



US Army Corps
of Engineers
Rock Island District



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

Archives Search Report

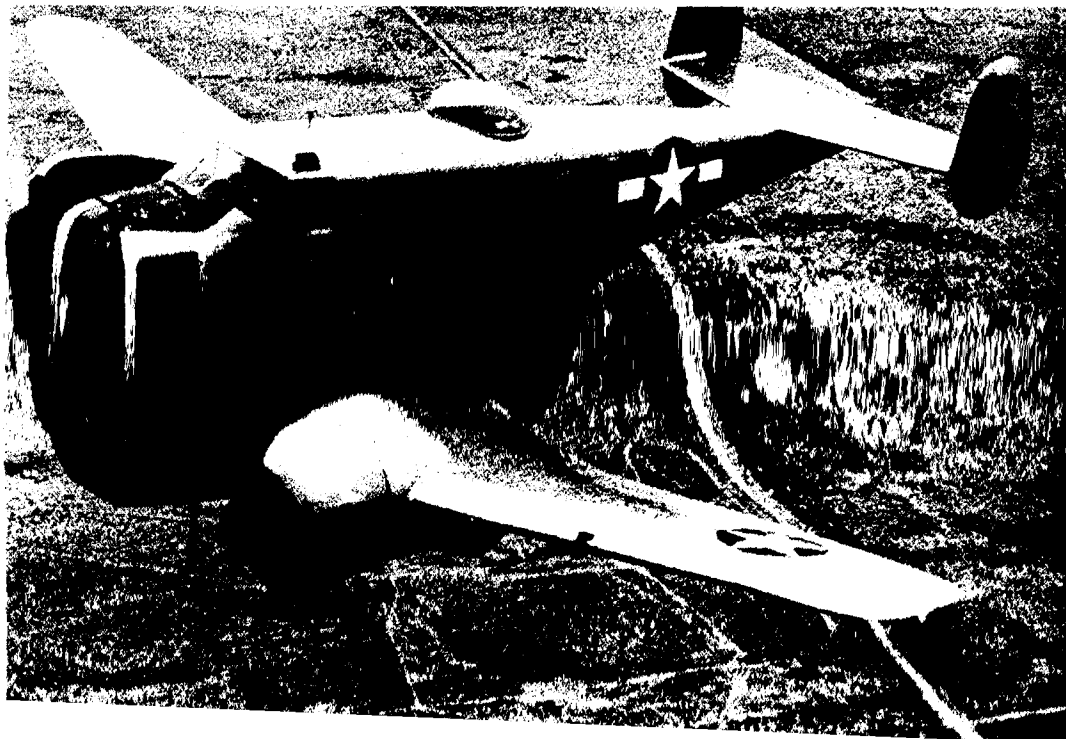
FINDINGS

for
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VICTORVILLE PRECISION BOMBING RANGE NO. 3

San Bernardino County, California
Project Number J09CA068801

MAY 1998



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for
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for
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ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

May 1998

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ORDNANCE AND EXPLOSIVE
 ARCHIVES SEARCH REPORT
 FOR
 VICTORVILLE PRECISION BOMBING RANGE NO. 3
 SAN BERNARDINO COUNTY, CALIFORNIA
 PROJECT NUMBER J09CA068801

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ORDNANCE AND EXPLOSIVE
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**ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
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SAN BERNARDINO COUNTY, CALIFORNIA
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1. INTRODUCTION

a. **Subject and Purpose**

(1) This report presents the findings of a historical records search and site inspection for the presence of ordnance and explosives (OE) located at Victorville Precision Bombing Range (PBR) NO. 3, San Bernardino County, 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) The investigation focused on approximately 640 acres that were identified as a bomb target. The site was used by the War Department as a bomb target from 1943 to 1944.

(3) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare material (CWM). The 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 ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections, and analyses. The analyses provide a complete evaluation of all information to assess current day potential ordnance presence, where actual ordnance presence has not been confirmed.

(2) For the purpose of this report, OE presence consists of live ammunition, ammunition components, 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 or the Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) **Expended** small arms ammunition (caliber .50 or smaller) is **not** considered OE presence. OE further includes "explosive soil" which refers to any mixture in soil, sands, clays, etc., such that the mixture itself is explosive. Generally, 10 percent 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 Precision Bombing Range No. 3 was conducted under DERP-FUDS by the U.S. Army Corps of Engineers, Los Angeles District.

(2) At that time, the Finding and Determination of Eligibility (FDE), dated 23 July 1991, concluded that the site in San Bernardino County, California had been formerly used by the War Department (see document E-1).

(3) The FDE concluded that there were eligible categories under the DERP-FUDS program. Due to the fact that the site was used by the Army and identified as a bomb target, an Ordnance and Explosives (OE) project was recommended, DERP-FUDS Project Number J09CA068801, the principal subject of this report (see document E-2 and Table 2-1).

