equipping of Duke Himpital here 12 years ago.

Deter Npraka. The latter part of July, Kinston, March 21 – More than 50. We thought we were settled with but of the University of Promyl-equipment and personnel for the vania School of Medicine discuss "The Use of Sulformanides in Gen-eral Practice" at Hotel Kinston Wed. Iment without considering the pri-inestay night. It was the fourth regret we bade farewell for the lecture of a siz-weeks, post gradu-duration to Joe Drum, whom we ate series sponsored by the Dud-duration to Joe Drum, whom we wedge and Sulform School of fust established at Chapel Hill Medicine and Extension Division.



The part factilities following the wat he well as pilots. At present there time rules effective February 28 and is no training setup for mechanics. During inversing imports operations. Only 2nd there is a death of licensed and sooth body argunts out of the 2.372 in the arguare and engine mechanics one to SV United States are open today-and White a pilot can be taught and Great Brit North Carolina auports are designed in months-it requires two years indeed. In comparison, we noted of framing to produce a goost me-thal only one of Colorado's 34 fields of framing to produce a goost me-thal only one of Florida's 125; none Plans and specifications for the

and open; 19 of Florida's 125, none Plans and specifications for the of North Dakota's 22. South Caro, Arst of 500,000 accurate acate models are open; 19 of Florida's 125, none Plans and specincations for the of North Dakota's 22! South Cato- first of 500,000 accurate scale models. Ing has met the requirements with of alled and enenty worthlance, 11 pf its 30 fields while our neighbor sought by the Navy for already to file North, Virginia, has opened recognition and groupery practice were fourbled late fast month by Apparently the greatest hardship the Bureau of Aeronautics to the to like 75 per cent of the closed U. S. Office of Edupation, which clearly in the requirements with our section with all that a group of apparently the greatest hardship the Bureau of Aeronautics to the to like 75 per cent of the closed U. S. Office of Edupation, which clearly the greatest hardship the Many for already of apparently the greatest hardship the Many of Edupation with the apparently the greatest hardship the will administer the program in co-quiring that "at least one person operation with all that depart-will police power sufficient to ar-ments of education. Thousands of American high school ynuties will but duty throughout the entire 24 participate in the program to ap-phoism." It is easy to understandipit the Navy with 1000 models of, listion means to operators of small. All models must be mate on precise fields normally employing half a scale of 1 to 72, so that one high dogen or fewer men. However, it on the model represents six feet on its just as easy to understand the the actual plane. Seen through a visal necessity of keeping every

Junius Bainer, wing commander, itimpital here 12 years ago: The semi-fireproof hospital is to from Charlotte, sitended a meeting butner. While no soficial aunounce informatic barson, group adjutant butner. While no soficial aunounce in the from Charlotte, attended a meeting butner. While no soficial aunounce in the from Charlotte, attended a meeting butner. While no soficial aunounce in the four but basis training the contract price exceeds \$4. Composed in the four surrounding squadrons and Army plans include conversion staff officers of Group 3. compris-of the medical center into a Vet ing Eastern North Carolina, were eran's Hospital for the "duration" present. Purpose of the meeting. Following the war, it is understood was to formulate the procedure foc and Frank Dawson, group adjutant. eran's Hospital for the "duration" present. Purpose of the meeting, following the war, it is understood, was to formulate the procedure for from reliable sources in conducting the training course in outer to insufe its completion by Dector Noraka. The latter part of July,

Tribeigal Resigna. Kinston, March 21.—Thomas Z. beginning of his flying career, was Basa. III, principal of Dover Schoul to the part two years, has resigned to accept a position ju, Charlotta with an insurance firm. Superin-tendent of Craven County Schools Ender the Arroy, do a tendent of Craven County Schools Ender the Arroy, do a Replacing Drum on our instructor staff is Willie Glover, who took most of the part we thank and a set tendent of Craven County Schools Basa' succrasor can be named. Tribles Queue.



DR · F) The Store

local Hrvi



lawyers because all wallion to use un insanity defense.

Griffin is accused of shooting Dr. David Gunn, 47, three times in the back during a protest outside an abortion clinic here March 10 as the physician arrived for work.

#### Soldiers transferred

BRUSSELS, Belgium — The United States and Germany are transferring NATO wartime command of thousands of each other's soldiers in an unprecedented move that will put GIs under German officers and Germans under U.S. orders.

The exchange reflects NATO's need to combine forces into multinational corps given national troop embacks. It is also a departure from Washington's traditional reluctance to allow foreign generals to supervise its troops.

SHOWFERS, HEAVY T-STORM

Additional forecast information on page A14

**INCE:** 74 1.00E 45

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CLASSIFIEDS/C9

CROSSWORD/C7

DEAR ABBY/CT

EDITORIALS/A12

- 43

NOT TO ROOM A RUNNING

--- From wire reports

HOMETOWN/CB

HOROSCOPE/CT

LOCAL NEWS/C1

OBITUNRES/C2

TELEVISION/CS

LANDERS/C7

MOVIES/B4

SPORTS/D1

STOCKS/D6

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JONESTOWN REVISITED: Bodies litter the ground at Jim Jones' People's Tample after the cult's mass suicide in Jonestown, Guyana, in November 1978. Guyanans say U.S.' authorities should have needed the chillingly prophetic sign hanging over the chuir from which Jones preached before moving against the Branch Davidian compound Monday. Story/A7.

