



Defense Environmental Restoration Program for Formerly Used Defense Sites Ordnance and Explosives

Archives Search Report

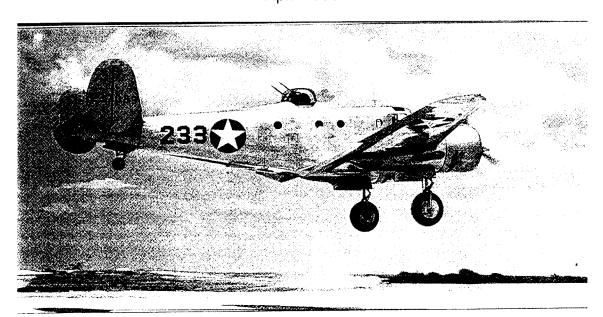
FINDINGS

for the former

VICTORVILLE PRECISION BOMBING RANGE No. 19

Joshua Tree, California Project Number J09CA068500

April 1998



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM for FORMERLY USED DEFENSE SITES

FINDINGS

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE #19
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068500

April 1998

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ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT

FOR

VICTORVILLE PRECISION BOMBING RANGE #19 SAN BERNARDINO COUNTY, CALIFORNIA PROJECT NUMBER J09CA068500

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ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR

VICTORVILLE PRECISION BOMBING RANGE #19 SAN BERNARDINO COUNTY, CALIFORNIA PROJECT NUMBER J09CA068500

INTRODUCTION 1.

Subject and Purpose

- This report presents the findings of an historical records search and site inspection for ordnance and explosives (OE) located at the former Victorville Precision Bombing Range (PBR) #19, Joshua Tree, California (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 (DERP FUDS).
- (2) This investigation focused on 640 acres of land that were used by the Victorville Army Air Field (AAF) from 1942 to 1945 as a precision bombing range for bombardier students. The site was officially owned by the War Department from 1943 to 1949.
- (3) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare material (CWM). This investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews and on-site visual inspection results.

b. Scope

- (1) This report presents the site history, site description, real estate owner information, and confirmed ordnance presence, based on available records, interviews, site inspections and analyses. It further provides a complete evaluation of all information to assess potential ordnance presence where ordnance presence has not been confirmed.
- (2) For the purposes of this report, OE presence is defined as live ammunition or components, debris derived from live ammunition, CWM or explosives which have been lost, abandoned, discarded, buried, fired or thrown from

demolition pits or burning pads. These items were either manufactured, purchased, stored, used and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DoD organization or activity.

(3) **Expended** small arms ammunition (.50 cal or smaller), does **not** constitute an OE presence. OE further includes "explosive soil" which refers to any mixture in soil, sand, clays, etc., such that the mixture itself is explosive. Generally, 10% or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. PREVIOUS INVESTIGATIONS

a. 1991 Preliminary Assessment

- (1) A Preliminary Assessment of Victorville PBR #19 was conducted under DERP FUDS by the U.S. Army Corps of Engineers, Los Angeles District (see document E-1). At that time, the Findings and Determination of Eligibility (FDE), dated 23 July 1991, concluded that the site had been formerly used by the War Department.
- (2) This investigation also concluded that there were eligible categories of hazards under the DERP FUDS program. Table 2-1 summarizes the projects recommended in the preliminary assessment.

		TABLE	2-1	
	DERP-FUDS	PRELIMINAR	ASSESSMENT	PROJECTS
Project	DERP	Present		
Number	Category	Phase	Comments	Location
J09CA06850	O OE	SI	OE presence	Entire site

b. Other Previous Investigations

No other investigations of Victorville PBR #19 were discovered during the historical records search or site inspection.

3. SITE DESCRIPTION

a. Existing Land Usage

Currently, half of the site is controlled by the U.S. Department of the Interior, Bureau of Land Management (BLM). The other half of the site is privately owned, but all individual lots are currently vacant. Table 3-1 represents the current land usage of the site.

			TABLE 3-1		
			LAND USAGE		
AREA	FORMER USAGE	PRESENT OWNER	PRESENT USAGE	SIZE/ ACRES*	COMMENTS
A	Bomb Target Impact Area	Private/BLM	Vacant lots, BLM public land	160	See plate 3
В	Buffer Zone	Private/BLM	Vacant lots, BLM public land	200	See plate 3
С	Remaining Land	Private/BLM	Vacant lots, BLM public land	280	See plate 3
				640	TOTAL

b. Climatic Data

- (1) Available climatological data came from the city of Victorville, located approximately 60 miles northwest of the site. Because of the similar environments between the two, it was assumed that the climatological data for Victorville would be similar to that of the former Victorville PBR #19.
- (2) The San Bernardino climate is typified by long and very hot summers indicative of a high plains desert. The average annual temperature is 60.3 degrees Fahrenheit (F). The warmest month, July, has an average daily temperature of 79.6 degrees F, with an average maximum temperature of 97.8 degrees F. January, the coldest month, has an average daily temperature of 43.7 degrees F, with an average daily minimum temperature of 29.3 degrees F. The extreme maximum and minimum temperatures are 109 degrees F and 11 degrees F, respectively (reference B-5).
- (3) The average yearly rainfall is 4.49 inches. The wettest months are November through February and the driest months are May through August. Thunderstorms occur on average three (3) days a year, with most of the storms occurring during the summer. The average annual snowfall is

- 1.8 inches, with the greatest recorded snow depth at any one time being 17 inches (reference B-5).
- (4) The prevailing wind is from the west and the average wind speed is highest, 8 mph, in summer. However, strong, dry winds can come from varying directions throughout the year. The average relative humidity in midafternoon is about 20 percent. Humidity is higher at night, and the average at dawn is 50 percent (reference B-5).

c. Topography

The site is generally flat and gently slopes downward in northeasterly direction. Elevation runs from approximately 3,150 feet above sea level in the southwestern corner of the site to 3,000 feet above sea level at the northeastern corner of the site. This results in an approximate grade of 2% from the southwest corner to the northeast corner. Mountains exist immediately to the west and southwest, while the flatness and gentle down-sloping continue to the north and east for several miles.

d. Geology and Soils

Detailed soil maps for Victorville PBR #19 were not available. According to a general soils report for the area, the predominant soil types of the project area, in descending order of prominence, are identified as follows:

- (1) Mohave-Adelanto variants association, 0 to 15 percent slopes: consists of well drained, moderately slowly permeable, sandy loams; moderately deep to deep caliche developed in stratified clay loam alluvium. Mohave variant soils make about 45% and Adelanto variant soils make up about 35% of this association. The remaining 20% consists of Sunrise (10%), Cajon and Arizo (10%) soils. These soils are used mainly for recreation, urban development and wildlife purposes. Limited grazing is possible where rainfall is sufficient to produce adequate foliage.
- (2) Rock land association: consists of excessively drained, very stony or very rocky, sand loams to sands developed from bedrock. Rock land makes up about 70% of the association. Calvista, Adelanto and Mohave soils comprise 10% of the association, while Sunrise and Ramona soils comprise 20%. Rock land is formed on hard bedrock from all types of rock origin. There is seldom more than 10 inches of surface soil. Rock land is used mainly for recreation,

watershed and wildlife purposes, as they have no value for either cropland or grazing.

e. Hydrology

- (1) The aquifers in San Bernardino County primarily belong to a vast network of aquifers known as the Basin and Range Province. Basin and Range aquifers are characterized by internally drained basins and exist in areas where the potential annual water loss through evaporation exceeds the annual water gain through precipitation.
- (2) Within the Basin and Range Province, aquifers are not continuous, or regional, because of the complex faulting in the region. Three principal types of aquifers exist in the province: volcanic-rock aquifers, carbonate-rock aquifers and basin-fill aquifers. Collectively the three are called the Basin and Range aquifers.
- (3) The Victorville PBR #19 site lies within or near an area underlain by a basin-fill aquifer. Basin-fill aquifers are primarily unconsolidated sand and gravel of Quaternary and Tertiary age. Over a period of millions of years, streams that eroded and transported sediments from nearby mountains deposited the sand and gravel to create the medium for the aquifer.
- (4) Typical depth to groundwater in the area is approximately 150 to 250 feet. There are no permanent surface water features within site boundaries.

f. Natural Resources

- (1) Table 3-2 lists the threatened or endangered, permanent or transient species that are known to exist within proximity of the site area as supplied the U.S. Fish and Wildlife Service (see document F-22). Document F-23 is a complete listing of all threatened or endangered species that are known to exist in San Bernardino County. None of these species are known to exist within the site boundaries itself.
- (2) Prior to any remedial action at the site, it is recommended that the California Department of Fish and Game be contacted for an up-to-date listing of protected wildlife species (see Appendix A).

g. Historical/Cultural Resources

- (1) The San Bernardino Archeological Information Center stated there was one pending "military site" within the site boundaries. This "military site" has not been formally recorded, and is most likely the bomb target itself (see document F-21). Historical and cultural resources for the site are located in Table 3-2.
- (2) In the event of remediation on the site, it is recommended that the SHPO and/or the San Bernardino Archeological Information Center be contacted for a current re-evaluation of site conditions and remediation guidelines. (see Appendix A).

	TABLE 3-2	Ç\$.
	NATURAL AND CULTURAL	RESOURCES
Resource		
Classification	Туре	Comment
Natural		
Reptile	Desert Tortoise	Federal threatened
Historical	Military	Not formally recorded; is most likely the bomb target itself
Cultural	(None identified)	

4. HISTORICAL ORDNANCE USAGE

a. Chronological Site Summary

(1) October 1941 to May 1943

- (a) On 1 October 1941, the Air Corps Advanced Flying School (ACAFS) was activated in Victorville, California. The mission of ACAFS was to conduct Bombardier and Advanced Twin-Engine Pilot Training programs. ACAFS was later designated as Victorville Army Flying School (VAFS) on 6 February 1942 and as Victorville Army Air Field (VAAF) on 23 April 1943. Throughout the changes in name, the mission of the air field remained the same (see document F-20).
- (b) In December 1941, the West Coast Air Corps Training Center (WCACTC) initiated actions to acquire 18 bombing ranges for ACAFS in Victorville. A contractor in San Bernardino, California, was hired to construct the

- targets, including PBR #19, in March 1942 (see document F-2). Improvements made to PBR #19 included clearing and grading, asphalt target rings of 100, 200 and 300 foot diameter, one (1) mile of fencing and a wooden target structure (see documents F-9 and G-5). All work on the ranges were completed and accepted by VAFS on 1 May 1942 (see documents F-2 and F-3).
- (c) The first bombardier class at VAFS started on 22 February 1942 and graduated on 22 May 1942 (see document F-20). The bombardiers primarily flew in AT-11 aircraft during training and utilized 100 pound sand filled practice bombs on the bombing ranges (see documents F-1 and F-4 through F-6). In order to graduate, the bombardiers had to have an average circular error of 275 feet on their bombing runs; meaning that at least $\frac{1}{2}$ of their bombs dropped had to be within 275 feet of the target (see document F-2).
- (d) The bombing ranges at VAFS were arranged to create four series of bombing ranges grouped together so that a bombardier would make bombing runs at a series of targets instead of one singular target. PBR #19 was part of series "D", which was put into operation on 10 March 1943. Series "D" was a series of day targets that included PBRs #17, #18, #19 and #20. Bombing runs for series "D" would begin at PBR #19, entering the target flying on a 105 degree azimuth (see document F-5). The bombing runs were conducted at low, mid and high altitudes and PBR #19 was used on average approximately 10 hours a day. No night bombing was conducted on PBR #19 (see documents F-2 and F-4).

(2) May 1943 to July 1949

- (a) The land for PBR #19 was not officially acquired until 1943, well after improvements were made to the site and bombing on the range had commenced. On 11 May 1943, 320 acres were obtained from the Southern Pacific Land Company by condemnation (see document G-5). The remaining 320 acres were acquired on 20 May 1943 from the Department of Interior, Bureau of Land Management (BLM) through Public Land Order (PLO) 125 (see documents F-18, G-1 and G-5).
- (b) The training of bombardiers at VAAF continued into 1944. Ordnance utilized during the bombing runs included M38A2 100 pound practice bombs, M85 100 pound concrete practice bombs and M47A2 100 pound chemical bombs (see document F-6). It is believed that the M47A2 chemical bombs were filled with sand and used as practice bombs.

- (c) In late 1944, VAAF changed their training from bombardier to radar observer (bombardment). The radar observer (bombardment) training was established at VAAF in October 1944. The last class of bombardiers trained at VAAF graduated on 23 December 1944, making the total number graduated at VAAF since 1942 to be 5,317. The radar observer (bombardment) training continued for about a year, and was suspended on 24 September 1945 (see document F-20).
- (d) Victorville PBR #19 was made available to the Fourth Air Force around October 1945, but it is unknown if it was ever used by them (see document F-8). The site was declared excess to the needs of VAAF on 7 December 1945 and declared surplus on 23 January 1946 (see documents F-9 and G-2). On 20 March 1946, the Army Air Forces (AAF) requested that PBR #19 be removed from surplus in order to support the P-80 jet training program at March Field, California (see document F-10). The site was re-established on 15 April 1946, but it was never used by March Field (see documents F-11, F-14 and G-3).
- (e) On 31 January 1947, the South Pacific Division of the Corps of Engineers requested the site be declared excess as it had not been used in approximately two (2) years, vandals had looted the site and the site was littered with bomb debris and duds (see document F-13). Because of this, PBR #19 was declared surplus on 13 August 1947 (see document G-4).
- (f) From 20 October 1947 to 24 January 1948, the 9800^{th} TSU-CE Detachment No. 14 conducted dedudding operations of several VAAF bomb targets including PBR #19. A surface and subsurface clearance was conducted, and all discovered unexploded ordnance was destroyed in place. All remaining debris and non-hazardous ordnance was left on the site (see documents F-15 through F-17).
- (g) The War Assets Administration (WAA) assumed custody of PBR #19 on 10 May 1948. On 19 May 1948, PLO 125 was revoked and the 320 acres were returned to BLM (see document F-18). The remaining 320 acres were disposed of by quitclaim deed to Norman M. and Cora E. Imbertson on 7 July 1949 (see document G-6).

(3) July 1949 to Present

(a) The land that comprised the Victorville PBR #19 has undergone little change in the last 50 years. It remains undeveloped except for dirt roads in the western half of the site. The eastern half, 320 acres, is still

owned by BLM and is undeveloped. A small number of residences have been built to the north of the site.

(b) No incidents involving OE have been reported to local law enforcement officials since site closure. Currently, a local resident is clearing the surface of practice bomb debris to sell for scrap (see document I-2).

b. Ordnance Records Review

An historical document search was conducted by the site inspection (SI) team to obtain ordnance related records relevant to Victorville PBR #19. Research sites included, but were not limited to, National and State Archives, state, county and local libraries, historical centers and societies, local newspapers, state, county and local law enforcement agencies and current owners of the site (see appendix A for a complete listing of contacts). All documents obtained were thoroughly reviewed by the SI team. The following documents are important to the verification of real property use by the War Department and the presence or non-presence of ordnance:

- (1) A 13 February 1942 memorandum provides general information about the bomb targets being acquired for ACAFS. It states that 100 pound, sand filled practice bombs will be used by the bombardier students (see document F-1).
- (2) An excerpt from an historical record of VAAF from 8 December 1941 to 1 January 1943 gives contracting data for the bombing range construction as well as historical information on the first bombardier classes (see document F-2).
- (3) A memorandum, dated 30 April 1942, confirms that the contract to construct the bombing ranges for VAFS has been completed (see document F-3).
- (4) A July 1943 range data table states AT-11s were used on precision bombing ranges and that PBR #19 was used approximately 10 hours a day, but not at night (see document F-4).
- (5) An excerpt from an historical record of VAAF from 1 January 1943 to 1 March 1944 describes how the bombing ranges were configured in a series. It also includes a map and aerial photo of series "D", which PBR #19 was a part of (see document F-5).

- (6) An excerpt from an historical record of VAAF from 1 November to 31 December 1944 lists the ordnance supply at VAAF (see document F-6).
- (7) A 1 September 1945 version of "Army Air Forces Installations Directory" shows that PBR #19 contained only one target and was a day precision target only (see document F-7).
- (8) A 6 October 1945 memorandum states that PBR #19 was made available for use by the Fourth Air Force (see document F-8).
- (9) A memorandum, dated 7 December 1945, states that PBR #19 was declared excess to the needs of the San Bernardino Air Technical Service Command (see document F-9).
- (10) A 20 March 1946 memorandum requests that PBR #19 be withdrawn from excess to be used by March Field for the P-80 Jet Training Program (see document F-10).
- (11) A 15 April 1946 memorandum withdraws PBR #19 from surplus (see document F-11).
- (12) A memorandum dated 10 October 1946 discusses decontamination of bombing and gunnery ranges. It provides policy stating that certain lands may be declared surplus without all unexploded duds being cleared from the site (see document F-12).
- (13) A memorandum, dated 31 January 1947, and first endorsement, expresses the adverse conditions at PBR #19, which included vandalism to the improvements and existence of unexploded ordnance (see document F-13).
- (14) A 18 February 1947 memorandum states that PBR #19 was never used by March Field (see document F-14).
- (15) The 4 February 1948 dedudding report details the operation of clearing the VAAF bombing ranges (see document F-15).
- (16) The 22 March 1948 Certificate of Clearance certifies that PBR #19 was cleared of all explosive or dangerous material (see document F-16).
- (17) A letter, dated 28 April 1948, states the general conditions of PBR #19 at that time (see document F-17).

- (18) A letter, dated 19 May 1948, revokes PLO 125 and returns 320 acres of land to BLM (see document F-18).
- (19) A 21 May 1948 memorandum states that WAA had assumed custody and accountability of the site (see document F-19).
- (20) An excerpt from "Brief History of George Air Force Base 1941-1950" provides a detailed account of the bombardier training program (see document F-20).
- (21) Public Land Order 125, dated 20 May 1943, transfers 320 acres from the BLM to the War Department for PBR #19 (see document G-1).
- (22) A warning notice, dated 6 February 1946, places PBR #19 in a surplus status effective 23 January 1946 (see document G-2).
- (23) A warning notice, dated 13 May 1946, places PBR #19 in a re-established status effective 15 April 1946 (see document G-3).
- (24) A warning notice, dated 19 August 1947, places PBR #19 in a surplus status effective 13 August 1947 (see document G-4).
- (25) WAA Form 1005, Declaration of Surplus Property, dated 3 March 1948, with attachments, lists improvements made to the site, the site's current condition and real estate history of the site (see document G-5).
- (26) A 7 July 1949 quitclaim deed transfers 320 acres from the United States of America to Norman M. and Cora E. Imbertson (see document G-6).
- (27) Two aerial photos, dated 16 December 1954 and 25 July 1989 clearly show the remains of target circles at PBR #19 (see documents K-1 and K-2).
- (28) Two historic maps, dated 19 September 1945 and 14 November 1950 provide the boundaries and real estate history of the site (see documents L-1 and L-2).

C. Interviews with Site Related Personnel

(1) Several area law enforcement officials and EOD units were contacted during the historical records search and/or the site inspection.

- (a) The 759^{th} Ordnance Company at Fort Irwin, the 95^{th} CEG/CED at Edwards Air Force Base and the Marine EOD unit at Twentynine Palms had no knowledge of any incidents involving OE at Victorville PBR #19 (see documents I-3 and I-4).
- (b) The San Bernardino County Sheriff's Department also had no reports of any incidents involving OE at the site (see document I-1).
- (2) Other interested parties were also interviewed during the site inspection.
- (a) Mr. Glenn Brooks, a former airman stationed at VAAF from September 1941 to April 1943, stated that 100 pound sand-filled practice bombs were used on the ranges. The pilots flew AT-11 aircraft during their bombardier training and Mr. Brooks was certain that HE bombs or rockets of any kind were never used on any of the Victorville PBRs (see document I-5).
- (b) Mr. Owen Cooper was in bombardier class 43-3 at VAAF. Mr. Cooper stated that he flew AT-11 aircraft on the bombing runs and only dropped 100 pound sand filled practice bombs with a spotting charge. He never saw an HE bomb while at VAAF and was unaware of any other bombardier cadets dropping HE bombs during training (see document I-6).
- (c) Mr. Jay Conway is a local resident living near the site. He has owned property in the area for 28 years and has ridden motorcycles in the area since he was 12 years old. Mr. Conway is currently collecting the practice bomb debris at the site to sell for scrap. Mr. Conway stated that he had never found an intact spotting charge in all his years of visiting and living near the site. Mr. Conway had no knowledge of any incidents involving OE at the site (see document I-2).

5. SITE ELIGIBILITY

a. Confirmed Formerly Used Defense Sites

Former land usage and/or ownership of Victorville PBR #19 by the War Department has been confirmed and summarized in the COE Findings and Determination of Eligibility dated 23 July 1991 (see document E-1). According to the FDE, the site consisted of 640 acres obtained by transfer of public lands and by deed and used

for a precision bombing range from 1942 to 1945. The War Department officially owned the site from 1943 to 1949.

b. Potential Formerly Used Defense Sites

No potential formerly used defense sites were discovered by the SI team during the historical records search and site inspection.

6. VISUAL SITE INSPECTION

a. General Procedures and Safety

- (1) During the period 26 30 January 1998, members of the SI team traveled to the site of the Victorville PBR #19, San Bernardino County, California. This travel was in support of and in accordance with references B-1 through B-4. The primary task of the SI team was to assess OE presence and potential. The site inspection was limited to non-intrusive 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 the current owners to grant access to the site.
- (3) A site safety plan was developed and used by the SI team to assure an injury-free site inspection. A briefing was conducted prior to the SI stressing that OE should be handled only by military EOD personnel.
- ... (4) Prior to the site visit, a thorough review of available reports, historical documents, texts and maps gathered during the historical records search was performed.

b. Area A: Bomb Target Impact Area

- (1) Area A consists of 160 acres and is the area immediately surrounding the bomb target and extending to ¹/₄ mile from the bomb target in the four primary directions (see plate 4). Historical documentation indicates bombardiers from Victorville AAF conducted low, mid and high altitude bombing utilizing 100 pound practice bombs at the site. Historical documentation also provides that this area was cleared of surface and subsurface unexploded ordnance by EOD units prior to site closure.
- (2) Today, Area A remains undeveloped desert land. Vegetation is sparse. The only remains of the bomb target

itself are white stones where the actual target was placed and the three concentric rings and cross-hairs on the ground used to identify the target from the air (see photos J-1 through J-15).

- (3) Several pieces of OE residue were discovered by the SI team during the site inspection. The OE residue was found to be within approximately will mile in all directions from target center by the SI team. Among the items discovered were: M38A2 100 pound practice bomb debris, Mk15 100 pound practice bomb debris, and M47 100 pound chemical bomb (configured as a practice bomb) debris (see photos J-16 through J-24, J-26 through J-31). The debris seemed to be more heavily concentrated to the north and east of the bomb target. No hazardous material such as intact spotting charges or complete practice bombs were discovered by the SI team.
- (4) An owner of property in the area who has been visiting or living in the area for 28 years has recently been collecting the practice bomb debris to sell for scrap. He has never found any intact spotting charges or complete practice bombs. No incidents involving hazardous materials in Area A have been reported to local law enforcement officials.

c. Area B: Buffer Zone

- (1) Area B consists of 200 acres and is a buffer zone around Area A extending 1/8 of a mile beyond the boundaries of Area A (see plate 4). Area B is an area of transition between where OE exists or is expected to exist (Area A) to where OE does not or should not exist (Area C).
- (2) This area is also undeveloped desert land with sparse vegetation. The only signs of human presence in Area B are dirt roads in the western half of the area.
- (3) No OE or OE residue was discovered by the SI team in Area B during the site inspection. No incidents involving OE in Area B have been reported to local law enforcement officials.

d. Area C: Remaining Land

(1) Area C consists of 280 acres and is the remaining land inside site boundaries and outside of Areas A and B (see plate 4). Historical documentation indicates that no activities involving ordnance occurred in this area,

as it is located 3/8 of a mile away from the bomb target center.

(2) As with Areas A and B, Area C is undeveloped desert land with sparse vegetation. Dirt roads exist along the perimeter of the area and in the western half of the area. The SI team discovered no evidence of OE or evidence of any past military activities involving OE. No incidents involving OE in Area C have been reported to local law enforcement officials.

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

- (1) Each area was evaluated to determine confirmed, potential or uncontaminated ordnance presence. Confirmed ordnance and explosives (OE) presence is based on verifiable historical evidence or direct witness of OE (with explosive components and/or inert debris/fragments) since site closure. Additional field data is not required to identify a confirmed site. Verifiable historical records evidence is based on OE items actually seen on site since site closure and authenticated by: historical records (Archive Records, Preliminary Assessment Reports, Site Investigation Reports), local fire departments and law enforcement agencies/bomb squads, military Explosive Ordnance Disposal (EOD) units, newspaper articles, photographs or maps. Direct witness of OE items consists of the site inspection team(s) and other credible witnesses as determined by the ASR Research Team Leader (landowners, workers on-site, soldiers who served there, .etc,) verifying that they have seen OE presence on the surface or subsurface since site closure.
- (2) Potential ordnance and explosives (OE) presence is based on a lack of confirmed OE ordnance. Potential OE presence is inferred from records, present day site features, non-verifiable direct witness or indirect witness. Additional field data is needed to confirm potential OE sites. Inference from historical records is based on no OE items actually seen on site since site closure and would include documentation (records, aerial photographs, maps) indicating possible OE presence derived from common practice in production, storage, use, or disposal at that time and from records indicating known OE usage. Inference from present day site features would be the indication of possible OE presence from such obvious features as target circles, depressions, mounds/backstops, OB/OD areas/pits,

etc. Indirect witness would be people who have stated that they have heard of OE presence on-site (hear-say evidence).

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

b. Area A: Bomb Target Impact Area

Area A is considered to have a **confirmed** ordnance presence because debris from M38A2, Mk15 and M47 100 pound practice bombs were discovered in the area by the SI team. Although no intact spotting charges or complete practice bombs were found, such energetic material may exist below the surface. It is not likely for energetic material to exist on the surface since the surface was cleared of hazardous ordnance prior to site disposal. Because a local resident is gathering all the practice bomb debris to sell for scrap, the surface debris remaining in the area may soon be gone. Local law enforcement officials have no record of any incidents involving OE in Area A.

c. Area B: Buffer Zone

Area B is considered to have a **potential** ordnance presence because some of the practice bombs dropped at the target in Area A may have missed by over a 4 mile and therefore impacted in Area B. Given this, there is a slight potential for intact spotting charges and/or practice bombs to exist on the surface or subsurface in Area B. The SI team did not find any OE in the area. A local resident is currently clearing the surface of practice bomb debris to sell for scrap. No incidents involving OE in Area B have been reported to the local authorities.

d. Area C: Remaining Land

Area C is considered **uncontaminated** because there is no historical or present day evidence of OE presence in the area. Historical documentation indicates Area C was idle land surrounding the bomb target and buffer zone. No OE or evidence of past ordnance related activities was discovered by the SI team during the site inspection. There have been no reports of incidents involving OE occurring in Area C.

8. SITE ORDNANCE TECHNICAL DATA

End Item Technical Data

(1) Table 8-1, a listing of ammunition and explosive fillers potentially used at the Victorville PBR #19 site and Table 8-2, a summary of site ordnance fillers, have been developed. These tables are based on a review of historical documentation with specifications stated at Appendix D. Exact models/types have been included as documentation has permitted. Inclusion of this table does not insinuate any OE presence at Victorville PBR #19.

		TABLE 8-1	r en
		AND EXPLOSIVE/CHEMICAL FI	
ITEM	MODEL/TYPE	FILLER/WEIGHT	FUZE/TYPE
Bomb,	M38A2	Body - sheet metal	Mk 247
practice,		Filler - sand	(inert)
100 pound		Spotting charge - M1A1	
	Mk 15 Mod 2	Body - sheet metal	None
		Filler - sand or water	
	Mk 15 Mod 3	Body - sheet metal	Mk 247
		Filler - sand or water	(inert)
		Signal - Mk 7	
	M85	Body - concrete with sheet	None
		metal tail assembly	
		Spotting charge - M1A1	
Bomb,	M47A1*, M47A2*	Body - sheet metal	Unknown*
chemical,		Filler* - sand	
100 pound			
(metal			
parts)			
Charge,	M1A1	Filler - 3 lbs black powder	N/A
spotting			
Signal,	Mk 7	Filler - 1 lb black powder	N/A
practice		-	
bomb			
+ The M4723	and MAZAZ ahamia	al bombs used at Victorville PB	R #19 were
		and inertly filled with sand.	
		used in this configuration.	

b. Chemical Data of Ordnance Fillers

Table 8-2 has been developed to provide information on the explosive/chemical compounds used in the ordnance cited in Table 8-1.

	TABLE 8-2	
CHEMICA	L DATA OF ORDNANCE	FILLERS
FILLER	SYNONYM(S)	CHEMICAL FORMULA
Black Powder	Saltpeter, Niter	
75% Potassium Nitrate		KNO ₃
10% Sulfur		S
15% Charcoal		C

9. EVALUATION OF OTHER ENVIRONMENTAL HAZARDS

a. Hazardous, Toxic and Radiological Waste

There are no apparent HTRW or CON HTRW hazards at Victorville PBR #19.

b. Building Demolition/Debris Removal

There are no apparent BD/DR hazards at Victorville PBR #19.

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX A

REFERENCE SOURCES

APPENDIX A REFERENCE SOURCES

Organization	Name	Telephone	Nature of Support
	GOVERNMENT AGE	4.	
FEDERAL	•		
Department of Defense			
Headquarters	P.T.C.	/300\500 00 3 4	
Defense Technical Information Center (DTIC) 8725 John J. Kingman Road Suite 0944 Fort Belvoir, VA 22060-6218	DTIC Computer	(703)767-8274	On-line computer search No information obtained
Defense Library on Disk Pentagon Library, Room 1A518 Washington, DC 20310-6080	DLOD Computer	(703) 697-4658	On-line computer search No information obtained
Department of Defense Explosive Safety Board 2461 Eisenhower Avenue Alexandria, VA	DDESB Computer	(703)325-8624	On-line computer search No information obtained
National Imagery and Mapping Agency, Philadelphia Depot 5801 Tabor Avenue Philadelphia, PA 19120-5095	Staff	(800)826-0342 (301)227-2495	Aeronautical and nautical charts
Department of Army			
759 th Ordnance Company (EOD) BLDG 520 Fort Irwin, CA 92310	CPT Grimes, 1SG Fortney SFC Woods	(760) 380-4092	Interview I-3
U.S. Army Ordnance Museum Aberdeen Proving Ground, MD 21005-5201	Mr. Roger Godin	(410)278-3602	Source of old ordnance and Navy publications
Defense Logistics Studies Information Exchange (DLSIE) U.S. Army Logistics Management College Fort Lee, VA 23801-6043	DLSIE Computer	(804)734-4007	On-line computer search No information obtained

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT A	GENCIES	
FEDERAL (Continued)			
Department of Defense (Continued	.)		
Department of Army (Continued) U.S. Army Corps of Engineers Office of History 7701 Telegraph Road Alexandria, VA 22310-3865	Contractor	(703) 355-3558	See Appendix B, Section II
U.S. Army Engineer District Los Angeles 911 Wilshire Blvd Los Angeles, CA 93043	Ms. Deb Castens Mr. Greg Boghossian Mr. Jeff Armentrout Mr. Richard Nagle Mr. Delores Henderson	(213) 452-3719 -3722	
U.S. Army Engineer District Los Angeles Southern California Area Office 10845 Rancho Bernardo Road Suite 204 Rancho Bernardo, CA 92127	Mr. Jim Walker Mr. B.J. Allen	(619) 674-6789 -6765	
U.S. Army Center for Military History ATTN: DAMH-RAS 1099 14th Street, NW Franklin Court Building Washington, DC 20005-3402	Contractor	(202)761-5416	See Appendix, Section II
Industrial Operations Command Historical Office ATTN: AMSIO-EAH, Bldg 390 Rock Island Arsenal Rock Island, IL 61299	Mr. Tom Slattery	(309)794-1450	No information obtained

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT A	GENCIES	
FEDERAL (Continued)			
Department of Defense (Continued Department of Army (Continued))		
U.S. Military History Institute Carlisle Barracks	Mr. Richard Sommers (Archives Branch)	(717)245-3601	No information obtained
Carlisle, PA 17013-5008	Mr. John Slonaker (Library)	(717)245-3611	General VAAF information
	Mr. Mike Winey (Photo Archives)	(717) 245-3434	No information obtained
U.S. Army Chemical and Biological Defense Command Aberdeen Proving Ground, MD 21010-5423	Ms. Kathleen Ciolfo	(410)671-4430	No evidence of chemical use at this site
Rock Island Arsenal Museum Rock Island Arsenal Rock Island, IL 61299	Mr. Chris Leinicke	(309)794-3518	Source of old technical manuals
U.S. Army Chemical School Fisher Library - Bldg 1081 Ft. McClellan, AL 36205-5000	Mr. Dick Fastorett	(205)848-4414	No information obtained
USATCES Library ATTN: SIOAC-ESM Savanna, IL 61074	Mr. Chris Holiday	(815) 273-8772	Reference sources available
U.S. Military History Institute Photo Archives Carlisle Barracks Carlisle, PA 17013	Mr. Mike Winey	(717)245-3434	No information obtained

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT	AGENCIES	
FEDERAL (Continued) Department of Defense (Continued)	1		
Department of Air Force	1)		
95 th CEG/CED 501 N. Rosamond Blvd Edwards AFB, CA 93524	MSGT Hepner, TSGT Glinka	(805) 277-2162	Interview I-4
Air Force Historical Research Agency	Mr. Joe Carver	(334)953-2395	Microfilm reels
600 Chennault Circle Maxwell AFB, AL 36112-6424	IRIS Computer	(334) 953-2437	Microfilm reels
Air University Library 600 Chennault Circle Mazwell AFB, AL 36112	Mr. Leroy Bell	(334) 953-2888	No information obtained
Air Force Times 6883 Commercial Drive Springfield, VA 22159	Locators staff	(800)368-5718	Published notice seeking pilots trained/stationed at Victorville AAF.
Department of Navy Navy Historical Center Building 57 Washington Naval Yard Washington, DC 20374	Contractor	(202)433-3171	See Appendix B, Section II
Marine Corps Historical Center BLDG 58 Washington Navy Yard Washington, DC 20373	Contractor	(202)433-3483	See Appendix B, Section II
NAVEODTECHDIV Technical Library 2008 Stump Neck Road Indian Head, MD 20640-5070	Ms. Betty Arboghast Ms. Dawn Risko	(301)743-6834	Source of Navy publications

REFERENCE SOURCES Continued

)rganization	Name	Telephone	Nature of Support
	GOVERNMENT	AGENCIES	
EDERAL (Continued)			
Department of Defense (Continue	d)		
Department of Navy (Continued)		10051000 5010	
Naval Construction Battalion	Dr. Vince Transano	(805) 982-5913	No information obtained
Center	Ms. Carol Marsh		
ATTN: Code 10H - NAVFAC Historian			
10 23 rd Avenue			
Port Hueneme, CA 93043			
•			
Naval Construction Battalion	Mr. Brain Thompson	(805) 982-1124	No information obtained
Center			
ATTN: Code 72 - Technical			
Information Center 1100 23 rd Avenue			
Port Hueneme, CA 93043			
TOTE Machieme, on 55075			
Naval Construction Battalion	Ms. Mona Leon-Guerrer	o (805)982-3057	No information obtained
Center			
ATTN: Code 15 - Civil			
Engineering Support Office			
1000 23 rd Avenue			
Port Hueneme, CA 93043			
USMC	MAJ Allston	(760)830-7215	No OE incidents for site on
EOD Unit, MCAGCC		-6885	file
Twenty-Nine Palms, CA 92272			
Description of Americal business			
Department of Agriculture USDA	Ms. Sherrie Holyoak	(801) 975-3503	Historic aerial photos
Aerial Photography Field	113. Shellie holyoak	(001)3/3/3303	available
Office			
P.O. Box 30010			
Salt Lake City, UT 84130-0010)		

REFERENCE SOURCES Continued

The following organizations and personnel are acknowledged for their support.				
Organization	Name	Telephone	Nature of Support	
GOVERNMENT AGENCIES				
FEDERAL (Continued)				
Department of Agriculture (Cont USDA - CFSA 44811 Date Avenue West Lancaster, CA 93534	inued) Mr. Doug Brand	(805)942-9549	Aerial photos available	
USDA - NRCS 18484 Hwy 18, Suite 195 Apple Valley, CA 92307	Ms. Jackie Lindgren Mr. Rick Aguayo	(760)242-2906	Soil survey, soil map sheets, Aerial photos available	
USDA - NRCS P.O. Box 788115 Bldg 1456, Griffin Road Twenty-Nine Palms, CA 92278	Mr. John Rule	(760)830-7011	Aerial photos available	
Department of Interior USGS Denver Federal Center P.O. Box 25286 Denver, CO 80225	Staff	(303)203-4700	Topographic maps	
USGS EROS Data Center Sioux Falls, SD 57198	Staff	(605)594-6151	Aerial photos	
Bureau of Land Management 6221 Box Springs Blvd Riverside, CA 92507	Mr. John Keyes	(909) 697-5383	No information obtained	
Bureau of Land Management Barstow Resource Area 150 Coolwater Lane Barstow, CA 92311	Mr. Tim Reab	(619)255-8700	BLM real estate records	

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVER	NMENT AGENCIES	
FEDERAL (Continued) Department of Interior (Continue U.S. Fish and Wildlife Service	d)	.d (805)644-1766	Endangered/threatened species
Ecological Services 2493 Portola Road, Suite B Ventura, CA 93003	,, 224201	(000)011 1/00	list
USGS (ESIC) Box 25046, Bldg 810 Denver Federal Center Denver, CO 80225	Ms. Paula Ericks Mr. Steve Reiter		Aerial photos and orthophotoquads available
Department of Commerce National Oceanic and Atmospheric Administration National Climatic Data Center Federal Building, Room 305 Asheville, NC 28801	Mr. Sam McCowen Ms. Yolanda Goos	(/	Climatological data
NOAA Air Force Weather Service 151 Patton Avenue, Room 120 Ashville, NC 28801	Ms. Janet Wall	(704)271-4404	Climatological data
National Archives and Records Ad	iministration		
NARA - Pacific Region (Laguna Niguel) 24000 Avila Road Laguna Niguel, CA 92607	Ms. Suzanne Dewl	oerry (714)360-2641	See Appendix B, Section II
NARA - Pacific Region (San Francisco) 1000 Commodore Drive San Bruno, CA 94066-2350	Mr. Bill Greene Ms. Lisa Miller	• • • • • • • • • • • • • • • • • • • •	See Appendix B, Section II