TABLE 2-1				
DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS				
Project Number	DERP Category	Present Phase	Comments	Location
J09CA068801	OE	SI	Ordnance and Explosive Presence	Entire Site 640 Acres (See Plate 2)
	HTRW		None Recommended	
	CON/HTRW		None Recommended	
	BD/DR		None Recommended	

b. **Other Investigations**

No other investigations pertinent to this site were located.

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) The former Victorville Precision Bombing Range No. 3 is located approximately 10 miles northeast of the city of Victorville, California (see plate 1).

(2) Except for a few residences and a ranch, the site is vacant desert (see Table 3-1).

TABLE 3-1 CURRENT LAND OWNERS/USAGE					
AREA	FORMER USAGE	CURRENT OWNER	CURRENT USAGE	ACREAGE*	COMMENTS
A	Target Area	Leonila Javier	Vacant	380	See Plates 3, 4 and 5 and Photos J-1 and J-2
		Arturo Javier	Desert**		
		Glenn Irvine			
		Greg Olszewski			
		Antonio Hernandez			
		Buddy Holiday	Ranch		
		Eduardo Posadas			
		Charles Hutchins			
		Lorenzo Samudio			
		Harold Ellis			
		Antonio Vergel	Mobile Home		
		Carlo Gaspar			
		Richard Griffiths			
		William Pendleton			
		Saidhar Reddy			
		John Coogan			
		Edward Hall			
		Savis Zarrabian			
		Peter Woo			
		Edward Coles			
		Kivoshi Hirovasu			
		Margaret Curran			
		James Gabriel			
		Jose Casillas			
		Virgilio Oliva			
		Rosmarie Lujan			
		Jackie Berbenabe			
Todd Padgett					
Carl Jefferson					
Charles Hutchins					
Federal	Public				
Government/BLM	Domain				
L. & C. Tandberg					
David Wilson					
Gary Lathrop					

TABLE 3-1 (cont.)					
CURRENT LAND OWNERS/USAGE					
AREA	FORMER USAGE	CURRENT OWNER	CURRENT USAGE	ACREAGE*	COMMENTS
B	Buffer Area	Robert Ceja	Vacant	260	See Plates 3, 4 and 5 and Photo J-3
		Sharon Kaiser	Desert**		
		John Royal			
		B. & W. Rucker			
		S. C. Guerrero			
		Beverly Hardesty			
		Albert Machinena			
		J. & S. Lawrence			
		J. & L. De Frank			
		Carlo Gaspar			
		John Holland			
		Dorothy Castro			
		Angel Sanchez			
		Russel Weiss			
		William Pendleton			
		Diane Alcorn			
		Helen Smith			
		Richard Griffiths			
		Wayne Sutton			
		Fritz Hanks			
Buddy Holiday					
Billy Qualls					
R. & M. Burger					
Federal Government/BLM	Public Domain				
J. & H. Willis					
Arthur Downs	Cabin and Residence				
TOTAL				640	
* Indicates approximate acreage					
** Vacant desert, except where otherwise specified in this column.					

b. Climatic Data

(1) Summers are long and very hot. Winters are quite warm despite an occasional series of days when the nightly minimum temperature drops below freezing. The average annual temperature in the area is about 64 degrees Fahrenheit. The highest recorded temperature is 116 degrees Fahrenheit and the lowest recorded temperature is three degrees Fahrenheit.

(2) The average annual precipitation averages four inches a year. Rainfall is scant in all months. The average seasonal snowfall averages one inch per year. Days when there is snow on the ground are rare, and the number of such days varies from year to year (references B-2 and B-3).

c. Topography

The site has an elevation ranging between 3,200 and 3,400 feet above sea level. The eastern terrain of this site consists of a gently sloping hillside inclining towards the west, terminating at a level dry lake bed formed by alluvial deposition (see photograph J-1 and plate 5). A steep granite prominence, approximately 3,300 feet above sea level, is present in the southwest quarter (see plate 2).

d. Geology and Soil

(1) The site is located within the eastern Mojave Desert Section of the Basin and Range physiographic province. The Mojave Desert is outlined by the San Andreas fault on the south and the Garlock fault on the north. The right-lateral slip on the San Andreas and the left-lateral slip on the Garlock indicate the Mojave block is moving relatively east. There are many fault zones in the area, most of which are aligned in a northwest-southeast direction.

(2) The soils of the site are formed in alluvium derived dominantly from granitic material. The majority of the site is covered with Cajon sand, a very deep, somewhat excessively drained soil. Other soils found on the site are Cajon-Arizo complex sand, which is very deep and excessively drained; Cajon-Wasco loamy sands, which are very deep and well drained; Playas predominantly clayey sediments, which are poorly drained and subject to seasonal flooding; Wasco sandy loam, which is very deep and well drained. A special case is Rock Outcrop-Lithic Torriorthents complex, found on hillsides. This soil category typically consists of sixty percent Rock Outcrop and thirty percent Lithic Torriorthents. The latter, found between Rock Outcrop, is well drained and consists of shallow sandy loams and gravelly sands. Permeability of the Lithic Torriorthents is rapid to very rapid (reference B-2).