Clinton ordered the justice Department and the Treasury Department to investigate "whether anything could have been done differently" to avoid the fiery end of the siege.

The House Judiciary (committoe already plans to begin hearings on the matter next week, and other investigations are all Former NCCU School of Law -Ibrarian, daughters, die in blaze.

likely. Rep. Jim Traficant. D-Ohio, said there is plenty for Congress to look at.

"When you have 100 TV crews but not one fire truck, please see PROBE/A7

## Turkey baster helps woman serve as surrogate mom for sister

#### Associated Press

CARY — A willing sister and a turkey baster allowed a Cary couple to end six frostrating years of expensive, high-tech fertility treatments.

Janet Johnson and her husband Mark Windey, both 36, are delighted about the pregnancy of aner/ sister Julie Johnson, who used the \$2.95 kitchen utensil to inseminate herself twice in Angust with Wittley spemen.

"We were willing to try anything," said Janet Johnson, who has a doctorare in math education and works for Wake County.

She and her husband, a software engineer, went through nine treatment cycles of costly fertility drugs, which were covered by health insurance, " and one \$15,000 cycle of in-vitro fertilization in July, which was not covered.

"We were kind of fed up with the doctors," Janet Johnson said. "It was costing so much and taking so much time." The couple also explored adoption bat found legal obstacles uso much to overcome.

Janet's sister, Julie Johnson, 34, a single Navy lieutenant who reaches in the NEOTC program at N.C. State University, volunteered as a surrogate mother. Janet bought the turkey baster at a cooking equipment store, sterilized it in a dishwasher, then carried it to Julie after Wirkey made his genetic contribution to the project.

"He thought we were crazy, but he was willing to try it," Janet said.

Julie inseminaned herself, then stood on her head about 30 minutes while

picasa see SURROGATE/A2

## Government to search Camp Butner for shells

#### By PAUL BONNER

The Haratd-Sun Camp Burner, northeast of Durham, is among more than 250 former defense sitts nationally where the government plans to search for artillery shells and other munitions left behind after the bases closed.

It's been a long time since metaploded shells turned up regularly near Burner. But they did routinely in the years after the camp closed following World War II.

years after the camp closed following. Word War II. During that time, thousands of acres were burned to try to expose the bombs, and some areas were declared off-limits to farmers' plows. But shells still crop up today.

please see BUTNER/A2"



Corps tries to clean up abandoned military sites

Camp Butner among 8 in N.C.

Associated Press

HAM MERCAND-SUN 9

WASHINGTON — Aging explosives, including hand grenades, artillery shells and chemical onthance, may be twried at more than 250 former military sites now in civilian hands across the country, according to an Associated Press review.

estimated 190 sites where of chemical warfare agents may be buried are in civilian areas ac cessible to the public, though many are isolated and none are deemed an imminent, threat the Pentagoneraid in a report to Congress on Toesday.

From an inventory of nearly 7,600 former defense sites, the U.S. Army Corps of Engineers is trying to determine how many

plage see CLEANUP/A2

23.1993

KC. AMMO SITES

II Carer Battle New Berry

LCamp Buther Vaning

E Duck Dieger Facility,

Carno, Durtierne

#### FROM PAGE ONE

#### BUTNER FROM AI

Enon Road in southern Person

County reported finding a

155mm artillery shell on his

property that is believed left

A crew from Fort Brand's Ez-

plosive Ordnance Division was

scheduled to take a look at the

shell today, said Set. Rodney

Parker of the N.C. National

Guard's training facility, which

Only twice in the last two

years has the National Guard

had to call the explosive squad

for munitions found on or near

the training facility, a small-

arms firing range that covers

4,800 acres of the 40,000-acre

spokesman in Raleigh.

**Roands baried** 

ings in recent years.

is on the former Army Camp.

over from Camp Burner.

CLEANUP FROM A1 still have buried explosives,

toxic wastes and chemical agents - some daring back 75 years or more. Defense officials estimate the search may take 15 years and cost \$4 billion.

"People got rid of property and it was out of sight and out of mind," said Thomas Wash. director of the Corps' office that is conducting the defense cleanup effort. "We've got a hell of a -lot more on our plate than we've got money to do."

#### **Records** incomplete

The effort is further complicated by incomplete recordkeeping on former defense sites. he said

According to scores of documents and computer lists examined by The AP, the Army Corps has at least 268 projects at 259 sites where officials believe explosives may be buried. Another roughly 1,200 sites may contain buried toxic chemicals, and 3,000 other former defense locations have yet to be scrutinized at all. The cleanup projects cover

every state a in North Carolina, the sites are: Camp Battle, New Bern;

Camp Butner Training Camp. Durham: Duck Targer Facility. Dixt: Camp Fort Davis, Holly Ridge: Fort Fisher, Wilmington; Fort Green, Charlotte, Lanrinburg Maxton Air Base, Laurinburg and NAAS Edenton, Edenmn

Even President Clinton's hometown of Hope, Ark, is on the government's cleanup list. Officials suspect leftover exphysives in a state wikilife refuse four miles from town.

hazards range from hand ere nades and anillery rounds to a wide range of toxic residues ---everything from corrocting oil drums to suspected mustard gas at a site near Edison, N.J.