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT AGE	ENCIES	
FEDERAL (Continued) National Archives and Records A		(202) 501 5205	Can Departing D. Contine II
Archives I Modern Military Pennsylvania and 7th Washington, DC 20408	Contractor	(202)501-5385	See Appendix B, Section II
Archives I Navy Pennsylvania and 7 th Washington, DC 20408	Contractor	(202)501-5671	See Appendix B, Section II
Archives I Old Military Pennsylvania and 7 th Washington, DC 20408	Contractor	(202)501-5390	See Appendix B, Section II
Archives II Cartographic & Architectural Branch 8601 Adelphi Rd. College Park, MD 20740-6001	Contractor	(301)713-7040	See Appendix B, Section II
Archives II Still Picture Branch 8601 Adelphi Rd. College Park, MD 20740-6001	Contractor	(301)713-6660	See Appendix B, Section II
Archives II Motion Picture, Sound and Video Branch 8601 Adelphi Rd. College Park, MD 20740-6001	Contractor	(301)713-7060	See Appendix B, Section II

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT AGE	ENCIES	
FEDERAL (Continued) National Archives and Records Archives II Civil Reference Branch 8601 Adelphi Rd. College Park, MD 20740-6001	Administration (Continued) Contractor	(301)713-7250	See Appendix B, Section II
Archives II Textual Branch 8601 Adelphi Rd. College Park, MD 20740-6001	Contractor	(301)713-7250	See Appendix B, Section II
Suitland Reference Branch 4205 Suitland Parkway Washington, DC 20409	Contractor	(301)457-7190	See Appendix B, Section II
National Personnel Records Center 9700 Page Ave. St. Louis, MO 63132	Mr. Wilson Sullivan	(314)538-4085	See Appendix B, Section III
Washington National Records Center 4205 Suitland Road Suitland, MD 20409	Contractor	(301) 457-7000	See Appendix B, Section II
Smithsonian Institute Smithsonian Institute Historical Research Division Washington, DC 20560	Contractor	(202) 357-3133	See Appendix B, Section II
Congress Library of Congress Geography and Map Division Washington, DC 20536	Contractor	(202)707-5522	See Appendix B, Section II

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT AG	ENCIES	
California State Historic Preservation Office San Bernardino Archaeological Information Center 2024 Orange Tree Lane Redland, CA 92374	Ms. Robin Laska	(909)792-1497	Historical, cultural and archaeological information
California State Archives 1020 East O Street Sacramento, CA 92415	Mr. Metzer	(916)653-2246	No information obtained
California State Library 914 Capitol Hall	Mr. John Gonzales (CA history section)	(916) 654-0176	No information obtained
Library and Courts Bldg Sacramento, CA 94237	Mr. Brent Murphy (Gov documents section)	(916)654-0069	No information obtained
California State University San Bernardino Library 5500 University Parkway San Bernardino, CA 92407	Reference Librarian	(909)880-5084	No information obtained
California Department of Fish and Game 1416 9 th Street Sacramento, CA 95814	(Internet)		Endangered species list
University of California	Reference Desk	(714)824-6836	No information obtained
P.O. Box 19557 Irvine, CA 92110	Mr. Jeff Schneidewind (Govt documents dept)	(714)824-7234	No information obtained
University of California Archives P.O. Box 19557 Irvine, CA 92110	Ms. Mary Ellen Goddard	(714)824-7193	No information obtained

REFERENCE SOURCES Continued

Organization	Name	Telephone	Nature of Support
	GOVERNMENT A	GENCIES	
COUNTY San Bernardino County Archives 777 East Rialto Avenue San Bernardino, CA 92415	Mr. Jim Hoffer	(909) 387-2030	No information obtained
San Bernardino County Assessor 172 West 3 rd Street San Bernardino, CA 92415	Staff	(909) 387-8307	Property plat maps
San Bernardino County Flood Control 825 East 3 rd Street San Bernardino, CA 92415	Mr. Gary Duncan	(909) 387-2529	Source of aerial photos
San Bernardino County Library Victorville Bran h 15011 Circle Drive Victorville, CA 92392	Mr. Booker	(619)245-4222	George AFB material
San Bernardino County Library Lucerne Valley Branch 33103 Old Woman Springs Road Lucerne Valley, CA 92356	Reference desk	(619)248-7521	No information obtained
San Bernardino County Museum 2024 Orange Tree Lane Redlands, CA 92374	Ms. Robin Laska Ms. Noella Benvenuti Ms. Pamela Frost	(909)798-8570	No information obtained
San Bernardino County Planning 385 North Arrowhead Avenue San Bernardino, CA 92415	Ms. Marla Taub	(909) 387-4131	Land use and hazard information
San Bernardino County Sheriff's Department Barstow Station 225 East Mountainview Barstow, CA 92311	SGT Jecusco	(760)256-4841	No record of OE incidents at site

APPENDIX A

REFERENCE SOURCES Continued

The following organizations and personnel are acknowledged for their support.

rganization	Name	Telephone	Nature of Support
_ y	GOVERNMENT AC		<u></u>
OUNTY (Continued)	,		
San Bernardino County Sheriff	Mr. Bill Myers	(909) 387-3598	Interview I-1
and Bomb Squad	Mr. Bob Hall	-3606	
655 East 3 rd Street		-3601	
San Bernardino, CA 92415			
San Bernardino Public Library	Mr. Chris Shovey	(909) 381-8208	Collection of WWII era files
555 West 6 th Street	4		
San Bernardino, CA 92415			
ITY/TOWNSHIP			
(None)			
	NON GOVERNMENT	AGENCIES	
ATIONAL			
Scientific & Technical	Computer (STILAS)	(205) 922-9820	On-line computer search
Information Library System			Old ASRs for other PBRs
689 Discovery Drive			
Huntsville, AL 35806			
Online Computer Library Center	Computer (OCLC)	(800)848-5878	On-line computer search
6565 Frantz Rd.			No information obtained
Dublin, OH 43017-3395			
Northern Illinois Library	Computer (NILS)	(815)229-0330	On-line computer search
System	Computer (MIDS)	(013)223 0330	No information obtained
4034 East State Street			
Rockford, IL 61108			
·		(000) 204 056	
Knight-Ridder Information, Inc	Computer (DIALOG)	(800)334-2564	On-line computer search No information obtained
2440 El Camino Real			No information obtained
Mountain View, CA 94040			
Council on America's Past	Heliogram Publication	(800)398-4693	Source of military history
518 Why Worry Lane			articles; no information
Phoenix, AZ 85021			obtained

APPENDIX A

REFERENCE SOURCES Continued

The following organizations and personnel are acknowledged for their support.

Organization	Name	Telephone	Nature of Support
WINTENNE (C. 11.	NON GOVERNMEN	T AGENCIES	
NATIONAL (Continued) Coast Defense Study Group, Inc 731 Baltimore Pike Bel Air, MD 21014	Publication		Source of military history articles; no information obtained
STATE			
California Historical Society 678 Mission Street San Francisco, CA 94105	Ms. Beth Graham	(415)357-1848	No information obtained
State Historical Society of Wisconsin Library 816 State Street Madison, WI 53706	Staff	(608)264-6534	Victorville AAF newspapers
LOCAL			
Mojave Historical Society P.O. Box 68 Victorville, CA 92392	Staff		Referrals
San Bernardino Visitor and Convention Bureau 201 North E Street San Bernardino, CA 93603	Staff	(909)889-8937	General area information
Victorville Chamber of Commerce 14174 Greentree Blvd Victorville, CA 92392	Ms. Sally Martinez	(760)245-6506	General area information
Victorville Museum 11873 Apple Valley Road Apple Valley, CA 92307	Mr. Walter Day Mr. Wayne Fowlie	(619)240-2111	No information obtained
PRIVATE INDIVIDUALS 40 Oak Shadows Court Baltimore, MD 21228	Mr. Owen Cooper	(410)747-5991	Interview I-6

APPENDIX A

REFERENCE SOURCES Continued

The following organizations and personnel are acknowledged for their support.

Organization	Name	Telephone	Nature of Support
	NON GOVERNME	NT AGENCIES	
PRIVATE INDIVIDUALS (Continued) 3109 N. Glenvalley Drive Midwest City, OK 73110	Mr. Glenn Brooks	(405)732-8877	Interview I-5
Via Maria Raod Landers, CA	Mr. Jay Conway	(None)	Interview I-2

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX B

REFERENCES AND ABSTRACTS

APPENDIX B

REFERENCES AND ABSTRACTS

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Part B: Negative Findings

Section III: Regional National Archives Search Reference

Part A: Positive Findings

Part B: Negative Findings

SECTION I

BIBLIOGRAPHIES

Table of Contents

- B-1 Army Regulation 200-1, <u>Environmental Quality</u>, Environmental Protection and <u>Enhancement</u>, DA, 23 April 1990
- B-2 Mandatory Plan for Ordnance and Explosive Waste (OEW) Mandatory Center of Expertise (MCX) and Design Center, CEHND 1105-3-9, U.S. Army Corps of Engineers, Huntsville Division, 10 August 1992
- B-3 Defense Environmental Restoration Program for Formerly Used Defense Sites, Ordnance and Explosive Waste Archives Search Report Instructions, Version 1.0 with changes, U.S. Army Corps of Engineers, Rock Island District, 21 December 1992
- B-4 Site Safety Plan for OEW Investigations (Appendix A-209, only), U.S. Army Corps of Engineers, Rock Island District, January 1998
- B-5 Soil Survey of San Bernardino County, California, United States Department of Agriculture, February 1986
- B-6 Complete Round Charts No. 5981, U.S. Army Ordnance Department, 1 May 1947 (D-1, D-3, D-4)
- B-7 Ammunition Inspection Guide, TM 9-1904, War Department, 2 March 1944 (D-1, D-4, D-5)
- B-8 Bombs for Aircraft, TM 9-1980, War Department, November 1944 (D-1, D-4)
- B-9 Bombs and Bomb Components, TM 9-1325-200 to 11-1-28, Departments of Army, Air Force and Navy, April 1966 (D-2, D-6, D-7)
- B-10 U.S. Explosive Ordnance, NAVSEA OP 1664, Department of Navy Sea Systems Command, 28 May 1947 (D-5, D-6, D-7)
- B-11 DERP-FUDS Inventory Project Report (INPR) for Site No. J09CA0685, Victorville Precision Bombing Range No. 19, U.S. Army Corps of Engineers, Los Angeles District, 23 July 1991 (E-1)
- B-12 Memorandum, Headquarters ACAFS to WCACTC, Subject: Information Pertaining to Bombing Ranges, ACAFS, Army Air Base, Victorville, California, 13 February 1942, National

- Personnel Records Center, RG 342, 342-53A-4077, 06-23-58-9-3 (F-1)
- B-13 Historical Record of Victorville Army Air Field, Victorville, California from 8 December 1941 to 1 January 1943, January 1943, Center for Air Force History, Microfilm Rolls B2647-B2649 (F-2)
- B-14 Memorandum, United States Engineer Office to VAAF, Subject: Victorville Army Flying School, Victorville, California Contract W-509-Eng.-2196 Bombing Targets Notice of Completion and Release, 30 April 1942, National Personnel Records Center, RG 342, 342-53A-4077, 06-23-58-9-3 (F-3)
- B-15 Range data, circa July 1943, NARA II, RG 18, Entry 292, Box 1641 (F-4)
- B-16 Historical Record of Victorville Army Air Field, Victorville, California from 1 January 1943 to 1 March 1944, March 1944, Air Force Historical Research Agency, Call No. 289.40, IRIS 00179294 (F-5)
- B-17 <u>Historical Record of Victorville Army Air Field,</u> Victorville, California from 1 November to 31 December 1944, January 1945, Air Force Historical Research Agency, Call No. 289.40, IRIS 00179308 (F-6)
- B-18 Army Air Forces Installations Directory, 1 September 1945 (F-7)
- B-19 Memorandum, Army Air Forces Western Flying Command to AAF Training Command, No subject, 6 October 1946, NARA II, RG 18, Entry 1, Box 292 (F-8)
- B-20 Memorandum, San Bernardino Air Technical Service Comand to Air Technical Service Command, Subject: Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California, 7 December 1945, NARA, Pacific Region Laguna Niguel, RG 77, Box 48 (F-9)
- B-21 Memorandum, Headquarters, Army Air Forces to Chief of Engineers, Subject: Withdrawal of Victorville Bombing Targets from Surplus, 20 March 1946, NARA, Pacific Region Laguna Niguel, RG 77, Box 48 (F-10)
- B-22 Memorandum, Headquarters of the Army Air Forces to Division Engineer, Subject: Withdrawal of Victorville Bombing Targets from Surplus, South Pacific Division, 15 April 1946, NARA, Pacific Region Laguna Niguel, RG 77, Box 48 (F-11)

- B-23 Memorandum, Headquarters, Army Air Forces to San Bernardino Army Air Field, Subject: Decontamination of Bombing and Gunnery Ranges, 10 October 1946, National Personnel Records Center, RG 342, 342-53A-4077, 06-23-58-9-3 (F-12)
- B-24 Memorandum, South Pacific Division Corps of Engineers to Chief of Engineers, Subject: Adverse Conditions at Bombing Target Sites, Victorville, Calif., 31 January 1947, NARA II, RG 18, Entry 2, Box 2798 (F-13)
- B-25 Memorandum, Real Estate Division, South Pacific Division, Corps of Engineers to Division Engineer, South Pacific Division, Subject: Transfer of Victorville Army Air Field Bombing Targets, 18 February 1947, NARA, Pacific Region Laguna Niguel, RG 77, Box 48 (F-14)
- B-26 Memorandum, 9800 TSU Detachment No. 14 to South Pacific Division, Corps of Engineers, Subject: Report of the dedudding of Victorville Bombing Targets, San Bernardino, County, California, 4 February 1948, NARA, Pacific Southwest Region, RG 270, Box 162 (F-15)
- B-27 Certificate of Clearance, 22 March 1948, NARA, Pacific Region San Francisco, RG 121, Box 47 (F-16)
- B-28 Memorandum, unknown author, No Subject, 28 April 1948, NARA, Pacific Region San Francisco, RG 121, Box 47 (F-17)
- B-29 Letter, Office of Real Property Disposal to BLM, 19 May 1948, NARA, Pacific Region Laguna Niguel, RG 270, Box 162 (F-18)
- B-30 Memorandum, Office of Real Property Disposal to Property Management Division, Subject: Victorville Precision Bombing Target No. 19, W-Cal-258(WD-1264), 21 May 1948, NARA, Pacific Region - Laguna Niguel, RG 77, Box 48 (F-19)
- B-31 Brief History of George Air Force Base 1941-1950, USAF Historical Division, April 1956, Air Force Historical Research Agency, IRIS 00905362 (F-20)
- B-32 Letter, California Archaeological Inventory to SIOAC-ESL, 11 November 1997 (F-21)
- B-33 Letter, U.S. Fish and Wildlife Service to SIOAC-ESL, 19 December 1997 (F-22)
- B-34 List of endangered/threatened species for San Bernardino County, undated (F-23)
- B-35 Public Land Order 125, 20 May 1943, NARA, Pacific Region San Francisco, RG 121, Box 47 (G-1)

- B-36 Eng Form 1128, Warning Notice, 6 February 1946, NARA, Pacific Region Laguna Niguel, RG 77, Box 27 (G-2)
- B-37 Eng Form 1128, Warning Notice, 13 May 1946, NARA, Pacific Region Laguna Niguel, RG 77, Box 27 (G-3)
- B-38 Eng Form 1128, Warning Notice, 19 August 1946, NARA, Pacific Region Laguna Niguel, RG 77, Box 27 (G-4)
- B-39 WAA Form 1005, Declaration of Surplus Property, 3 March 1948, NARA, Pacific Southwest Region, RG 270, Box 162 (G-5)
- B-40 Quitclaim Deed, United States of America to Norman M. Imbertson and Cora E. Imbertson, 7 July 1949, NARA, Pacific Region San Francisco, RG 121, Box 47 (G-6)
- B-41 Assessor's Map, Book 631, Page 17, San Bernardino County, 23 June 1992 (G-7)
- B-42 San Bernardino County Parcel List, 1998 (G-8)
- B-43 Aerial photo, VV FS M69 AMS, No. 5541, 16 December $1954 \ (K-1)$
- B-44 Aerial photo, NAPP 1790-197, 25 July 1989 (K-2)
- B-45 Map, Real Estate Victorville Army Air Field Bombing Ranges, 15 September 1945, NARA, Pacific Southwest Region (L-1)
- B-46 Map, Real Estate, Victorville Precision Bombing Range No. 19, 12 December 1947, NARA, Pacific Region Laguna Niguel (L-2)

SECTION II NATIONAL CAPITAL REGION ARCHIVES FINDINGA PART A POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 19, CA

Also Researched Under Joshua Tree, CA; Southern Pacific Land Company; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Rolls B2647 thru B2649

Comprehensive History of Victorville Air Force Base, Victorville, California, 1 November 1945 -31 December 1948

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Historical Record of Victorville Army Airfield, Victorville, California, From 8 December 1941 to 1 January 1943

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Historical Record of Victorville Army Airfield, Victorville, California, 1 November 1944 to 31 December 1944

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, From 1 January 1943 to 1 March 1944

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Historical Record of Victorville Army Airfield, Victorville, California, From 1 January 1939 to 7 December 1941

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Historical Record of Victorville Army Airfield, Victorville, California, From 1 March 1944 to 30 April 1944

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Historical Record of 3035th A.A.F. Base Unit, Victorville Army Airfield, Victorville, California, From 1 May 1944 to 30 June 1944

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Tentative List of Stations for Planning on the Installation of Instruments Approach Systems, Army Air Forces Training Command

Entry 1: Security Classified File, 1944 - 1948

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Non-Use Report, Victorville Army Airfield, Including Detailed List of Facilities and Real Estate Data on Bombing Ranges, 1 October 1945

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Rolled Map, Army Air Forces Bombing and Gunnery Ranges within the Continental United States, 1 May 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2247

> Memorandum Relative to Proposed Assignment of Victorville Precision Bombing Ranges to Fourth Air Force, 6 February 1946

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2247

Memoranda Relative to Policy Regarding Decontamination of Bombing and Gunnery Ranges, 9 August - 19 September 1946

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2248

> Memorandum Relative to Bombing Range Status and Requirements, Victorville Army Airfield, 20 June 1944

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2281

Correspondence Relative to Status of Victorville Army Airfield, 18 September - 4 October 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2281

Memoranda Relative to Proposed Hangar Modifications, Victorville Army Airfield, 30 March - 21 May 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2281

> Memoranda Relative to Proposed Installation of Type E-1 Sonic Bomb Scoring Targets, Victorville Army Airfield, 27 March - 16 April 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2795

Correspondence Relative to Army Air Force Installation in California, Washington, and Oregon, Victorville Bombing Ranges

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2798

Memoranda Relative to Declaration of Victorville Army Airfield as Excess Leased Property, 26 December 1946 - 18 February 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2798

Memoranda Relative to Transfer of Surplus Victorville Army Airfield Bombing Targets to Custody of Chief of Army Corps of Engineers, 10 July 1946 - 11 August 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2798

Memoranda Relative to Adverse Conditions, Including Presence of Unexploded Bombs at Victorville Army Airfield Bomb Targets, 31 January - 27 February 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946 Box 2798

Memoranda Relative to Real Property Disposal, Victorville Army Airfield, 5 June - 21 November 1947

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 - 1944

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Rolled Map, Bombing Range Target, V.A.F.S., Victorville, CA

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 - 1944

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Correspondence Relative to Bombing and Gunnery Range Requirements, Victorville Army Airfield, 6 October - 13 November 1943

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 - 1944

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Range Data, Victorville Army Airfield

Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 - 1944

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Real Property Utilization Report, Victorville Army Airfield, 2 August 1944

Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 - 1944

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Real Property Utilization Report, Victorville Army Airfield, 4 September 1944

Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 - 1944

Box 873

List, Post War Air Force Training Installations, Victorville Army Airfield

Entry 295: Correspondence Relating to Airfields, 1939 - 1942 Box 1834

> Memoranda Relative to Acquisition of Government Owned Land for Victorville Flying School Bombing Ranges, 3 February - 14 March 1942

Entry 295: Correspondence Relating to Airfields, 1939 - 1942 Box 1834

> Memoranda Relative to Real Estate Acquisition and Construction Funding, Victorville Flying School Bombing Ranges, 20 January -12 February 1942

Entry 295: Correspondence Relating to Airfields, 1939 - 1942 Box 1834

Memorandum and Exhibit Relative to Real Estate Acquisition, Victorville Bombing Ranges, 17 September 1942

Entry 295: Correspondence Relating to Airfields, 1939 - 1942 Box 1835

Correspondence Relative to Real Estate Acquisition, Victorville Army Flying School Bombing Ranges, 23 June - 19 August 1942

RG 48 (Records of the Office of the Secretary of the Interior)

Entry 749B: Central Classified Correspondence, 1937 - 1953 Box 3220

Letter Relative to Real Estate Acquisition, Victorville Precision Bombing Ranges, 21 April 1943

Entry 749B: Central Classified Correspondence, 1937 - 1953 Box 3220

> Proposed Public Order Withdrawing Public Land for Use by War Department as Bombing Target Sites, Victorville Precision Bombing Ranges, 24 April 1943

RG 77 (Records of the Office of the Chief of Engineers)

Entry 1011: Security Classified Subject Files, 1940 - 1945 Box 855

Correspondence and Report Relative to Additional Facilities Construction, Victorville Army Airfield, 6 October 1944 - 31 March 1945

Entry 1011: Security Classified Subject Files, 1940 - 1945 Box 855

Contract Documents, Victorville Military Airport Bombing Target Construction, 31 December 1941 - 5 March 1942

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 1 - 15 June 1941

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 15 September 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 30 September 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 -1945

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Construction Program at Air Corps Stations, Advanced Twin Engine Flying School - Victorville, California, 31 October 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 -1945

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Construction Program at Air Corps Stations, Advanced Twin Engine Flying School - Victorville, California, 31 January 1942

RG 107 (Records of the Office of the Secretary of War)

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Entry 27: Mobilization Division, Command Installation, Correspondence File, 1942 - 1946

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Draft Circular, "Neutralization of Unexploded Ammunition and Duds"

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Entry 62: Real Property Disposal Case Files, 1945 - 1953 Box 63

> Correspondence and Reports Relative to Real Property Disposal, Victorville Precision Bombing Range No. 19, 3 March 1948 - 7 June 1950

RG 341 (Records of Headquarters U.S. Air Force)

Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955 Box 46

Correspondence Relative to Status of Victorville Air Force Base, 29 October - 12 November 1948

Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955 Box 46

Letters Relative to Proposed Reactivation, Victorville Air Force Base, 18 - 25 October 1948

Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955 Box 46

Letters Relative to Status, Victorville Air Force Base, 19 April - 7 May 1948

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Entry 12: Central Real Property Surveys

Box 47

Department of Defense Installation Survey Report, George Air Force Base, Victorville, California, 24 October 1973

U.S. ARMY CORPS OF ENGINEERS - OFFICE OF HISTORY ALEXANDRIA, VA

Real Estate Records

Realty Control File Summary Sheet Victorville Precision Bombing Range No. 19

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VICTORVILLE PRECISION BOMBING RANGE NO. 19, CA

Also Researched Under Joshua Tree, CA; Southern Pacific Land Company; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Historical Data Cards Posts, Camps, and Stations File

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US Department of the Interior, Geological Surveys

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RG 49 (Records of the Bureau of Land Management) Entry: Land Entry Papers

RG 69 (Records of the Works Progress Administration) Entry: Central Decimal Files, 1935 - 1944

RG 77 (Records of the Office of the Chief of Engineers)

Entry 391: Construction Completion Reports, 1917 - 1943

Entry 393: "Historical Record of Buildings" and "Record of Equipment and

Condition of Buildings" at Active Army Posts, 1905 - 1942

RG 153 (Records of the Office of the Judge Advocate General) Entry: Reservations File, 1800 - 1950

RG 156 (Records of the Office of the Chief of Ordnance)

Entry 36: General Correspondence, 1915 - 1941

RG 162 (Records of the Federal Works Agency)

Entry 21: Records of the War Public Works Program, 1941 - 1949

RG 175 (Records of the Chemical Warfare Service)

Entry 1: Central Correspondence Files, 1918 - October 1942

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RG 394 (Records of US Army Continental Commands, 1920 - 1942)

Entry: 9th Corps Area, Office of the Engineer

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RG 16 (Records of the Department of Agriculture)

Entry 17: General Correspondence of the Office of the Secretary of Agriculture, 1906 - 1975

RG 18 (Records of the Army Air Corps)

Entry 46: The Air Inspector, Decimal File, 1945 - 1947

Entry 293: Security Classified Central Decimal File, 1939 - 1942, Bulkies

Entry 293: Security Classified Central Decimal Files, 1939 - 1942, Series I

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RG 30 (Record of the Bureau of Public Roads)

Entry 54: Highway Traffic Advisory Committee to the War Department, 1941 - 1945

RG 57 (Records of the United States Geological Survey)

Entry 27: Correspondence and Related Records, 1906 - 1945

RG 77 (Records of the Office of the Chief of Engineers)

Entry 106B: General Correspondence, 1918 - 1945

Entry 1014: General Correspondence with Divisions, 1941 - 1945

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Entry 1892: Classified Geographic File, 1936 - 1945

Entry 1892A: General Correspondence (Geographic File), 1936 - 1945

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RG 96 (Records of the Farmers Home Administration)

Entry 3: Correspondence Relating to Participation in the Defense Program, 1940 - 1942

RG 107 (Records of the Office of the Secretary of War)

Entry 108: Secretary of the Army (Patterson), Central Decimal File, 1946 - 1947

Entry 110: Office, Administrative Assistant to the Secretary of War, Decimal File,

February 1946 - June 1947

Entry 127: Office, Special Consultant to the Secretary of War, John D. Russell's

File, 1942 - January 1946

Entry 159: Special Assistant for Construction, M. J. Madigan, Projects, 1940 -

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Entry 211: Office, Assistant Secretary of War for Air, Establishment of Airfields and Airbases, 1940 - 1945

Entry 212: Establishment of Airfields and Airbases, 1941 - 1945

Entry 213: Office, Assistant Secretary of War for Air, Robert A. Lovett, Decimal

File, 1940 - 1946

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Entry 1036B: Historical Files, 1908 - 1962

RG 112 (Records of the Office of the Surgeon General)

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RG 115 (Records of the Bureau of Reclamation)

Entry 7: General Administrative and Program Files, 1919 - 1945

RG 159 (Records of the Office of the Inspector General)

Entry 26D: General Correspondence. 1939 - 1947

Entry 26E: General Correspondence (Confidential), 1939 - 1947

RG 160 (Records of Headquarters, Army Service Forces)

Entry 25: Director, Plans and Operations, Liaison and Control Branch, Subject

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RG 168 (Records of the National Guard Bureau)

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RG 250 (Records of the Office of War Mobilization and Reconversion)

Entry 73: Federal Construction Projects, August - October 1946

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RG 336 (Records of the Office of the Chief of Transportation)

Entry: Historical Program Files, 1940 - 1950

RG 337 (Records of Headquarters, Army Ground Forces)

Entry 16A: General Staff, G-3 Section, Administrative Division, Subject Correspondence File, 1942 - 1947, Uniform and Equipment to Western Defense

Command

Entry 25: Army Field Forces, Headquarters, General Staff, G-3 Operations Group,

Organization and Equipment Division, General Decimal File, 1943 - 1948

Entry 55A: Ground Adjutant General Section, Records Division, Project Decimal

File, March 10, 1942 - 1943, 1946 - 1947

Entry 57: General Headquarters, US Army Special Staff

Entry 57A: General Headquarters, US Army Project Files, 1940 - 1942

RG 338 (Records of US Army Commands, 1942 -)

Entry: Ninth Service Command

Entry: Posts, Camps, and Stations

Entry: Western Defense Command

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Entry 53: Air Coordinating Committee, General File, 1944 - 1950

RG 341 (Records of Headquarters, US Air Force)

Entry 336: Plans, Central Decimal File, 1942 - 1954

RG 342 (Records of US Air Force Commands, Activities, and Organizations)

Entry: "Sarah Clarke" Decimal Correspondence File

RG 407 (Records of the Adjutant General's Office, 1917 -)

Entry: Classified Project Decimal File, 1940 - 1950

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RG 18 (Records of the Army Air Corps)

RG 30 (Records of the Bureau of Public Roads)

RG 77 (Records of the Office of the Chief of Engineers)

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RG 145 (Records of the Agricultural Stabilization and Conservation Service)

RG 342 (Records of U.S. Air Force Commands, Activities, and Organizations)

RG 373 (Records of the Defense Intelligence Agency

NARA - ARCHIVES II - MOTION PICTURE, SOUND, AND VIDEO BRANCH COLLEGE PARK, MD

RG 111 (Records of the Office of the Chief Signal Officer)

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RG 18 (Records of the Army Air Corps)

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RG 77 (Records of the Office of the Chief of Engineers)

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Accession 077-53A-325

Accession 077-55A-323

Accession 077-57A-374

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NARA, PACIFIC REGION (SAN FRANCISCO) SAN BRUNO, CA

RG 121, Records of the Public Building Service
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Memo, Subj: Short Form Appraisal, 3 February 1947

Box #47

Paper, Certificate of Clearance, 22 March 1948

Memo, From Harry W. Carlson To Victorville PBR 19 Assignment Folder, Re: Directions to PBR No. 19, September 2, 1948

Memo, From Harry W. Carlson To Victorville PBR 19 Assignment Folder, Re: Inspection of PBR No. 19, September 2, 1948

Memo, From War Assets Administration To Farm Credit Administration, Re: Assignment of Tract No. 191 to Agency, July 2, 1948

Paper, Real Property Classification, Re: Victorville Precision Bombing Range #19, March 3, 1948

Dwg, Victorville Army Flying School Bombing Target No. 19,
 Feb 9 1943

Paper, Declaration of Surplus Real Property, Re: Victorville Bombing Target Site 19, w/Block 8 Schedules A,C-F, Undated

Paper, Victorville Precision Bombing Range #19, Project FCA 11-69, Undated

Quitclaim Deed, 7 July 1949

Paper, Appraisal Report, Tract 191, March 1 1943

Paper, No. 2434-0'C, Final Judgment and Decree in Condemnation, Tract No. 191, 14 December 1944

Paper, Preliminary Certificate of Title No. 142740, Tract No. 191, Undated

NARA, NATIONAL PERSONNEL RECORDS CENTER ST LOUIS, MO

RG 18, Records of the Army Air Forces
Accession #342-47A4227
Box #06-23-58-9-5
Dwg, Regional Map of VAAF & Satellite Facilities, Sept. 1943

RG 342, Records of U.S. Air Force Commands, Activities, and Organizations

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Box #06-23-58-9-3

Memo, Subj: Information Pertaining to Bombing Ranges, ACAFS, Army Air Base, Victorville, California, February 13, 1942

Memo, Subj: Victorville Army Flying School, Victorville,
 California - Contract No. W-509-Eng.-2196 - Bombing
 Targets - Notice of Completion and Release to Air Corps,
 April 30, 1942

Memo, Subj: Transfer of Real Property, 21 May 1946

Memo, Subj: Decontamination of Bombing and Gunnery Ranges, Oct. 10, 1946

Paper, Dedudding Report on Bombing Targets Formerly Assigned to Victorville Army Air Field, 25 Sep 1946

Accession #342-47A4227

Box #06-23-58-9-5

Memo, From 4196th AAF Base Unit to Sub-Station Sheriff's Office, San Bernardino County, Re: Removal of Bomb Scrap, 19 August 1947

Memo, Status of Assignment of Bombing and Gunnery Ranges, 25 June 1947

Memo, Subj: Removal of Military Scrap from Artillery, Bombing and Other Target Ranges, 6 August 1947

Memo, Subj: Status of Assignment of Bombing and Gunnery Range, Feb 19 1947

Memo, Subj: Teletype SBCON-2-2 dated 4 Feb 47, 10 Feb 1947
Paper, Statistical Data Bombing Ranges, Victorville Army Air
Field, (as Reflected by VAAF Records 11 March 1947)

NARA, PACIFIC REGION (LAGUNA NIGUEL) LAGUNA NIGUEL, CA

RG 77, Records of the Office of the Chief of Engineers
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Memo, From the Federal Land Bank of Berkeley to the Chief of Engineers, Re: Disposal Agency for PBR #19, 8 Jul 1948

Accession #077-64J0445

Box #48

Memo, From ASF, HQ 9th Service Command to Commanding Officer, Camp Haan, Re: Movement of 65th Ordnance Bomb Disposal Squad to Victorville, 1 August 1945, w/Indorsements

Memo, Subj: Declaration as Excess, Auxiliary Installations of Victorville AAF, 7 Dec 1945, w/1st Ind, 28 Dec 1945

Memo, Subj: Withdrawal of Victorville Bombing Targets from Surplus, 20 Mar 1946 w/Indorsements

Memo, Subj: Withdrawal of Victorville Bombing Targets from Surplus, 15 Apr 1946

Memo, Subj: Transfer of Victorville AAF Bombing Targets, 18 Feb 1947

Accession #077-96-133

Box #27

Realty Control File Summary, Undated

Memo, Subj: Land Acquisition, Bombing Ranges for Victorville Army Flying School, 2 Sep 1942, w/Indorsements

Memo, Subj: Excess Bombing Targets, Victorville, 1 Feb 1946 Warning Notice, Declaring Bombing Target 19 as Surplus Property, 6 Feb 1946

Memo, Subj: Reclassification of Victorville Bombing Ranges, 18 Apr 1946

Warning Notice, Declaring Bombing Target 19 as Reestablished, 13 May 1946

Memo, Subj: Transfer of Surplus Facilities, Pacific Div, No. 4197-3 (Victorville AAF), 11 Aug 1947

Memo, Subj: Disposal of Bombing Target Sites at Victorville AAF, 14 Aug 1947

Warning Notice, Declaring Bombing Target 19 as Surplus Property, 19 Aug 1947

Military Acquisition Project Report, Victorville PBR #19, w/Tract Register, 14 Nov 1947

- Memo, Subj: Report of the Dedudding of Victorville Bombing Targets, San Bernardino County, 4 Feb 1948
- Declaration of Surplus Real Property, Victorville Bombing Target Site 19, 3 Mar 1948, w/attachments
- Certificate of Clearance, Victorville Bombing Targets Nos.
- 3, 7, 10, 11, 12, 13, 14, 16, 17, 19, and 20, 22 Mar 1948
 Declaration of Surplus Real Property (Correction),
 Victorville PBR #19, 6 Jul 1948
- Memo, Subj: Return of Public Domain Land to DOI, 9 Aug 1948
 Real Property Management and Disposal Report, Victorville
 PBR #19, 15 Sep 1949
- Final Project Ownership Map, 3 Dec 1947
- Final Project Ownership Map, Victorville Bombing Ranges, 19 Sep 1945
- Location Map, Victorville Bombing Targets, 27 Nov 1944
- RG 270, Records of the War Assets Administration Box #162
 - Base Project Map, Victorville Bombing Target #19, 9 Feb 1945 Real Property Classification, Victorville PBR #19, 3 Mar 1948
 - Memo, From BLM to WAA, Re: Declaration of Surplus Real Property, 21 Apr 1948
 - Memo, Subj: Inspection by the Los Angeles District Joint Property Survey Team, 28 Apr 1948
 - Memo, Subj: Victorville Bombing Target Areas 3, 7, and 19,
 W. Calif 259, W. Calif 260, and W. Calif 258,
 respectively, 30 Apr 1948
 - Memo, Subj: Return to Public Domain Victorville Bombing Target Sites 3, 7, and 19 (W. Calif 259), (W. Calif 260), and (W. Calif 258), respectively, 14 May 1948
 - Memo, From WAA to BLM, Re: Return of Land to Public Domain, 19 May 1948
 - Memo, Subj: Victorville PBR #19, Assumption of Custody and Accountability, 21 May 1948

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VICTORVILLE PBR NO. 19

NARA, PACIFIC REGION (LAGUNA NIGUEL) LAGUNA NIGUEL, CA

- RG 30, Records of the Bureau of Public Roads
 All Entries
 Nothing Found
- RG 49, Records of the Bureau of Land Management All Entries Nothing Found
- RG 71, Records of the Bureau of Yards and Docks
 All Entries
 Nothing Found
- RG 77, Records of the Office of the Chief of Engineers
 Accession #077-96-0134
 Box #5
 Nothing of Value to this ASR Found
- RG 92, Records of the Quartermaster General All Entries
 Nothing Found
- RG 156, Records of the Chief of Ordnance All Entries Nothing Found
- RG 219, Records of the Office of Defense Transportation All Entries Nothing Found
- RG 269, General Records of the General Services Administration All Entries Nothing Found

RG 336, Records of the Office of the Chief of Transportation
All Entries
Nothing Found

RG 338, Records of U.S. Army Commands
All Entries
Nothing Found

RG 342, Records of U.S. Air Force Commands, Activities, and Organizations

All Entries Nothing Found

NARA, NATIONAL PERSONNEL RECORDS CENTER ST LOUIS, MO

RG 342, Records of U.S. Air Force Commands, Activities, and Organizations

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Nothing of Value to This ASR Found

Accession #342-46A4076
Box #06-38-18-2-1
Nothing of Value to This ASR Found

Accession #342-50A4042
Box #06-38-18-1-3, 2 Boxes
Nothing of Value to This ASR Found

NARA, PACIFIC REGION (SAN FRANCISCO) SAN BRUNO, CA

RG 18, Records of the Army Air Forces
All Entries
Nothing Found

RG 30, Records of the Bureau of Public Roads
All Entries
Nothing Found

- RG 49, Records of the Bureau of Land Management All Entries Nothing Found
- RG 77, Records of the Office the Chief of Engineers
 Accession #75Q1061
 Boxes #1-3
 Nothing of Value to This ASR Found
- RG 92, Records of the Office of the Quartermaster General All Entries
 Nothing Found
- RG 111, Records of the Chief Signal Officer
 All Entries
 Nothing Found
- RG 112, Records of the Surgeon General (Army)
 All Entries
 Nothing Found
- RG 121, Records of the Public Buildings Service
 Accession #9NSS-121-87-001
 Boxes #1 and 9
 Nothing of Value to This ASR Found

Accession #9NSS-121-85-009
Box #12
Nothing of Value to This ASR Found

Accession #9NSS-121-85-004
Box #72
Nothing of Value to This ASR Found

- RG 156, Records of the Office of the Chief of Ordnance All Entries Nothing Found
- RG 219, Records of the Office of Defense Transportation All Entries Nothing Found
- RG 269, General Records of the General Services Administration All Entries Nothing Found

- RG 270, Records of the War Assets Administration All Entries Nothing Found
- RG 291, Records of the Federal Property Resources Service
 Accession #9NSS-291-93-002
 Box #19
 Nothing of Value to This ASR Found
- RG 338, Records of U.S. Army Commands
 All Entries
 Nothing Found

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX C

GLOSSARY

APPENDIX C

GLOSSARY

ACAFS Air Corps Advanced Flying School

AN Army-Navy

BD/DR Building Demolition/Debris Removal

BLM Bureau of Land Managment

CEHNC U.S. Army Engineering and Support Center,

Huntsville

CEMVR U.S. Army Corps of Engineers, Rock Island District

CESPL U.S. Army Corps of Engineers, Los Angeles District

COE Corps of Engineers

CON HTRW Containerized Hazardous Toxic and Radiological

Waste

CWM Chemical Warfare Material

DA Department of Army

DERP Defense Environmental Restoration Program

DOD Department of Defense

EE/CA Engineering Evaluation/Cost Analysis

EOD Explosive Ordnance Disposal

F Fahrenheit

FDE Findings and Determination of Eligibility

FUDS Formerly Used Defense Sites

HTRW Hazardous, Toxic and Radiological Waste

INPR Inventory Project Report

IRA Interim Removal Action

lb Pound

M Model

Mk Mark

NOFA No Further Action

OE Ordnance and Explosives

PA Preliminary Assessment

PBR Precision Bombing Range

PLO Public Land Order

POC Point of Contact

SHPO State Historical Preservation Officer

QASAS Quality Assurance Specialist Ammunition

Surveillance

RAC Risk Assessment Code

SAA Small Arms Ammunition

SI Site Investigation or Site Inspection

SIOAC Defense Ammunition Center

USGS U.S. Geological Survey

UXO Unexploded Ordnance

VAAF Victorville Army Air Field

VAFS Victorville Army Flying School

WCACTC West Coast Air Corps Training Center

WD War Department

Ordnance and Explosives
Archives Search Report
forVictorville Precision Bombing Range
San Bernardino County, California
Project Number J09CA068500

APPENDIX D

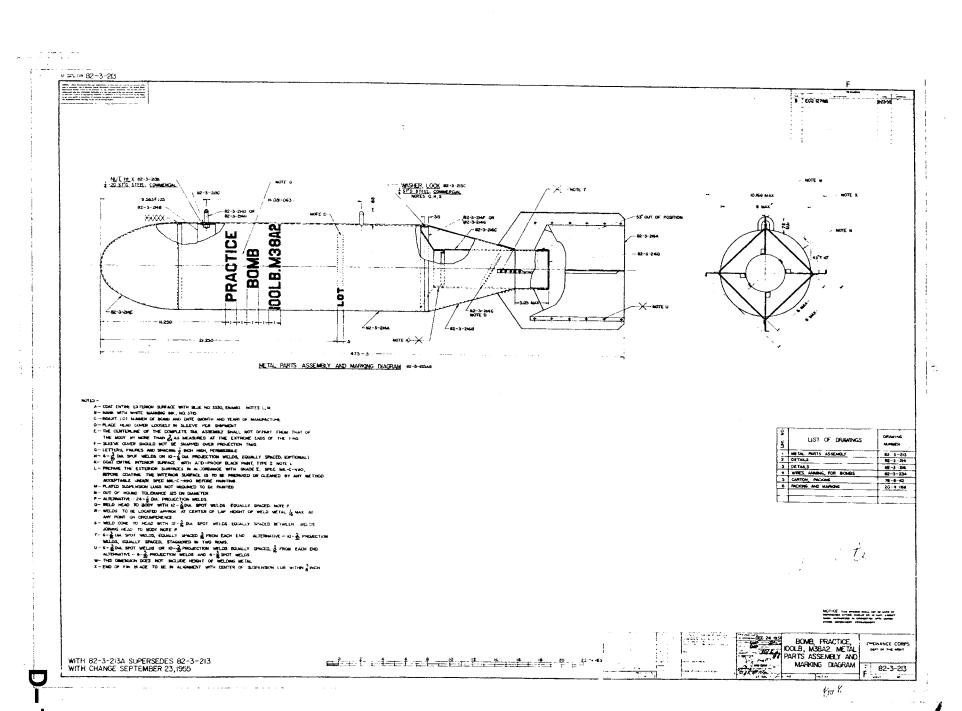
TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

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- D-1 M38A2 100 pound practice bomb (B-6, B-7, B-8)
- D-2 Mk15 100 pound practice bomb (B-9)
- D-3 M85 100 pound practice bomb (B-6)
- D-4 M47A2 100 pound chemical bomb (metal parts) (B-6, B-7,
- B-8)
- D-5 M1A1 spotting charge (B-7, B-10)
- D-6 M7 signal (B-9, B-10)
- D-7 M247 fuze (B-9, B-10)



PRACTICE AND TARGET BOMBS

			вомв						}	ADAPTER-E	BOOSTERS		FUZE	.8			PRIMER-DE	TONATOR			,	PAC	CK I NO			<u>₹</u>
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	Prac., 23 Lb., N71 h	82-0-91	82-3-253	21.1		None							None		None					20-4-386						1
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5 & H	100 Lb., H 75A1 m	102-0-97	02= 7=409	1.01.6	 	 	1-	1-	†		T -		1												<u> </u>	1
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ISSUED - September 6, 1924

REVISED _ 1 May 1947

S = Issue.
M = Manufacture.
Prac. = Practice.

(a) - Spotting Charge, M3 and M4 also may be used. Drgs. 52-3-402 and 82-3-496 respectively.
(b) - Bomb is made of reinforced concrete.
(c) - Uses Fin Assembly, M105, Drg. 82-3-406.
(d) - Uses Red Iron-Oxide (Hematite).
(e) - Fuze uses Pressure Plate, Drg. 82-3-410.
(h) - Parachute Unit M3, Drg. 82-3-265.
(j) - Parachute Unit, M4 Drg. 82-3-400.
(m) - Uses Burster, AK-M4, Drg. 82-3-281.

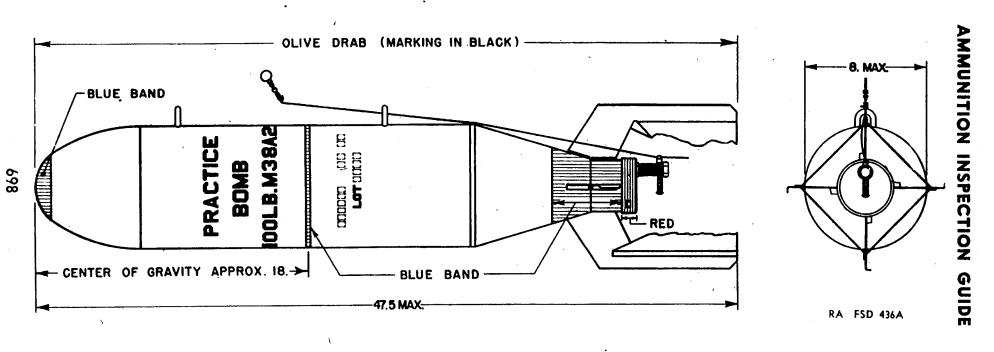


Figure 274 — BOMB, Practice, 100-pound, M38A2

BOMBS FOR AIRCRAFT

discussed are those which are in use at the present time and were developed for practice in the use of specific types of service bombs.

Drill Bombs and Gage Bombs. Drill bombs are provided for training and practice in assembling, fuzing, handling, and loading on planes, and for the study of logistics. They are fitted with adapters to receive inert fuzes of standard models. Drill bombs are of the same size, shape, and weight as the corresponding service bombs. These bombs contain no explosive and are painted black or olive drab with black bands and are appropriately marked to distinguish them from explosive bombs.

Manufacturers of the various types of bombers and manufacturers of bomb racks are chiefly interested in gage bombs. These are either empty standard bombs or wooden forms used in the testing of planes for clearances, or in testing racks for capacity or proper function.

BOMB, PRACTICE, 100-POUND, M38A2.

General. This bomb is used to give practice in demolition bombing. It is a thin case bomb, easy to manufacture, cheap in cost, and accurate in use. The bomb case cannot be reused after it has once been dropped in practice.

Body Description. It is constructed of light sheet metal, approximately 22 gage. The body is formed by rolling a rectangular sheet of metal into the form of a cylinder 8 inches in diameter, and spotwelding the seam at 2-inch intervals. The rounded nose is pressed from the same metal, as is the tail which is formed in the shape of a cone. Inside of the smaller end of the conical tail section is welded the spotting charge receiver. It extends about 7 inches into the cone and projects about 2 inches out of the tail end. The inner end of this receiver is fitted with a shoulder which supports a thin metal cover which is inserted after sand loading to protect the spotting charge from the sand in the bomb. At the outer end of the receiver are two projecting ears which serve to lock the spotting charge in place.

The receiver may be equipped with a cover cap. This is sometimes removed because it tends to stick tightly and make insertion of the spotting charge difficult in the field. Since the bombs are protected from the elements by at least a tarpaulin, this procedure does not appreciably harm the bombs.

Two suspension lugs are bolted to the bomb body during fabrication. The tail portion ends in a box type tail fin which has one blade in line with the suspension lugs. The over-all length of the bomb body is 47½ inches. When empty, the bomb body weighs approximately 14 pounds. When completely loaded with sand (approx. 80 lb) and spotting charge, the weight of the bomb is approximately 100 pounds. The cost of the empty bomb body is approximately \$1.50. When

AMMUNITION INSPECTION GUIDE

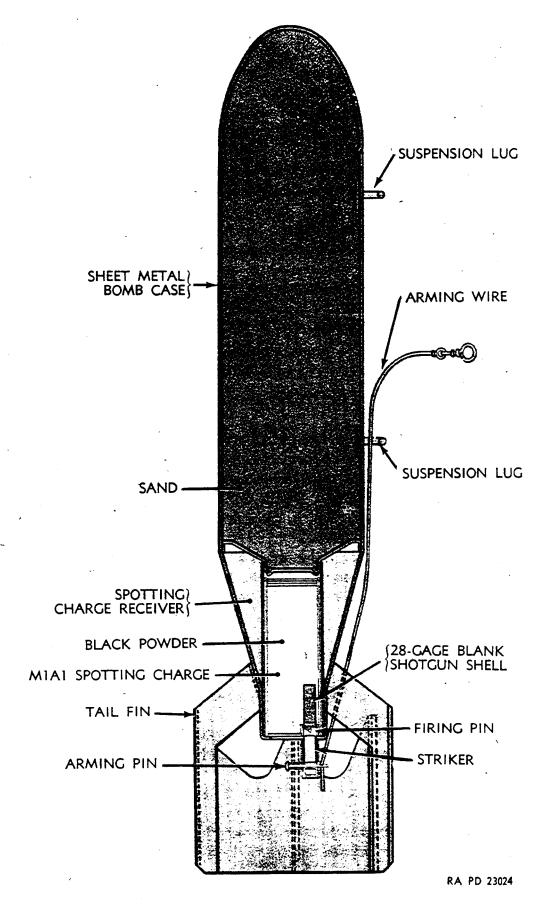


Figure 275 — BOMB, Practice, 100-pound, M38A2—Sectioned 700

- c. Assembly. In order to assemble the spotting charge it is only necessary to remove the cotter pin in the nose of the bcmb, remove the firing pin, insert the signal or cartridge, and replace the firing pin and cotter pin.
- 121. BOMB, PRACTICE, 20-LB., M48. This bomb represents a finstabilized fragmentation bomb. It is 21.8 inches in length and weighs 19.7 pounds. This bomb is intended to simulate to BOMB, fragmentation, 20-lb., AN-M41. It resembles the latter except that the body has a sheet metal closing disk in the side, and the charge is 2 ounces of black powder. The fuzes authorized for this bomb are FUZE, bomb, AN-M110A1 (nose), or FUZE, bomb, M110 (nose). BOMB, practice, 20-lb., M48 is issued only in CLUSTER, practice bomb, M2 and CLUSTER, practice bomb, M2A1. (See sec. XVII.)
- ✓ 122. BOMB, PRACTICE, 23-LB., M71 AND M71A1. These bombs represent parachute type fragmentation bombs for assembly in clusters. The complete bomb consists of BODY, bomb, for 23-lb., practice bomb, M71 and M73, or M71A1 and M73A1 and parachute unit, assembly, M3 (modified from M4 by removal of suspension assembly, band assembly, and pull wire container). Note that fuze and spotting charge are unnecessary since the parachute is ample for spotting purposes. BOMB, practice, 23-lb., M71, is 26.8 inches long and weighs 21 pounds. The M71A1 is modified by the addition of the shoulder to the nose of the bomb. It is used only in CLUSTER, practice bomb, M5. (See sec. XVII.)
 - 123. BOMB, PRACTICE, 23-LB., M73. BOMB, practice, 23-lb., M73, simulates a parachute type fragmentation bomb intended for individual suspension. The complete round consists of an empty service bomb body and a parachute unit assembly. It is assembled by setting back the set screw in the collar on the base of the bomb body, screwing in the coupling of the case assembly and tightening the set screw. No fuze or spotting charge is necessary since the parachute serves for spotting purposes. The bomb, 28.5 inches long, weighs 21.1 pounds.
 - 124. BOMB, PRACTICE, 100-LB., M38A2. a. Data. BOMB, practice, 100-lb., M38A2, is a round-nosed cylindrical bomb designed to simulate general-purpose bombs. (See fig. 117.) It is 47.5 inches long and 8.13 inches in diameter. As issued, the fins are assembled to the bomb body which is empty for sand loading in the field. The empty bomb weighs 15.7 pounds, sand filled; with spotting charge assembled, it weighs 100 pounds. The spotting charge is assembled in a sleeve at the base of the bomb, within the fin box.

- b. Spotting charge. The authorized spotting charges are CHARGE, spotting, assembly, M1A1, M3, and M4. These assemblies consist of a 3-pound charge and an integral fuze consisting of an inertia type firing pin restrained by an arming pin, with a blank loaded shotgun shell for a primer. The M3 produces a large amount of black smoke and is authorized for use over ranges completely covered with snow. The M4 is authorized for use on ranges equipped with sonic spotting devices. The M1A1 is authorized for all other uses.
- c. Assembly. To assemble the complete round, the following procedure may be used:
- (1) Load with sand to weight: Remove the bomb from the carton and inspect for serviceability. Remove the closing cover from its place in the sleeve. Place the bomb upright and fill completely with a uniform sand mixture. Shake the load down well so that there will be no room for it to shift. If a lighter loading is desired, mix sawdust or sifted ashes with the sand. The bomb must be filled, and the loading material must be uniform. Press the closing cap into place.
- (2) Assembly spotting charge: Insert spotting charge assembly and seat firmly with arming pin pointing away from bomb suspension lugs. Pass arming wire through rear suspension lug and then through eyelet in arming pin. Adjust to protrude 2 to 3 inches.
- 125. BOMB, PRACTICE, TARGET, 100-LB., M75. a. Data. BOMB, practice, target, 100-lb., M75, is provided to furnish a target reference for practice bombing over snow covered ranges. The bomb resembles the 100-pound chemical bomb and consists of a light sheet metal case, a charge of red iron ore (hematite), a burster, and a fuze. The bomb is 47 inches long and 8 inches in diameter. It weighs 101.3 pounds of which 72 pounds is hematite. Upon impact the burster distributes the charge over an area 35 feet in diameter.
- b. Complete round. The complete round consists of the bomb, unfuzed, without burster, BURSTER, M4, FUZE, bomb, M108 (nose), with pressure plate, and WIRE, arming, assembly. The complete round, except burster, is shipped unassembled in a wooden box.
- c. Assembly. To assemble the complete round, the following sequence should be observed:
- (1) Remove components from packing and inspect for service-ability.
 - (2) Remove the fuze seat and adapter sleeve from the adapter.
- (3) Insert the burster in the burster well; push it in until the shoulder of the burster seats against the shoulder of the burster well. Use no force.
- (4) Replace the adapter sleeve and screw firmly against the burster.

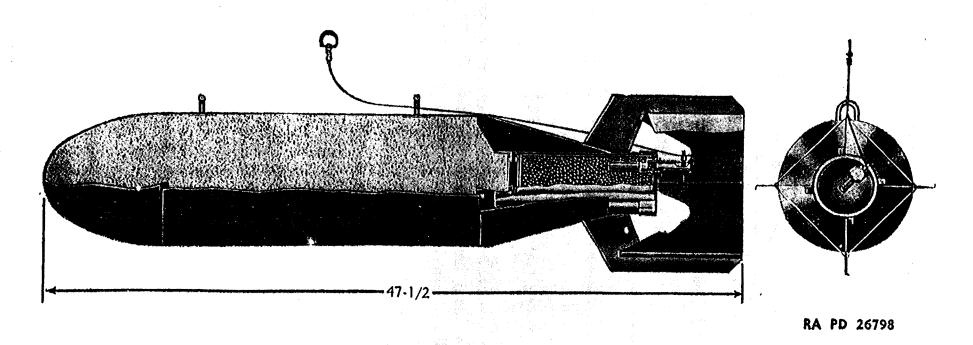


Figure 117. BOMB, practice, 100-lb., M38A2.

2-52. Bomb, Practice: 100-Pound, MK15 Mods 2, 3 and 4

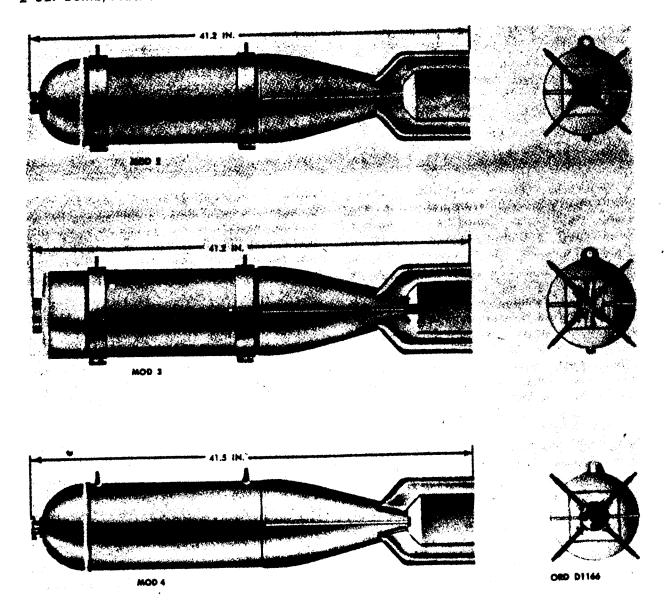


Figure 2-62. Bomb, practice: 100-pound, MK15 Mods 2, 3, and 4.

Table 2-50. Bomb, Practice: 100 Pound, MK15 Mods 2, 3, and 4

	,		
Mark Mod	15 2	15 3	15
Length of Assembled Bomb (in.) Diameter of Body (in.) Fin Span (in.) Weight of Assembled Bomb (lb): Loaded with Wet Sand Loaded with Water	11.24	11.24.	97.0

2-83

Table 2-50. Bomb, Practice: 100 Pound MK15 Mods 2, 3, and 4-Continued

Mark	15	15	13
Mod	2	3	4
Wet Sand Filler (lb)	76.0	77.4	76.0
Water Filler (lb)			
Water Filler (gal)			
Signal			
Fuze			
Firing-Pin Assembly			
Arming-Wire Assembly			No Arming Wire

a. Description. Practice bomb MK15 Mod 2 (fig. 2-62 and table 2-50) is identical to the Mod 3 except that it is not adapted for the use of a fuze and signal. It is filled with water or a mixture of sand and water (fig. 2-63) for spotting purposes. For training purposes, a small washer may be soldered to the nose of the bomb to simulate a fuze. The end of an arming wire (which is normally inserted in the fuze of service type bombs) is then secured to the washer. For armed releases, the washer is torn free of the bomb by the arming wire; for safe releases, the arming wire remains secured to the washer. When used against armored-deck target boats, it is filled with water and released from an altitude of less than 7,000 feet.

b. Bomb, Practice: MK15 Mod 3. Practice bomb MK15 Mod 3 has a light-cased, cylindrical body with a threaded filling hole in its rounded nose. A box-fin assembly consisting of four metal vanes attached to a cone is welded to the aft end of the body. The bomb has two metal suspension band assemblies (each consisting of a circular clamp, a suspension lug, and two cap screws) for tightening the band to the bomb. The bands may be adjusted for double suspension of the bomb by orienting to suit the rack or shackle to which the bomb is to be attached. A flat nose attachment that reduces

ricochet of the bomb at entrance angles as low as 90 degrees is used during antisubmarine practice. The attachment is secured in place by a cap which threads onto the filling hose. The bomb is used with practice bomb signal MK7 Mod 0 and inert fuze MK247 Mod 0 both of which are secured to the aft end of the bomb.

c. Bomb, Practice, 100-Pound: MK15 Mod. 4. The practice bomb MK15 Mod 4 is a light-cased, cylindrical bomb with a round nose and an integral box fin and cone. A flash tube, extending throughout its transverse axis, houses a pyrotechnic signal and firing-pin assembly. Two suspension lugs are welded to the bomb body 14 inches apart. A filling hole is located off center on the bomb nose and is sealed by a filler cap similar to those used on automobile gas tanks. The firing-pin assembly consists of two shallow metal cups, separated by a spacer which houses the firing pin. A cotter pin through the nose end of the flash tube and two recesses in the lip of the forward cup locks the firing-pin assembly and signal in place.

d. Functioning. Upon impact of the bomb with the target, the signal is detonated, producing a flash and a large puff of smoke, which permits observation of the bombing accuracy.

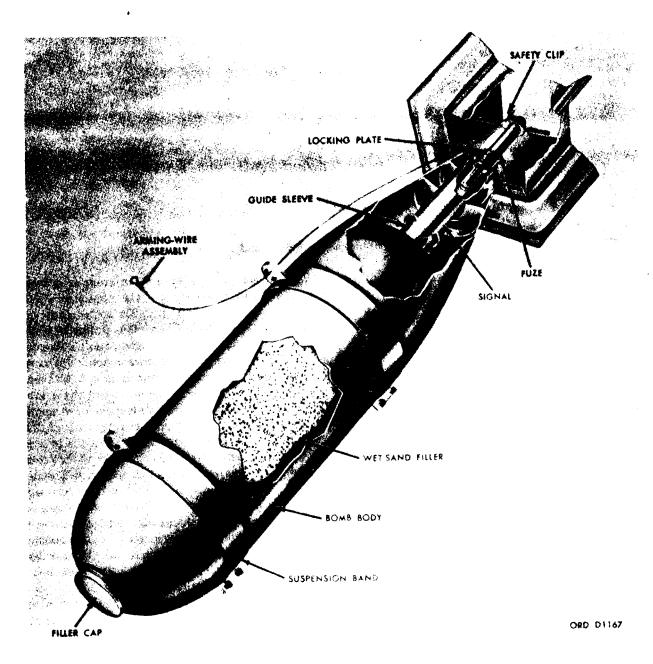
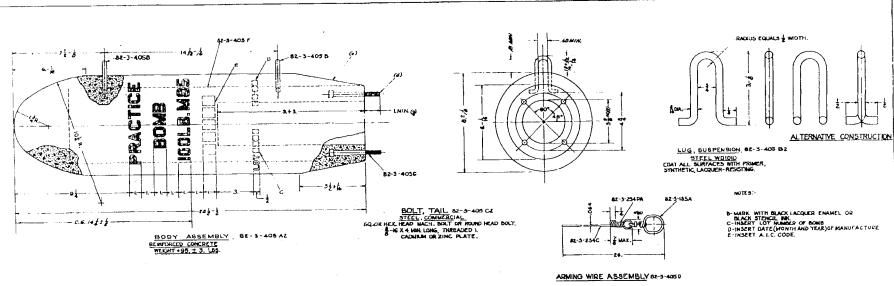


Figure 2-63. Bomb, practice: 100-pound, MK15, Mods 2, S and 4, cutaway.



POLL MEGH INTO CACE 6' DIA 424"LONG,
OYERLAP SEAM & STAPLE OR WELD TOGETHER.

			L1:	ST OF PARTS					
Т	Γ			MATERIAL			μ.	1 × 0 0	
NAME OF PART	NUMBER RED FER COMPONENT	PIECEMARK	SIZE OR FORM	KIND	GRADE	SPEC. NUMBER.	APPROXIMA UNIT WEIGHT (POUNDG)	APPROXIMA W.C. OF RA STOCK PER APPENBLIS	REMARKS
1		87-3-405A	CASTING	CONCRETE	†		95.00		
BOOY ASSEMBLY		BE 3 405B		STEEL	WO 1010.	87-107	.17	170.00	-
LUS SUSPENSION		BZ 3 4050				COMMERCIAL			⊢
BOLT TALL				31.66		7	1	1	(a)
. ARMING WIRE ASSENBL	γ] I	82-3-405D				COMMERCIAL	†		
CAGE, RE INFORCING		82 - 3 - 406F		STEEL, EXPANDED			 		
CAGE REPRIOREME		1		PRIMER, SYNTHETIC, LACQUER-RESISTING		JAN-F-72		+	
<u> </u>					1	l	L	1	_
7		 	 	LACQUER ENAMEL, BLACK		JAN-173		↓	(b)
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REQUIRED SPEC. LIST OF SPECIFICATIONS NUMBER BY DRG.82-3-405 I AMPLIATION EXCEPT SMALL ARMS AMM, GENERAL SPEC. FOR. 50-0-1 AX3-1370 DEG.81-3-408 Z BOMB, PRACTICE, 100 LB, M65 B PRESTENCE, OFACIE, FOR MARKING FORGUS SURFACES (WOODEN-BOXES, ETC.) TT-1-559 DRG.82-3-405 JAN-L-73 DR4.82-3-405 6 LACQUER ENAMEL, LUSTRELESS QQ-M-151 57-136 3-1 JAN-L-75 7 METALS, GEN. SPEC. FOR INSPECTION OF 8 PAINTS AND RELATED MATERIALS, GENERAL SPEC. FOR JAN-P-72 DRG-82-5-405 87-107 DRG-82-3-405 8. PRIMER, SYNTHETIC, LACQUER-RESISTING TO STEEL, CARBON & ALLOY, BARS

THE SPECIFICATION NUMBERS SHOWN ARE BASIC NUMBERS ONLY, WHEN A SPECIFICATION IS REVISED A LETTER IS AFFRED TO ITS BASIC NUMBER, SPECIFICATIONS REFERRED TO IN THESE SPECIFICATIONS ARED NOT LISTED HEROON, SHALL NOT APPLY.

(A) SEE DRAWINGS 62-8-284 AND 62-3-284 A FOR NETAL MARTS EXTAILS, SECURCATIONS AND SHOPMON SESTIMALY. GRANDSOM TO MERIPHING ASSEMBLY EQUALS \$\frac{1}{2}\], (WALTERMATIVE MATERIALS BLACK STEAK). \$\frac{1}{2}\], \$\frac{1}{2}

CUIDE INCH CAVITY SPULL BE CONCENTED WITH A TAIL BOLTS 82-3-403C MITHIN & INCH-CH INCH DIAL BROCATOR RECORDS.

GUIDE BOLT CAVITY SPULL BE CONCENTED WITH CONCEN. SURFACE FOR A DISTANCE OF Z & INCHES FROM THE TAIL END OF THE CONCENTE FOR TION OF THE BOMD WITHIN & INCH-CÉ INCH DULL MORCATOR READINGS.

(4) MICH DALL MOLECTOR READINGS.

(7) MAYER 9 PLA PROVIDED 9) DIA CAVITY'S CONCENTRIC WITH CONICAL BURFACE FOR A DISTANCE OF 25 INCHES TROM TAIL END OF THE CONCRETE PORTION OF THE BOMB.

(9) EXPOSED PORTION OF TAIL BOLTS MIST BE COMPLETELY THREADED.

SCALL, INCHES, T. . 2.

NOTICE INS BENNING SHALL NOT BE LISTE HUM REPRINDED OF FITHER WHILE TO IN FIRE LIST OFF WHILE TO IN FITH LIST MICHAEL MIN WITER STALLS BUYERMENT PROCUREMENT.

BOMB, PRACTICE, 100LB, M85. BODY ASSEMBLY, DETAILS AND MARKING DIAGRAM.

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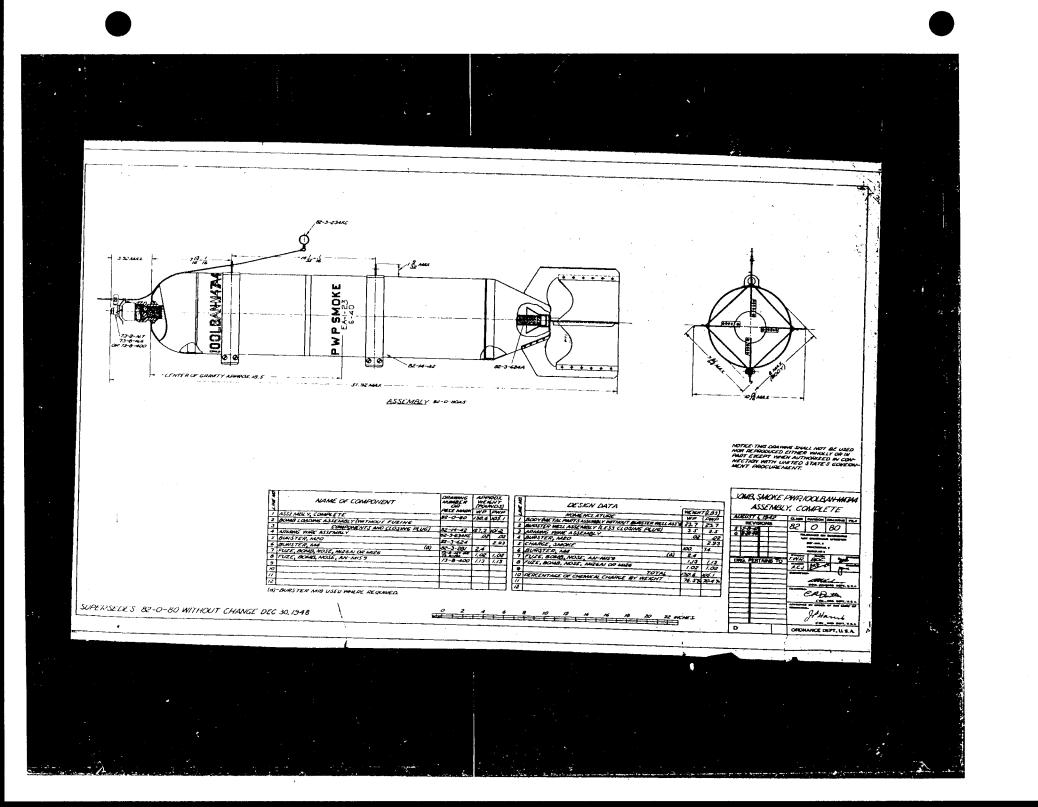
PRACTICE AND TARGET BOMBS

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TYPE	Drg. No.	DRG. NO.	and Fuzed Lb.	Type	Drg. No.	Wt.	<u>.</u>	<u> </u>	Desig- nation	Drg. No.	Desig- nation	Drg.No.	Desig- nation	Drg. No.	Desig- nation	Drg. No.	Desig- nation	Drg. No.	Body Drg. No.	Nose Drg.No.	Tail Drg.No.	Nose Drg. No.	Tail Drg. No.	Container Drg. No.	, i
Prac., 23 Lb., M71 h	82-0-91	82-3-253	21,1		None							Hone		Kone		ļ			20-4-386						1 2
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M73 J	82-0-91	82-3-253	21.		None		 			 	 			 		 			20-4-386						5
Prac., 23 Lb., M73Al J	82-0-91	82-3-253	21.	ļ	Mone	 	-			ļ		None		-	· -	 									6
Prac., 100 lb.,	#0 0 27	#0.7.017	100	MIAL	52-3-225	4.25	80	Send				None	a	82-3-228					76-16-391		76-16-214				7
Prac., 100 Lo.,			1	K1A1	 	+	_	ь				None	a	82-3-228					82-3-407		76-16-214		<u> </u>	ļ	- 6
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Target, Prac.,	82-0-97	52-3-409	101.2		52-14-45						M108	73-8-44		None		<u> </u>	ļ		<u> </u>						10
Target, Prac.,					62-14-45	72.4				ļ	K10g e	73-8-44		None			 		76-16-409	76-16-238			-	-	11
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ISSUED - September 6, 1924 REVISED _ 1 May 1947

S = Issue. M = Manufacture, Prac. = Practice.

⁽a) - Spotting Charge, N3 and N4 also may be used. Drgs. 52-7-402 and 82-3-496 respectively.
(b) . Bomb is made of reinforced concrete.
(c) - Uses Fin Assembly, M105, Drg. 82-3-406.
(d) - Uses Fin Assembly, M105, Drg. 82-3-406.
(e) - Fure uses Pressure Plate, Drg. 82-3-410.
(h) - Parachute Unit M3, Drg. 82-3-400.
(j) - Parachute Unit, M4 Drg. 82-3-400.
(m) - Uses Burster, AK-M4, Drg. 82-3-281.



CHENICAL POISS

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ES	Туре	Assembly Complete Drg. No.	Drg No.	and Fused 1b	<u> </u>	t K1nd	Drg No.	Desig- nation		Desig- nation	Drg. No.	Desig- nation	Drg. No.	Desig- nation	Drg. No.	Desig- nation	Drg. No.	Desig- nation	Drg No.	Dostig- nation	Drg Ho.	Bomb Drg No.	Assembly Drg No.	Nose Drg No.	Tail Drg No.		Primer- Detonators Drg No.
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-	100-Lb 147A5		82-3-277		100	жР	82-14-42	AH-144	82-3-261			AH-1:159 bo	73-8-400			*	82-5-279	<u> </u>	ļ	1	82-3-234KC	20-4-464	-	20-4-577		20-4-259	
u	100-Lh AN-147A4	82-0-80	82-5-277	129	100	EP 8	82-14-42	AN-M4	62-5-281			¥∺-70728 _{pc}	75-8-400			f	92-3-279	ļ	 	12.55	92-3-234KC	20-4-464		20-4-577		20-4-259	
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	500-15 AN-178		82-3-487	I	205		82-14-51	1	Į.		1	4H-1/10241	1		1		82-3-359	1 "	75-8-70	125	82-3-254HB	76-59-17	20-4-286	20-4-186	20-4-467	20-4-455	20-4-272
	500-16 AN-1078	1	82-5-487		176	ск	82-14-51	AH-M15	82-3-422	M15A1	82-3-356	AN-HOSAL	78-8-14	W-MIOIVS	73-8-181	1009A1	62-3-359	1914	75-8-70	¥5**	82-3-254HB	76-39-17	20-4-886	20-4-186	20-4-467	20-4-455	20-4-272
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¥	1000-Lb AN-M79		82-5-416		415	_	82-14-46	+	2-5-422			d	T	00 24205-14		u	1	*	73-8-70	127	82-3-2542A	76-39-18	20-4-286	20-4-186	20-4-467	20-4-455	20-4-272
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S - Issue

S - Issue

A Marmiscture

AC - Hydrocyanic acid

CC - Phosgame

CK - Cyanogen chloride

H - Lustard

D - Purificd Mustard

FMP - Plasticised White Phosphorus

ac - White Phosphorus

mp - White Phosphorus

Purster, 128, Drg. 82-3-516, also used. For packing box, see Drg. 20-4-259.
 Patomstor, 120, Drg. 75-2-187.
 Patomstor, 120, Drg. 75-2-187.
 Pize, Somb, Mose, Al-1286 or AN-126Al, Drg. 75-0-187 ray bo used. For packing box see Drg. 20-4-417.
 Drise, 1005, AN-1005, and AN-1005Al, suitable for instantaneous use only, any be used, Also, Purses 1963, 1264, 1265, AN-M139Al and AN-1140Al any be used.
 Adapter-Diooster, M115, nay be used. For packing bor see Drg. 20-4-465.
 Can, Packing, Drg. 76-7-748.

20-4-653.
f - Can, Packing, Drg 76-7-648.
g - Alternative Fin Crates;
500-Lb, Drg 20-4-528
1000-Lb, Drg 20-4-529

1000-Lb, Drg 20-4-529
h - For Puro Container see Drg 76-1-262.
c - Dute, Bonb, Pose, Ab-HillOAl, Drg 73-8-77 may be usud. For packing box see Prg. 20-4-417.
c - Puse, Bonb, Tail, Ai-MollAl, W/Prisor-Dutonator, 114, Hon-delay; Container, Drg 76-1-224.
Suss, Bonb, Tail, Ab-HillOAl, M/Prisor-Dutonator, 114, Fon-delay; Container, Drg 76-1-225.

oo - Nurcs, Ronb, Tail, Midl and AN-MODIAL, M/Primer-Detonators, Kl4,
Non-delay, may be used for SOC-Ib.
Nurse, Pomb, Tail, MidR and AN-MODIAL, M/Primer-Detonators, Mid,
Mon-delay, may be used for SOC-Ib.
Ooc - Bombs, derignated MYARC and MYARC, also on hand.
- Primer-Detonator, Mid, Mon-delay, issued with furs for this bomb.
- It is a substitute filler for MyB.
- Pombs, designated MYARC also on hand.
- If is substitute standard for MYB, or MYDAL.
- The is substitute standard for MYB, or MYDAL.
- The is welded to bomb. No Y masber is assigned to this fin.
- The pracking box see Drg 20-4-MYB.
- All bombs on hand designated MYDA.
- No both of future namufacture will been see interior conting of phenolic varnish and will be designated MYDAL.
- Finct useembly, 1009, may be used.

r - Min tasembly, 1909, may be used.
u - Sin tasembly, 1915, may be used.
t - Min tasembly, 1902 and 1902al, may be used.

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H filler. The H filler has been found to leak when loaded into this bomb and the M47A1, and is not to be loaded into the M47 or M47A1 Bombs at the present time. When loaded with H, the entire weight of the bomb is 93 pounds of which 73 pounds is H.