Hazards played down-Pentagon officials played

SURROGATE

BIDDEN EXPLOSIVES A breakcom of deamp interes caready planed at parts Deaces Department size star gracement appeters contain explosives and other partners washing TYPE OF PROBLEM 208-123983 Orcinance/Emplosive Waster St.25 billion 485 Hazardous Toxic and Radioactive Waste Containerized Toxic/Radioactive Waste 813 \$298.6 million 211 \$75.5 6 6 6 6 10 Building Demolition and Debris Removal . . . . . \$2 02 billion 1,777 TOTALS -I Total chance costs projected by III Humber of sites still to be analyzed: 3,000 year 2010: \$4 Million Source: Army Corps of Engineers

rhal

At ot yer former defense sites.

of unexploded ardnance, from

grenades to amillery shells as

well as 12.300 pounds of TNT,7

have been unearthed from an

industrial and commercial area

in Edison, N.L. the site of the

from the Interior Department in

the late 1970s, once had been

HNear Hastings, Neb., hogs

■ More than 113.600 pieces

down the hazards Tuesday, saying all sites suspected of having buried chemical warfare materials have been physically assessed and pose "no immediate threat to public health or safetv.'

While many of the dump sites date back decades, there has been only one reported incident in which there was a fatality. In 1983, two 8-year-old boys were killed when a live military round exploded amid hundreds of homes in the Tierrasanta subdivision in San Diego, Unknown to many of the homeowners. the land once had been the impact area for a tank range.

But even very ald buried am-

In January, a backhoe operator turned up an arullery round while digging near \$1 million homes in northwestern Washington D.C. Explosives experts found 141 live rounds, including 31 containing chemical agents.

FROM A1

ficials said they assumed the ex-One of the rounds found four plosives had been cleared. miles from the White House was 75 years old. "It was totally burrowing in an abandoned intact," recalled Brig. Gen. bunker, once part of a World. Walter Busbee, head of the War II ordnance plant, un-Army's chemical weapons deearthed a Navy "hedgehog" struction program, adding that the mustard agent inside "was depth charge. It did not explode.

former Raritan Arsenal. said Linwood Kornegay, director Among the objects found burof Borner Public Safery. ied were \$3,352 tubes of TNT ---But more rounds surely lie boosters for World War II antiburied in and around Butner. aircraft shells - that had been officials say. left a few yards from the main We do have rounds up administration building of what there," Hignite said. "The huntnow is the Middlesex Comers find them. Most of these rounds we consider inert, bur

we don't take any chances." -... The discovery of the shell on the Enon Road property comcided with a report by the Arprogram. an Army training area. Local of-

> TAX FROM A1

connected it won't mean any additional tax revenue for the county.

The Duke properties are considered tax exempt because purposes.

Only last week a resident of ity among the sites to be checked. It isn't on the short list of sites for cleanup within the two years, said Ken Crawford, 2 spokesman for the U.S. Army Comps of Engineers in Humaswille Ala

All the sites are scheduled for Dick & Carl cleanno within five years. Cleanup already is under way at some of the locations.

Crawford said Burner's low priority for cleanup could change.

"That doesn't mean it's less dangerugs than the others, just that there are others ahead of ir." Crawford said. "Some of these are literally in people's back vands."

### Camp Burner, said Col. Baron Hignite, a National Guard Collector used

The sizes are among about 1,200 nationwide that could Fanners find shells conceal munitions lost after And Butner police say they being fired or dumped identified by the Defense Environknow of only a few such findmental Restoration Program. Crawford said. The Corps plans "In 10 years, probably twice," to use metal detectors to check the sites.

Hignine said the Corps of Engineers surveyed the Butner area two years ago and the National Guard's training facility last year.

Marvin Ward, now 80. worked as a game wanden in the late 1940s and early 1950s and recalled shells found by limiters in the old camp.

"Several-humters found livemounds," Ward said. "They just walked across them hunring. There's still some there, I'm

by news reports of the cleanup ... He remembers when the Corps of Engineers burned off vertication to try to find the explosives.

The Corps of Engineers

Rice I Fort Fisher, Williamgon Ill Fort Green, Charlotte-E Laudoburg-Mexicon Air Base Laurinung INVAS Edentori, Edentori picked up a lot of unexploded

shells and what have you." Ward said. "I saw them in a pile where they had piled them

Many shells were discovered · by farmers. Some had sold their farms to the government when the camp was built, then bought the land back after the war. Deed testrictions in some instances barred plowing, but the restrictions weren't enforceabic. 1.1.1

"Those farmers went in there and plowed up that stuff," Ward said. "They were mid not 'to do it, but they did." Ward mid a reporter in 1976 that a hunter who carried an old shell home was injured when it exploded. If true, it is the only known injury from orphaned Camp Butner shells.

The deaths of two 8-year-old boys from an old round on a former tank artillery range in California in 1983 sparked congressional pressure on the govemment to begin the survey and deamon. 1.4

shocked to learn the hotel had. been overlooked. . Td be very surprised if that

was the case," he said. But he added .. Duke doesn't they are used for educational moreive tax notices for much of the property it owns because it Told of the oversight, is used for educational purposes and is therefore tax-exempt.





166

munity College. In additional sweeps of the campus, no manitions were found and the campus is now considered.

•

nitions can be deadly if unearthed.

#### The possible underground Near White House

60 percent pine" and still le-

#### dean, officials said. Parts of a public park in St. sociated Press on the Corps of Luis Obispo, Calif, had to be Engineers' cleanup plans. But closed after .30 caliber ammuni-Parker said he didn't think the tion, grenades, antitank mines landowner's call was prompted. sure." and a bazooka round were discovered. The land, obtained

Camp Butner, which straddlesthe Durham-Granville county line, doesn't have a high prior-







Monitoring wells to be placed at former Camp Butner site Slug: Release No.

91-49

Date:

10/7/91

The U.S. Army Corps of Engineers, Savannah District will be placing monitoring wells at the former Camp Butner site located northwest of Butner, NC. beginning October 15, 1991.

In the early 1940s, Camp Butner served as a training and maneuvering area for combat troops. The camp was closed in 1947.

The monitoring wells will be placed at various locations around an alleged two acre landfill site which is located under Lightning Lake.

These wells mark the beginning of a preliminary assessment/site investigation phase which will enable the Corps to obtain soil samples from borings and water samples from the wells for chemical analysis. In addition, surface water and bottom sediment samples will be obtained for chemical testing from Lightning Lake, Lake Butner (Holt) and an unnamed creek above the headwaters of Lightning Lake.

This testing is part of the Defense Environmental Restoration Program (DERP). DERP is a congressionally established program that provides for restoration of both active military sites and sites formerly used by the Department of Defense.

-more-

James N. Parker, Jr. Public Attairs Office P.O. Box 889, Savannah, GA 31402-0889 or 100 W. Oglethorpe Ave. Savannah, GA 31401-3604

Phone (912) 944-5279

£ .



#### Serie infured as 50-Found laissile is Ignited by Burning Debris on Premises of Tom's Auto Supply

Scratt

Explodes

. 054

The peaceful quiet of a Wednes ouv alternoon hollacy was shat-Carel fered here this week with the expusion of a 59 - pound mortar said on a tringe of the city's DUSILIES: SPECIDE. 2

Note was insured by the earth 101 shaker and proper's damage was nominal

The explosion occurred within the walled area of Tom's Auto Supply where scrup metal is purchased, sore and snipped. Manages Habeld Veorgia said in all propability the shell was hauled ha Ly some (effect a from the Butnes) nical where it had been overlooked. acceleriz - up clews that scoured the area after the minuary folks ноved он узата "до.

H. L. Connell, who was in clurge of the place at the time, said the shed obviously war at a pill of zerdy benead some flammable material which had been set aftre to chear if on . The heat of the have center the littl in the open end of the shell from which the an see with indesing

The base plusted the main portion of the increase dank moral projecthe over the way of the scrap yard and beyond the center of Huls-Leve Street, energy bounded and ladded to the stdeward passing the front of Adlock Esle Station

The explosion hurled bits of fire to the real of acts on buildings attende pleve of metal and/a sevmuch bundred vitas usug adjacent to Exem Morey Outplany

s smaller and weight g about a plandt, wat salvaged from the seguates trades and quenched F the enderdnard embers in the sumprand.

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#### imer arousern Clinton loses big. The News + Observer Releigh, N.C. Many are found; over minor stimu of the some

REGENERAL . HIN NAS INA JAN AND A WASHINGTON --- A. Danocrats ave here forced to negotiate say shared all of Presstant. Industry the kase to dimutate the conomy, a exing que due as emerged: ANALYSIS

By taking out for a plan that is selved by finding units is been administration crosseniate? With the conclusion of a deal, Binton expendent much of this . Art of the faith for and premius polyheal capi-

Senate Republicants classe condex to hill Prostitute (linton's Sta. Sillion amula stantes partoger frange Lim Just 56 Editor for uttended Johress Landes 11.14 1 200 ---tot on a proposal that be perer intended to make his luggest fight.

- And the resulting pulitical defeat. (now did batch a _______ And the resulting political defeat-mult commune _______ has left the administration vulnersitiative turn into such a Linge able to future assaults by Republichilded endern assument? . Years, who surprised even them

new would have mate timpert, & Wethersday between Strate Dem-STATE STALINIA PAGE 14A

2 counties-revive plans to flush waste into sea Enyijonmentalists are split over ocean outfalls By Styater I. RAVIDING Henry EGT & Wasterwater into the Allantio. If 3 ATTAINK REACH -- Horth, Caro C prove, they would gen, at least 37. other countries and municipalities Had's coast, famous for its light of the East Gaat that have built have and frame place, could get. - ising indices - 🕴 🖓 🖓 🖓 🖓 a new made features tage that a paperate that split environpipelines/ currying the region's-

-nicitalitis, most of whom agree that ocean discharges are prefer-Facet with mounting growth? able to continued duringing of " and invironmental regulations,sewage in tidal erecks near the Carteret and Dare counties are