The bomb may be loaded with an incendiary filler of rubber and gasoline in the field. The base filling is gasoline supplemented by one of four different incendiary ingredients as follows:

- 1. LA-60. Consists of crude latex or sap in combination with caustic soda, cocoanut oil, and water.
- 2. Crepe rubber (CR). This is crude latex but is reduced to a solid by precipitation and kneading.
- 3. LA-100. This is crude latex dried until it is approximately 100 percent solid.
- 4. Smoked rubber sheets (SR). This is crude latex which has been dried over a smoky fire until it is approximately 100 percent solid.

When loaded with the incendiary filler the Fuze Bomb M108 (Nose) with a 1-pound black powder Burster Charge M7 is used. This burster charge bursts the bomb and scatters and ignites the filler. When filled, the body weighs 85 pounds of which 65 pounds is incendiary filler. This is a typical example of the scatter type of incendiary filler.

Painting. The bomb is painted as other chemical ammunition with a blue-gray base color. If loaded with H, it will have two green bands and will be stenciled in green. If loaded with WP, it will have one yellow band and will be stenciled in yellow. If loaded with incendiary filler, it will have one purple band and will be stenciled in purple. The stenciling for the incendiary bomb will indicate the type of rubber filling such as "incendiary oil, LA-60" or "incendiary oil SR."

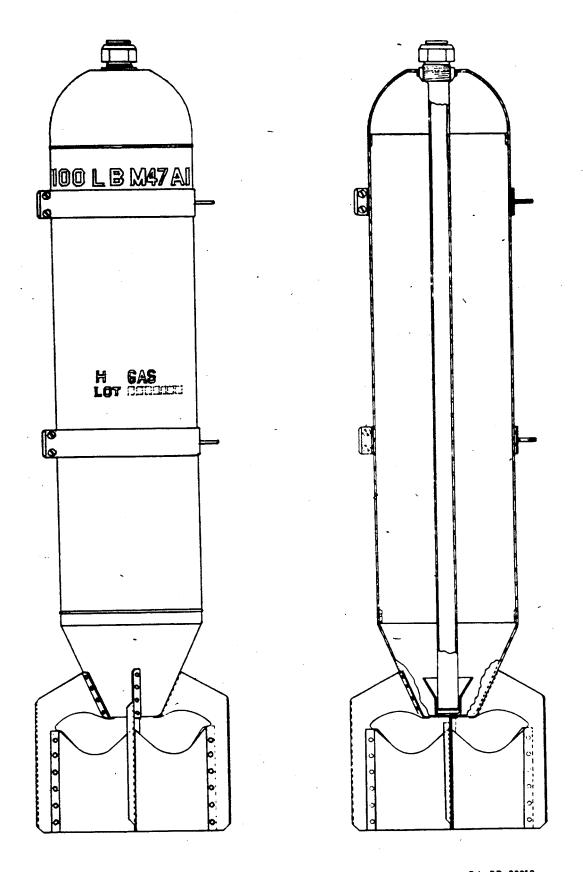
Packing. This bomb is packed in a wooden box, one per box without fuze, arming wire or burster charge. Incendiary oils are loaded in the field into the empty bombs.

BOMB, CHEMICAL, 100-POUND, M47A1.

General. This bomb was designed to replace the 100-pound M47. The 100-pound M47 was found to have too thin a wall section, and in handling and storage, it developed leaks due to corrosion and rough treatment. Consequently, the wall thickness was increased from 1/32 inch to 1/16 inch, and the case was protected by coating inside with acidproof black.

Comparison. In design, it is similar to the 100-pound M47. It is, however, approximately 9 pounds heavier and weighs, when loaded with H, 102 pounds, of which 73 pounds is H. When loaded with

BOMBS FOR AIRCRAFT



RA PD 23019

Figure 264 — Bomb, Chemical, 100-pound, M47A1 675

AMMUNITION INSPECTION GUIDE

incendiary oil, it weighs 94 pounds, of which 65 pounds is incendiary oil.

In fillers, fuze, painting and packing, it is exactly the same as the 100-pound M47. It has a special inside coat of paint which provides a resistance of 100-pound pressure. However, H was still found to leak from the bomb case as with the previous bomb and is not to be loaded in empty 100-pound M47A1 Bomb Cases. The only standard fillers are WP or incendiary oils.

An additional fuze which may be found used with this chemical bomb is Fuze Bomb M126 (Nose).

BOMB, CHEMICAL, 100-POUND, M47A2.

General. This bomb was designed to be able to receive the chemical filler mustard (H) without leaking. It was coated on the inside with a special oil which proved in theoretical tests to be resistant to filler pressure having a resistance of 400-pound pressure.

Comparison. It does not differ from the 100-pound M47A1 in any appreciable way. It has the inside wall painted, however, with the special oil to make it resistant to H. It was found, however, that this bomb was also subject to leaking, but not to such an extent as its predecessors. H is still to be loaded into this bomb as a temporary emergency filler. Other fillers are WP and incendiary oils. The fuze is the Nose Bomb Fuze M108 or Fuze Bomb M126 (Nose). When the M126 Fuze is used, the special adapter for the M108 Fuze is removed, as the M126 Fuze can screw directly in the burster well. In all other components, the bomb is exactly the same.

BOMB, CHEMICAL, 115-POUND, M70.

General. This bomb was designed to receive a chemical filler of mustard (H) without any possibility of leaking. It is a thick case bomb as compared to the bombs which preceded it.

Comparison. In shape, construction, and weight, the bomb resembles the 100-pound general purpose bomb. It is somewhat longer, however. It is cylindrical, having a rounded nose and tapered tail. The body is constructed in one piece without any welds. At the base, however, a closed base plug which has a threaded protrusion is welded to the bomb body. The threaded protrusion receives a fin lock nut which seats the fin assembly snugly on the bomb. The nose of the bomb is unthreaded but receives a long burster which is pressfit into the nose to form a gastight seal.

Welded to the bomb body are three lugs. Two lugs 14 inches apart are provided for horizontal suspension, and a third lug on the opposite side at the center of gravity is provided for single suspension.

- c. Issue. BOMB, incendiary, oil, 6-lb., AN-M69, is issued in CLUSTER, incendiary bomb, AN-M12 (100-pound) and AN-M13 (500-pound). This bomb may also be assembled in an aimable cluster.
- 98. BOMB, CHEMICAL, 100-LB., M47A2 (METAL PARTS). a. Data. BOMB, chemical, 100-lb., M47A2 (metal parts), is the designation of the bomb case before it is loaded with gas, smoke, or incendiary filler. (See pars. 99–101.) It is a round-nose, cylindrical type with fins attached. (See figs. 110–111.) The bomb is 48.92 inches maximum length and 8.125 inches diameter. The body is constructed of sheet steel and is coated on the inside with oil; unloaded, it weighs 26 pounds.
- b. Other models. BOMB, chemical, 100-lb., M47A1, differs only from the M47A2 in that the interior is coated with acidproof black paint.

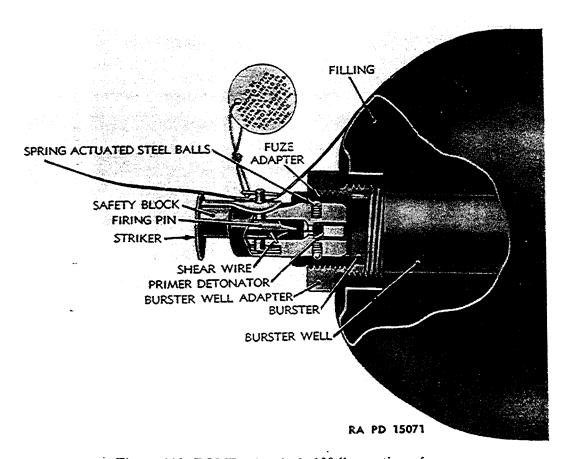
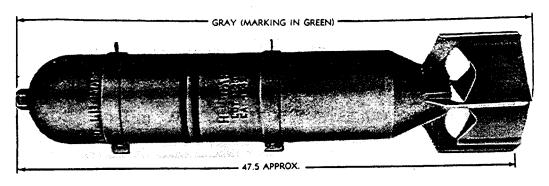


Figure 110. BOME, chemical, 100-lb., section of nose.

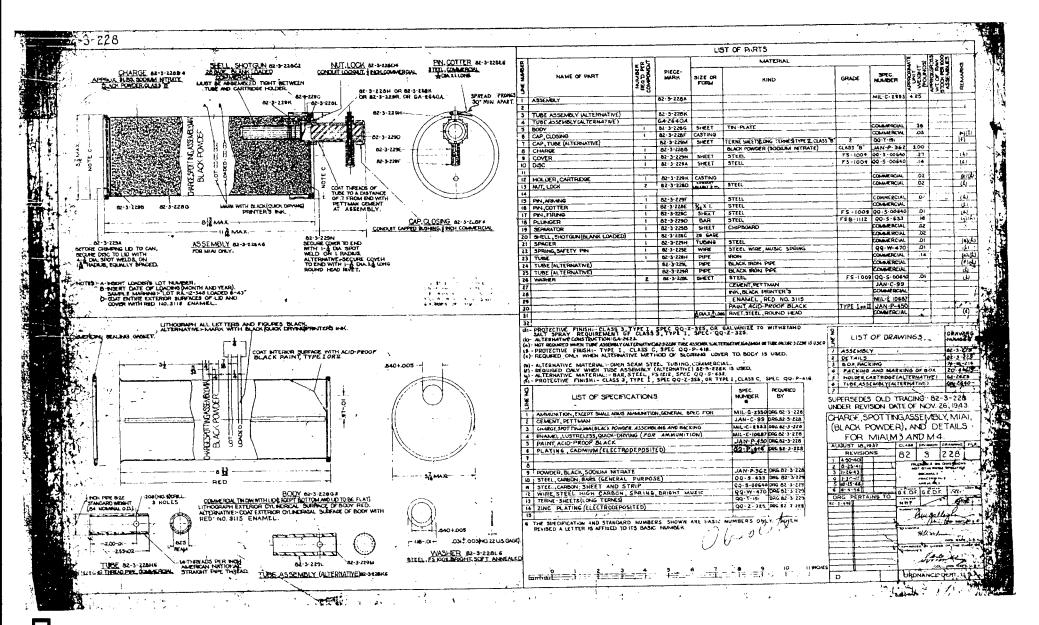
99. BOMB, GAS, PERSISTENT, H, 100-LB., M47A2. a. Data. BOMB, gas, persistent, H, 100-lb., M47A2, is loaded with a 68.5-pound charge of mustard gas. The complete round weighs 98 pounds. (See fig. 111.)



RA PD 15093

Figure 111. BOMB, gas, persistent, H, 100-lb., M47A2.

- b. Fuzes, and burster authorized. BURSTER, M4, is authorized for use in this bomb with H filling. As originally designed, this bomb is adapted for FUZE, bomb, M108 (nose). However, if FUZE, bomb, AN-M126 or AN-M126A1 is available, it is preferred to the M108 and may be used by omitting the fuze seat after assembling the burster. (See par. 95.)
- c. Other models. BOMB, gas, persistent, H, 100-lb, M47A1, differs from the M47A2 only in that the interior is coated with acidproof black paint instead of oil. The M47 is not used for H filling.
- 100. BOMB, SMOKE, PHOSPHORUS, WP, 100-LB., M47A2. a. Data. BOMB, smoke, phosphorus, WP, 100-lb., M47A2, is loaded with a 100-pound charge of phosphorus. The complete round weighs 127 pounds.
- b. Fuzes and burster authorized. BURSTER, M4, is authorized for high-altitude bombing; BURSTER, M18 is authorized for low-altitude bombing. BURSTER, M7, may be substituted for either. As originally designed, this bomb is adapted for FUZE, bomb, M108 (nose). However, if FUZE, bomb, AN-M126 or AN-M126A1 is available, it is preferred to the M108 and may be used by omitting the fuze seat after assembling the burster. (See par. 95.)
- c. Other models. BOMB, smoke, phosphorus, WP, 100-lb., M47A1, differs in that it carries a charge of 100 pounds of phosphorus and weighs 127 pounds.
- 101. BOMB, INCENDIARY, 100-LB., AN-M47A2. a. Data. BOMB, incendiary, 100-lb., AN-M47A2, is loaded with a 40-pound charge of gelled gasoline IM or NP. The complete round weighs 69 pounds.
- b. Fuzes and bursters authorized. BURSTER AN-M13 and Igniter, AN-M9 are authorized for use in this bomb with incendiary filler. As originally designed this bomb is adapted for FUZE, bomb, M108 (nose). However, if FUZE, bomb, AN-M126 or AN-M126A1,



Part 6 - Chapter 19 - Section 2

ARMY PRACTICE BOMBS

3-pound AN-Mk 5 Mod 1

See Navy practice bombs.

20-pound M48

This is a dummy of the 20-pound Fragmentation Romb AN-M41. It has a two-ounce black-powder charge and uses the Fuze M110 or AN-M110A1 in the nose. It is 21.8-inches long; weighs 19.7 pounds. It is issued in practice bomb clusters M2 and M2A1.

23-pound M71 and M71A1

These are parachute-type practice fragmentation bombs for clustering. They do not have a tuze or spotting charge, because of the presence of the parachute. The parachute assembly is the M3, modified from the M4 by removal of the suspension assembly, hand assembly, and pull wire container. M71 is 26.8 inches long; weighs 21 pounds. M71A1 differs by the addition of the shoulder to the bomb nose.

100-pound M38A2.

Over-all length, inches
Diameter, inches8.13
Weight, empty, pounds
Weight, sand-loaded and spotting charge.
pounds100

This bomb simulates a G.P. bomb of the same size. The spotting charge is assembled in a sleeve at the base of the bomb, within the fin box. Authorized spotting charges are M1A1, M3, and M4.

100-pound M75 -

· · · · · · · · · · · · · · · · · · ·	,
Length, inches	.47.0
Diameter, inches	8.0
Willow be Seaking a No. 1	6.0
Filler, hematite, pounds	72
Total weight, pounds	101.3

This bomb is designed to provide a target reference for practice bombing over snow-covered ranges. Resembling the chemical bomb of the same size, it consists of a light, sheet-metal case; a charge of red iron ore (hematite); a Burster M4; and a Fuze M108 in the nose.

100-pound M85

This model is a reinforced concrete design ordered to relieve a temporary shortage of the Practice Bomb M38A2 during the war.

Spotting Charges (Army)

" MIAI

Over-all length, inches
Diameter, inches
Weight, pounds
Black-powder charge, pounds 3.0
Bomb used in
FuzeIntegral inertia-type

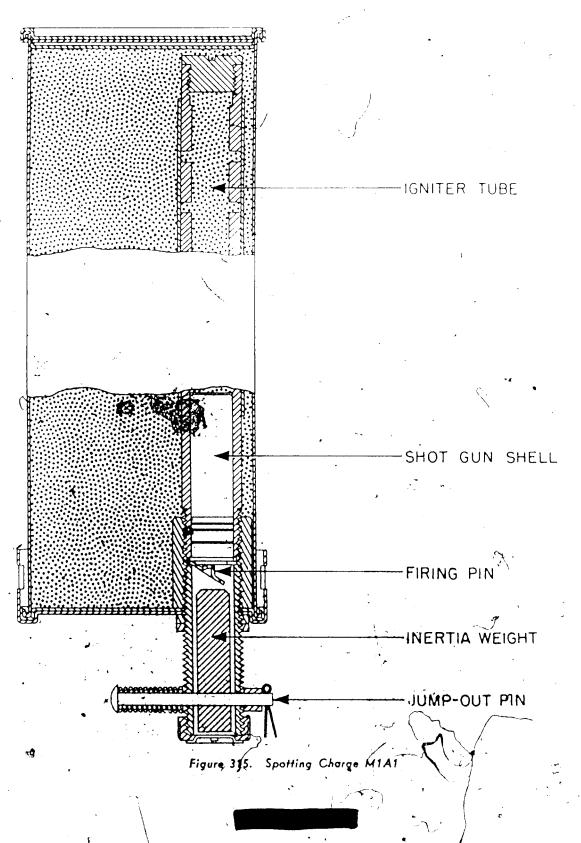
This type of spotting charge fits in the after end of the 100-pound Practice Bomb M38A2. It produces a flash of flame and white smoke for observation of bombing accuracy. When assembled in the bomb, the can of the charge protrudes two to three inches out of the bomb body.

The fuze is an integral part of the spotting charge assembly. When the arming wire is pulled, the spring-loaded arming pin jumps out, leaving the inertia weight supported only by the combination firing pin and creep spring. On impact, the inertia weight drives this firing pin into the shotgun-type primer, which, in turn, ignites the black powder.

M3: The Spotting charge M3 has a 27%-pound-dark smoke filling and a black-powder igniter. It is 5% inch longer than the Spotting Charge M1A1, but otherwise is like it. The M3, with

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443



445

BOMBS FOR AIRCRAFT

completely loaded, the cost of the complete round is approximately \$3.00. It receives the M1A1 Spotting Charge which houses both the spotting charge and firing mechanism. The Suspension Band M1 is provided for single suspension. The band is a separate component.

CHARGE, Spotting, MIA1. The M1A1 Spotting Charge is used to provide a charge and a firing mechanism. It is made from a large size tin can which has 3 pounds of black powder assembled loosely within. At the top of the can is a cover which has a hole in it for the insertion of a 28-gage blank shotgun shell and firing mechanism. The blank shotgun shell serves as a primer and igniting charge.

The firing mechanism consists of a fuze housing which has within it a striker held in position by an arming pin. Below the striker is a separate firing pin. The arming pin is always being forced outward by its spring but it is held in position by a cotter pin or arming wire located in one of the two eyelets in the small end of the arming pin. A small freely fitting sleeve is assembled over the end of the arming pin which is held in place by a cotter pin in the outer of the two holes. This sleeve makes the cotter pin more accessible and provides for proper arming wire resistance. It is important that this sleeve is always in place and that it is a loose fit on the arming pin. An inner hole through which the arming wire is threaded is exposed by a slight pressure on the head of the arming pin. The complete assembly is moistureproof and must not be disassembled under any circumstances. It is painted red with black stencil.

To assemble the spotting charge, about 80 pounds of sand is first added to the bomb. This requires filling to within ½ inch of the receiver with sand. No water is ever to be added to the sand. The receiver cover disc is then inserted and the spotting charge is placed in the receiver so that the cotter pin is alined with the two suspension lugs. The two holes in the spotting charge cap are alined with the two ears projecting from the receiver sleeve. A slight force will cause the spotting charge cap holes and receiver ears to engage. A wooden tool is used to facilitate this action. This prevents longitudinal or rotational motion of the spotting charge in the receiver. The arming wire is placed through the inner hole of the arming pin after being threaded through the rear suspension lug. The arming wire is adjusted so as to protrude 2 to 3 inches beyond the arming pin. No safety clip is to be used.

Function. The bomb is dropped and the arming wire is retained in the plane. The arming pin ejected by its spring allows the striker to move down and come to rest on the firing pin.

On impact, the force of inertia causes the striker to move down against the firing pin. The firing pin strikes the primer of the 28-gage blank shotgun shell, igniting it. The flame produced ignites the igniting charge in the blank shotgun shell which in turn ignites the black

5-33. Signal, Practice Bomb: MK7 Mod 0

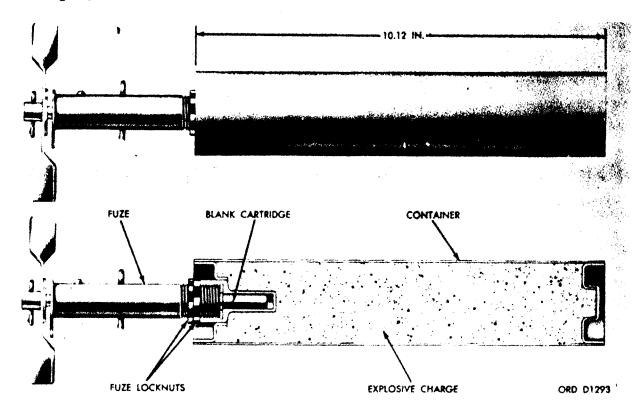


Figure 5-26. Signal, practice bomb: MK7 Mod 0 w/fuze.

Table 5-27. Signal, Practice Bomb: MK7 Mod 0

Mark	7
Mod	0
Length of Assembly (in.)	10.12
Diameter of Body (in.)	2.0
Weight of Assembled Signal (lb).	2.5
Container Material	Steel
Explosive Charge	Black Powder
Weight (lb)	

- a. Description. Practice bomb signal MK7 Mod 0 (fig. 5-26 and table 5-27) consists of a can of black powder fitted with inert fuze AN-MK247 Mod 0 and a blank .38-caliber cartridge which is used as a detonator. Signal MK7 is used with practice bombs for observation of bombing accuracy.
- b. Functioning. Upon release of the bomb from the aircraft, the arming wire is withdrawn, per-

mitting the fuze arming vane to rotate and arm the signal. Upon impact, the firing pin in the fuze overcomes a creep spring and impinges upon the primer of the blank cartridge which, in turn, ignites the black-powder charge. The resulting explosion produces a flash of light and a large puff of gray smoke.

c. Differences. The MK7 is generally the same as the MK6 except that the fuze is mounted off-center in the MK6 and its black-powder filling weighs about 1 pound more.

5-34. Spotting Charges

Spotting charges function in the same manner and for the same purpose as the signal cartridges; however, they consist of relatively larger amounts of filler.

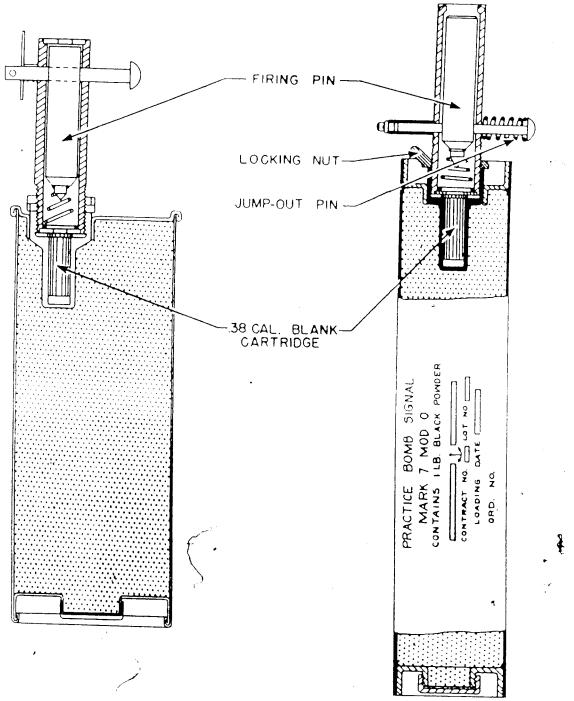


Figure 312. Practice Bomb Signals Mk 6 Mod 0 (left)
, and Mk 7 Mod 0 (right)

D-6

4-15. Fuze, Bomb: Tail, AN-MK247 Mod 0

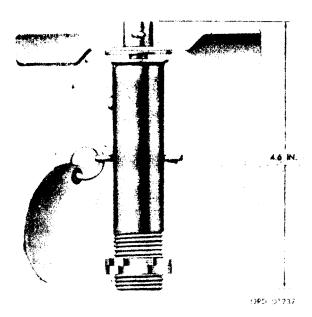


Figure 4-34. Tail fuze AN-MK247.

Table 4-9. Tail Fuze AN-MK24? Mod O

Mark	247
Mod	0
Firing Action	Impact Inertial
Firing Delay (sec)	None
Arming:	
Type	Direct
Revolutions to Arm	13
Air Travel to Arm (ft)	60 to 240 (depending upon launching conditions)
Overall Length (in.)	4.6
Protrusion from Bomb (in.)	3.85
Vane Span (in.)	4.0
Weight (oz)	10.0
Number of Vane Blades	2

- a. Description. This type of tail fuze (figs. 4-34 and 4-35, and table 4-9) is vane operated and inertia fired, and requires from 60 to 240 feet of air travel to arm, depending upon launching conditions. It acts instantaneously upon impact to detonate the signal of a practice bomb.
- b. Explosive Components. There are no internal explosive components in this type of fuze since it serves only as a trigger for firing the signal in a practice bomb. The explosive elements are external; they consist of a black-powder-filled signal and a .38-caliber blank cartridge, both of which are shipped in the same container with the fuze.

Upon impact, the fuze firing pin strikes the blank cartridge and the exploding cartridge fires the signal.

c. Safety Features. A safety (cotter) pin, with pull ring and instruction tag attached, extends through the fuze body. This safety (cotter) pin locks the arming mechanism and firing mechanism so that the fuze will not accidentally detonate the signal during fuzing. The safety (cotter) pin should not be removed until the fuze is completely installed and the arming wire attached. fuze is shipped assembled to the practice bomb signal, except for the blank cartridge which is installed at the time of fuzing. When the fuze is properly installed in the signal, and the signal is in place in the bomb, the arming wire of the bomb prevents the arming-vane assembly of the fuze from rotating and arming the fuze. The unarmed fuze cannot function.

d. Functioning.

- (1) General. When the fuzed bomb is dropped, the arming wire is withdrawn from the fuze and retained in the bomb rack. This frees the arming-vane assembly which rotates in the airstream. The arming-vane assembly arms the fuze after approximately 13 revolutions, which require from 60 to 240 feet of air travel, depending upon launching conditions. When the arming-vane assembly completes approximately 25 revolutions, it is freed into the airstream. Upon impact, the fuze firing pin is driven into the blank cartridge, igniting the signal.
- The arming-vane assembly is (2) Arming. connected to the arming screw, which is threaded into the firing plunger. As the arming-vane assembly rotates, it causes the arming screw to unscrew itself from the firing plunger. This raises the armingvane assembly outward from the fuze. The firing plunger rides vertically in the fuze body, and is prevented from rotating by a pin which passes through the fuze body into a vertical groove in the plunger. The anticreep spring supports the weight of the plunger, the arming screw, and the arming-vane assembly. The spring is only strong enough to offset this weight: any added force will cause the spring to compress and the firing plunger to ride toward the blank cartridge in the signal. Until the

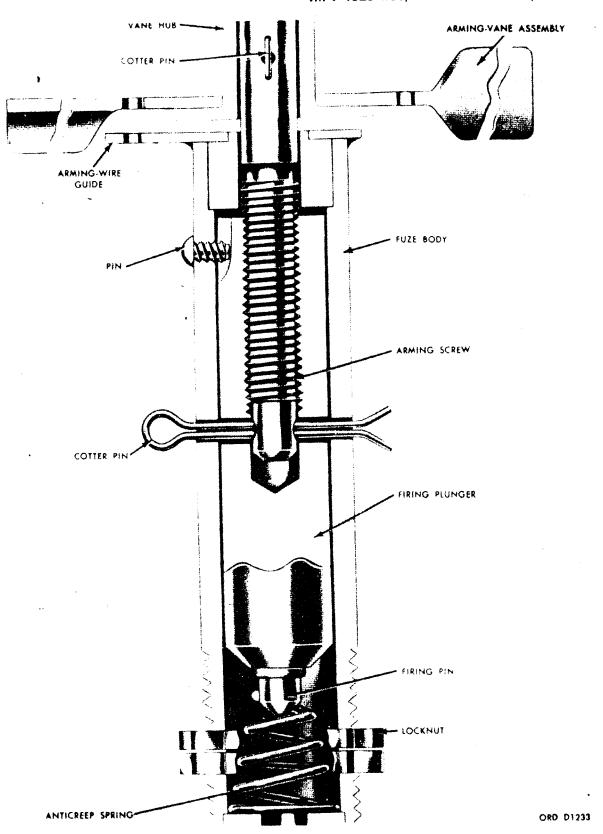


Figure 4-35. Tail fuze AN-MK247—cross section.

4-49

- arming-vane assembly has made the necessary 13 revolutions, the fuze cannot fire the signal because the arming-vane assembly has not raised sufficiently from the fuze to allow the firing plunger and pin to reach the blank cartridge. When 13 revolutions are completed, the plunger can move inward far enough to allow the firing pin to strike the blank cartridge. Continued rotation of the arming-vane assembly causes the arming screw to free itself from the firing plunger. Both the arming-vane assembly and the arming screw are released into the airstream.
- (3) Action. When the bomb strikes a target, the inertia of the firing plunger compresses the anticreep spring and drives the plunger toward the blank cartridge.

- (4) Detonation. The firing pin strikes the .38-caliber blank cartridge which ignites the signal.
- e. Safe Release. When the bomb is to be released unarmed, the aircraft arming controls are set in the SAFE position. The arming wire is then released with the bomb when the bomb is jettisoned. With the arming wire in place, the arming-vane assembly cannot rotate and arm the fuze. The unarmed fuze will not function on impact.
- f. Accidental Arming. If the arming-vane assembly and the arming screw are missing, or if the arming-vane assembly is raised from the fuze ½ inch or more, the fuze is armed.

Warning: Armed or partially armed fuzes should be handled by authorized and qualified munitions personnel only.

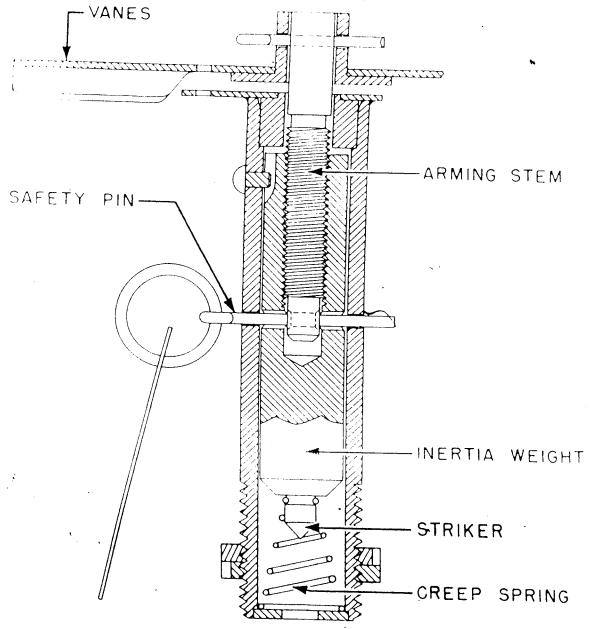


Figure 313. Fuze Mk 247 for Practice Bomb Signals
Mk 6 Mod 0 and Mk 7 Mod 0

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX E

REPORTS/STUDIES

APPENDIX E

REPORTS/STUDIES

Table of Contents

E-1 INPR for Site No. J09CA0685, 23 July 1991 (B-11)

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR FORMERLY USED SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY
VICTORVILLE PRECISION BOMBING RANGE NO. 19
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NO. J09CA068500

FINDINGS OF FACT

- 1. In May 1943, 320 acres were transferred from the U.S. Department of the Interior to the War Department through Public Land Order (PLO) 125. Another 320 acres were obtained by fee acquisition from Southern Pacific Land Company for a total of 640 acres.
- 2. Victorville PBR No. 19 was used by the Army Air Forces based at Victorville Airfield as a practice bombing area. There were no buildings on the site. The Department of Defense (DOD) improvements on the site consisted of frame butts and appurtenances, fences and gates, and a bombing target. The bombing target, located in the center of the site, was composed of asphalt strips approximately 5 feet wide configured as three concentric circles with approximate radii of 100, 200, and 300 feet. In addition, there were two strips of asphalt which transected the concentric circles at right angles to each other.
- 3. On 10 May 1948, accountability for Victorville PBR No. 19 was assumed by the War Assets Administration. On 12 May 1949, jurisdiction over and administration of 320 acres of Victorville PBR No. 19 was transferred to the U.S. Department of the Interior through PLO 581. The site was declared dedduded and certified to be free and clear of all explosives and explosive objects reasonably possible to detect by visual inspection on 22 March 1948. Currently, 320 acres of the site are controlled by the U.S. Department of the Interior, Bureau of Land Management, and the other 320 acres are owned by private land owners.

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to have been formerly used by the DOD. It is therefore eligible for the Defense Environmental Restoration Program For Formerly Used Defense Sites established under 10 U.S.C. 2701 et seq.

23 July 91
Date

ROGER F. YANKOUPE
Brigadier General, U.S. Army
Commanding

SITE SURVEY SUMMARY FOR DERP PROJECT NO. J09CA068500

SITE NAME: Victorville Precision Bombing Range (PBR) No. 19

LOCATION: The former Victorville PBR No. 19 is located approximately 7 miles north of Joshua Tree, California.

SITE HISTORY: In May 1943, 320 acres were transferred from the U.S. Department of the Interior to the War Department through Public Land Order (PLO) 125. Another 320 acres were obtained by fee acquisition from Southern Pacific Land Company for total of 640 acres. The site was used by the Army Air Forces based at Victorville Airfield as a practice bombing area. In May 1948, accountability for Victorville PBR No. 19 was transferred to the War Assets Administration. In May 1949, 320 acres of Victorville PBR No. 19 were transferred back to the U.S. Department of the Interior through PLO 581. Currently, 320 acres of the site are controlled by the U.S. Department of the Interior, Bureau of Land Management and the other 320 acres are owned by private land owners. The site is undeveloped desert land. The only DOD improvements still on the site are the weathered remains of the asphalt bombing target. There is no visible evidence of unsafe debris, hazardous or toxic waste, or unexploded ordnance resulting from DOD use of the site. However, there are the fragments, approximately 2-7 inches in diameter, from exploded ordnance dropped on the bombing target scattered throughout the site. The fragments are spaced approximately 15-20 feet apart within the 300 foot bombing target and 75-100 feet throughout the remainder of the site. San Bernardino County Environmental Health and Fire Departments, the California Regional Water Quality Control Board No. 7, and the George Air Force Base EOD Office records do not indicate any hazards associated with the site.

SITE VISIT: Dennis Parker and Paul Robinson, The Earth Technology Corporation visited the site on 21 November, 1988.

CATEGORY OF HAZARD: During the site visit, no visible evidence of hazardous or toxic waste, unexploded ordnance, or unsafe building debris was observed at the site. However, there are fragments of exploded ordnance dropped on the bombing target.

PROJECT DESCRIPTION: None

AVAILABLE STUDIES AND REPORTS: A real estate file is maintained by the Real Estate Division, Los Angeles District, Army Corps of Engineers. The real estate file contains partial acquisition and disposal records for the site. The real estate file also contains a document declaring the bombing target to be free and clear of explosives and explosive objects reasonably possible to detect by visual inspection.

POC/DISTRICT: Debra Castens, (213) 894-2865, Los Angeles District, Corps of Engineers.

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PROJECT SUMMARY SHEET

FOR

DERP-FUDS OE PROJECT NO. J09CA068500 VICTORVILLE PRECISION BOMB RANGE NO. 19 SAN BERNARDINO COUNTY, CALIFORNIA SITE NO. J09CA068500

PROJECT DESCRIPTION: The Victorville Precision Bombing Range (PBR) No. 19 was used by the U.S. Army Air Corps as a practice bombing target for aircraft from the Victorville Army Air Field (now George AFB).

PROJECT ELIGIBILITY: The property has formerly been used by the U.S. Army Air Corps. No military improvements are known to have occurred. The site is nearly flat with about 24 feet of relief and is covered with light brush, and grass. The site is remote, undeveloped desert, covered with brush and visited by off-road vehicles.

POLICY CONSIDERATIONS: N/A

PROPOSED PROJECT: Recommend the Corp's Mandatory Center of Expertise (MCX) for OEW at the Huntsville Division make a determination if further action is appropriate.

RAC: Attached

DISTRICT POC: Request CEHNC inform Ms. Debra Castens at (213) 894-2865 when a determination is made regarding project status.

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

Table of Contents

- F-1 Memorandum, Headquarters ACAFS to WCACTC, 13 February 1942 (B-12)
- F-2 Historical Record of Victorville Army Air Field, Victorville, California from 8 December 1941 to 1 January 1943, January 1943 (B-13)
- F-3 Memorandum, United states Engineer Office to VAAF, 30 April 1942 (B-14)
- F-4 Range data, circa July 1943 (B-15)
- F-5 Historical Record of Victorville Army Air Field, Victorville, California from 1 January 1943 to 1 March 1944, March 1944 (B-16)
- F-6 Historical Record of Victorville Army Air Field, Victorville, California from 1 November to 31 December 1944, January 1945 (B-17)
- F-7 Army Air Forces Installations Directory, 1 September 1945 (B-18)
- F-8 Memorandum, Army Air Forces Western Flying Command to AAF Training Command, 6 October 1946 (B-19)
- F-9 Memorandum, San Bernardino Air Technical Service Comand to Air Technical Service Command, 7 December 1945 (B-20)
- F-10 Memorandum, Headquarters, Army Air Forces to Chief of Engineers, 20 March 1946 (B-21)
- F-11 Memorandum, Headquarters of the Army Air Forces to Division Engineer, South Pacific Division, 15 April 1946 (B-22)
- F-12 Memorandum, Headquarters, Army Air Forces to San Bernardino Army Air Field, 10 October 1946 (B-23)
- F-13 Memorandum, South Pacific Division Corps of Engineers to Chief of Engineers, 31 January 1947 (B-24)
- F-14 Memorandum, Real Estate Division, South Pacific Division, Corps of Engineers to Division Engineer, South Pacific Division, 18 February 1947 (B-25)

- F-15 Memorandum, 9800 TSU Detachment No. 14 to South Pacific Division, Corps of Engineers, 4 February 1948 (B-26)
- F-16 Certificate of Clearance, 22 March 1948 (B-27)
- F-17 Memorandum, unknown author, 28 April 1948 (B-28)
- F-18 Letter, Office of Real Property Disposal to BLM, 19 May 1948 (B-29)
- F-19 Memorandum, Office of Real Property Disposal to Property Management Division, 21 May 1948 (B-30)
- F-20 Brief History of George Air Force Base 1941-1950, USAF Historical Division, April 1956 (B-31)
- F-21 Letter, California Archaeological Inventory to SIOAC-ESL, 11 November 1997 (B-32)
- F-22 Letter, U.S. Fish and Wildlife Service to SIOAC-ESL, 19 December 1997 (B-33)
- F-23 List of endangered/threatened species for San Bernardino County, undated (B-34)

HEADQUARTERS AIR CORPS ADVANCED FLYING SCHOOL Victorville, California GFH: KSW:gr

February 13, 1942

SUBJECT: Information Pertaining to Bombing Ranges, ACAFS, Army Air Base, Victorville, California.

TO: Commanding General, WCACTC, Moffett Field, California.