Sat. Dana McClunchan from Fort Bragg chinas a 50-pound artillary shell from woods behind lim King's house in Granville County.

none has gone off BY THOMAS HEALY

STAFF WELLER SUTTER - Like most good hunt ers. Jim King koens his eyes. pedicd when he likes through the 20 acres he calls home in Grane ville County, just north of Campi Butner_____ . On a typical sweep through his: torest of scrubpine, harming spot-any number of things. Deer tracks, turkey scratchings, copperisead snakes artillery

Strangeras it might sound, it is not rare for King or his wife to find a live 155mm howitzer shell smack in the middle of their land - an area that served as a firing Trange for soldiers who trained at. Camp Butner during World Warn acheduled for an inspection by the Camp Butner during World Warn String Corp of Bugineers. with the fact, the Kings have means , during the pert several years. moved to the raw, desolate course, Butnerm 1945 Spin est 1 tryside in August. The latest MAlhough the government has ered four such shells since they furned or last week and with identified the 29 sites for change, removed Wednesday, a set frathere are thousands of other fur-Will each discovery, the couple calls the Mational Gunnt training searched: Defense officials say soldiers come take the shellsic away.

Neto e has been injured.

in That's why King and many other residents near Camp Butner were surnrised to learn this week that the federal government plans to inspect land around the former military base for unspent musi-



The cample, poer of 259 siles scheduled for an inspection by the mer bases that could also be and cost \$4 hillion. ****** ! |

The purpose, they say, is simnle: To protect residents from any; live rounds that could explode.

But in Butner, at least, most people aren't too concerned about ; the notential danger of multilions. that lie scattered across their - - -

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SEE SHELLS. PAGE 14A



inton and his advisers began m sting political and intellectual tal in the stinulus plan even

SIEGE

diating actions? against in-

es or their property, but a

reland lawyer who played a

role in negotiating the agree-

it said this did not mean there

ild be no prosecutions or disci-

lary measures in response to

killing of hostage Robert R.

The inmates understand that:

en a guard is murdered, no one

going to guarantee then that

re will be no prosecutions and

discipline," said the lawyer, it Z. Schwartz, "But they do

sect that they will not he the

tims of inlawful retaliation.

I that's what this point assures

lost of the concessions won by

mises to "review" various

son policies. Schwartz said the

nates understood that the

reement was not legally bind-

C hat he said that before he

read to enter the negotiations

thorities had assured him that?

i of its provisions would be

The agreement was accomma?"

ki by a statement from Warden

ther Tate Jr. warning that

ison employees "who overreact

use of force situations will sub-

at both themselves and our

cility to pegative consemuences.

nich simply cannot be tolerated

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CONTRACED FROM PAGE TA

the president to "stand firm" against Republican attacks on the hill.

said Dole, who has missed no opportunity to criticize it since those early days.

that "everybody's ready for this chapter to be over." Like other officials, she was eager to focus

opened.

SHELLS

renades, shells and casings since

the 1940s, when the military camp

CONTINUED FROM PAGE TA

never did." said Senator Orrin Hatch, R-Utah, "He united the Senate Republicans."

#### We were always dubious of the shells when we found them. We never knew whether they were alive or not."

Palie Cavion southeast Person County resident

A short she are a sure should be 46 The Claytons don't farm anymore. And in the past 15 years, they haven't found anymore. shells an an an an an an an Others have 

Bruce Lynch, who lives just outside the boundaries of the range, used to help cultivate land near the Claytons' farm. And though he never spotted any rounds on his own land, he romembers finding plenty while tending crops across the road.

"As much digging as we did over here, we never found anything said Lynch, pointing toward his property, then turning toward the land across the street. But over there where we helped. farm, Tused to pick up casings left and right."

Lynch and his neighbors doubt there's much chance the shells could blow. After all, they say, the rounds have been there 50 years. And so far, there's no record of anyone being injured.

the otheral said. "Look at past practices. These things are worked out."

The important thing, they say, . is that people are careful when they find something that looks like a shell. The Corp of Engineers agrees.

"We try to discourage people from hunting for souvenirs," said Judy Wilson; a community relations officer for the organization in Huntsville, Als. Instead, residents should call

the National Guard, King, the hunter, says the guard has always responded encitly to his calls. On Wetnesday! In fact, munitions experts have at a 58 pound steel

shell from the woods just behind his house. I have a behind Treicking larough the thick growth where he shell was found. King points by a handhil of the large craters liened years ago by heavy practice fire. His land was part of the "ingract area." — the place gumers amed their shells.

King who was a gunner's mate in the Navy, "knew he'd find munitions when he moved here. And he doesn's mind calling the Guard every the months to re-move a shell. What will be given more of a misance is a seam of soldiers walking the land with metal detectors. He thinks it's a waste of time--and money. Repairs S.

"You know how many we've had explode out here? None, not a one," he said. "I think the public. aught to know they're here, but this would be a waste of tarpayers' money."

In 1942, most residents were forced to vacate what was to become the camp's firing range, a swath of rolling land that sprawls the Durham-Granville county line. After the camp closed in 1945, many residents returned, happy to be back on the land

where they were reared. . --In those days, people say, live munitions were an easy find. Many were plowed up by farmers planting tobacco, wheat and corn. Hunters combing the land for deer and tinkey r neovered others.

Sim and Pallie Clayton remember that time fondly. They came from Harnett County in 1950 and settled on 306 acres in southeast Person: County. Their land was just inside the borders of the old firing range, and they tripped over their share of emplosives

while working in the fields. E 32. We were always dubious of the shells when we found them," said Pallie, now 85 and living in the same house. "We never knew whether they were alive or not." / If they were, none ever expladed, she said. And over the years, the Claytons and other families found less and less evidence of the active mildary base that once dominated the area.

Kaigle Rolfer Teluma

talists of trying to limit coastal development by protesting new sewage treatment plants and outfall pipes.

Jonathan Howes, the state's top environmental official, said his

trict in Virginia, said his district has discharged sewage for 12 years through an 8,000 foot pipeline willout any noticeable probtems.

Wheeler noted, however, that

homesteads. They've been finding











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whemented.

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

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APPENDIX I INTERVIEWS

#### APPENDIX I

#### INTERVIEWS

#### Table of Contents

#### 

I-1 Conversation Record with Messrs. R.D. Holt and M.W. Wall, former employees of Camp Butner and the FUDS, Camp Butner OEW ASR site inspection team, 16 March 1993

I-2 Conversation Record with Ms. Edith Hilton, landowner and storekeeper, FUDS Camp Butner and the FUDS, Camp Butner OEW ASR site inspection team, 17 March 1993

I-3 Conversation Record with Mr. Altee Hilton, landowner and sawmill operator, FUDS Camp Butner and the FUDS, Camp Butner OEW ASR site inspection team, 18 March 1993

I-4 Conversation Record with Mr. J.C. Ellis, landowner/manager, FUDS, Camp Butner and the FUDS, Camp Butner OEW ASR site inspection team, 19 March 1993

NOTE: Documents I-1 through I-4 are referenced at Appendix B-89

CONVERSATION RECORD Time: 1200 Date: 1993 TYPE: Visit LOCATION OF VISIT: Camp Butner NC National Guard T. PERSON(S) CONTACTED: Messrs. R.D. Holt and M.W. Wal. ORGANIZATION: Civilian Retirees, former Camp Butner TELEPHONE NUMBER(S): (919) 575-4124 and -4400, respec SUBJECT: Former Camp Butner

#### SUMMARY:

On 16 March 1993, Messrs. Jodi Bausman, CENCR and Mike Harper, USATCES met with Messrs. Holt and Wall at the Camp Butner NC National Guard Training Site. These gentlemen werk employed at Camp Butner within the Physical Plant Directorat, and Facility Engineers Division, respectively.

Residents of Butner believe that, prior to their departure for France, the Lightning Division (78th) buried any and all ammunition that they couldn't take with them in a valley. They, subsequently, flooded this valley creating Lightning Lake. Both of these interviewees insist that no ammunition was buried in this valley prior to its being flooded. The Corps of Engineers has, recently, completed many soil and water samplings, all with negative results.

They indicated to the site inspection team the location of many of the training ranges (ranges 5 through 10 and 14) and the direction of fire for these various ranges.

Regarding the Camp Butner Cantonment Area, various areas of interest and associated activities were pointed out to the team. Areas within the cantonment included the parade ground, gas chamber, the 1000-inch .22 caliber range, ordnance area, small arms range and flamethrower pads. The ordnance area was a railhead for the receipt and shipment of the camp's ordnance.

The SI team thanked these gentlemen for their time and concluded the interview.

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ACTION REQUIRED: Complete ASR with recommendations on the necessary remediation of the former Camp Butner.

CONVERSATION RECORDTime: 110017 March1993TYPE:VisitLOCATION OF VISIT:Edith's General Store, FUDS Camp ButnerPERSON(S)CONTACTED:Edith Hilton (Maiden Name)ORGANIZATION:Landowner and Storekeeper, FUDS Camp ButnerTELEPHONENUMBER(S):UnknownSUBJECT:Former Camp Butner

SUMMARY:

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On 17 March 1993, Messrs. Jodi Bausman, CENCR and Mike Harper, USATCES met with Ms. Edith Hilton at Edith's General Store located on FUDS, Camp Butner. Ms. Hilton grew up on the Hilton homestead which was located on the ranges of the former Camp Butner.

She recalled, most vividly, her brothers and herself frequently finding rounds of ammunition on the family property. They would play with, disassemble, and eventually discard the components of this ordnance in the family's water well. That well has since been filled in and, today, the driveway into the homestead passes over it. Ms. Hilton described and, even, drew pictures of the munitions they had located (the descriptions and sketches were that of mortar and bazooka ammunition). These rounds of ammunition were routinely fired on the ranges of Camp Butner.

Ms. Hilton, also, stated that units training on the ranges would dump their excess ammunition in a lake located below the Hilton family lumber mill.