- 1. Reference WC684, letter dated February 9, 1942, subject, Request for Information Pertaining to Bombing and Gunnery Ranges, West Coast Air Corps Training Center, and letter, Office Chief of the Air Corps, dated January 31, 1942, same subject, paragraph 1, a, of the latter, there are no bombing ranges in operation at this station.
- 2. Reference paragraph 1, b, no bombing target sites have been acquired.
- 3. Reference paragraph 1, c, all bombing target sites are in the process of being acquired. A plat of each site is inclosed.
 - a. The range will be known as the Victorville Bombing Range.
 - b. Its location and approximate size are shown on the accompanying map. It is situated east of Victorville, California, and is comprised of a strip approximately twenty (20) miles wide and sixty-five (65) miles long.
 - c. The targets will be used for training aerial Bombardiers using one hundred pound (100 lb.), sand loaded, practice bombs.
 - d. There are no existing facilities.
 - e. Sites are being acquired for eighteen (18) targets to be located as shown on the plats. Plat number sixteen (16) will not be used. The targets will be of the type used for solid ground with wooden pyramids for centers. It is believed that both the photographic and triangulation methods of spotting will be used.
 - f. Approximately ten (10) of the targets will be lighted for night bombing.
 - g. The range will be used by the ACAFS, Victorville, California.



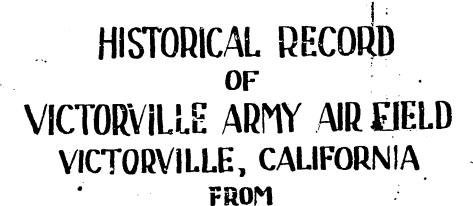
- 4. Reference paragraph 1, d, the flying field at the Victorville

 ✓ Military Airport will be used as a base formall bombing operations on the range. Its location is shown on the accompanying map.)
 - 5. No additional Ordnance storage facilities will be required for range operation.

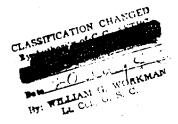
/s/ Donald B. Phillips
DONALD B. PHILLIPS
Lieut. Col., Air Corps
Commanding

3 Incls.
19-Plats
1-Map
1-List of target sites

Cory



8 DECEMBER 1941 TO 1 JANUARY 1943



DECLASSIFIED

Contract No. W-509-Eng-2051, Auxiliary Fields No. 3 & 4.18

- 1. Contractor Basich Brothers, Torrance, California.
- 2. Construction of 8 runways, four to each field, drainage facilities, fencing and access roads. Aux. #3 located approximate by 11 miles.

 East VAAFF Aux. #4 located approximately 15 miles East VAAF.
- 5. Date of commencement 7 Feb 1942
 Date of completion 14 Jul 1942
 Date of acceptance 15 Aug 1942
- 4. Total extensions of 112 days due to unsuitable weather and non-delivery of essential materials.
- 5. Total cost \$385,040.00.

Contract No. W-509-Eng-2196, Bembing Targets (18). 19

- 1. Contractor George Herz Co., San Bernardino, California.
- 2. Targets within radius of 5 to 75 miles from VAAR. Eighteen targets constructed--cleared and grubbed approximately 26.4 acres at each site. Shacks (pyramidal). 242 miles of access road to connect various targets to existing roads. Fencing.
- 5. Date of commoncement 11 Mar 1942 Date of completion - 1 May 1942 Date of acceptance - 1 May 1942
- 4. Total Cost \$73,171.21.
- 16. Completion Report, Contract No. W-509-Eng-2051. (Contract No. 2051 VAAF Post Engineer Files).
- 19. Completion Report, Contract We. W-609-Eng-2196. (Contract No. 2196, VAAF Post Engineer Files)

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inofikası Alek

Some trouble had been experienced in having bombing targets sufficiently completed for the first class of bombardiers, even though WCACTC Headquarters had initiated action for their acquisition in December of 1941. Quoted herewith is a portion of the request:

"5. Eighteen bombing range sites should be selected for immediate use. Six additional sites should be selected for subsequent acquisition, to bring the total number to twenty-four (24) for each station. Bombing range sites will be located on Federal lands wherever possible in order to expedite acquisition. Eighteen bombing range sites for immediate use need only be selected at Albuquerque, Roswell, Higher and Victorville ... 20

Information contained in a latter report of the Commanding Officer to Headquarters, WCACTC on 13 February 1942 indicated that acquisition and construction was still being delayed on the targets:

- "1. ... there are no combing ranges in operation at this station
- "2. ... no bombing target sites have been acquired.
- "3. ... all bombing target sites are in the process of beings: acquired
 - "a. The range will be known as the Victorville Pomping
- 20. Ltr, Hq, WCACTC, Moffett Field, Calif., 14 Dec 1941, (WC 600 Aux Fld) subject: Auxiliary Landing Fields and Bombing Range Sites. To: U.S. District Engineers, Cacramento, Los Angeles, and Caddoa. (copy, w/incl) (586 Aviation Fields, etc. TAAF Hq Files)

Range.

"b. Its location and approximate size are shown on the accompanying map. It is situated east of Victorville, California, and is comprised of a strip approximately twenty (20) miles wide and sixty-five (65) miles long."21

Contract No. W-509-Eng-2233, Railroad Spur. 22

- 1. Contractor Owls Truck & Materials Co., Compton, California.
- 2. 6.55 miles of track and all appurtenances.
- Date of commencement 7 April 1942
 Date of completion 25 March 1943
 Date of acceptance Not yet accepted.
- 4. Delays totalling 293 days granted due to delays in procuring government allocated materials.
- 5. Original contract \$157 \$93.00.

Action to provide Victorville with a needed spur railroad line was begun on 21 May 1941, by the U.S. Engineer Office at Los Angeles. Several surveys were made as to the amount of freight which would be hauled and the costs of construction against the cost of pipe lines and loading signings before the project was finally disapproved by 10th Indorsement on the 24th of October 25

- 21 Ltr, Elq ACAFS, Victorville, Calif., 13 Feb 1942, Endject: InTernation Pertaining to Bombing Ranges; ACAFS, Army Air Base, Victorville, California To: CG, WCACTC, Moffett Field, Calif. (copy), (664 Target Ranges VAAF
- Completion Report, Contract No. W-509-Eng-2233. (Contract No. 2233 VAAF Post Engineer Files)
 - 23 Ltr, U.S. Engineer Office, Los Angeles, Califr, 21 way 1941, subjects: Preliminary Plot Plan, Victorville Site. TO: CG, WCACTC, Moffett Fiere Calif. (11 Inds.) (686 Aviation Fields, VAAF Mg Files)

- 13 -

Certibel miki

Bombing Progress of Students

Griginally the filot officers, who were in command of training squadrons, gave the flight instructors the responsibility for supervising the bymbardier instructors in their work with bombardier students, although after the appointment of a Chief Hombardier Instructor, he assumed this supervising function. Each instructor taught his students during the three weeks on the trainer and continued with them through the sole mass on to graduation. The classes were so scheduled that each instructor would have four or more students of one class on the Trainer and four or more students of a more advanced class in flight training. When students gave evidence of failing to make satisfactory progress they were given check rides by the Flight Instructors. Upon failure to pass these check rides, they were recommended to meet the Faculty Foard after elimination. 143

The rembine training for Class 42-7 was conducted in accordance with TH 1-250. 144 Fach student was to be given ten practice and 200 regard bombs. The average number of record bombs dropped nor student during the course was only 106. This was due to shortages in equi cent and personnel of these bombs. Were dropped at altitudes of 1,000, 4,000, 14,000 and 15,000 feet. The average dropped at altitudes of 1,000, 4,000, 14,000 and 15,000 feet. The average dropped at altitudes of 1,000, 4,000, 14,000 and 15,000 feet.

to bombs were scored by photographs. Arbitimary, conversion factors were

143. Reminiscence, Frot. L. C. Frendt, Assissant in Inspector, Tetroville, California, 5 November 1963.

3144. Thur Depurtment Technical Manual, Precision Combine Practice, 7 Mar 1981

the state of the state of

used because of the extreme turbulence during the flying phase of training and limited instruction received by this class. Students were graduated in-this class whose direular errors were above the maximum allowed (275 feet) , but were, otherwise considered good bombardiers. $\frac{145}{2}$

. re: A comparison of the bombing progress of classes graduating during 1942 is presented in Table IX. It will be noted that it was not until Class 42-10 that the average number of releases approached anything like the number of interpretation releases. From 42-10 on through 42-17, each class averaged the prescribed number of record releases. The circular errors reported in column . 6 for Glasses 13-7 and 42-8 cannot be compared frirly with later classes, since written conversion factors were used to compensate for turbulence and Sther irregular conditions which occurred in the traiming of three two classes. Line of the Control o this compensation a larger proportion of these two classes was true in later classes.

None of the house released by 42-7 was course plotrigraphically . Commune รายาร์ เพื่อ เมื่อ tracso Areanell ty 42-8 were รายาร์ส ยังน้ำ กับชาตาลุของ

2 1454 Litzer, Isistatical Contion, Copertment of Comispilar Crela

12 Howest 1342, subject: Diese Lummary, WC 42-7. Tolleir Dorog Hourst, 11 in 1976. Feliping Court, 11 in 1976. Feliping Section. Department of Fomular Lumber Section, Department of Fomular Lumber Section, Department of Fomular Lumber Section, 16 very 1942, subject: Class Summary WC 42-7. To: Lir Forest Fears, William Field. Valuariso, Fla. 7 - 146. Letter, Wintistical Section, Department of paid at a 1942, chillet: Report of Combing, Class WO 42-2, galin Field, Valparaiso, Pla. Tetter: tatistical Section, Department of Manbard graining, 12 3 1962, tour Bot: Class Commany SC 42-7. To: Ast Force Tours, Tours, Tours

Piela, Mulperaiso, Pla. Library, Chatistical Syntion, Popartment of Combardier Training, M. 200 (1967), Subjects Pepoint of Sombias Classes 42-6. Tolkir Force Source.

This proportion increased with each class up to 42-16, in which 28 percent of the releases were photographed. This low proportion of photographic records was caused by chortage of suitable camerus and lack of might light-ing equipment.

The proportion of bomb releases with turbulence rough varied from aleas to class. The highest-reported proportion, 36 percent, occurred during the training of classes 42-7 and 42-12. The lowest reported proportion, 13 percent, occurred during the bombing training of 42-15. The average proportion of releases reported with turbulence rough for all classes graduated during 1942 was 25 percent.

Table X, is not complete since such comparative data are not available for,
the first four classes (42-7 through 42-10). It will be noted in Table X

that personnel, mechanical failure of airplanes and weather were causes of
the largest proportion, 66.3 personnel failures to release the separative
member of homes. Note personnel failures were caused by absolute of mileter
because of illness, other duties (officer of the Mar: Officer of the Chird;
and Aircrone Miscer) and reporting late for duty of "Other Seasons" as are particular.

In column 6, Table X, included such causes as lack of time, lack of largests.

149 - Better, Statistical Section, Copartment of Comparter Transis, 23 Jour 1947; subject: Report of Dombing Class WC 42-22 Dec AME Flying Training Command, Bombardier Section, Texasor Pacific Shore, Want Ropey, Texasor Pacific Shore, Want Ropey, Texasor Pacific Shore, Want Ropey, Texasor Penerts of Rombing Classes WC 42-7 to 42-17, Statistical Section, Department of Pombardier Training, WAFS, Mictographe, California, Compartment of Pombardier Training, WAFS, Mictographe, California, Calif

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CONFIDENT A

Address Reply To
"The District Engineer,
U. S. Engineer Office,
751 South Figueroa Street,
Los Angeles, Calif."

WAR DEPARTMENT

UNITED STATES ENGINEER OFFICE 751 SOUTH FIGUEROA STREET LOS ANGELES, CALIF.

0-3

April 30, 1942.

SUBJECT:

Victorville Army Flying School, Victorville, California - Contract W-509-Eng.-2196 - Bombing Targets - Hotice of Completion and Helsase.

TO

The Commanding Officer, Victorville Army Flying School, Victorville, California.

- 2. Confirming letter, dated April 15, 1942, from the Area Engineer, you are informed that Bombing Targets Humbered 15, 17, 18 and 19, under the above-numbered contract, have been completed and are hereby released to you for use and maintenance.
- 2. It is requested, that formal acceptance of the abovementioned Bombing Targets be submitted to this office in writing.

Edwin G. Kelton, Colonel, Corps of Engineers, Bistrict Engineer.

0-5

1st Ind.

Headquarters, Victorville Army Flying School, Victorville, California, 13 May 1942. To: The District Engineer, U. S. Engineer Office, 751 South Figueroa Street, Los Angeles, California.

Hereby accepting Bombing Targets 15, 17, 18 and 19, for this Station.

For the Commanding Officer:

aRR

THOMAS J. GENT, JR. Lt. Col., Air Corps Executive

انددن	350	n.,	$T\Lambda$
		iJ.	

1. Name of field: Yictorville	Army Air Field	
2. Type of training from this f	.eld: Bombardie	Training (student)
3. Types of planes using ranges:		
a. Precision Bombing Ranges	AT-11's	
. Air-to-Ground Ranges	none	
c. Air-to-Air Ranges	none	
4. langes available to this fiel	d:	
Latitude (: Longitude	Approx. from Area Field	Hours of Use
a. Precision Bombing:		
1. See attached list.		
<u>2</u> .		
<u>3</u> .		
<u>4.</u>		
b. Alr-to-Ground:		
$\frac{1}{2}$. None		
<u>2</u> .		
. <u>3</u> .		
4.		
c. Air-to-Air:		
$\frac{1}{2}$. None		
2.	•	
3.		
<u>4</u> .		
5. Can any of these ranges be share indicate on separate sheet which on	ed by another cor	mand? No If so,
or at some definite time in the futi	If so indianto	whether im ediately
7.PRO UCDD AAT CTC 22.Jul 1943	•	

relieur printing

Authority WD7 30 CEL

By K.C. NARA Data 7/8/47

, a. Precision Bombing: Latitude & Longitude	Approx. Area	Miles from Field	Average Dai Hours of Us Daylight	ly se <u>Dark</u>
34° 32' N 117° 10' W	l mile square	13	10	8
34° 34' N 117° 05' W	1 mile square	16	10	g
340 581 M	l mile square	14	10	· g
34° 39' N	l mile square	22	10	g
34° 30' N 116° 58' W	l mile square	23	10	8
34° 33' N 116° 52' W	l mile square	28	10	g
34° 25' N 116° 52' W	l mile square	30	10	g
34° 33 1/2' N 116° 45' W	l mile square	35	10	g
34° 27' N 116° 43' W	l mile square	37	10	8
3116. 381 M	l mile square	42	10	8
34° 27 1/2' N	l mile square	46	10	8
340 23' N 1160 36' W	l mile square	49	10	g
340 34 1/2' N	1 mile square	50	10	8
3160 301 M	l mile square	54	10	8
34° 27 1/2' N 116° 30' W	l mile square	53	10	8
34° 24' N 116° 22' W	l mile square	63	10	

Latitude & Longitude	Approx.	Miles from Field	Average Daily Hours of Use Daylight	Dark
34° 20' N	1 mile square	69 .	10	
340 161 M	l mile square	71	10	
34° 18' N 116° 25' W	l mile square	65	10	
34° 59' N 117° 13' V	l mile square	28	10	g
34° 59' N 117° 05' W	l mile square	34	10	8
35° 04' N 117° 09' W	l mile square	. 36	10	8.
34° 35' N 116° 27' W	6 miles square	52	10	8
34° 25' N 116° 30' W	3 1/2 mi. sq.	54	10	g
34° 27' N 116° 35' W	3 miles square	46	10	. 8
34° 27' N 116° 43' W	3 miles square	38	10	g

Practice bombing targets - 22 Demolition bombing targets - 4 HISTORICAL RECORD

OF

VICTORVILLE ARMY AIR FIELD
VICTORVILLE, CALIFORNIA

FROM

1 January 1943 to 1 March 1944



DECLASSIFIED EO 11652

<u>C O N F I D E N T I A L</u>

Electric Light Plants; one (1) General Electric Light Plant; one (1) Radio Control Truck; two (2) Tow Target Trucks; and four (4) Moving Targets, although all of the night lighting equipment had not been installed. $\frac{23}{}$

During the year a number of targets were equipped with lights for night bombing. Series A, consisting of five (5) targets was equipped with Kohler Light Plants and made ready for night bombing the early part of February. Series B, consisting of three (3) targets was equipped during the latter part of February, and Series C, consisting of three (3) targets was equipped with lights during the early part of March. Series D, a four (4) target day series, was constructed with combat type targets and put into operation 10 March 1943. Series N, a three (3) target series, was constructed with record and combat type day and night targets. A part of these targets were available for use in July and the remainder were not available for use until September. 24 (See Appendices VIII, 21, 22, 23, 24, 25, 26, & 27).

One of the big problems encountered in maintaining the targets has been the distance which must be traveled in getting around each series. The round trip distance to Series A is one hundred twenty-five (125) miles; Series B, one hundred forty (140) miles; and Series C, one hundred fifty-three (153) miles. Much of the maintenance crew's time each day must be spent in travel. 25

Reminiscence, Capt. Bernard L. Magnusson, Range Officer, VAAF, 28 Jan 1944. 23.

Reminiscence, Sgt. O. H. Carrier, Bombardier Range Dept., VAAF, 28 Jan 1944. Reminiscence, Sgt. O. H. Carrier, Bombardier Range Dept., VAAF, 28 Jan 1944. 25.

CONFIDENTIAL

VICTORVILLE ARMY AIR FIELD

AIRCRAFT ASSIGNED DURING 1943

Date	Ð	AT-6A	<u>AT-11</u>	CG-4A	L-3C	<u>L-4A</u>	BT-15	<u>L-1C</u>	RA-25A	28
31 Jan	1943		94	39						
OI OWI	1040		0.4							29
28 Feb	1943		93	5 5	1	11				30
31 Mar	1943		88	52			2			31
30 Apr	1943		86				3			
							3		•	32
31 May	1943		76				3			33
30 Jun	1943		75	•			7			34
31 Jul	1943		79				7	1		35
31 Aug	1943		77				7	1		-
							7	1		36
30 Sep	1943		94				'	•		37
31 Oct	: 1943	1	102		,		. 8	1		38
30 Nov	r 1943		107		,		8	1		
							8	1		<u>39</u>
31 Dec	1943		100				0			40
31 Jar	1944		111				8	1	1	

^{28.} Analysis of Flying Hours of Assigned Airplanes for the month ending 31 Jan 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

^{29.} Analysis of Flying Hours of Assigned Airplanes for the month ending 28 Feb 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

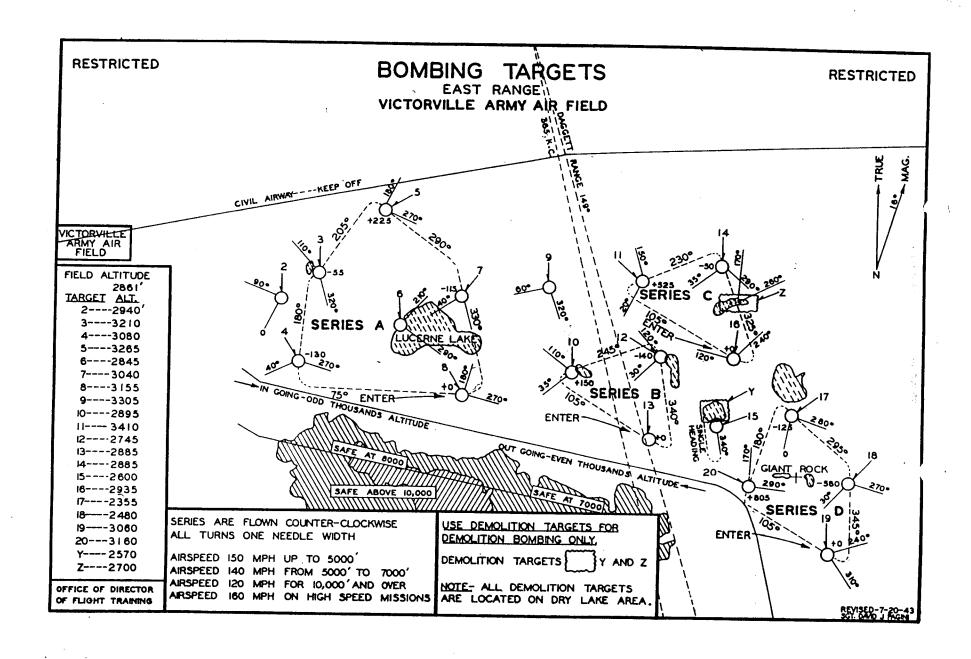
^{30.} Analysis of Flying Hours of Assigned Airplanes for the month ending 31 Mar 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

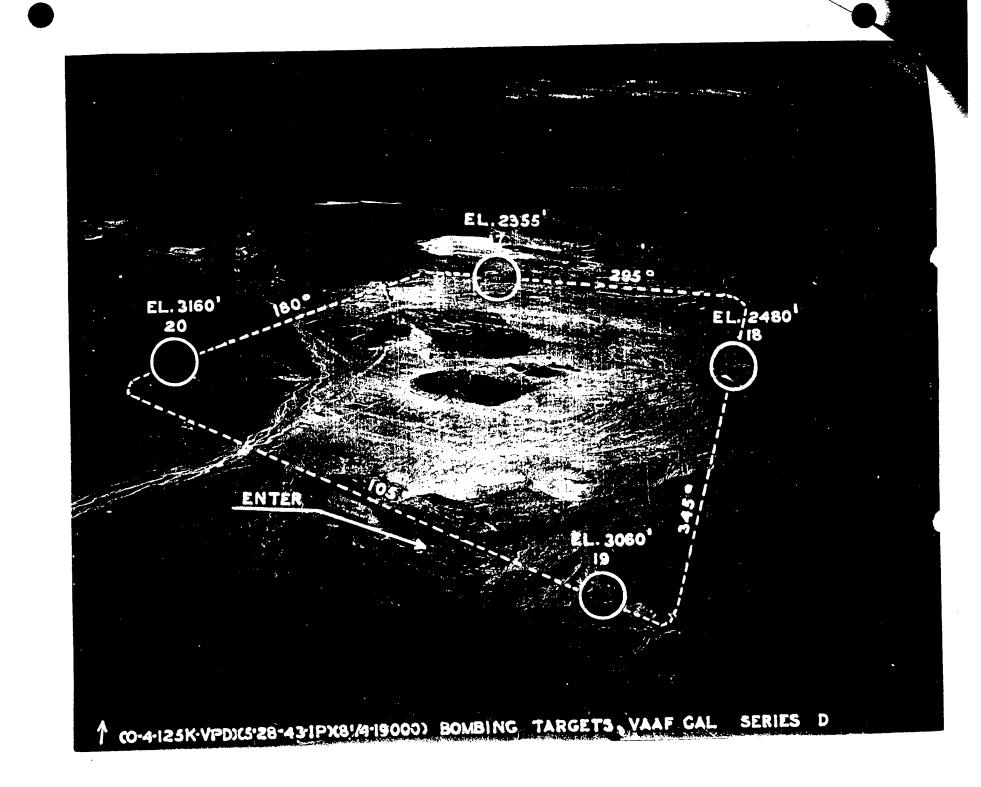
^{31.} Analysis of Flying Hours of Assigned Airplanes for the month ending 30 Apr 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

^{32.} Analysis of Flying Hours of Assigned Airplanes for the month ending 31 May 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

^{33.} Report of Flying Hours of all Assigned Airplanes for the month ending 30 Jun 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).

^{34.} Report of Flying Hours of all Assigned Airplanes for the month ending 31 Jul 1943, Victorville, Calif., (452.1 Airplanes - VAAF Hq Files).





HISTORY

OF

VICTORVILLE ARMY AIR FIELD
VICTORVILLE, CALIFORNIA

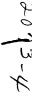
FROM

1 NOVEMBER to 31 DECEMBER 1944

P.R.G.

10179308

DECLASSIFIED EQ 11652



SECRET

Air Corps Supply

- 1. Received 892,000 pounds of supplies.
- 2. Shipped 557,531 pounds of supplies.
- 3. Received and issued 1,890,123 gallons of gasoline.
- 4. Received and issued 24,174 gallons of oil.
- 5. Maintained approximately 15,000 stock record cards.
- 6. Processed 472 debit memorandum receipts.
- 7. Processed 405 credit memorandum receipts.
- 8. Initiated 40 purchase requests.
- 9. Submitted 1162 requisitions.
- 10. Processed 4,925 wouchers to the S/R account.
- 11. Average number of airplanes grounded daily for parts November, 11; December, 16.

General Supply

- 1. Received 122,733 pounds of freight.
- 2. Shipped 20,048 pounds of freight.
- 3. Processed 929 Property Issue Slips.
- 4. Processed 136 property turn-in slips.
- 5. Issued 227 debit Memorandum Receipts.
- 6. Issued 188 credit Memorandum Receipts.
- 7. Submitted 96 requisitions for supplies.
- 8. Initiated 26 Purchase Requests, amounting to \$18,888.08. 54

Ordnance Supply

- 1. Bombs practice 100 #M38a2: Received 18,000.
- 2. Boms chemical 100 #M47a2; Recéived 10,000.
- 3. Bombs concrete 100 #M85; Received 18,879. 55
- 4. Duds reported: .02% .

5. Expended 1500 Bombs practice 100 #M38A2.

6. Expended 8500 Bombs chemical 100 #M47A2. 57

7. Small Arms Ammunitions:	Received 58	Expended ⁵⁹
Cartridge, ball, cal.22 LR	0 ,	13,500
Cartridge ball, cal.45 M1911	3,500	29,710
Cartridge, ball, cal. 30 Ml	2,581	4,800

56

- 53. Stock Records, Vouchers, Requisitions and Purchase Request Files, Air Corps Supply, VAAF, Victorville, Calif., 1 Nov thru 31 Dec 1944.
- 54. Vouchers to General Supply Stock Record Account, Requisition File, and Purchase Request File, VAAF, Victorville, Calif., 1 Nov to 31 Dec 1944.
- 55. Ordnance Debit Voucher File, VAAF, Victorville, Calif., 1 Nov to 31 Dec 1944.
- 56. Squadron Operations Forms, VAAF, Victorville, Calif., 1 Nov to 31 Dec 44.
- 57. Certificate of Expenditure, Bombs, Ordnance Office Credit Voucher File, VAAF, Victorville, Calif., Nov and Dec 1944.
- 58. Ordnance Debit Voucher File, VAAF, Victorville, Calif., Nov and Dec, 1944.
- 59. Property Issue Slip, Certificate of Expenditure, Ammunition, VAAF, Victorville, Celif., Nov and Dec 1944.

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53

ARMY AIR FORCES UNSTALLATIONS DIRECTORY BEADQUARTERS, ARMY AIR FORCES, WASHINGTON B.C.

CONTINENTAL UNITED STATES

DATE OF RELEASE I SEPTEMBER 1945 BESTRICTED

RESTRICTED





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AND TYPE OF RANGE	PARENT			Y Y	(JOINT USE)	1	Ē	5		157	=	28	ELEVATION	5	30	
	FIELD	ž		Š	}	1	0.0	TARGET	34.6	DEMOLITION	OTHER	SPOTTERS	ź	E 3 0 2 0 E	ADD - 00	
VICTORVILLE AAFLD (CONT)				VPE C												
VICTORVILLE #7, CALLY FER	26 253	2,10	640	YTEC	FICTORVILLE A A FLD	1	•	1				10	Jour	L		
	1															
VICTORVILLE \$10, CALLY PRE	79 253	10	640	W77C	VICTORVILLE A A FLD	ı		ı				то	2595			
VICTORVILLE #11, CALIF FAR	PS ESE	2.10	640	VITC	VICTORVILLE A A FLD	ļ,		١			_	100	3410			
VICTORVILLE #12, CALLY FER	46 ESE	10	640	FFEC	VICTORVILLE A A FLD	1		,				Jr0	2745			
VICTORVILLE #13, CALLY FOR	46 52	10	640	VTTC	VICTORVILLE A A FLD	1	•	1				JO	25.55			
VICTORVILLE PLA, CALLY PER	50 1	10	640	WITC	VICTORVILLE A A FLD	ı		1				ıro	2555			
VICTORVILLE #16, CALIF PRE	90 ESE	16	640	A12C	VICTORVILLE A A FLD	Ι,		,				380	2935			
VICTORVILLE \$17, CALLY PER	58 282	10	640	WFTG.	VICTORVILLE A A FLD			,								
VICTORVILLE PIS, CALIF FEE	Q4 253	10	640	WETC.	VICTORVILLE A A FLD	,		,		1		10	2355			
VICTORVILLE #19, CALLY FIR	64 EE	1.10	640	ANIC		,			\dashv	\dashv	7	ro.	2450			
VICTORVILLE #20, CALLY PAR	57 88	16	640		VICTORVILLE A A FLB	,			-	+	-		7060			
VICTORVILLE S-3, CALIF PER	25 1003	16	640	ALIC	VICTORVILLE A A PLD	1		1	+	1		TO TO	7160			
VICTORVILLE S-1. CALLY PER					VICTORVILLE A A FLD	1	Н	1	-		-		2300			
	32 B	16	640	ALIC	VICTORVILLE & & FLD	1	•	1	-+	+		3 0	2420			
VICTORVILLE N-2, CALIF PRE	J4 2003	16	640	WFFC	TICTORVILLE & A FLD	1	•	1		+		10	2305			
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WALKER A A FLD, KANS				213					4		- 1					
TALLITE M. EAST FRE	12 V	4	2560	247	YALEER A A PLD	1	•		_	_	4	30	2276			PORTEGIA VALUES FAR 10
VALUE 42, TAN PRE	27 BA	b	2536	24.7	WALETER A A FLD	1	٠		_	-		T O	2350			PORCERLY SHORY HILL PER #7
VALUE #3, EAST PER	14 M	-	2560		VALUE A A FLD	1	• •		_	4	_	10	2850			PONCELY SHORY SILL PRE 46
VALUES, EASS A-0 GE	64 20	10	11520	ZAJ	VALKER A A FLD (PRATT A A FLD)		Ц				12	1 0	2600			3 A=0 COUNTERS
DICET HILL, TARS A-A GR	76 W	10	22,8384	247	VALEER & A FLD (SHOET SILL & A FLD)											S SIGST LIGHTING MARKERS
					(ORRAT REND A À FLD) (McCOOK A A FLD)											
MALLA WALLA A A FLD, WASH				w												
BOARDKAE (ORE) PRE	75 WEW	1, 10	95985	ב	VALLA VALLA A A FLD	la,		ı				1 0	600	1	62	INCLUDES ARLINOTON NAMOES
COLD SPRINGS (ORE) FRE	#1 A2A	2,10	2621	w	VALLA VALIA A A FLD	1						ΙO	600			
MOSES LATE, VALUE FRE	75 ×		2560	w	WALLA VALLA A A FLD											SONIC TARGETS
LANDER, VALUE PAR	54 II	2	2560	T.	WALLA WALLA A FLD							TE	1575			RANGE NOT IN UNK
DATEOPORT, NAME PAR	105 X		3840	Ę	WALLA WALLA & A FLD				i							PARIGE NOT IN USE
YALLA YALIA, YASE ALGO	70 🗪		7680	Ţ,	WALLA WALLA A A FLD				-			1				
Contral Oregon (Ore) And GR				14.5	Goven Field (Valle Valle A A Fld)											
											_		1			
WALTERBORD A A FLD. 5 G				ur				Г						 		
EXCESSIVILLE, S C PER	5 FV	2	1968	145	VALITERSONO A A FLD	1			П			TES		†		
BOTAST BAT, S C A-G GR	35 🕮	2	326	147	WALTERSONO A A FLD	-	T	\vdash			6	TES		 	 	
	/ <u>-</u>	1		_	*	T	 			H	٦					
WAYCROSS A A FLD. GA		\vdash		w		-		+	-	 	 1	1	1	 	 	
SCHERVILLE, CA 5 4 GR	27 per		P2250		WATTER 4		1	†-		İ		-	1,00	1	1	1 STEATING MARKE
	27 SSV	z, 10	الاعتر	74.7	VATCECES A A FLD	1	-	╁	1		2	100	124	-	 	1 A-G RANGE
NOTES: PER - PRECISION	ORBING RA	BUE	L		- AIR TO GROUND GURNER			-	L	1	•	- 10	CAT L	(082°1)	D PAC	INITIAL OF DAY TAXORIS
A-A OR - AIR TO A	IN SUPPLE	T MA		B 4 GE	- BONCETHO AND SURFREST !	A P	3 2									
A A F INSTALLATIONS DIRECTORY SECTION-IX PAGE- 85																

RESTRICTED

CONFIDENTIAL

HEADQUARTERS

AIR MAIL

ARMY AIR FORCES WESTERN FLYING TRAINING COMMAND 1104 West Bighth Street, Santa Ana, California

AGC 13H-LG-NMB

AG S/R 686.2 (Victoville)

6 Oct45

SUBJECT:

TO:

COMMANDING GENERAL, AAF Training Command, Texas and Pacific Building, Fort Worth 2, Texas.

In compliance with Section IV, AAF Reg. 85-3, 12 May 45, The Bombing Target Sites attached to Victorville Army Air Field, Victorville, California, are declared to be of no further use to the needs of this Command. The following information is submitted in accordance with Section IV, Paragraph 11, AAF Reg. 85-3.

- a. Victorville AAF Bombing Target Sites
- b. See Schedule (Incl. #L) inclosed.
- c. See Schedule (Incl. #1) inclosed.
- d. O, tline of targets was bladed on target site locations.
- e. Outline of targets in fair condition.
- f. Target Sites used for bombafdier Training.

g.

- h. None
- i. None, except those provided for in the leases, such as the 30-day notice to be submitted before termination and the restriction requireing use of the site by the Government for military purposes while under lease.
 - j. Targets No. 18 and 19 were made avilable for use by the Fourth Air Force.

k.

For the Commanding OFFICER:

FRED D. HALL, Maj, AC Acg Amst Adjutant General.

2 Incls
Incl 1 - Schedule (trip)
2 - Dwg V-4 (trip)

And 6

CONFIDENTIAL

Target	t I	ocation Long.	Dist	ance from		Own	nerahi		
2	34 ⁰ 32'30"	1170 091		i. east	Approx.	200 440		Public Domain Govt Owned	Sec 12 / 8 68 1984
3	34° 34°30°	117° 05'	16 m	i. east	n	80 560	H H	Public Domain Govt Owned	Portion of Sec 27,28,33 & 94, Ton, E28, SHEAM
4	34° 27'30"	117° 07' 30"	16 m	i. S.E.	11 11	640	Ħ	Govt Owned	Portions of Sec 5,6,7 & 80
5	34° 38'30"	116° 59'	21 m	i. E.	Ħ	640	Ħ	Public Owned	Sec 4, Tán, Riw, SBB&W
7	34° 33'	116° 52'30"	28 m	i. E.	ti Ti	240 400	H H	Public Domain Govt Owned	Portions of Sec 3,4,9 & 10 T5N, RIE SEBEN
10	34° 27'30"	116 ⁰ 42†30#	38 m	i. E.S.E.	Ħ	640	· п · ·	Public Domain	Portions of Sec 1,6,7, & 12 TAN, R2E, SBB&M
l1	34 ⁰ 34¹	116 ^o 37'30"	42 m	i. E.	11 18	320 320		Public Domain (Lease Nol W04-193-eng-532 (\$9.60 per annum)	
12	34 ⁰ 28 13 0#	116035'	45 m	i. E.	11	640	n '	Public Domain	N-1/2 Sep 5, TAN, RAE(S-1/2 Sep 32, T5N, RAE(SBRAM
13	34 ⁰ 22 ' 30"	116°36'	45 m	L. E.S.E.	11	640	Ħ	Public Domain	Sed 6, Tan, RAB, SEBAN
L4	34°35 '	116°30'	49 m	L. E.	11,	640	n	Public Domain	Sec 30, IGN, R5E, SEEM
.7	34°24'30"	116°22'30"	57 M	L. E.S.E.	11	640	Ħ.	Public Domain	Sec 29, TAN, RAB, SERMI
18	34 ° 19 ' 30"	116°18'	61 mi	L. E.S.E.	Ĥ	640	H .	Public Domain	Portion of San 25 & 25,738,868 Portion of San 19 & 30,738,878 all in 1888
L9	34013'30"	116 ° 20'	63 mi	E.S.E.	Ħ	320		Public Domain	E_1/2 500 27 T2N, R6E, SBBM
<u>.</u> .	34 ⁰ 591	117°05'	32 mi	. N.E.	11	320 640		Govt Owned Public Domain	Sec 4, TIBM, Rose, Subsection
2 :	35 ⁰ 041	117 ⁰ 09'	35 mi	E.	11	640	R	Public nain	Sec 11, TITE BY SERVE
	34 ⁰ 581	117°13'	28 mi	. N.E.	n	640		Public Bonato	

Reproduced from the holdings of the National Archives Pacific Region, Laguna Niguel Office







HEADQUARTERS SAN BERNARDINO AIR TECHNICAL SERVICE COMMAND

SBCON2A/CEB/ry
IN REPLY REFER TO SAN BERNARDING ARMY AIR FIELD, CALIFORNIA.
SBATSC 601.53

DEC 7 1945

SUBJECT: Declaration as Excess, Auxiliary Installations of Victorville

Army Air Field, Victorville, California

Commanding General Air Technical Service Command Wright Field, Dayton, Ohio

ATTN: Air Installations Division, TSCON

In accordance with War Department Circulars No. 89, dated 20 March 1945, and No. 326, dated 25 October 1945, the auxiliary installations of Victorville Army Air Field, Victorville, California, consisting of a. Auxiliary Landing Fields, b. Bombing Targets, c. Demolition Targets, d. Mirage Lake Glider School, all as described below, are no longer required and are declared excess to the needs of this Command. It is requested that appropriate action be taken to dispose of the Government-owned facilities, to cancel all pertinent leases and transfers and to restore the original premises to the respective lessors or to the Public Domain.

- a. Auxiliary Landing Fields: (Regional Map VAAF File No. 256, revised 8 March 1945, inclosure No. 1).
 - (1) Field No. 1, located approximately 21 miles North of VAAF in T 10 N, R 5 W, SB B&M, comprising 640 acres Public Domain; Covernment-owned facilities 🐃 include 4 field mix surfaced runways, 3 buildings and 4 miles of 4-strand barbed wire fence.
 - (2) Field No. 2, located 15 miles North of VAAF in T 9 N, R 4 W, SB B&M, comprising 640 acres in fee; Government-owned facilities include 4 field mix surfaced runways; 3 buildings, skeet range, and 4 miles of 4-strand barbed wire fence. **治学运输工业产生**管
 - (3) Field No. 3, located 11 miles West of VAAF in T o N, R 7 W, SB BEM, comprising 640 acres in fee; Government-owned facilities include 4 field mix surfaced runways, 3 buildings and 4 miles of 4-strand barbed wire fence.