She remembered distinctly " rings" forming in land adjacent to the family store. These rings would change colors periodically. The Corps of Engineers put wells in this area to monitor water and soil samples for contamination. Samples produced negative results Ms. Hilton, and many other persons in the area, insist that there was a facility adjacent to the family store that was buried when that part of Camp Butner was excessed by the War Department. They seem sure that this facility was an underground hospital. They claim to have heard what they thought was a generator running underground at this location for approximately two years after the facility was buried. Ms. Hilton, and most folks living in the town of Butner, NC are concerned about the extremely high rate of cancer in this area. There was a society formed to address this problem and the various concerns. This organization was primarily responsible for the Corps of Engineers taking water and soil samples within FUDS, Camp Butner.

Ms. Hilton referred the SI team to her brother Altee Hilton for additional information. The team thanked her and ended the interview.

ACTION REQUIRED: Complete ASR with recommendations on the necessary remediation of the former Camp Butner.

CONVERSATION RECORD Time: 0930 18 March 1993 TYPE: Visit LOCATION OF VISIT: Hilton family lumber mill, FUDS Camp Butner PERSON(S) CONTACTED: Mr. Altee Hilton ORGANIZATION: Landowner and Lumber Mill Proprietor, FUDS Camp Butner TELEPHONE NUMBER(S): Unknown SUBJECT: Former Camp Butner

#### SUMMARY:

On 18 March 1993, Messrs. Jodi Bausman, CENCR and Mike Harper, USATCES met with Mr. Altee Hilton at the Hilton family lumber mill located on FUDS, Camp Butner. Mr. Hilton grew up on the Hilton homestead which was located on the ranges of the former Camp Butner.

Mr. Hilton, who was recuperating from an operation for cancer, confirmed everything that his sister Edith had told us the day before.

He was concerned and didn't understand why the teeth of his saws received so much damage while cutting lumber from deciduous trees on the old homesteads located on the FUDS Camp Butner. He did not experience this damage while cutting pine. The reasoning provided to him by the SI team was that the deciduous plants were old growth and were exposed to the shrapnel from exploding projectiles that were fired on the training ranges during the Camp Butner era. The pine forest had grown since closure of the former military installation and, consequently, was not exposed to the shrapnel, thus no metal-related damage to the teeth of his saws.

He, too, believed that the military dumped their excess ammunition items into the lake located below his mill. He authorized the team access to that area for inspection purposes.

The SI team thanked Mr. Hilton for his time and ended the interview.

ACTION REQUIRED: Complete ASR with recommendations on the necessary remediation of the former Camp Butner.

CONVERSATION RECORD Time: 1300 19 March 1993 TYPE: Visit LOCATION OF VISIT: Camp Butner NC National Guard Training Site PERSON(S) CONTACTED: Mr. J.C. Ellis ORGANIZATION: Landowner/manager, FUDS Camp Butner TELEPHONE NUMBER(S): Unknown SUBJECT: Former Camp Butner

SUMMARY:

On 19 March 1993, Messrs. Jodi Bausman, CENCR and Mike Harper, USATCES met with Mr. J.C. Ellis at the Camp Butner NC National Guard Training Site. Mr. Ellis is a landowner/manager of property located on Bethany Church Road which was a part of the FUDS Camp Butner.

Mr. Ellis informed the SI team that, while Camp Butner was an active military installation, units would fire bazooka rockets and mortar shells from the vicinity of the corner of West Range Road and Bethany Church Road. The direction of fire was to the southeast into an impact area of the former camp.

He also stated that, frequently, while plowing a garden on the family farm which is located adjacent to the former impact area, he would unearth various ammunition items. His description of these ordnance items was that of 81mm Mortar shells. Mr. Ellis said that he would dispose of these rounds of ammunition by throwing them across the road into the ditch.

The SI team thanked Mr. Ellis for his time and ended the interview.

Later this day, Mr. Ellis accompanied the SI team to his farm and authorized an OEW inspection. ACTION REQUIRED: Complete ASR with recommendations on the necessary remediation of the former Camp Butner.

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX J

PRESENT SITE PHOTOGRAPHS

#### APPENDIX J

#### PRESENT SITE PHOTOGRAPHS

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_____ J-1 R.D. Holt Reservoir located on the former Camp Butner J-2 Former homestead (discernible due to nonnative vegetation); remnants of a mock German village are located at this site Remnants of a mock German village infantry training aid J-3, J-4 J-5 Road into artillery impact area for former Camp Butner Concrete and metal structures formerly used in conjunction J-6 thru with movable targets J-9 J-10 Remnants of a mock German village infantry training aid J-11 Impact area near village (see J-10) which has been pounded by artillery and is heavily cratered J-12 Cemetery just to the north of the North Carolina National Guard property J-13 Camp Butner water tower which exhibits the date "1942" J-14 Area behind the water tower (see J-13) which, during the thru Camp Butner era, was used as small arms ammunition and J-18 flamethrower training ranges J-19 Former Camp Butner ammunition storage area thru J-26 J-27 Stable/barn located in the ammunition storage area J-28 Lake located behind the Hilton family sawmill J-29 Ordnance located on former Camp Butner impact range by thru North Carolina National Guard personnel; Ordnance Nomenclature: Shrapnel, MK. I, 155mm J-31 J-32 Ordnance located on former Camp Butner impact range by thru North Carolina National Guard personnel; Ordnance Nomenclature: Shell, HE, M102, 155mm J-34 NOTE: Documents J-1 through J-34 are referenced at