PREMITTED

Basic: Ltr fr SBATSC to CG, ATSC, 601.53, Subj: "Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California". (Cont'd)

- (4) Field No. 4, located 16 miles West of VAAF in T 6 N, R 8 W, SB B&M, comprising 640 acres leased land, (Lease No. W 868-Eng-2070, State of California, Lessor); Government-owned facilities, 4 field mix surfaced runways, 4 miles of 4-strand barbed wire fence and 2 small buildings installed by Marine Corps.
- b. Bombing Targets: (Regional Map VAAF File No. 256, revised 8 March 1945, inclosure No. 1).
 - (1) Target No. 1, located 8 miles East of VAAF in T.6 N, R 3 W, SB B&M, comprising 160 acres, Lease No. W 04-193-Eng-2623 (expired), Lessor, Carrie Kyles.
 - (2) Target No. 2, located 12 miles East of VAAF, T 5 N; R 3 W, SB B&M, comprising 640 acres, 440 acres in fee and 200 acres Public Domain; Government-owned facilities include field mix surfacing, portable power shed, target frame and 1 mile of 2-strand barbed wire fence.
 - (3) Target No. 3, located 16 miles East of VAAF in T 6 N, R 2 W, SB B&M, comprising 640 acres, 560 acres in fee and 80 acres Public Domain; Government-owned facilities are the same as Target No. 2.
 - (4) Target No. 4, located 16 miles East of VAAF in T 4 N, R 2 W, SB B&M, comprising 640 acres in fee; Government-owned facilities are the same as Target No. 2.
 - (5) Target No. 5, located 21 miles rast of VAAF in T.6 N, R'I W, SB B&M, comprising 691.96 acres Public Domain; Government-owned facilities are the same as Target, No. 2.
 - (6) Target No. 6, located 16 miles East of VAAF in T 5 N, R 1 W, SB B&M, comprising 640 acres, 240 acres in fee, 320 acres Public Domain, 80 acres surplus, Lease No. W 04-193-Ing-5550, Lessor, William Bruce Young.
 - (7) Target No. 7, located 28 miles East of VAAF in T 5 N, R 1 E, SB B&M, comprising 640 acres, 400 acres in fee, 240 acres Public Domain; Government-owned facilities are the same as Target No. 2.

Classification consculled by contourty Acts. Aust. Chief of State

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Basic: Ltr fr SBATSC to CG, ATSC, 601.53, Subj: "Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California". (Cont'd)

- (8) Target No. 8, located 29 miles Southeast of VAAF in T 4 N, R 1 E, SB B&M, comprising 640 acres Public Domain; Government-owned facilities include 3 circular areas surfaced with field mix.
- (9) Target No. 9, located 34 miles East of VAAF in T 5 & 6 N, R 2 E, SB B&M, comprising 657.28 acres Public Domain.
- (10) Target No. 10, located 38 miles Southeast of VAAF in T 4 N, R 2 & 3 E, SB B&M, comprising 649.54 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (11) Target No. 11, located 42 miles East of VAAF in T 6 N, R 3 E, SB B&W, comprising 640 acres, 320 acres Public Domain and 320 acres leased—Lease No. W 04-193-Eng-5327, lessor, State of California; Government-owned facilities are the same as Target No. 2.
- (12) Target No. 12, located 45 miles East of VAAF in T 4 & 5 N, R 4 E, SB B&M, comprising 617.12 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (13) Target No. 13, located 45 miles Southeast of VAAF in T 3 N, R 4 E, SB B&M, comprising 636.30 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (14) Target No. 14, located 49 miles East of VAAF in T 6 N, R 5 E, SB B&M, comprising 640.46 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (15) Target No. 15, located 51 miles Southeast of VAAF in T 4 N, R 5 E, SB B&M, comprising 640 acres Public Domain (surplus).
- (16) Target No. 10, located 50 miles East-Scatheast of VAAF in T 4 & 5 N, R 5 E, SB B&M, comprising 640 acres Public Domain; Government-owned facilities same as Target No. 2.

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Basic: Ltr fr SBATSC to CG, ATSC, 601.53, Subj: "Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California". (Cont'd)

- (17) Target No. 17, located 57 miles Southeast of VAAF in T 4 N, R 6 E, SB B&M, comprising 640 acres Public Domain; Government-owned facilities same as Target No. 2.
- (18) Target No. 18, located 61 miles Southeast of VAAF in T 3 N, R 6 & 7 E, SB B&M, comprising 627.42 acres Public Domain; Government-owned facilities same as Target No. 2.
- (19) Target No. 19, located 55 miles Southeast of VAAF in T 2 N, R 6 E, SB B&M, comprising 640 acres, 320 acres in fee and 320 acres Public Domain; Government-owned facilities include field mix surfaced targets, a frame target and 1 mile of 2-strand barbed wire fence.
- (20) Target No. 20, located 55 miles Southeast of VAAF in T 3 N, R 5 E, SB B&M, comprising 640 acres Public Domain; Government-owned facilities same as Target No. 2.
- (21) Target N-1, located 28 miles North of VAAF in T 10 N, R 2 W, SB B&M, comprising 644.75 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (22) Target N-2, located 33 miles North of VAAF in T ll N, R 3 W, SB Ben, comprising 640 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- (23) Target N-3, located 26 miles North of VAAF in T 10 N, R 3 W, SB B&M, comprising 640 acres Public Domain; Government-owned facilities are the same as Target No. 2.
- c. <u>Demolition Targets</u>: (Regional Map VAAF File No. 256, revised 8 March 1945, inclosure No. 1).
 - (1) Target "Y", located 50 miles Southeast of VAAF in T 4 N, R 4 E and R 5 E, SB B&M, comprising 2240 acres Public Demain.

Classification concelled by authority Acts. Asst. Chief of Section Wiles, stemmandum WD 331 (3 Jan 44) duted January 1997.

R. S. H. Col., CED Interest of Linear Division, WDS

PE 4754 " "

Basic: Ltr fr SBATSC to CG, ATSC, 601.53, Subj: "Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California. (Cont'd)

- (2) Target "Y" (1), located 45 miles Southeast of VAAF in T 4 N, R 4 E, SB B&M, comprising 1280 acres.
 - Target "Z", located 50 miles East of VAAF in T 5 N, R 4 E, SB B&M, comprising 2,762.95 acres Public Domain and 1449.12 acres leased-Lease No. W 04-193-Eng-4536, Lessor, Southern Pacific Land Company.
- d. Mirage Lake Glider School, (OCE Drawing No. 147-P, dated 27 September 1945, inclosure No. 2), located 10 to 13 miles West of VAAF in T 6 & 7 N, R 7 W, SB B&M, comprising 1,936.91 acres, 1,292.72 acres Public Domain and 644.19 acres leased. Tract Register with list of leases is shown on drawing. There is no Government construction.
- The following pertinent information concerning said auxiliary installations of VAAF is submitted.
- a. Location: The auxiliary Installations are located in San Bernardino County, California, except Landing Field No. 4 which is located in Los Angeles County; all are within a 63 mile radius of VAAF which is located 6 miles Northwest of Victorville, California.
- b. Description: All auxiliary facilities are described in the preceding paragraph 1.
 - c. Use: On inactive status.
- d. Recommendations: It is recommended that both the land and facilities be declared surplus and that the appropriate Division Engineer be directed to take over necessary accountability and protection of the above installations if no other governmental agency has use for the property.
- e. Degree of Readiness: Not applicable.

 f. Use by Other Army or Federal Agencies: It is not known whether any other Army or Federal agencies have use for all or any portion of these auxiliary installations.
 - g. Date Available: Immediately.
- h. Contractual Commitments: None known to this Headquarters except those provided for in the leases.

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RESTAL DISD

Basic: Ltr fr SBATSC to CG, ATSC, 601.53, Subj: "Declaration as Excess, Auxiliary Installations of Victorville Army Air Field, Victorville, California" (Cont'd)

- i. Auxiliary Facilities: As described in preceding paragraph 1.
- j. Commitments to Other Army or Federal Agencies: Records of the Air Installations Office, SBATSC, disclose no commitments to other Army or Federal agencies.
 - k. Necessity for Service Detachment: Not applicable.
- 3. It is requested that this declaration of excess be processed as soon as practicable in order that appropriate directives may be published authorizing the Division Engineer to take over disposal of the property.

4. It is further requested that this Headquarters be advised of action taken on this declaration of excess.

JAES W. SPRY
Brigadier General VSA
Commanding

2 Incls.

Incl 1 - Regional Map VAAF 256 (in dup).

Incl 2 - OCE Dwg 147-P (in dup).

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3 WDGR. Memberschim WDGCT 331 (3 Jun 44) dated a Junuary

Editative & Licison Division, WDG

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ADDRESS REPLY TO COMMANDING GET WASHINGTON D. C.

AFDIM-30/3

ATTENTION:

HEADQUARTERS, ARMY AIR FORCES WASHINGTON,



20 MAR 1946

SUBJECT: Withdrawel of Victorville Bombing Targets from Surplus.

Chief of Engineers. TO:

- 1. Reference is made to 2d Indorsement from this headquarters to the Commanding General, Army Service Forces, dated 15 January 1946, wherein certain auxiliary facilities of Victorville Army Air Field, Victorville, California, were declared excess to the Army Air Forces. The records of this headquarters indicate that the facilities reported therein were declared surplus by the War Department on 23 January 1946.
- 2. It has now been determined that Bombing Target Sites 2, 3, 4, 5, 7, 10, 11, 12, 13, 14, 16, 17, 18, 19 and 20, reported as excess in the above referenced 2d Indorsement, will be required for use in connection with March Field, Riverside, California, and Castle Field, Merced, California, for the P-80 Jet Training Program. It is necessary to have an aerial gunnery range as near March Field as possible due to the short endurance of the P-80 aircraft. It is also desirable to have an aerial gunnery range near the home base since the P-80 is still in the development and test stage, and it is believed that the safety factor will be increased an infinite amount during firing tests. The P-80 uses far more fuel on this type of firing near the ground than at altitude, making it mandatory to establish the range within a short radius of March Field. The Victorville Range System will be used jointly by March Field and Castle Field, Merced, California.
 - 3. It is therefore requested that the War Assets Corporation be requested to release these sites from the category of surplus for reassignment to the Army Air Forces.

FOR THE COMMANDING GENERAL:

LEO J. ERLER, Col. A. C.
Deputy Chief, Air installations Division

· Assistant Chief of Air Staff_4

Jan SKY

HEADQUARTERS OF THE ARMY AIR FORCES WASHINGTON

15 April 1946

MEMORANDUM TO: Division Engineer, South Pacific Division

fornia Street, SAN FRANCISCO, CALIFORNIA.

ATTN:

Mr. Sullivan, Real Estate Section.

SUBJECT:

Withdrawal of Victorville Bombing Targets From Surplus.

Attention is invited to the following information contained in Headquarters AAF, Air Installations Division, Daily Diary of 3 April 1946.

a. WITHDRAWAL OF VICTORVILLE BOMBING TARGETS FROM SURPLUS. The Office of the Chief of Engineers was advised that Bombing Target Sites (2) 3, (2, (5) 7, 10, 11, 12, 13, 14, 16, 17, (18) 19, and 20 previously reported as excess on 15 January 1946 will be required for use in connection with March Field, Riverside, California, and Castle Field, Merced, California, for the P-80 Jet Training Program. It was therefore requested that the War Assets Corporation be requested to release these sites from the category of surplus for reassignment to the Army Air Forces.

Further attention is invited to item in Daily Diary of 26 March 1946 as follows:

a. EXCESS DECLARATION, CAL AFRO ATRPORT, CALIFORNIA. The Commanding General, Army Service Forces, was advised that the premises known as the Cal-Aero Airport, Ontario, California, are no longer required for use by the Army Air Forces. In accordance with Cir. 89, MD, 1945, recommendation was made that the premises be declared surplus

Albert J. Wehrell

Lt. Col., A.C.,

Senior AAF Liaison Officer. No. & So. Pacific Divisions.



In Reply Address Both Communication and Envelope to Attention of Following Office Symbol: ARMY AIR FORCES
HEADQUARTERS
AIR MATERIEL COMMAND

TSCON3C/DFO/jll Wright Field, Dayton, Ohio Oct. 10, 1946

TSCON3C

SUBJECT: Decontamination of Bombing and Gunnery Ranges.

TO:

Commanding General
San Bernardino Air Materiel Area
San Bernardino Army Air Field

San Bernardino, California

ATTN: Air Installations Office

- 1. Attention is invited to the contents of paragraphs 3 and 4 of War Department Circular No. 195 relating to statements concerning decontamination action required in connection with all declarations of excess covering Bombing and Gunnery Ranges.
- 2. For your information, advice is informally furnished that the War Department General Staff will declare surplus Army Air Forces Bombing and Gunnery Ranges even though same have <u>not</u> been policed and all unexploded "duds" thereat have <u>not</u> been disarmed. It is, therefore, requested that any of subject ranges which are under your jurisdiction and are excess to the needs of your Command be so reported to this Headquarters together with all information regarding such policing and decontamination action as already may have been accomplished or remains to be accomplished. In the event that such ranges are thereafter determined to be surplus to the needs of the War Department, the appropriate Division Engineer then will assume responsibility for such further policing and decontamination as may be feasible and warranted.
- 3. In this connection it is understood that funds available to the Chief of Engineers for decontamination of surplus lands are extremely limited. It is, therefore, imperative that the Commanding Officer of each installation, or the tactical commander having responsibility for the operation of an area for which an installation commander is not otherwise responsible, make persistent and continuous effort with the means at hand to police and decontaminate range lands to the maximum extent possible.

BASIC: Ltr fr AMC subj: "Decontamination of Bombing and Gunnery Ranges."

4. In view of the foregoing, all declarations of excess covering bombing and gunnery ranges should be submitted to this Headquarters in accordance with the provisions of War Department Circular No. 89, dated, 20 March 1945, and also include the information required by paragraph 2 above.

BY COMMAND OF LIEUTENANT GENERAL TWINING:

/s/Kirk H. Scott, Lt. Col.C.E.
for:JOHN G. GRIGGS
Colonel, Air Corps
Chief, Air Installations Division

C C O P P Y

WAR DEPARTMENT
CORPS OF ENGINEERS
OFFICE OF THE DIVISION-ENGINEER
SOUTH PACIFIC DIVISION
351 CALIFORNIA STREET
SAN FRANCISCO 19. CALIFORNIA

Refer to file: PSDRM-U 319.1 (Victorville AAF - Bombing Target Nos. 2, 3, 4, ,2, 13, 16, 17, 18, 19, and 20)

31 January 1947

SUBJECT: Adverse Conditions at Bombing Target Sites, Victorville, Calif.

TO:

The Chief of Engineers

War Department Washington 25, D. C.

ATTENTION: Chief, Real Estate Division

- l. A review of Real Property Utilization Inspection Reports covering recent inspections of ten bombing targets adjacent to Victorville Army Air Field, Victorville, California (formerly satellite facilities to the Airfield but now assigned (since June 1946) to the Tactical Air Command, Langley Field, Virginia) reveals the following:
 - a. The targets have not been used for approximately two years.
- b. Movable improvements, including fences, have recently been looted by vandals.
- c. The ground on and surrounding the target areas for a considerable distance is heavily littered with bombs and fragments, and some of the bombs are duds.
- d. Warning and danger signs have not been posted in conspiuous locations.
- 2. The using agency, Twelfth Air Force, March Field, Riverside, California, has been requested to give consideration to declaring as excess those targets not required by the Command for operational purposes. Also, attention has been called to the need of posting warning or danger signs at the target sites.
- 3. A copy of the inspection report pertaining to each bombing target has been furnished the Army Air Forces Liaison Officer, Los Angeles, California.
- 4. It is believed that the above should be brought to the attention of the Commanding General, Army Air Forces.

/s/ E. H. MARKS Colonel, CE Division Engineer

lst Ind.
Bas. 31 Jan. 47

SUBJECT: Bombing Target Sites.

OCE, WABHINGTON 25, D. C., 17 February 1947.

TO: The Commanding General, Army Air Forces, Washington, D. C. ATTENTION: AFDIN

- l. In connection with the basic letter, attention is invited to 5th Indorsement from this office dated 11 October 1946, (basic: 10 July 1946) Subject: Transfer of Surplus Facilities, Pacific Division No. 4197-3, suggesting that your office recommend to War Department, General Staff that certain bombing target sites at Victorville Army Airfield, California, be placed in surplus status.
- 2. The following sites were placed in surplus status, but withdrawn and reestablished on 15 April 1946: Bombing Targets 2, 3, 4, 5, 7, 10, 11, 12, 13, 14, 16, 17, 18, 19 and 20.
- 3. In view of the fact that at least ten (10) of the targets have not been used for approximately two years; that the area is being looted by vandals; and that the area is unsafe due to the existance of unexploded. bombs and has not been posted as a danger zone, it is recommended that further consideration be given to the possibility of placing the targers in a surplus status.

FOR THE CHIEF OF ENGINEERS:

/s/ PETER P. GOERZ
Colonel, Corps of Engineers
Director of Real Estate

602.3(Victorville AAF, Calif. Bombing Targets)
LA PSDRE-D 7.60 JLK

WAR DEPARTMENT
CORPS OF ENGINEERS
OFFICE OF THE DIVISION ENGINEER
SOUTH PACIFIC DIVISION
REAL ESTATE DIVISION
LOS ANGELES SUB-OFFICE
621 SOUTH HOPE STREET
LOS ANGELES 14, CALIFORNIA

18 February 1947

SUBJECT: Transfer of Victorville Army Air Field Bombing Targets

TO:

Division Engineer South Pacific Division SAN FRANCISCO 19.CALIFORNIA

ATTENTION: Real Estate Division

- 1. Reference is made to Surplus Real Estate Directive, South
 Pacific Division No. 4197-3, Los Angeles District No. 2073-3, dated
 12 June 1946, wherein the District Engineer is directed to transfer
 Bombing Targets 2, 3, 4, 5, 7, 10, 11, 12, 13, 14, 16, 17, 18, 19
 and 20 to the Air Tactical Command, March Field, Riverside, California.
- 2. Attempts were made to transfer these targets as directed but the Air Tactical Command at March Field refused to accept the transfer of all of the targets. A meeting was had with the representative at March Field and as a matter of expedience, request was made for the immediate transfer of the Targets 2, 4 and 5.
- 3. By agreement with the District Engineer, in order to cooperate with March Field, the transfer of Targets 2, 4, and 5 was accomplished.
- 4. Transmitted herewith is latter received from Headquarters, March Field dated 14 February 1947 requesting copies of documents on the transfer of Targets 2, 4, and 5. This is forwarded for compliance by your office.

l Incl:
Ltr fr Karch Fld,
dtd 14 Feb 47.

JOHN J. SHIPLEY Chief, Hanagement & Disposal Branch Los Angeles Sub-Office

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WAR DEPARTMENT
Office of the Chief of Engineers
5800 TSU DETACHMENT NO.14
BOMB AND SHELL DISPOSAL TEAM

4 February 1948

SUBJECT: Report of the deduciding of Victorville Bombing Targets, San Bernardino County, California.

To: Division Engineer
South Pacific Division
Corps of Engineers, War Dept
Oakland Army Base
Cakland 14, California.

- 1. The 9800th ISU-CE Detachment #14, Bomb & Shell Disposal Team was assigned the clearing of the Victorville Bombing Targets, Victorville, California under Surplus Real Estate Directive, South Pacific Division Number: 4892-3 and Los Angeles District Number 2364-3. This directive covers the dedudding of target Numbers: 3,7,10,11, 12, 13, 14, 15, 17, 19 and 20, a total of 7,022 acres. The dedudding of said targets began 20 October 1947 and were completed 24 January 1948.
- 2. Six laborers, hired through the Los Angeles District Engineers and the personnel of the Detachment made up the searching party. Two Project Engineers were also furnished by the Los Angeles District Engineers.
- 3. The total man hours, including civilian and Detachment labor, were 7175 hours. The total civilian field cost (salary, per diem and vehicle repairs) was \$7,547.
- 4. A team made up of one Project Engineer and one Sergeant from the Detachment surveyed and marked the boundaries of each range ahead of the search crew. The other Project Engineer, in conjunction with a Detachment Sergeant, controlled the search crew.
- 5. It is estimated that there is approximately 840 tons of scrap on subject targets.
- 6. The method of searching was as it has been in similar reported jobs. However, the immediate target areas were more heavily impacted and a large percentage of the bombs were buried or partially buried necessitating several passes of the search crew and considerable excavating. The excavating was done with non-sparking picks cutting down the danger of setting off a bomb by accidently digging into one.
- 7. All blasting was done after the searchers were out of the range or at a later date. The dud bombs were rid of by placing a sufficient size charge of Composition C-3 on them so as to explode the bomb or completely demolish it. After detonation the demolition men checked the surrounding area to see that the object in question had been destroyed.

- 8. A list of duds found and destroyed are given below:
 - (a) 2,860 Bombs, Practice, M38-A2
 - (b) 32 Bombs, Flare, Aircraft, Parachute, 120
- 9. I believe the 7,022 acres covered by this report to be free from explosive material for the purpose of grazing, mining and/or agricultural purposes.
- 10. The location of this area is designated by the enclosed map of:

Real Estate

Victorville Army Air Field Bombing Ranges
Drawing No. 65-FP
State: California
County: San Bernardino

JOSEPH P. SAINATO
1st Lt., CR
9800th TSU CE Det #14
Bomb & Shell Disposal Team
Commanding

CRRTIFICATE OF CLEARANCE VICTORVILLE BOMBING TARGETS NOS. 3,7, 10, 11, 12, 13, 14, 16, 17, 19, AND 20

22 March 1948

This is to certify that the areas known as Victorville Bombing Targets Nos. 3, 7, 10, 11, 12, 13, 14, 16, 17, 19 and 20, as shown on Real Estate Map of Victorville Army Air Force Bombing Ranges, Drawing No. 65-FF, were completely dedudded during the period from 20 October 1947 to 24 January 1948.

2860 dud practice bombs 138-A2 and 32 dud flare bombs, aircraft parachute \$26, were found and destroyed during the course of the dedudding.

To the best of our knowledge and belief, the entire area covered by these 11 bombing targets is clear of all explosive or dangerous material and the land is safe for the purpose of grazing, mining or other agricultural purposes.

> B. C. HEDRICK Engineer, Civil Los Angeles District

> > Date Sept. 8, 19

JOSEPH P. SAINATO let Lt., C. E. 9800th TSU-CE Det. #14 Bomb & Shell Disposal Team Commanding

Approved

Formey Epecial Assistant Property Management Division

War Assets Administration

Victorville Precision Bombing Range #19
Victorville, California
W-Calif-258 WD-1246
Complete Classification

April 28, 1948

The Los Angeles District Joint Property Survey Team No. 9, B. B. Evans, Captain, inspected this facility on March 17, 1948, and made the following report of inspection, dated April 27, 1948:

- "(1) No buildings, structures or saleable betterments existed at subject Site at the time of inspection.
- (2) The general appearance of the land and cover growth is much the same as the surrounding land, except for numerous small impact holes up to 30" in diameter and approximately 12" deep.
- (3) The land is cluttered up with numerous expended bomb cases and fragments.
- (4) The asphalt target area referred to in the Declaration was not found, possibly due to its destruction by the bombs and covered over by wind-blown sand.
- (5) No roads were found to enter the target area. Access was made by use of automobile trails which were presumably made by the engineer dedudding team's equipment."

Attention is called to the fact that there has been considerable activity in this general area, in developing desert home sites and it is advisable to call this fact to the attention of the Ferm Credit Administration when making assignment of this property.

Classification Map of Site Area is Attached as Exhibit "A".

Public Domain land to be returned to the Department of the Interior.

In reply refer to 1915-20
Heterplia Semble Invest 514 19
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(n-2al-258) Heterplia

MAY 19 1948

Director
Bureau of Land Management
Department of the Interior
Makhington 25. D. C.

Der Str

of the Surplus Property Set, the Ser Access Section 5 (6) of the Surplus Property Set, the Ser Access Section treatment found suitable for return to the public Scenin, and hereby returns to the Department of the Interior for administration under the Public Land laws, 320 seres Seccribed as the 1/2 of Section 26, 128, 868, S.B.B. and M. withdraws by Public land Order So. 125, dated New 20, 1945, for the establishment of the Victorville Bombing Target Site 19, Victorville, California.

The Office of the Chief of Engineers, Department of the Army, by letter dated Pebruary 4, 1948, has certified that the returned land area has been decontaminated.

Sincerely yours,

Deputy Admin - PD

Regional Director - San Francisco Cal.

Director - Mr. Peyton

FEWelsh PNI-3
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WAR ASSETS ADMINISTRATION OFFICE OF REAL PROPERTY DISPOSAL

Region 10

1182 Market Street

San Francisco 2, California

In reply refer to z/ RSF10-RD-P

May 21, 1948

Director, Property Management Division, PPM

Office of Real Property Disposal

Washington 25, BC C

FROM:

V. I. Graham, Director

Property Management Division Office of Real Property Disposal

3, W-Cal-259(WD-1247) SUBJECT: Victorville Precision Rombing Target No. Victorville Precision Bombing Target No. 7, W-Cal-260(WD-1248) Victorville Precision Bombing Target No. 19, W-Cal-258(WD-1264)

Victorville, California

Please be advised that custody and accountability of the subject installations was assumed as of 12:01 May 10, 1948.

Protection and maintenance will be by periodic inspection only, inasmuch as there are no personal property or utilities involved.

CC CASSIC

ERIEF HISTORY OF GEORGE AIR FORCE BASE

1941 - 1950

RETURN TO
AFSURG
MAXVELL AFB AL 36112

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Prepared by
USAF Historical Division
Research Studies Institute
Maxwell Air Force Base, Alabama
April 1956

Commanding General, West Coast Air Corps Training Center. At that time two officers and fourteen enlisted men arrived from Mather Field, California, to form a provisional headquarters detachment. Most of the buildings were still under construction when these mon arrived, and therefore they worked under made-shift conditions. The Base was first organized as an Advanced Twin-Engine Pilot Training School and a Bombardier Training School. With the arrival of the 86th Air Base Group (SP) from Mather Field, California, on 24 November 1941, administrative offices and departments began to function on a larger scale. The 86th Croup was made up of Headquarters and Headquarters Squadron (SP), 87th Air Base Squadron (SP), and 301st Materiel Squadron (SP). By 7 December 1941 two staff offices were established, and the Office of the Director of Training began to function. At that time blu officers and 250 enlisted men were on duty at the Base. Although the Bomberdier and Advanced Twin-Engine Pilot Training Programs did not officially get under way until the latter part of February 1912, several officers were assigned to various duties in these training programs prior to 9 December 1941. Preliminary plans were formulated for the organization and establishment of the two schools. Areas in which students would fly and bomb were established, and bombing targets, range sites, and anxiliary fields were constructed.

The first group of instructors for the training schools reported from Mather, Minter, and Stockton Fields, California, in February 1962. Advanced twin-engine pilot training started on 26 February, when the first class of cadets reported for training. A few days later, 28 February, the first class of bombardier cadets reported. The Advanced Twin-Engine

Pilot School used AT-9's, AT-6's, and AT-17's for training, while the Bombardier School trained in AT-11's and BT-13's. Cadet pilots trained for a period of nine weeks, with a new class reporting every four and one-half weeks. Bombardier cadets, on the other hand, trained for a period of 13 weeks, with a new class reporting every three weeks. The first class of flying cadets graduated on 24 April 1942, and at the same time the Base was formally dedicated. About one month later, 22 May, the first class of bombardiers graduated.

On 25 November 1942 the last class of twin-engine pilots graduated and twin-engine pilot training was discontinued. During the time the Twin-Engine Pilot School was maintained at the Base, 1,066 pilot students reported for training, and 1,034 students graduated. The Twin-Engine Pilot School was replaced by an advanced glider pilot school, which began operations on 23 November 1942. Two squadrons (the 9th and 52d) of the 63d Troop Carrier Group moved to George from Stuttgart, Arkansas, in December to assist with the program. Glider pilots were trained in the art of cargo flying, and emphasis was placed on towing technique, spot landing proficiency, and night flying. Glider pilot classes trained here for a period of three weeks.

The advent of 19h3 found the Advanced Glider Pilot Training Progres
in full swing and bombardier training progressing at full capacity. The
Base was also undergoing the process of expansion as extensions and
additions were made to existing facilities and special purpose buildings
were built. A great amount of work was done to control dust, which caused
aircraft engines to deteriorate rapidly. Also at that time the organization

of the Bombardier School was revamped, suitable targets for both day and night low altitude bombing were constructed, and field training for bombardier students was inaugurated.

Advanced glider pilot training was discontinued at this Base on 7 April 1943, and the remaining glider pilot students were transferred to Lubbock, Texas. During the history of the Advanced Glider Pilot School at this Base, a total of 764 glider pilots were graduated.

In addition to the regular bombing and training planes, the following types of aircraft were assigned to the Base during 1943: C-60A, C-47, C-53, I-4A, I-4E, I-3B, I-3C, PT-15, and CG-4A gliders. In April, when the glider school was discontinued, all ships and gliders were transferred to other stations, and only AT-11's and BT-15's were assigned to the Base.

In March 1944 this Base received notice that it was to place in operation a transition school for training P-39 single-engine pursuit pilots.

This training program was inaugurated on 12 March; the first students arrived on 14 March; and the first class, consisting of 311 officer-students began training on 15 March. The school gave newly graduated pilots a maximum of ten hours of P-39 transition, plus ground school courses on the Allison engine, the Bell P-39, and the Curtiss and Aero-Products propellers.

Effective 1 May 19th all existing squadrons and detachments on the Base were disbanded or discontinued and personnel thereof were absorbed into the 3035th Army Air Force Base Unit (Bombardier School), which was activated at that time. Personnel and activities were subsequently regrouped into sections.

George AFB 7

In the fall of 19hh the bombardier program was modified to include more extensive navigation training in order to train the graduates of this school for medium bombardment in B-25's. On 10 August a B-25 Transition School was established to train bombing pilots to fly the B-25's used in this program. The Transition School was activated with trained personnel from Mather Field, California, but it was canceled before it got well underway.

Shortly thereafter, on 11 October 1944, the single-engine P-39 Transition School was transferred to Luke Field, Arizona. The last class graduated on 16 October 1944. During the time that this school operated at this Base, 1,887 P-39 pilots were graduated.

Cadet bombardier training was discontinued in September with the last class graduating on 23 December 1944. While here the Bombardier School graduated 5,371 bombardiers. With the close of this type of training, all cadet-student personnel were transferred to Cardner Field, Taft, California.

During September and October 1944 the Bombardier School underwent a change in the type of training to be given. George was designated one of three schools in the United States to train radar bombardier observers and a new program, Radar Observer (Bombardment) Training, was initiated. On 6 October 1944 Colonel Daniel B. White and Major B. F. Paschall arrived from Headquarters, Western Flying Training Command to establish the radar training program. Pilots were assigned as officer-students for bombardier, navigation, and radar training in the B-24 type aircraft. Because of the

change in schools, many alterations had to be made in the maintenance and training personnel. In view of maintenance requirements of the B-24 training program, enlisted men were sent to the Army Air Force Technical School at Keesler Field, Mississippi, for training in B-24 maintenance.

The new Radar Observer (Bombardment) Program was divided into Basic and Advanced Radar Training. The bombardier training, carried on since the Base opened for cadets, was placed under Basic Radar, which utilized the AT-11 type aircraft. In this phase of training officer-students were taught the fundamentals and only those subjects which dealt directly with the bombing problem were presented. In Advanced Radar, which utilized B-24 type aircraft, these officer-students received the final training that prepared them for combat duty. Missions were planned so that all students received a thorough background in radar navigation and bombing by actual experience in all types of weather, targets, and terrain. By the end of 1944 the program was well underway and madar bombardiers were being graduated.

On 23 December 1944 the 3035th Army Air Force Base Unit (Bombardier) was redesignated 3035th Army Air Force Base Unit (Technical School). Since this Base was the parent Radar Observer (Bombardment) Training School in the Western Flying Training Command, it had the highest priority rating on manpower and material. As of 1 January 1945 there were 7,405 officers and enlisted mem assigned to the Base.

The Basic Radar Program was discontinued on 16 June 1945. Personnel and equipment were either transferred to other fields or absorbed by this Base. On 15 August 1945 all radar training was stopped, but training was

George AFB 9

resumed on 22 August 1945 to permit classes already in session to complete their training. However, all radar training was suspended on 24 September 1945, and the students were transferred to Williams Army Air Field, Chandler, Arizona. During its term of operation the Radar Observer (Bombardment) School graduated approximately 2,204 men.

With the cessation of hostilies and the resultant curtailment of the training activities of the Army Air Force, this installation was no longer needed as a training base. Consequently, on 12 October 1965, all flying operations ceased and the Base was placed on standby (temporary inactive) status. The 3035th Base Unit was redesignated 3035th Army Air Force Base Unit (Standby). The Army Air Force wanted to get rid of its excess bases, but it was fairly slow in giving them up until the needs of redeployment could be ascertained. In general the AAF preferred to retain all of its airfields which had housing and third echelon maintenance facilities until the needs of redeployment could be settled. Most of its excess fields were thus put on a standby status.

Transfers reduced the base strength to 1,226 officers and 2,656 emlisted men. Half of the personnel on the Base were separated. Surplus bombardier-navigators who desired to remain in the service were transferred to Minter Army Air Field, California, and Williams Army Air Field, Arizona. Surplus rated pilots were transferred to Luke Field, Arizona, and Minter Field, California. Maintenance emlisted personnel were assigned to Williams Army Air Field, Arizona. A standby force of 83 civilians was allocated to carry on essential functions following completion of the reduction in force.

A. ORGANIZATIONAL STATUS

Constituted

Air Corps Advanced Flying School, Victorville, California, 26 June 1941. WD Ltr. AG 580 (6-19-41) MR-M, dated 23 June 1941.

Activated

At Victorville, California, on 1 October 1941. GO 1, Hq., Air Corps Advanced Flying School, Victorville, California, 1 October 1941, pursuant to WD Ltr. AG 322.2 AAF (6 Aug 41) MR-M-AF, dated 12 August 1941.

Redesignated

Victorville Army Flying School, Victorville, California, 6 February 1942. WD Ltr. AG 680.9 (1-31-42) MR-M-AAF, dated 6 February 1942.

Victorville Army Air Field, Victorville, California, 23 April 1943. GO 5, Hq., Victorville Army Air Field, Victorville, California, 23 April 1943.

Placed on Standby (Temporary Inactive) Status

On 12 October 1945. GO 113, Hq., Army Air Force Western Flying Training Command, 12 October 1945, in accordance with par. 5, WD Cir. 195, 1945, and AFTRC TWX V2904, 25 September 1945.

Redesignated

Victorville Air Force Base, Victorville, California, 23 January 1948. (No authority available.)

Placed on Minimum Operational Status

On 31 December 1948. (No authority available.)

Redesignated

George Air Force Base, Victorville, California, 2 June 1950. GO 42, Department of the Air Force, 2 June 1950.

B. ASSIGNMENTS

Army Air Force Flying Training Command; West Coast Air Corps Training Center: 26 June 1941

The West Coast Air Corps Training Center was redesignated Army Air Force Western Flying Training Command.

Army Air Force Flying Training Command; Central Flying Training Command: 15 October 1945

Army Air Force Air Technical Service Command; San Bernardino Air Technical Service Command: 1 November 1945

The Air Technical Service Command was redesignated Air Materiel Command; the San Bernardino Air Technical Service Command was redesignated San Bernardino Air Materiel Area.

Air Materiel Command; Sacramento Air Materiel Area: 15 May 1947

Air Materiel Command; San Bernardino Air Depot: 11 February 1949

Air Materiel Command; San Bernardino Air Materiel Area: 1 December 1949

Continental Air Command; Fourth Air Force: 1 April 1950

Continental Air Command; Western Air Defense Forces: 1 August 1950

Air Defense Command: 1 January 1951

Tactical Air Command; Ninth Air Force: 15 November 1951

CALIFORNIA ARCHAEOLOGICAL INVENTORY



ARCHAEOLOGICAL INFORMATION CENTER San Bernardino County Museum 2024 Orange Tree Lane Redlands, California 92374

(909) 792-1497 (909) 798-8585 - FAX

11 November 1997

Larry Dauphin, SIOAC-ESL Defense Ammunition Center 3700 Army Depot Road Savanna, IL 61074-9639

Dear Mr. Dauphin,

Here is your record search for the formerly used defense sites in order of request. I checked the whole sections of all the areas even if your mapped APE did not cover it so that you would have a better idea of any cultural resources nearby. For a complete bibliography listed by NADB numbers, see the enclosed bibliography.

1) PBR N-3/PBR #44 USGS Hinkley 7.5' Quad

There are no recorded sites within T10N R3W Sec 8, however, there are two reports covering that area numbered NADB 1061035 & 1061479 in the bibliography. There are many prehistoric sites in the vicinity including Black & Inscription Canyon Rock Art District which is currently being nominated to the National Register.

- 2) PBR #3 USGS Fairview Valley 7.5' Quad
 There are two lithic reduction sites in T6N R2W Sec 27, 28, 33, 34 designated SBR-2132 & SBR-2135. There are no reports recorded within the project area.
- 3) PBR #4 USGS Apple Valley South & Fifteenmile Valley 7.5' Quads
 There are no recorded sites in T4N R2W Sec 5, 6, 7, 8. Two reports, 1060629 & 1062515, are inside the APE and four reports, 1060240, 1060900, 1060901 & 1062158, skirt the SE corner of Sec 8.
- 4) PBR #5 USGS West Ord Mtn 7.5' Quad (APE is not on USGS Stoddard Well) There are no sites and no survey reports for T6N R1W Sec 4.
- 5) PBR #6 USGS Lucerne Valley & White Horse Mtn 7.5' Quads
 There are no sites recorded For T5N R1W Sec 22, 23, 26, 27. One pipeline report, 1060046, passes through the APE.
- 6) PBR #9 USGS Fry Mtn & Grandview Mine 7.5' Quads
 There are no sites and no surveys recorded for T5N R2E Sec 2, 3 & T6N R2E Sec 34, 35.
- 7) PBR #10 USGS Old Woman Springs 7.5' Quad

 There is one lithic scatter, SBR-1883, and no reports recorded in the T4N R2E Sec 1, 12

 & T-1N R3E Sec 6, 7.
- 8) PBR #11 USGS Fry Mtn & Iron Ridge 7.5' Quads
 There is one isolate on the Fry Mtn Quad and three isolates on the Iron Ridge Quad. All are flakes. Two reports cross the APE, 1060240 & 1063065.