Appendix



R.D. Holt Reservoir located on the Former Camp Butner J-1



Remnants of mock German village

J-3



Former homestead near mock



Remnants of mock German village



J-6 Movable target remnants





Road into former artillery range

J-5



Movable target remnants



Mock German village

J-10



Movable target remnants



Impact area near surrounding Mock German village pictured



Cemetery within former impact area



Former Camp Butner Water Tower



Small Arms, Flame-thrower Range behind water tower

J-15

J-13



Small Arms, Flame-thrower Range behind water tower J-14



Small Arms, Flame-thrower Range behind water tower



Small Arms, Flame-thrower Range behind water tower J-17



Former Camp Butner Storage Area (Earth covered Magazine) J-19



Small Arms, Flame-thrower Range behind water tower J-18



Former Camp Butner Storage Area (Earth covered Magazine) **J-20**


Former Camp Butner Storage Area (Earth covered Magazine) J-21



Former Camp Butner Storage Area (Earth covered Magazine) **J-23** 



Former Camp Butner Storage Area (Earth covered Magazine) **J-22** 



Former Camp Butner Storage Area (Earth covered Magazine) J-24



Former Camp Butner Storage Area (Earth covered Magazine) **J-25** 



Stable/Barn located in the Storage Area

J-27



Former Camp Butner Storage Area (Earth covered Magazine) **J-26** 



Lake behind Hilton Family Sawmill



Shrapnel, MK. I 155mm found on former impact range J-29



Shrapnel, MK. I 155mm found on former impact range J-31



Shrapnel, MK. I 155mm found on former impact range J-30



Shell, HE, M102, 155mm found on former impact range



Shell, HE, M102, 155mm found on former impact range J-34



Shell, HE, M102, 155mm found on former impact range J-33 ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

# APPENDIX K

# HISTORICAL PHOTOGRAPHS

## APPENDIX K

#### HISTORICAL PHOTOGRAPHS

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K-1 Photographs of ammunition items located during

thru annual/semi-annual real estate inspections of the former K-5 Camp Butner after base closure; e.g., 240mm, 155mm, 105mm, 57mm, 40mm, and 37mm projectiles; 81mm mortars; 2.36-inch rockets; and hand and rifle grenades. Photographs are excerpts from documents E-8 through E-11 and E-16; poor quality, but invaluable. (B-91)





1 - 110 Projecti as ical i dened itaid



View of Explosive Projectiles found during Semiannual Inspection, Camp Butner, R. C. These h. E. Projectiles were moved by 2.0.D. Team to area designated by Isnd owner for detenation.







High explosive 2.36" rockets with rifle grenade found during annual inspection.



H.E. 155 mm Projectile found on restricted Area A, Tract H-10-G.



H.E. 105 mm removed from Tract No. H-1-G, 3 H.E. 81 Morters removed from Tract J 8 G



H.E. 155 mm found during cultivation of land, restricted Area A, Tract No. H-2-G.



Personnel from Ft. Bragg, N.C., who assisted in the detonation of all explosive munition.







1 - HE 40 mm Projectile 1 - HE 37 mm Projectile 1 - HE 105 mm Projectile as found



lst Lt. W. E. Shriver, Commanding Officer Solth Explorive Orinamos Detschment, Ft. Bregg, H. C.

Egt. Carl C. Benks, Explosive Specialist, who detonated all projectiles found.



View of a H.E. 155 MM Projectile found at Camp Butner, N.C. Also ECD personnel from Ft. Bragg, N.C., Who were dispatched from Ft. Bragg to detonate all explosives found at Camp Butner and Camp Mackall, N.G.



View of two of the H.E. 2.36 inch Rockets found during the Annual Inspection of Carp Buther



View of Standardized Signs of Warning which are maintained in legible condition around the perimeters on all restricted areas within the South Atlantic Division. ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

APPENDIX L

# HISTORICAL MAPS/DRAWINGS

### APPENDIX L

## HISTORICAL MAPS/DRAWINGS

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# L-1 Map, Camp Butner (Special), undated (B-92)

L-2 Map, Camp Butner, Target Range Locations Layout, August 26, 1942 (B-93)

L-3 Map, Camp Butner 1945, Camp Butner National Guard, and Camp Butner Training Ranges Boundaries, 1984 (B-94)

L-4 Map, Camp Butner (Cantonment, Hospital and Magazine Areas), undated (B-95)

L-5 Maps, Real Estate, Camp Butner Military Reservation, U.S. thru Army Corps of Engineers, Office of the District Engineer, L-14 Savannah, Georgia, Drawing Nos. 659-various, various dates, (B-96 through B-105) associated with annual/semi-annual Inspections, Restricted Areas, Camp Butner Military Reservation, completed on various dates (E-8 through E-17) CAMP BUTNER (SPECIAL)



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April 20, 1990



SEE PLATE 6

L-4

ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER I04NC000902

L-5 through L-14 have all been tranfered to plate 5 see plate 5 ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR FORMER CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

## APPENDIX M

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ORDNANCE AND EXPLOSIVE WASTE ARCHIVES SEARCH REPORT FOR CAMP BUTNER BUTNER, NORTH CAROLINA PROJECT NUMBER 104NC000902

PLATES







PLATE 3





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