- 9) PBR #12 USGS Melville Lake 7.5' Quad There are no sites recorded for T4N R4E Sec 5 & T5N R4E Sec 32, however, ther are two reports, 1062257 & 1060956.
- 10) PBR #14 USGS Galway Lake & Iron Ridge 7.5' Quads There are no recorded sites in T6N R5E Sec 30, however, there is rock art recorded in the vicinity. Two reports, 1060701 & 1062257, are in the APE.
- 11) PBR #15 USGS Emerson Lake & Melville Lake 7.5' Quads
 There are no sites or surveys within T4N R5E Sec 30, 31. Report 1062257 is adjacent to the APE on the west.
- 12) PBR #16 USGS Emerson Lake & Melville Lake 7.5' Quads
 There are no sites in T4N R5E Sec 6 & T5N R5E Sec 31. There is one report, 1060956, on the Emerson Lake Quad.
- 13) PBR #19 USGS Joshua Tree North 7.5' Quad

 There is one pending military site dead center of T2N R6E Sec 26, 27 designated P10311H. A pending site is one that has not been formally recorded, but we have some information on. One report, 1061724, in in the APE.

None of these areas has been well surveyed, however, I noted "abandoned target" on some of the maps within the APE. Also, you might check the old George AFB records (previously known as Victorville Army Airfield) for more information. Someone talked to my father-in-law last year about some of the areas. He was stationed there in 1945-7.

If you have any further questions, please, call me at (909) 792-1497 Tuesday through Friday between 8 AM & 4 PM. Have a great day!

Sincerely,

Robin E. Laska Acting Coordinator



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ventura Fish and Wildlife Office 2493 Portola Road, Suite B Ventura, California 93003

December 19, 1997

Director
Defense Ammunition Center
Attn: SIOAC-ESL (R.Hale)
3700 Army Depot Road
Savanna, Illinois 61074-9639

Subject:

Species List for the Former Victorville Precision Bombing Range, San Bernardino

County, California

Dear Mr. Hale:

This letter is in response to the Department of the Army's (DOA) request, dated November 10, 1997 and received by us on November 17,1997, for information on listed, proposed, and candidate species that may occur in the vicinity of the former Victorville Precision Bombing Range in San Bernardino County, California. The Army's Defense Ammunition Center is assisting the U.S. Army Corps of Engineers in assessing formerly used defense sites for potential contamination by ordnance and explosives.

The threatened desert tortoise (*Gopherus agassizii*) occurs in the vicinity of the Victorville Precision Bombing Range. Critical habitat for the desert tortoise has been designated and portions of the bombing range occur within the Ord-Rodman critical habitat unit. No species proposed for listing or candidate species occur within the area of the bombing range.

This letter fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act). If the subject project may affect a listed species, the DOA has the responsibility to prepare a biological assessment if the project is a construction project which may require an environmental impact statement. If a biological assessment is not required, the DOA still has the responsibility to review its proposed activities and determine whether the listed species will be affected.

During the assessment or review process, the DOA may engage in planning efforts, but may not make any irreversible commitment of resources. Such a commitment could constitute a violation of section 7(d) of the Act. If a threatened or endangered species may be affected, the DOA should request, in writing through our office, consultation pursuant to section 7 of the Act.

Informal consultation may be used to exchange information and resolve conflicts with respect to threatened or endangered species prior to a written request for formal consultation.

Should you have any questions, please contact Denise Washick of my staff at (805) 644-1766.

Sincerely,

Diane K. Mode

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Diane K. Noda Field Supervisor

¹ "Construction Project" means any major Federal action which significantly affects the quality of the human environment designed primarily to result in the building or erection of man-made structures such as dams, buildings, roads, pipelines, channels and the like. This includes Federal actions such as permits, grants, licenses, or other forms of Federal authorizations or approval which may result in construction.

Listed Species in SAN BERN COMMON NAME	NARDINO County SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
BALD EAGLE SWAINSONS HAWK YUMA CLAPPER RAIL WESTERN SNOWY PLOVER WESTERN YELLOW BILLED CUC ELF OWL GILA WOODPECKER WILLOW FLYCATCHER CALIFORNIA GNATCATCHER ARIZONA BELLS VIREO LEAST BELLS VIREO	HALIAEETUS LEUCOCEPHALUS BUTEO SWAINSONI RALLUS LONGIROSTRIS YUMANENSIS CHARADRIUS ALEXANDRINUS NIVOSUS KOO COCCYZUS AMERICANUS OCCIDENTALIS MICRATHENE WHITNEYI MELANERPES UROPYGIALIS EMPIDONAX TRAILLII POLIOPTILA CALIFORNICA VIREO BELLII ARIZONAE VIREO BELLII PUSILLUS	Threatened None Endangered Threatened None None None Threatened None Threatened None Endangered	Endangered Threatened Threatened None Endangered Endangered Endangered Endangered Endangered Endangered None Endangered Endangered
MOHAVE TILL CHUB		Endangered Threatened Sp of Concern (C2) Endangered Threatened	Endangered Endangered Threatened Threatened Threatened Threatened None None
PARISH'S DAISY MOHAVE TARPLANT NEVIN'S BARBERRY SAN BERNARDINO MTNS BLADD GAMBEL'S WATERCRESS SLENDER-PETALED THELYPOD CUSHENBURY MILK-VETCH PARISH'S CHECKERBLOOM BIRD-FOOTED CHECKERBLOOM THORNE'S BUCKWHEAT CUSHENBURY BUCKWHEAT CUSHENBURY OXYTHECA SLENDER-HORNED SPINEFLOW SANTA ANA RIVER WOOLLYST THREAD-LEAVED BRODIAEA	RORIPPA GAMBELLII IUM THELYPODIUM STENOPETALUM ASTRAGALUS ALBENS SIDALCEA HICKMANII SSP PARISHII SIDALCEA PEDATA ERIOGONUM ERICIFOLIUM VAR THORNE ERIOGONUM OVALIFOLIUM VAR VINEUM OXYTHECA PARISHII VAR GOODMANIAN. ER DODECAHEMA LEPTOCERAS	Endangered Endangered Endangered Candidate Endangered I Sp of Concern (C1) Endangered A Endangered Endangered	None Endangered Endangered None Threatened Endangered None Rare Endangered Endangered None None Endangered Endangered

Ordnance and Explosives
Archives Search Report
for
Victorville Precision Bombing Range #19
San Bernardino County, California
Project Number J09CA068500

APPENDIX G

REAL ESTATE DOCUMENTS

APPENDIX G

REAL ESTATE DOCUMENTS

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- G-1 Public Land Order 125, 20 May 1943 (B-35)
- G-2 Eng Form 1128, Warning Notice, 6 February 1946 (B-36)
- G-3 Eng Form 1128, Warning Notice, 13 May 1946 (B-37)
- G-4 Eng Form 1128, Warning Notice, 19 August 1946 (B-38)
- G-5 WAA Form 1005, Declaration of Surplus Property, 3 March 1948 (B-39)
- G-6 Quitclaim Deed, United States of America to Norman M. Imbertson and Cora E. Imbertson, 7 July 1949 (B-40)
- G-7 San Bernardino County Assessor's Map, 23 June 1992 (B-41)
- G-8 San Bernardino County Parcel List, 1998 (B-42)

CALIFORNIA

O P

WITEDRAWING PUBLIC LANDS FOR USE OF THE WAR DEPARTMENT AS BOMBING TARGET SITES

By virtue of the Authority vested in the President and pursuant to Executive Order No. 9337 of April 24, 1943: IT IS ORDERED, As follows:

Subject to valid existing rights, the public lands in the following-described areas are hereby withdrawn from all forms of appropriation under the public-land laws, including the mining and mineral-leasing laws, and reserved for the use of the War Department as bombing target sites:

San Bernardino Meridian

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T. 5 N., R. 1 W.,
                                     T. 5 N., R. 2 E.,
  Sec. 22, E1/25W1/4 and SE1/41
                                       800. 2, lot 4, SW1/4M71/4:
  Sec. 23, W1/28W1/Lt
                                       Sec. 5, lots 1, 2, 3, 81/2881/4, and 881/4871/
  600. 26, M1/2MM1/4:
                                     7. 6 No. R. & B.,
  Sec. 27, NEI/4 and E1/2NAI/4.
                                       800. 34, B1/2881/4 and SE1/4:
T. 6 N., R. 1 W., Sec. L.
                                       Sec. 35, W1/28/1/4.
T. 4 N., R. 2 W.,
                                     T. 4 N., R. 3 E.,
                                     Sec. 6. S1/28W1/4 and EW1/45B1/4:
  Sec. 5, 841/41
                                       800. 7, W1/2 ME1/4, MV1/4, W1/25W1/4, and MV1/45B1/4.
  Sec. 6, 881/4:
  Sec. 7. NE1/41
  Sec. 8, 1871/4:
                                     T. 6 H., R. 3 B.,
                                       504. 35. E1/21
T. 6 N., R. 2 N.,
  Sec. 27. 81/28#1/4:
                                       Sec. 36, W1/2.
  Sec. 28, 81/2881/4:
                                     To B No. R. 4 E., Sec. 6
  Sec. 33, NEI/4 and NI/28EI/4:
                                     T. 4 N., R. 4 N., Sec. 5, N1/2.
  Sec. 34, NW1/4 and W1/28W1/4.
                                     T. 5 N., R. 4 E., Sec. 32, 81/2.
T. 5 N., R. 3 W., Sec. 12.
                                     T. 4 N., R. 5 R.
T. 6 N., R. 3 W., Sec. 21.
                                       Sec. 30, $1/2, unsurveyed.
                                       Sec. 31, HI/2, unsurveyed.
T. 4 N., R. 1 B.,
Sec. 21, E1/2.
                                    T. 6 N., R. 5 N., Sec. 30.
  Sec. 22, W1/2.
                                   * T. 2 N., R. 6 E.
T. 5 N., R. 1 B.,
                                       800. 26, W1/2:
  Sec. 4, SEL/41
                                       Sec. 27, E1/2.
                                    T. 4 N., R. 6 E., Sec. 29.
  Sec. 9, REL/4:
                                    T. 3 N., R. 6 E.,
  Sec. 10, M/1/4;
                                       Sec. 24, 831/4:
T. 4 N., R. 2 E.,
Sec. 1. SEI/4SEI/4:
                                       Sec. 25, 121/4.
                                    T. 3 H., R. 7 B.,
  Sec. 12, E1/2MEI/4 and NEI/4SEI/4. Sec. 19, SWI/4:
                                      860. 30, NW1/4.
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^{*} Lands covered by this report.

The areas described, including both public and non-public lands, aggregate 11,560.08 acres.

This order shall take precedence over, but shall not rescind or revoke, the withdrawal for classification and other purposes made by Executive Order No. 6910 of November 26, 1934, as amended, so far as such order affects the above-described lands.

It is intended that the public lands described herein shall be returned to the administration of the Department of the Interior, when they are no longer needed for the purpose for which they are reserved.

ARE FORTAS, Acting Secretary of the Interior

May 20, 1943.

(F. R. Doc. 43-8566; Filed, May 27, 1943; 9:34 a.m.)

ARMY SERVICE FORCES MXXXXXXXXXXXXX OFFICE OF THE CHIEF OF ENGINEERS REAL ESTATE.

DATE 6 Feb 1946

	(Continental United States)
CHIEF.	R OF REAL ESTATE, OFFICE OF THE CHIEF OF ENGINEERS ** PLANNING BRANCH, ACQUISITION DIVISION, REAL ESTATE, O.C.E.
CHIEF.	REALTY CONTROL BRANCH, REQUIREMENTS DIVISION, REAL ESTATE, O.C. L.
CHIEF	WANAGEMENT AND DISPOSAL DIVISION. REAL ESTATE, O. C. E.
CHIEF,	ANAGEMENT BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.
CHIEF.	DISPOSAL BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.
CHIEF,	OFFICE SERVICE DIVISION, WO.C. E. W(Surplus Properties)
DIRECTO	R OF MILITARY CONSTRUCTION, O.C. E. Attention: Mr. Gates REDISTRIBUTION & BALVAGE DIVISION, READJUSTMENT, O.C. E.
CHIEF	Attention: Major Walker
CRIEF	MILITARY RESERVATION DIVISION, OFFICE OF JUDGE ADVOCATE GENERAL,
· · · · · · · · · · · · · · · · · · ·	(ound) to Government Owned Properties
DIVIBIO	N ENGINEER, PACIFIC DIVISION, Attention: REAL ESTATE OFFICER,
	For Information Cnly
	C Polymont 1946 that affective
1.	Notice was received on 6 February 1946 that, effective
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INACTIVE	STANDBY EXCESS SURPLUS X REESTABLISHED REDISTRIBUTED
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and the second s	Location nearest: Victorville (City)Bernardino (County) Calif. (State)
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	* W.D. Public Lesser Acreage: Total Owned Lands Interests Leased Y Portion of Installation
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2.	* W.D. Public Lesser Acreage: Total Owned Lands Interests Leased Entire Installation X Portion of Installation Land Only Land and Improvements X Improvements Only Industrial Installation Command Installation Property Used By A.T.S.C. For Bombing Targets Proposed disposition and remarks: * Correct Area to be determined.
2.	* W.D. Public Lesser Acreage: Total Owned Lands Interests Leased Entire Installation X Portion of Installation Land Only Land and Improvements X Improvements Only Industrial Installation Command Installation X Property Used By A.T.S.C. For Bombing Targets Proposed disposition and remarks: * Correct Area to be determined. Declaration covers Bombing Targets Nos. 1, 2, 3, 4, 5, 7, 10 11, 11, 13, 14, 16, 17, 18, 19 and 20, Demolition Target "Y" (1), and
2.	* W.D. Public Lesser Acreage: Total Owned Lands Interests Leased Entire Installation X Portion of Installation Land Only Land and improvements X Improvements Only Industrial Installation Command Installation X Property Used By A.T.S.C. For Bombing Targets Proposed disposition and remarks: * Correct Area to be determined. Declaration covers Bombing Targets Nos. 1, 2, 3, 4, 5, 7, 10 11, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18

ENG FORM 1128

ARMY SERVICE FORCES
OFFICE OF THE CHIEF OF ENGINEERS
REAL ESTATE

DATE 18 May 1946

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WARNING NOTICE

(Continental United States)

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RSE, S.P.	B.A M. Public	land ecquire	d by transf	er under P.	4.00 125.		
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WAR DEPARTMENT FORFICE OF THE CALEFA OF SENGINEERS RATES OF THE CALEFA OF SENGINEERS

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	East March Last 1				
TO: NDIRECTO	R OF REAL ESTATE.	OFFICE OF THE C	HIEF OF TENGINEER	SALAR MARKET	TATION SOL
CHIEF,	PLANNING BRANCH,	ACQUISITION DIVI	SION, "REAL" ESTAT	ENO.C.E.	
CHIEF,	REALTY CONTROL BR	anch, Requirement	18 DIVIBION, TREA	LESTATE, O.C.	
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	(Surp us cotorume	ne-grade and a contraction of the	Company and the		
DIVISIO	N ENGINEER WELL	i factate Div	BION, Attention	TEREAL ESTATE	OFFICER, NAME OF
	for Intorial on o	1117			
	Algorites and rege	ved fon		437.64 (1661-36	
		Call Service of the control of		建筑。在1000年,1000年	
		the following de	scribed property	has been clas	silled As
		Control of the Contro			and the same of th
INACTI VE	STANDBY EX	CESSSURPLU	JS 7 REESTABL	ISHEDRED	ISTRIBUTED
		ation: Tickare	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	かん 大型本文 ロータイン・ディッグ くつの オップ 単純ない 中華	STATE OF THE PARTY
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	Location neares	t: Victorville		4m (County)	alifæ (State)
	The same of the sa	W.D.	Public Less	erange	\$ \$ *** *** *** *** *** *** *** *** ***
- Anna Carlotte Control	Acreage Total	660 Owned 320		rests - Le	sed 3
				# 7.5 7.84	
	Entire Installa	Lion	Portion of	marau e e ou e	
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		and and impro	16 18 14 1. L. 12 14 18	HE W. B. A. A.	
	r Industrial Inst	allation	Command In	staliation	
		7			
	Property Used B		For Bombs	ng leres Site	
			100	Ant -4 5/1 1/m	1017
	***Froposed dispus	ition and remarks			
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400 TEA		$\sim 10^{-1}$
	torville Airf 'ld(Bombing Target l	9) Californi ENGIT
WA4 Form 1005 (5-20-46) V	UNITED STATES OF AMERICA NAR ASSETS ADMINISTRATION	Form approved. Budget Bureau No. 16 R005.3.
हुद्धि उठ्यम	OH OF SUPPLIES REAL PROPERTY	9. DATE > Ma1 1948
,	ETS ADMINISTRATOR, WASHINGTON 25, D. C.Y.	10. REPORTING AGENCY NO.
	IMPORTANT .	/ WD 1276
	NS ON REVERSE FOR COMPLETING THIS FORM	WCalf. 258 L
REPORTING AGENCY	DEPARTMENT OF THE ARMY CORPS OF ENGINEERS	12. Disposal Agency No.
• PROPERTY IDENTIFICATION	WASHINGTON 25. D. C.	13. REPRESENTATIVES TO CONTACT
	San Bernardino County, Californi mately 55 miles east and 22 miles	Division Engineer, South Pacific Divn, Corps of Engrs, Dept of the
south of	i Victorville, California	Army, Cakland Army Base, Cakland 14
	and the same of the same of the same	Calif. Tel: TW /100 (See Blk 13 Sch
. USE OF PROPERTY PRIOR TO	The state of the s	14. LOCATION OF TITLE PAPERS
Semi ar:	id grazing land	219
"TINION OF BEST FUTURE US	is v	
Grazing	land possible winter home sites	15. COST OF PROPERTY
DATE OF ACQUISITION		ACQUISITIONS \$ 800.00
PRIOR TO 1/1/40	MIXED SUBSEQUENT TO 12/31/39 📆	BETTERMENTS \$ 3,180,00
FOMMER OWNER		15. PROCEEDS
See Bloo	ck 8 Schedule D	
	VICTORVILLE, CALIFOR	طعيد اسا
is nered	stallation as portrayed and describ by declared surplus in its entirety	7•
Is nered. The area	stallation as portrayed and describ by declared surplus in its entirety consists of 320 acres Public Doma and acquired at a cost to the Gover	of land and 320 some and
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The area owned la	DO NOT FILL IN ASSIGNED TO (SIGNATURE)	in land and 320 acres for ment of \$800, 17. AUTHORIZED BY Chief of Engineers: SIGNATURE OF REPORTING OFFICIAL) Chief, Management & Disposal Division

VICTORVILLE BOMBING TARGET SITE 19 VICTORVILLE, CALIFORNIA

WAA-1005

ESTIMATED COST OF GOVERNMENT IMPROVEMENTS.

BLOCK 8 SCHEDULE C

	Description				E	t. Total Cost Owned Land (Fee)	
	Road Grading Grading Target Area Oiled Surface Stripes Asphalt Clearing Fire Breaks		•			710.00 1,160.00 600.00 650.00 60.00	
* * * * * * * * * * * * * * * * * * * *		Total	•	•		3,180.00	
	The Government spent the foll not exist at this time on the	owing sums	for	items	lis	ted which do	
	Gate, 4' x 12' Fencing Target Structure (wood)		,		*	50.00 635.00 200.00	
		Total	<u>.</u>	•	\$	885.00	

V TORVILLE BOMBING TARGET SITE 19 VICTORVILLE, CALIFORNIA WAA-1005

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ENG FORM	6 1294		BLOC	< 8 - S	SCHEDUI	E D		Viotorvi	lle, California	
					А	cwisit	ION	TITLE	LOCATION OF LAND	
ORIGINAL TRACT NUMBER	NAME AND ADDRESS OF FORMER OWNER (2)	ORIGINAL ACREAGE	ORIGINAL COST (Estimated If not though of though of though of the ACREASE DECLARED SURPLUS	ACREAGE REPORTED FOR DISPOSAL	(9) DATE	(P) PURCHASE (2) (D) DECLARATION OF TAKING	CHARACTER OF INTEREST HELD BY GOV'T. (F) Fee (0) Other (L) Leasehold (E) Easenent	(A) ABSTRACT (C) CERTIFICATE TITLE	NAME AND ADDRESS OF TITLE OR ABSTRACTING COMPANY (10)	OUTSTANDING INTEREST (including those granted b the Governme
192	Public Domain Land	320	-	320	5-20- 1913					Public Land Order 125 See Block 8 Schedule F.
197	Southern Pacific	320	\$3 00	320	1913			G	Pieneer Title Insurance and Trust Company San Bernardino, California	See Block 8 Schedule D-1
	-									
		Company of the Compan		To the desiration of the state						

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VICTORVILLE BOMBING TARGET SITE 19 VICTORVILLE, CALIFORNIA

WAA-1005

BLOCK 8 SCHEDULE E

Narrative Report

Victorville Bombing Target Site 19 is located approximately 55 miles east and 22 miles south of Victorville, California.

The area consists of 640 acres acquired in accordance with Public Land Order No. 125 dated 20 May 1942, subject to valid rights which effect 320 acres.

The target consisted of an hexagonal shaped, fenced and cleared area of approximately 900° to each side and has three concentric circular rings of field-mix oil surfacing with a frame target in the center. All moveable improvements including the fence have been removed by vandals.

The target is located at an approximate elevation of 2600* above mean sea level. The terrain is fairly uniform with a slepe to the northeast. The land is semi arid desert. Cattle grasing is probably the highest possible use with the possibility that the area will be developed for winter home sites.

BLOCK 8 SCHEDULE R

QUITCLAIM DEED

THIS INDENTURE made this 7th day of	July	19 Li9, between the
UNITED STATES OF AMERICA, acting by and through the Fed dated January 31, 1946 (11 F. R. 1265); the powers and authority Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); I Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and	eral Farm Mortgage Corporation, under and contained in the provisions of the Surplus Po Regulation No. 1 of the War Assets Adminis	pursuant to Executive Order 9009, roperty Act of 1944 (58 Stat. 765); stration, as amended; Order of the
1945 (10 F. R. 4694); party of the first part, and Norman M.		
1945 (10 r. n. 4099), party of the mot party and		
of Los Angeles , County of	Los Angeles , and State of.	California
party of the second part, WITNESSETH: That the said party of the first part, for and	in consideration of the sum of ONE THO	USAND FIVE HUNDRED
ONE AND 20/100		Dollars (\$1,501,20),
of the United States of America, to it in hand paid by the said premised, released and forever quitclaimed, and by these presents	party of the second part, the receipt of W	hich is hereby acknowledged, has
tion of sissionable materials and rights hereinaster set out, unto	the said party of the second part,their	heirs and assigns, all that certain
piece or parcel of land situate, lying and being in the County of described as follows, to-wit:	•	
The East half of Section 27, Township 2 N in the County of San Bernardino, State of	orth, Range 6 East, SAN BER California, according to G	NARDINO BASE AND MERIDIAN,
Subject to easements and rights of way no	w existing or reserved.	
Subject also to the following:		به بالمس

The property hereinbefore described was declared surplus to the needs of the United States of America pursuant to the provisions of the Surplus Property Act of 1944 (58 Stat. 765) as amended; and War Assets Administration Regulation No. 1 as amended (11 Fed. Reg. 408); that said property was a part of Bombing Target No. 19 of Victorville Army Airfield, a military installation, used in part as a training and maneuvering area for combat troops, portions of which area were subjected to contamination by the introduction of unexploded and dangerous bombs, shells, rockets, mines, and other charges, either below or upon the surface thereof; that the Party of the First Part, by and through the Corps of Engineers, War Department, has caused the 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 economic limitations, and has made certain recommendations pertaining to the use to which the land may be devoted; that the said recommendations are contained in a certificate, copy of which is attached and made a part hereof; that the Party of the First Part by attaching such certificate does not intend to make, nor shall it be construed to have made, any representations or warranties pertaining to the condition of the land; and that the Party of the Second Part has evinced their desire to purchase such property with full knowledge of, and notwithstanding the foregoing recitals which are incorporated for the purpose of disclosing to the Party of the Second Part the former use made of the property hereinbefore described.

Subject also to the following:

Excepting and reserving to the United States of America, in accordance with Executive Order No. 9908, approved on December 5, 1947 (12 F. R. 8223), all uranium, thorium, and all other materials determined pursuant to section 5 (b) (1) of the Atomic Energy Act of 1946 (60 Stat. 761) to be peculiarly essential to the production of fissionable material, contained, in whatever concentration, in deposits in the lands covered by this instrument are hereby reserved for the use of the United States, together with the right of the United 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 damage or injury occasioned 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 such material from the land in quantities which may not be transferred or delive without a license under the Atomic Energy Act of 1946, as it now exists or may hereafter be amended, such material shall be the property of the Uni States Atomic Energy Commission, and the Commission may require delivery of 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 to the person mining or extracting the same, or to such other person as the Commission determines to be entitled thereto, such sums, including profits, as the Commission deems 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 amount 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.

Together with all and singular the tenements, hereditaments, and appurtenances thereunto belonging, or in any wise appertaining and the reversion and reversions, remainder and remainders, rents, issues, and profits thereof; and also all the estate, right, title, interest, property, possession, claim and demand whatsoever, as well in law as in equity, of the said party of the first part, of, in, or to the foregoing described premises, and every part and parcel thereof, with the appurtenances, excepting the fissionable materials and rights excepted and reserved above.

Said land was duly declared surplus and was assigned to the Federal Farm Mortgage Corporation as disposal agency, pursuant to the provisions of the above-mentioned Act, Regulation and Orders.

TO HAVE AND TO HOLD all and singular the said premises, together with the appurtenances, unto the said party of the second part, and to

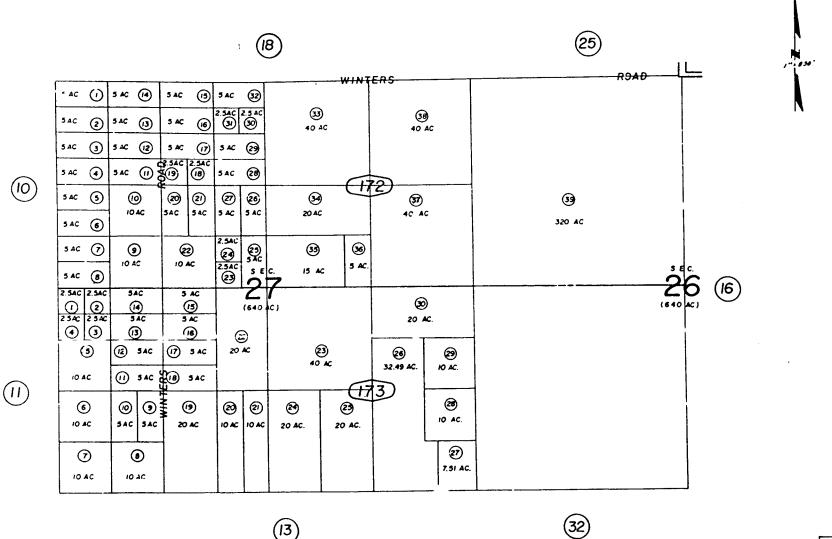
	99	10
ion, and the seal of said Corporation to be hereunto affixed th	is. 7th day of July	, 19. 49
(Corporate Seal)	UNITED STATES OF AM	ERICA
	By Federal Farm Mortgage	Corporation
Assistant Secretary	By.S∕ R. H. Billing V	ice President
STATE OF CALIFORNIA SS COUNTY OF ALAMEDA	a Notary Public in and for said State and Coun	ty aforassid do certif
-,		
hat on this	July , 194.9	, before me appeared
From Montanae Corporation who being by me duly swo	, to me personally known, and known to me to be Vice I orn did say that he is such officer; that the seal affixed to by order of the Board of Directors of said Corporation and sealed by him for said Corporation on behalf	the foregoing deed indicated the
same to the instrument by like order; that said deed	d the execution of said deed to be his free act and deed a deral Farm Mortgage Corporation, and the free act and deed	s such omeer, the nee
name to the instrument by like order; that said deed of America; and that said Vice President acknowledge oct and deed of the United States of America by the Fe Mortgage Corporation acting for the United States of Am IN WITNESS WHEREOF, I hereunto set my hand	d the execution of said deed to be his free act and deed a deral Farm Mortgage Corporation, and the free act and deed	of the Federal Farm
name to the instrument by like order; that said deed of America; and that said Vice President acknowledge cut and deed of the United States of America by the Fe Mortgage Corporation acting for the United States of Am IN WITNESS WHEREOF, I hereunto set my hand written.	ed the execution of said deed to be his free act and deed a deral Farm Mortgage Corporation, and the free act and deed a nerica. and seal at Berkeley, in the County and State aforesaid, or	of the Federal Farm
name to the instrument by like order; that said deed of America; and that said Vice President acknowledge oct and deed of the United States of America by the Fe Mortgage Corporation acting for the United States of Am IN WITNESS WHEREOF, I hereunto set my hand	ed the execution of said deed to be his free act and deed a deral Farm Mortgage Corporation, and the free act and deed a nerica. and seal at Berkeley, in the County and State aforesaid, or	of the Federal Farm

UNITED STATES OF AMERICA

W. 1/2 Sec. 26 & Sec. 27, T.2 N., R.6 E., S.B.B.& M.

631-17 Morongo Unified Tax Rate Firea 94070





(13)

Assessor's Map Book 631, Page 17 San Bernardino County

REVISE 1/11/72 6 6/23/92 G



	INO COUNTY PARCEL LIST BY PARCEL NUMB	QUICK BELIEVES THE INFORMATION BELOW TO BE CORRECT, B THIS INFORMATION IS LEASED FROM, AND REMAINS THE				98 EDITION	
NCEL	OMMERS NAME(S) HAILING ADDRESS SITUS ADDRESS PROPERTY DESCRIPTION	PHONE USE CODE HT/AC ZIP TRACT YB PARK PROPERTY TYPE LOT BLK POOL LEGAL DESCRIPTION		SQ FT LOT SZ MUN ROOF	1ST TD 2ND TD TAXES FP	LAND VAL IMPR VAL ASSD VL VIEW	REC DATE DOC NO TFR VAL EX
31-172-25	DEL VALLE BARBARA J 122 PELICAN LN+GUADALUPE CAVACANT	93434 RECREATIONAL E 1/2 SE 1/4 SE 1/4 NW 1/4 SEC 27 TP 2N R 6E EX MN		5.00A	126	3,668 3,668 Y	NOSTRAN
631-172-2 <i>6</i>		92284 RECREATIONAL E 1/2 NE 1/4 SE 1/4 NN 1/4 SEC 27 TP 2N R 6E EX MN		5.00A	120	3,257 3,257	06/13/97 211199 10,000f
31-172-27	CAMPBELL ERVIN R & VIRGINIA STONEMALL #7+IRVINE CA			5.00A	115	2,886 2,886	NOSTRAN
631-172-21	268 SMITH ST+OXNARD CA	93033 RECREATIONAL 5 1/2 SE 1/4 NE 1/4 NM 1/4 SEC 27 TP 2N R 6E EX MN		5.00A	117	2,994	NOSTRAN
K31-172-2	VACANT 9 JENSEN,CHESTER A 8 MARIE M 22917 OXMARD ST≎MOODLAND HILLS CAVACANT			5.00A	117	2,994 2,994 Y	07/05/84 158340 NOSTRAN
631-172-3		99208 RECREATIONAL SE 1/4 NE 1/4 NE 1/4 NE 1/4 SEC 27 TP 2N R 6E EX M		2.50A	74	2,396 2,396 Y	NOSTRAN
छा-१७८-३		91773 RECREATIONAL SW 1/4 NE 1/4 NE 1/4 NW 1/4 SEC 27 TP 2N R 6E EX M	-	2.50A	79	2,769 2,769 Y	09/07/90 358903 2,500f
1631-172-3	•	93552 RECREATIONAL N 1/2 NE 1/4 NE 1/4 NN 1/4 SEC 27 TP 2N R 6E EX MN		5.00A	6,000 115		02/08/ <i>89</i> 45218 7,000f
831-172-3		90034 RECREATIONAL NM 1/4 NE 1/4 SEC 27 TP 2N N 6E 40 AC		40.00A	844	18,075 18,075	04/24/92 174462 NOSTRAN
X31-172-3		90034 RECREATIONAL N 1/2 SW 1/4 NE 1/4 SEC 27 TP 2N R 6E 20 AC		20.00A	422	9,011 9,011	04/24/92 174463 NOSTRAN
X31-172-		92084 RECREATIONAL W 1/2 E 1/2 S 1/2 SW 1/4 NE 1/4 AND W 1/2 S 1/2 SV		15.00A	405	13,356 13,356 13,356	05/01/84 101492 NOSTRA

DA I /	AQUICK TION SYSTEMS	THI	1997 COPYRICLIEVES THE INFO S INFORMATION	DRMATION	BELOW T	O BE	CORRECT,	BUT D	OES NOT 1	HARRANT I	TS ACCURA	CY.
AN BERNAR	DINO COUNTY PARCEL LIST BY PARCEL N	UMBER								19	98 EDITIO	N
ARCEL	OWNERS NAME(S) MAILING ADDRESS SITUS ADDRESS PROPERTY DESCRIPTION	LEGAL	PHONE ZIP PROPERTY TYPE DESCRIPTION	TRACT	USE CO YB LOT	BLX	HT/AC PARK POOL	BR BA RC ST	SQ FT LOT SZ #UN RGOF	1ST TO 2ND TD TAXES FP	LAND VAL IMPR VAL ASSD VL VIEW	REC DATE DOC NO TER VAL EX
<u>खा-17ट-</u> उ	6 YABOR NORMAN E 3563 MOTOR AVEMLOS ANGELES CA		90034		000				5.00A		4,089	
	VACANT	£ 1/2	RÉCREATIONAL E 1/2 S 1/2 SW	1/4 NE 1	/4 SEC	27 TF	2N R 6E			131	4,089	HOSTRAN
631-172-3	NORRIS, DON B & KAREN R 1056 HEATHER DROVISTA CA		92084		000				40.00A		20,400	05/01/84 101491
	VACANT	SE 1/4	RECREATIONAL NE 1/4 SEC 27	TP 2N R	6E				40.00A	875	20,400	NOSTRAN
31-172-3			****		000						25,951	08/13/87
	660 NM 20TH AVE #115-GRAND RAPIDS		55744 RECREATIONAL NE 1/4 SEC 27	TD 24 B	A.E				40.00A	949	25,951	280599 NOSTRAN
31-172-39	GOVERNMENT LAND				000					···	· · · · · · · · · · · · · · · · · · ·	·
	#FILE*	u 1/2	INSTITUTE/ANNU SEC 26 TP 2N R									NOSTRAN
31-173-01		W 172	SEL 20 IF 2N K	OK 32U A	000						2,139	08/27/96
	1613 E CHERRY AVE-LOMPOC CA	444	93436 RECREATIONAL	444					2.50A	70	2,139	314593 7,000
331-173-02			NU 1/4 NU 1/4	SM 1/4 \$	000		N OF EX M		·- ·		2,139	05/19/95
	PO BOX 2236+TACOMA WAVACANT		\$8401 PECREATIONAL NW 1/4 NW 1/4	SW 1/4 SI		P 2N	R 6E EX M		2.50A	70	2,139	176854 NOSTRAN
31-17 3- 03	GRAHERI, LEWIS H PO BOX 20594-LONG BEACH CA		90801		000				2.50A		2,057	
	VACANT	SE 1/4	PECREATIONAL NW 1/4 NW 1/4	SW 1/4 SI	EC 27 TF	P 2N	R 6E EX H		2.5UA	69	2,057	NOSTRAN
31-173-04					000						2,057	01/09/92
	PO BOX 20594+LONG BEACH CAVACANT	SW 1/4	90801 RECREATIONAL NW 1/4 NW 1/4	SW 1/4 \$1	C 27 TP	2N :	R 6E EX M		2.50A	69	2,057	8213 NOSTRAN
31-173-05	PALISADES, LUTHER 15905 W SUNSET BLVD+PACIFIC PALISA		90272		000				10.00A		8,500	07/03/96
	VACANT		RECREATIONAL NW 1/4 SW 1/4 :	SEC 27 11	2N R 6	SE EX	POIL RTS		10.00A	445	8,500	236528 NOSTRAN
31-175-06		ES A			000						5,297	
	5613 LONE STAR DRASAN DIEGO CA		92120 FECREATIONAL SW 1/4 SW 1/4 :	SFC 27 TF	2n R 6	e ex	MAK RTS		10.00A	485	5,297	NOSTRAN
31-173-07	BURAS EDWARD A ETAL				000						6,818	06/24/97
	736 REDONDO AVÉ*LONG BEACH CA		90804 RECREATIONAL SW 1/4 SW 1/4 :	EC 27 TA	24 B 4	5 EY	mm	•	10.00A	506	6,818	222949 NOSTRAN
	errogina i	3# 1/ 4	<i>a</i> = 1/ 7 38 1/ 4 3	ec er ir	4M M O	K 5.4	LEAT 1412					

AN BERNAR	DING COUNTY PARCEL LIST BY PARCEL NUMBE	THIS INFORMATION IS LEASE	, , , , , , , , , , , , , , , , , , ,		L PRO	reall or		98 EDITION	
PARCEL	OWNERS NAME(S) MAILING ADDRESS SITUS ADDRESS PROPERTY DESCRIPTION	PHONE 2IP TRACT PROPERTY TYPE LEGAL DESCRIPTION	USE CODE	PARK	BR BA RC ST	SQ FT LOT SZ #UN ROOF		LAND VAL IMPR VAL ASSD VL VIEW	REC DATE DOC NO TFR VAL EX
X31-173-1	9 GONZALEZ JULIAN G 8 DEBORAH 119 FOSTER LN-IRVÎNE CA	D 92618 RECREATIONAL	000			20.00A	9,000 839	20,488	07/26/90 294333 14,000f
	VACANT	W 1/2 SE 1/4 SW 1/4 SEC 27 TI	2N R 6E	EX MML RTS 2			037	Y	14,0007
831-173-2	D HOLMES, ROBERY E EYAL 19388 WYLER RD+LAKE MATTHEWS CA	92370 RECREATIONAL W 1/2 E 1/2 SE 1/4 SW 1/4 SE	000 27 TP 21	R SE EX POR		10.00A	485	5,297 5,297	06/19/97 217035 NOSTRAN
631-173-2	1 HOLMES, ROBERT E & ELON G 19388 WYLER RD+LAKE MATTHEWS CA	92370	000			10.00A		5,297	
	VACANT	RECREATIONAL E 1/2 E 1/2 SE 1/4 SW 1/4 SE	27 TP 21	N R 6E EX MNL			485	5,297	NOSTRAN
631-173-2	2 RASMUSSON, RICHARD & & DORA (22315 BLACK BEAUTY TRL+WILDOMAR CA	92595 RECREATIONAL	000			20.00A		20,488	07/17/90 278832
	VACANT	E 1/2 NE 1/4 SH 1/4 SEC 27 TI	2N R 6E	EX HNL RTS 2			576	20,488	18,500F
631-173-2	3 OLSEN, FRANKLIN B 421 HOLMMOOD DR+NEWPORT BEACH CA	92663 RECREATIONAL	000			40.00A	25,200	39,869	05/24/91 178154
	VACANT	NW 1/4 SE 1/4 SEC 27 TP 2N R	6E 40 AC				1,136	39,869	36,000f
k31-173-2	COURTNEY, EDWARD/C & O INVEST 22074 DE BERRY ST*GRAND TERRACE CA	PE 92313 RECREATIONAL	000			20.00A	772	15,470 15,470	04/04/97 119349 NOSTRAN
	VACANT	W 1/2 SW 1/4 SE 1/4 SEC 27 TI	2N R 6E	20 AC			,,,	.,,	10011001
1631-173 - 2	5 GOTTI, JOE W & PATRICIA A 2306 W HETZEL RD+IMPERIAL CA	92251 RECREATIONAL	000			20.00A	825	19,465	09/20/82 187337 10,750P
	VACANT	E 1/2 SW 1/4 SE 1/4 SEC 27 TI	ZN R 6E	20 AC			0.7	17,403	10,130
1631-173-Z	6 NORRIS,KAREN R 1056 HEATHER DR*VISTA CA	92084 RECREATIONAL	000			32.48A	989	17,728 17,728	NOSTRAN
	VACANT	SW 1/4 NE 1/4 SE 1/4 AND NW 1	/4 SE 1/4	SE 1/4 AND			,,,	,,,,,	10011001
631-173-2	7 TABOR, HABEL V TR 3630 MENTONE AVE+LOS ANGELES CA	90034	000			7.50A		3,930	04/24/92 174464
	VACANT	RECREATIONAL ELY 495 FT SE 1/4 SE 1/4 SE 1	/4 SEC 27	7 TP 2N R 6E			167	3,930	NOSTRAN
631 -173- 2	8 TABOR, MABEL V TR 3630 MENTONE AVE+LOS ANGELES CA	90034	000			10.00A		5,297	04/24/92 174465
	VACANT	RECREATIONAL NE 1/4 SE 1/4 SE 1/4 SEC 27 T	P 2N R 6	10 AC			223	5,297	NOSTRAN
631-173-2	9 YABOR, MABEL V TR 3630 MENTONE AVE+LOS ANGELES CA	90034	000	-		20.00A		5,297	04/24/92 174465
	VACANT	RECREATIONAL SE 1/4 NE 1/4 SE 1/4 SEC 27	P 2N R 61	E 10 AC			223	5,297 Y	NOSTRAN

			1997 COPTRIC LIEVES THE INFO S INFORMATION			-					98 EDITION	
N BERNARD	INO COUNTY PARCEL LIST BY PARCEL NUMBI	R										
ARCEL	OWNERS HAME(S) MAILING ADDRESS SITUS ADDRESS		PHONE ZIP PROPERTY TYPE DESCRIPTION	TRACT	USE YB LOT	CODE BLK	HT/AC PARK POCL	BA RC ST	SQ FT LOT SZ #UN ROOF		LAND VAL IMPR VAL ASSD VL VIEW	REC DATE DOC NO TFR VAL EX
	PROPERTY DESCRIPTION	LEGAL I	DESCRIPTION									67.73 7.63
631-173-30	TABOR, HABEL V TR 3630 MENTONE AVE+LOS ANGELES CA	N 1/2 /	90034 RECREATIONAL NE 1/4 SE 1/4	esc 27	000 TP 2N I	AF 20	AC		20.00A	422	9,011	04/2 -/92 - , 4465 NOSTRAN
	VACANT	# 1/2	NE 1/4 JE 1/4	JEC 2.								02/17/95
631-181-02	SCOEFFEL GEORGE J TR 10649 MEADOW GLEN WAY*ESCONDIDO CA	4.2	92026 RECREATIONAL SW 1/4 SW 1/4	eu 1/4	000		m AF 5 AC		5.00A	ಟ	2,513 2,513	51070 NOSTRAN
	vacant	# 1/2 ·	38 1/4 38 1/4	3H 174							- V 181	02/10/89
631-181-03	MURPHY HELODY K ETAL & GEOR 1940 MESA HAY+SANTA ROSA CA		95407 RECREATIONAL		000				5.00A	79	3,456 3,456	49440 NOSTRAN
	VACANT	\$ 1/2	NW 1/4 SW 1/4	SW 1/4	SEC 55	TP ZN	R SE S AC					
x31-181-04	KOLIBAS FAMILY L 2811 LEXINGTON AVE+EL MONTE CA		91733 RECREATIONAL		600				5.00A	199	3,798 2,864 6,662	05/09/97 166586 NOSTRAN
	-RECREATION CABIN	H 1/2	MU 1/4 SW 1/4	SW 1/4	SEC 22	TP 2N	R 6E EX M	I				
					600				408		6,685	
7631-181 - 05	14808 STANTON AVE-LA MIRADA CA		90638 RECREATIONAL SW 1/4 NW 1/4	eu 9.4			. AE 5. AE		5.00A	273	4,542 11,227	NOSTRAN
	RECREATION CABIN	\$ 1/2	2M 1/4 MM 1/4	3# 1/4			N 02 31 M					
3631-181-06					000							
	#FILE+VACANT	s 1/2	INSTITUTE/ANN NW 1/4 NW 1/4	NAL EXP SM 1/4	PT AND N	1/2 SW	1/4 MJ 1/4	•				NOSTRAN
3631-181-07	DURBIN MARY A & HENRY E				000						3,798	
101-161-160	170 SANTA CLARA CIR+HEMET CA		92543 RECREATIONAL NW 1/4 NW 1/4	eu 1/4	eer 22	TP 7M	n af fy M	t	5.00A	84	3,798	NOSTRAN
	VACANT	H 1/2	MI 1/4 MW 1/4	38 1/4	JEC 12		N 02 2				-	
0631-181-09	OROHEN, JAMES C & FLORA		91791 RECREATIONAL		600				5.00A 1	203	3,798 3,127 6,925	NOSTRAN
	RECREATION CABIN	\$ 1/2	NE 1/4 NW 1/4	SW 1/4	SEC 22	TP 2N	R 6E 5. A					
0831-181-10	PLOUFFE,HAROLD D 206 E 185TH ST*CARSON CA		90746		-600				5.00A	12,000	7,601 5,427 13,028	11715791 435754 12_0006
	RECREATION CABIN	N 1/2	RECREATIONAL SE 1/4 NW 1/4	SW 1/4	SEC 22	TP 2N	R 6E 5. A	ξ	'		•	
0331-181-11	REINHARD, ROBERT R & BETTY J				000				5.00A		2,994	
	3638 NW OLEANDER PL+CORVALLIS OR	5 1/2	97330 RECREATIONAL NE 1/4 SW 1/4	SH 1/4	SEC 22	TP 2N	R 6E 5 AC		J.00	71	2,994	NOSTRAN
									280		2,565	01/26/94
631-181-12	HANKINS EVERETT W TR 2534 BATSON AVE*ROWLAND HEIGHTS CA		91748 RECREATIONAL		860				5.00A	174	2,565 5,130	33317 NOSTRAN
	RECREATION CABIN	N 1/2	SE 1/4 SH 1/4	SW 1/4	SEC 22	TP 2N	R SE EX M	۷,				

APPENDIX H

NEWSPAPERS/JOURNALS

(Not Used)

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

Table of Contents

- I-1 Conversation Record with Mr. Bill Myers and Mr. Bob Hall, San Bernardino County Sheriff's Department, and SI team, 22 January 1998
- I-2 Conversation Record with Mr. Jay Conway, local resident, and SI team, 27 January 1998
- I-3 Conversation Record with CPT Grimes, 1SG Fortney and SFC Woods, $759^{\rm th}$ EOD, and SI team, 28 January 1998
- I-4 Conversation Record with MSGT Hepner and TSGT Glinka, $95^{\rm th}$ CEG/CED, and SI team, 29 January 1998
- I-5 Conversation Record with Glenn Brooks, former airman, and SI team, 2 March 1998
- I-6 Conversation Record with Mr. Owen Cooper, former bombardier cadet, and SI team, 4 March 1998

CONVERSATION RECORD	TIME	DATE
CONVERSATION RECORD	0930 PST	22 January 1998
TYPE		
X VISIT	CONFERENCE	TELEPHONE INCOMING
		OUTGOING
NAME OF PERSON CONTACT WITH	ORGANIZATION	TELEPHONE NO.
Bill Myers Bob Hall	San Bernardino Sheriff's	(401) 789 8947
BOD Hall	Department	(909) 387-3498/3606/
SUBJECT Victorville Precision Bom	nbing Ranges	
SUMMARY Messrs. Hall and Myers as San Bernardino Sheriff's Bomb Squwith the detectives at the Sheriff shown a map of the Victorville be had any knowledge of ordnance being they explained that they recommilitary munitions due to the lark County. Most the munitions recombefore they are notified, so the location of the ordnance.	mad. Members of the feature of the f	The assessment team met The detectives were ere asked if any they these sites. Is per year regarding ence in San Bernardino oved a number of times
Mr. Myers stated that a 5-in vicinity of bomb target 6, 7 or 8 target contained the rocket, but sticking out of the ground.	 He was unable 	to identify which
He stated that a 100-lb. pra about seven years ago.	actice bomb was re	ecovered from target 14
Mr. Myers stated that he had $N-3$, but he did not notice any or	d hunted in the arednance in that are	rea surrounding target rea.
-		
ACTION REQUIRED		
ACTION TAKEN		
NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION	TELEPHONE NUMBER
George Ofslager	CEMVR-ED-DO	(309) 794-6024
SIGNATURE	QA Spec (Ammo	DATE 22 January 1998

CONVERSATION RECORD	TIME	DATE
CONVENDITION TELEGRAP	1100	Tue 27 Jan 1998
TYPE		
X VISIT	CONFERENCE	TELEPHONE INCOMING OUTGOING
NAME OF PERSON CONTACT WITH Jay Conway	ORGANIZATION Via Maria Road Landers, CA	TELEPHONE NO.
SUBJECT Victorville Precision Bomb Target	t #19	
there for 28 years. He has area since he was 12 years practice bomb debris on the conducting the site inspect been gathering the debris f The SI team informed Mr. Co debris could possibly contaspotting charge could be poacknowledged the SI team's never found any debris with also stated that the debris concentrated east of the tastated that he had no knowl OE ever occurring at the Vi	old. Mr. Conwards site while the site while the ion. Mr. Conwards a few weeks nway that the plant of tentially danger warning and state an intact sport seemed to be a reget center.	ay was collecting a SI team was ay stated he had to sell for scrap. practice bomb charge and that erous. Mr. Conway ated that he has tting charge. He more heavily Lastly, Mr. Conway cidents involving
ACTION TAKEN		

ORGANIZATION

TITLE

CEMVR-ED-DO

Chem Engineer

NAME OF PERSON DOCUMENTING COVERSATION

Christopher J. Churney

TELEPHONE NUMBER

28 Jan 1998

DATE

(309) 782-1491

			117	
CONVERSATION RECORD	TIME	DAT		3 Jan 1998
	0930	wed	1 20	Jan 1996
TYPE				
X VISIT	CONFERENCE			TELEPHONE
<u> </u>				INCOMING
				OUTGOING
NAME OF PERSON CONTACT WITH	ORGANIZATION		TEL	EPHONE NO.
CPT Grimes, 1SG Fortney	759 th EOD		(76	30) 380-4092
SFC Woods	Ft. Irwin, CA			
SUBJECT				
Victorville Precision Bomb Targe	ts			
SUMMARY				
CPT Grimes, 1SG Fortney a	and SFC Woods we	ere o	que	stioned by
the SI team whether they ha	d any specific	knov	wle	dge of OE
presence at any of the Vict	orville PBRs	Nei	the	r of the 3
presence at any of the vict		E in	ai d	onts in the
could recall the 759th response				
Victorville area. They had	no knowledge a	any (ן אַנ	being
discovered on any of the PE	Rs. SFC Woods	refe	erre	ed the SI
team to B.J. Allen, a forme	er EOD in the Co	DE Sa	an l	Diego Area
Office, and the EODs at Edw	vards AFB.			
Office, and the form as form				
ACTION REQUIRED				
ACTION REQUIRED				
ACTION REQUIRED				
ACTION REQUIRED ACTION TAKEN			The state of the s	PRIONE MIMPER
ACTION REQUIRED ACTION TAKE: NAME OF PERSON DOCUMENTING COVERSATION	ORGANIZATION COMMITTED TO DO			EPHONE NUMBER
ACTION REQUIRED ACTION TAKEN	CEMVR-ED-DO		(3	09) 782-1491
ACTION REQUIRED ACTION TAKEN NAME OF PERSON DOCUMENTING COVERSATION	CEMVR-ED-DO		(3)	09) 782-1491 :
ACTION REQUIRED ACTION TAKEN NAME OF PERSON DOCUMENTING COVERSATION Christopher J. Churney	CEMVR-ED-DO		(3)	09) 782-1491

	TIME	DATE
CONVERSATION RECORD	0845	Thu 29 Jan 1998
TYPE	10010	
	CONFERENCE	TELEPHONE
X VISIT	CONFERENCE	INCOMING
		OUTGOING
NAME OF PERSON CONTACT WITH	ORGANIZATION	TELEPHONE NO.
MSGT Hepner	95 th CEG/CED	(805) 277-2162
TSGT Glinka	Edwards AFB, CA	
CUID TECOM		
SUBJECT Victorville Precision Bomb Targe	ts	
SUMMARY		
MSGT Hepner and TSGT Glin	ka have been wi	th the 95 th
CEG/CED for a few months an	d 5 % vears res	pectively.
Although they have responde		
(formerly Victorville AAF),	noither gould	recall ever
responding to OE incidents		
Neither had any knowledge o	or any Or incide	ents occurring at
the Victorville PBRs. Both		
would normally respond to a	ny incidents in	the area of the
PBRs.		
•		
~		
ACTION REQUIRED		
ACMION MAKENI		
ACTION TAKEN		
NAME OF PERSON DOCUMENTING COVERSATION	ORGANIZATION	TELEPHONE NUMBER
Christopher J. Churney	CEMVR-ED-DO	(309) 782-1491
SIGNATURE /	TITLE	DATE
Chthee Cluves	Chem Engineer	29 Jan 1998
\mathcal{O}		

CONVERSATION RECORD	TIME	DATE
	11:00 AM	2 March 1998
TYPE		
VISIT	CONFERENCE	TELEPHONE
		INCOMING X OUTGOING
NAME OF PERSON CONTACTED	ORGANIZATION	TELEPHONE NO.
Glenn Brooks	Former Airman	(405) 732-8877
SUBJECT Victorville PBRs		
SUMMARY:		

Mr. Brooks said that he was part of the initial enlisted cadre and arrived at Victorville AAF in September of 1941. He was in the aircraft maintenance branch and remembered working on the Beechcraft AT-7 and AT-11 as well as the Lockheed P-38. He said the P-38s arrived straight from the plant in early 1942. The P-38 pilots carried both .50 caliber and 20mm machine guns, but these were fired only at the Muroc Dry Lake range near what is now Edwards AFB.

He knew specifically of 4 Victorville AAF bombing ranges that were in dry lakes. He said there were large circles around the target center to assist the bombardier cadets. Mr. Brooks said the AT-11s were used for this training, and all they ever dropped were 100 lb sand filled bombs with a small smoke charge. As a maintenance man, he used to go up on some of the training missions. He was certain there were never any HE bombs or any kinds of rockets used when he was there. He added that the 100 lb practice bombs were stored out in the open, and that small arms and spotting charges were the only items stored in one small igloo on the AAF.

Mr. Brooks left Victorville AAF as a 2LT in April of 1943 and went on to spend an additional 30 years in the Air Force.

ACTION REQUIRED None

NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION	TELEPHONE NUMBER
Ronald Plante	CEMVR-ED-DO	(309) 782-1481
SIGNATURE	TITLE	DATE
ped Pate	QASAS	2 March 1998

CONVERSATION RECORD	TIME	DATE
	1:00 PM	4 March 1998
TYPE VISIT	CONFERENCE	TELEPHONE INCOMING X OUTGOING
NAME OF PERSON CONTACTED Owen Cooper	ORGANIZATION Former Bombardie Cadet	TELEPHONE NO. (410) 747-5991
SUBJECT Victorville PBRs		
SUMMARY:		

Mr. Cooper said that he joined the Army Air Forces as an aviation cadet but washed out of flight school and then trained as a bombardier. He was in class 43-3 at Victorville Army Air Field, graduating in March of 1943. He trained in the AT-11 and flew practice bombing missions to ranges all around the Victorville area, including some on the dry lake bed of Lake Lucerne (PBR #6). Mr. Cooper said all he ever dropped were 100 pound sand filled bombs with a spotting charge. He never saw an HE bomb at Victorville and was unaware of any other cadets dropping HE bombs. He recalled that the standard procedure was to drop one practice bomb on a target, and then follow specific compass headings to other targets to drop additional practice bombs one at a time.

After completing bombardier training, Mr. Cooper joined a B-17 crew for further training in Utah and eventually flew missions over Germany as a lead bombardier with the 91st Bomb Group.

ACTION REQUIRED None

NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-ED-DO	(309) 782-1481
SIGNATURE Pale	TITLE QASAS	DATE 4 March 1998

APPENDIX J

PRESENT SITE PHOTOGRAPHS

APPENDIX J

PRESENT SITE PHOTOGRAPHS

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- J-1 Area A: White stones at target center
- J-2 Area A: Stake and survey marker at target center
- J-3 Area A: Survey marker at target center
- J-4 Area A: Looking north from target center
- J-5 Area A: Looking east from target center
- J-6 Area A: Looking south from target center
- J-7 Area A: Looking west from target center
- J-8 Area A: East-west crosshair of bomb target
- J-9 Area A: Looking north from first target ring
- J-10 Area A: Looking south from first target ring
- J-11 Area A: Looking north from second target ring
- J-12 Area A: Looking south from second target ring
- J-13 Area A: Looking north from third target ring
- J-14 Area A: Looking south from third target ring
- J-15 Area A: North-south crosshair of bomb target
- J-16 Area A: M38A2 100 pound practice bomb debris
- J-17 Area A: M38A2 100 pound practice bomb debris
- J-18 Area A: M47A2 100 pound chemical bomb (metal parts) debris
- J-19 Area A: M38A2 100 pound practice bomb debris
- J-20 Area A: Cap to M1A1 spotting charge
- J-21 Area A: M38A2 100 pound practice bomb debris
- J-22 Area A: Large pile of practice bomb debris
- J-23 Area A: Large pile of practice bomb debris

- J-24 Area A: Mk15 100 pound practice bomb debris
- J-25 Area A: Large crater east of bomb target
- J-26 Area A: Band to Mk15 100 pound practice bomb
- J-27 Area A: M38A2 100 pound practice bomb debris
- J-28 Area A: Partially buried unknown practice bomb debris
- J-29 Area A: M47A2 100 pound chemical bomb (metal parts) debris
- J-30 Area A: M47A2 100 pound chemical bomb (metal parts) debris
- J-31 Area A: Unknown type 100 pound practice bomb debris
- J-32 Truckload of 100 pound practice bomb debris
- J-33 Practice bomb debris in yard of local resident



J-1 Area A: White stones indicating target center; see plate 6.



J-2 Area A: Stake and survey marker at target center; looking southeast; see plate 6.



J-3 Area A: Close-up view of survey marker at target center, see plate 6.



J-4 Area A: View of range from target center; looking north; see plate 6.



J-5 Area A: View of range from target center; looking east; see plate 6.



J-6 Area A: View of range from target center; looking south; see plate 6.



J-7 Area A: View of range from target center; looking west; see plate 6..



J-8 Area A: East-west crosshair of bomb target; looking west; see plate 6.



J-9 Area A: First target ring 100 feet from target center; looking north; see plate 6.



J-10 Area A: First target ring 100 feet east of target center; looking south; see plate 6.



J-11 Area A: Second target ring 200 feet east of target center; looking north; see plate 6.



J-12 Area A: Second target ring 200 feet east of target center; looking south; see plate 6.



J-15 Area A: North-south crosshair looking north from 300 feet south of target center; see plate 6.



J-16 Area A: M38A2 100 pound practice bomb debris 15-20 yards northeast of target center; see plate 6.



J-17 Area A: M38A2 100 pound practice bomb debris 15 yards east of target center; see plate 6.



J-18 Area A: M47A2 100 pound chemical bomb (metal parts) debris; used as practice bomb; 25-30 yards east of target center; see plate 6.



J-19 Area A: M38A2 100 pound practice bomb debris about 100 feet northeast of target center; see plate 6.



 $\mbox{J-20}$ $\,$ Area A: Cap to M1A1 spotting charge 400 feet east northeast of target center; see plate 6.



J-21 Area A: M38A2 100 pound practice bomb debris 600 feet east northeast of target center; see plate 5



J-22 Area A: Pile of various 100 pound practice bomb debris 900 feet east northeast of target center; see plate 6.



J-23 Area A: Pile of various 100 pound practice bomb debris 900 feet east northeast of target center; see plate 6.



J-24 Area A: Mk15 100 pound practice bomb debris in debris pile; see plate 6.



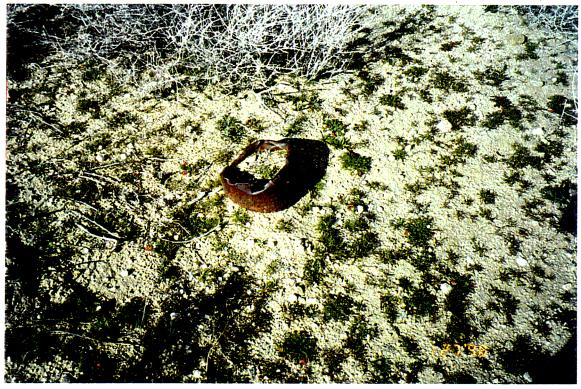
J-25 Area A: Large crater about 1,350 feet east northeast of target center; looking north; see plate 6.



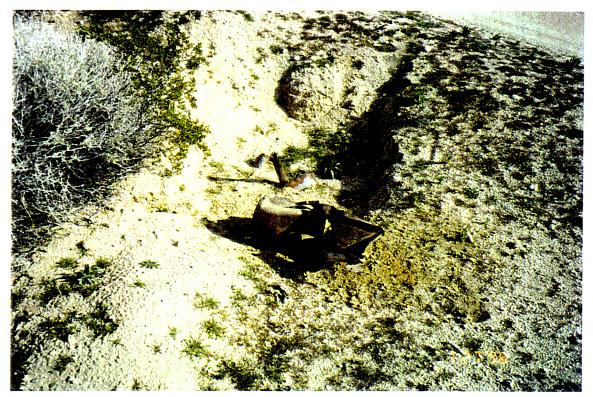
J-26 Area A: Band to Mk15 100 pound practice bomb located near large crater; see plate 6.



J-27 Area A: M38A2 practice bomb debris 450 feet north of target center; see plate 6.



J-28 Area A: 100 pound practice bomb debris 600 feet north of target center; see plate 6.



J-29 Area A: M47A2 100 pound chemical bomb (metal parts) debris; used as practice bomb; 950 feet north of target center; see plate 6.



J-30 Area A: M47A2 100 pound chemical bomb (metal parts) debris; used as practice bomb; 650 feet south southwest of target center; see plate 6.



J-31 Area A: 100 pound practice bomb debris about 1,300 feet south of target center; see plate 6.



J-32 Truckload of 100 pound practice bomb debris collected by local resident to sell for scrap.



J-33 Practice bomb debris in yard of local resident living north of the site.

APPENDIX K

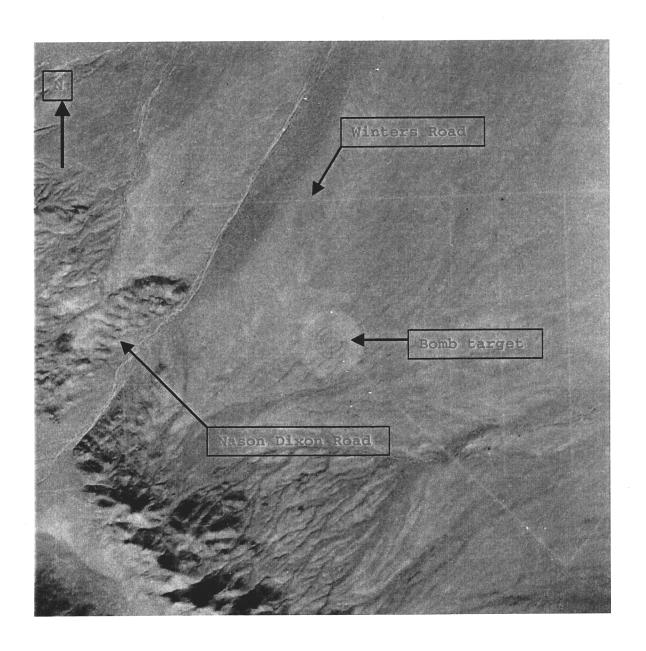
HISTORICAL PHOTOGRAPHS

APPENDIX K

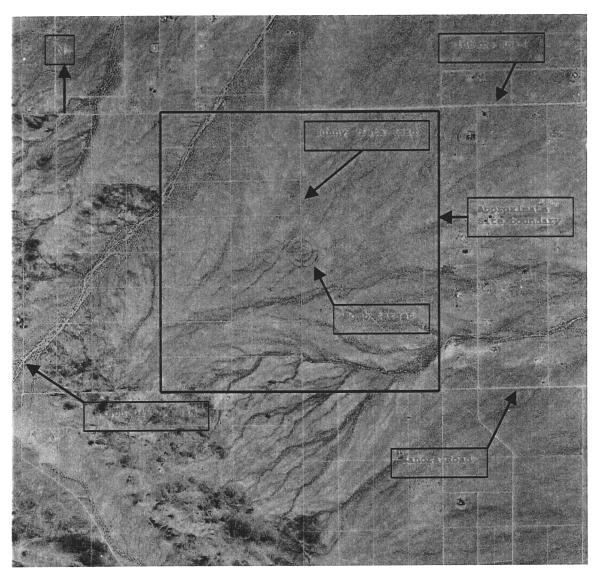
HISTORICAL PHOTOGRAPHS

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- K-1 Aerial photo close-up, 16 December 1954 (B-43)
- K-2 Aerial photo close-up, 25 July 1989 (B-44)



16 December 1954 aerial photo of Victorville PBR #19.



25 July 1989 aerial photo of Victorville PBR #19.

APPENDIX L

REFERENCE MAPS/DRAWINGS

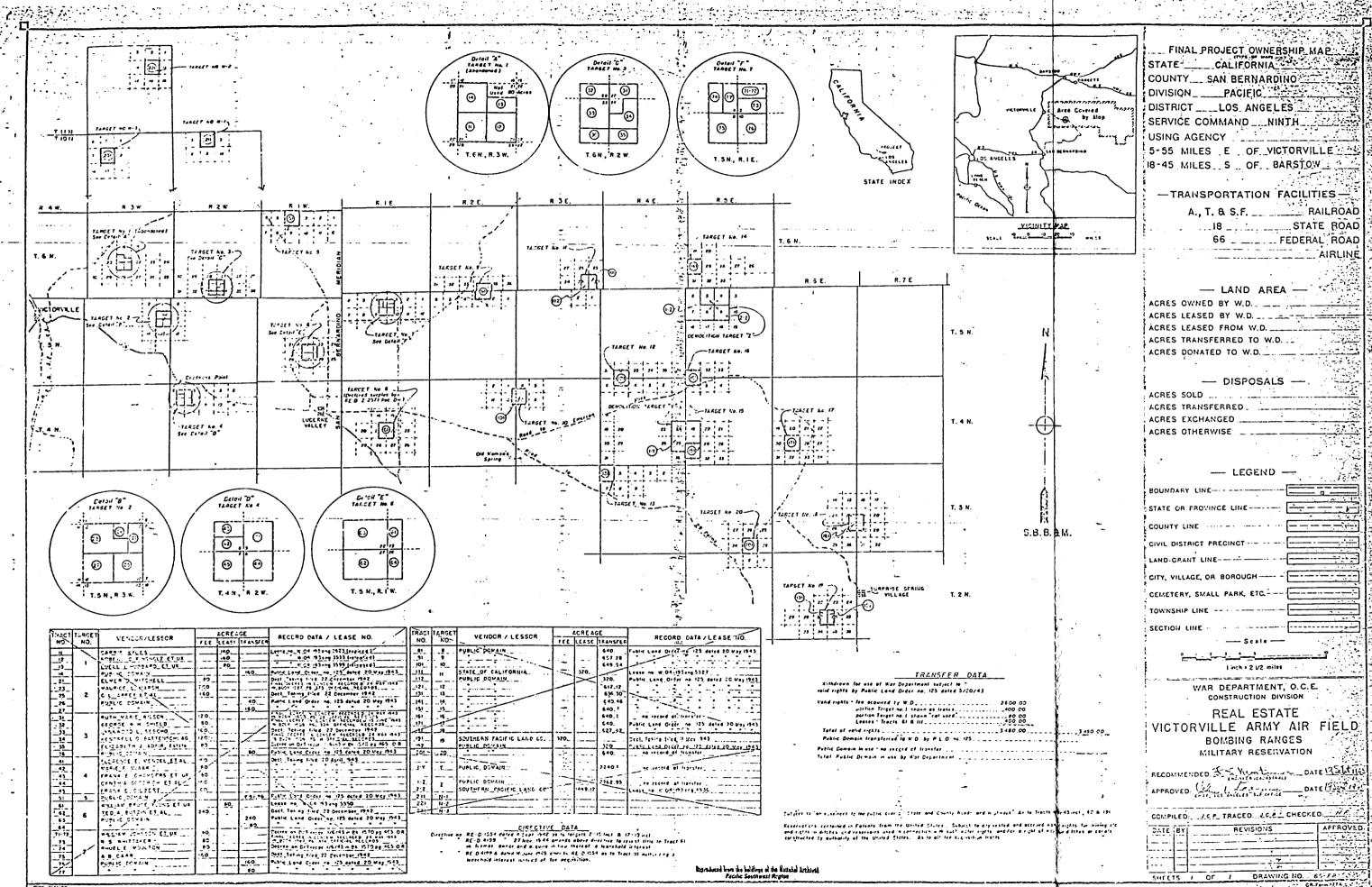
APPENDIX L

REFERENCE MAPS/DRAWINGS

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L-1 Map, Real Estate Victorville Army Air Field Bombing Ranges, 19 September 1945 (B-45)

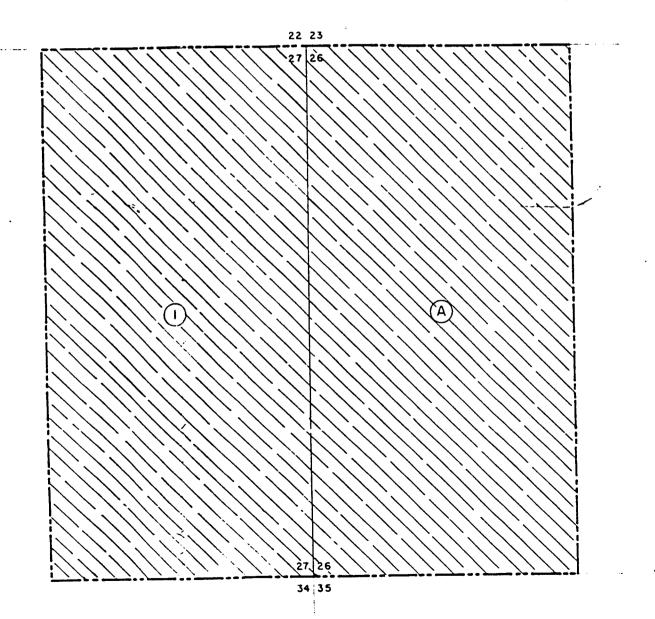
L-2 Map, Real Estate Victorville Precision Bombing Range No. 19, 12 December 1947 (B-46)



BLOCK & SCHEDULE-B

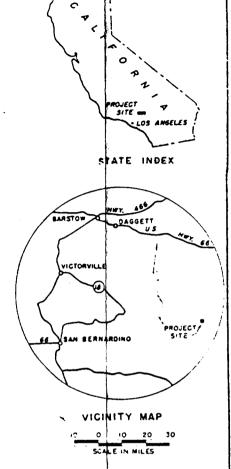
	ACQUISIT	ION	TRACT	REGISTER
TRACT NO.	LAND OWNER	ACREAGE		DEMARKS
		TRANS.	FEE	REMARKS
A	DEPT. OF INTERIOR	320.00		PLO No 125 dated 20 May 1943
1	SOUTHERN PACIFIC		320.00	Formerly snown as Tract 191 in [/T

T.2 N., R6E, S.B.B8M



ACCOUNTABILITY ASSUMED BY WAA ON 640.00 ACRES, 10 MAY 1948.

Reproduced from the architect to the producer Partie Ecgion (Lagran Nigar)



PROJECT OWNERSHIP MAP STATE CALIFORNIA OF MAPI COUNTY SAN BERNARDINO DIVISION SOUTH PACIFIC DISTRICT LOS ANGELES SIXTH ARMY AREA USING AGENCY T.A.C. 605 MILES SE OF BARSTOW 59 MILES E OF VICTORVILLE TRANSPORTATION FACILITIES A. T. & S. F.

18

STATE 404P FEDERAL ROAD , AIRLINE

-ACQUISITION-

TOTAL ACRES ACQUIRED____640.00 ACRES OWNED BY W.D. ACRES LEASED BY W.D. ACRES LEASED FROM W.D.

320.00 ACRES TRANSFERRED TO W.D. ACRES DONATED TO W.D.

DISPOSALS TOTAL ACRES DISPOSED OF ...640.00 ACRES TRANSFERRED TO WAA 320.00 ACRES FEE TO WAA ACRES OTHERWISE

LEGEND

RESERVATION LINE					
STATE OR PROVIDENCE LINE					
COUNTY LINE					
CIVIL DISTRICT PRECINCT					
LAND - GRANT LINE					
CITY, VILLAGE, OR BOROUGH					
CEMETERY, SMALL PARK ETC					
TOWNSHIP LINE					
SECTION LINE					
60) 0	1200				
SCALE OF FEET					

DEPARTMENT OF THE ARMY CORP OF ENGINEERS REAL ESTATE

VICTORVILLE PRECISION BOMBING RANGE NO. 19 MILITARY RESERVATION

dated 2 Sept 1942 APP. CHEST SEA SECTION

CONTROL OF CADASTRA SECTION

APP. CHEST SEA ELITE DIVISION CATE 17-12-47

COMI TRACES 1-1 PER SIONS -C DUE TO FINAL AUDIT

:884

ACQUISITION AUTHORIZATION

RED 1554

APPENDIX M

ARCHIVES SEARCH REPORT CORRESPONDENCE

(Not Used)

APPENDIX N

PROJECT AREA BIBLIOGRAPHY

					APPENDIX N					
PROJECT AREA BIBLIOGRAPHY										
Document	Project		Document	Document	Document	Description				
ID	Area(s)	Classification	Name	Date	Source	and Comments				
1	Α	Confirmed	Information Pertaining to Bombing Ranges	13-Feb-42	National Personnel Records Center	F-1: States 100 pound practice bombs to be used				
1	В	Potential	Information Pertaining to Bombing Ranges	13-Feb-42	National Personnel Records Center	F-1: States 100 pound practice bombs to be used				
2	Α	Confirmed	Range Data	22-Jul-43	NARA II	F-3: Lists 10 hrs/day use; no night use				
2	В	Potential	Range Data	22-Jul-43	NARA II	F-3: Lists 10 hrs/day use; no night use				
3	А	Confirmed	Historical Record of VAAF 1 Jan 43 - 1 Mar 44	1-Mar-44	Air Force Historical Research Agency	F-5: Map shows flight patterns for bombing runs				
3	В	Potential	Historical Record of VAAF 1 Jan 43 - 1 Mar 44	1-Mar-44	Air Force Historical Research Agency	F-5: Map shows flight patterns for bombing runs				
4	Α	Confirmed	Historical Record of VAAF 1 Nov - 31 Dec 44	1-Jan-45	Air Force Historical Research Agency	F-6: Ordnance supply list at VAAF				
4	В	Potential	Historical Record of VAAF 1 Nov - 31 Dec 44	1-Jan-45	Air Force Historical Research Agency	F-6: Ordnance supply list at VAAF				
5	Α	Confirmed	Adverse Conditions at Bombing Target sites	31-Jan-47	NARA II	F-13: States site littered with bombs, fragments and duds				
5	В	Potential	Adverse Conditions at Bombing Target sites	31-Jan-47	NARA II	F-13: States site littered with bombs, fragments and duds				
6	А	Confirmed	Dudding Report	4-Feb-48	NARA - Pacific Southwest Reg	F-15: States surface and subsurface clearance performed; UXO blown in place; M38A2 practice bombs (duds) found				
6	В	Potential	Dudding Report	4-Feb-48	NARA - Pacific Southwest Reg	F-15: States surface and subsurface clearance performed; UXO blown in place; M38A2 practice bombs (duds) found				
7	А	Confirmed	Clearance Certificate	22-Mar-48	NARA - Pacific Region	F-16: States area is clear of explosive of dangerous material				
7	В	Potential	Clearance Certificate	22-Mar-48	NARA - Pacific Region	F-16: States area is clear of explosive of dangerous material				
8	Α	Confirmed	Victorville PBR #19	28-Apr-48	NARA - Pacific Region	F-17: States site has numerous impact holes and is cluttered with expended bomb cases and frag				
8	В	Potential	Victorville PBR #19	28-Apr-48	NARA - Pacific Region	F-17: States site has numerous impact holes and is cluttered with expended bomb cases and frag				
9	Α	Confirmed	Conversation Record	22-Jan-98	CEMVR-ED-DO	I-1: Interview with local Sheriff				

APPENDIX O

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REPORT PLATES