(a) The bull's-eye marking the target lies at a junction of Cajon-Arizo complex and Cajon soil boundaries, making this area evenly divided between these soil types.

(b) The Playas soils dominate the northwest quarter of the site and their inherent lack of permeability coupled with lying in a valley results in seasonal flooding in this area.

e. **Hydrology**

Rainfall is the major source of groundwater in the area. Hard rock formations underlying permeable soil divide the land into numerous subsurface basins which serve as traps for seasonal rainfall (references B-2 and B-53). According to Mr. Buddy Holiday, a property owner, the water table is approximately 250 feet below the surface (see document I-1). There is at least one well on this site. Water availability is a limiting factor for potential wide scale residential development of this site.

f. **Natural Resources**

Although the assessment team did not note endangered species of flora or fauna on this site, the U.S Department of the Interior, Fish and Wildlife Service identifies the desert tortoise as an inhabitant of the region, including Victorville PBR No. 3 (see document F-1). However, negative results were found when 90 acres of this site was checked for evidence of tortoise habitation several years ago (see document I-7). Moreover, the Natural Diversity Data Base maintained by the State of California, Department of Fish and Game identifies twenty animals and fifteen plants observed to be present in San Bernardino County and classified as rare, threatened or endangered species (see document F-2). While not noted by the assessment team, their presence on this site can not be excluded and thus their potential presence must be taken into consideration in any remediation effort. Table 3-2 lists these species.

g. **Historical/Cultural Resources**

There are no recorded historical or archeological sites on this site. However, there are two lithic reduction sites within the boundaries of sections 27, 28, 33 and 34 (see document F-3).

RESOURCE CLASSIFICATION	TYPE	COMMENT
Wildlife	Desert Tortoise	Threatened/State/Federal
	Bald Eagle	Threatened/Federal and Endangered/State
	Swainsons Hawk	Threatened/State

TABLE 3-2 (cont.)
NATURAL, HISTORICAL, ARCHEOLOGICAL AND CULTURAL RESOURCES

RESOURCE CLASSIFICATION	TYPE	COMMENT
Wildlife (cont.)	Western Snowy Plover	Threatened/Federal
	Yuma Clapper Rail	Endangered/Federal and Threatened/State
	Western Yellow Billed Cuckoo	Endangered/State
	Elf Owl	Endangered/State
	Gila Woodpecker	Endangered/State
	Willow Flycatcher	Endangered/State
	California Gnatcatcher	Threatened/Federal
	Arizona Bells Vireo	Endangered/State
	Least Bells Vireo	Endangered/State/Federal
	Mohave Ground Squirrel	Species of Concern/Federal Threatened/State
	Stephens Kangaroo Rat	Endangered/Federal Threatened/State
	Southern Rubber Boa	Species of Concern/Federal Threatened/State
	Vegetation	Parish's Daisy	Threatened/Federal
Mohave Tarplant		Species of Concern/Federal Endangered/State
Nevin's Barberry		Proposed Endangered/Federal Endangered/State
San Bernardino Mountains Bladderpod		Endangered/Federal
Slender-Petaled Thelypodium		Endangered/Federal/State
Cushenbury Milk-Vetch		Endangered/Federal
Parish's Checkerbloom		Candidate/Federal Rare/State

TABLE 3-2 (cont.) NATURAL, HISTORICAL, ARCHEOLOGICAL AND CULTURAL RESOURCES		
RESOURCE CLASSIFICATION	TYPE	COMMENT
Vegetation (cont.)	Gambel's Watercress	Endangered/Federal Threatened/State
	Bird-Footed Checkerbloom	Endangered/Federal/State
	Thorne's Buckwheat	Species of Concern/Federal Endangered/State
	Cushenbury Buckwheat	Endangered/Federal
	Cushenbury Oxytheca	Endangered/State/Federal
	Slender-Horned Spineflower	Endangered/State/Federal
	Santa Ana River Woollystar	Endangered/State/Federal
	Thread-Leaved Brodiaea	Proposed Threatened/Federal Endangered/State
Historical		None Identified
Archeological		None Identified

4. HISTORICAL ORDNANCE PRESENCE

a. **Chronological Site Summary**

(1) Victorville PBR No. 3 is one of more than twenty bomb targets developed during the Second World War in support of the Victorville Army Air Field (VAAF) bombardier training program (see document G-14).

(2) The War Department acquired the 640 acre site between April and August 1943 by condemnation and public land order. Eighty acres were withdrawn from public use under public land order, while the rest was taken by condemnation from five private parties (see paragraphs 4b(3)(a) and (b)). At the time the site was acquired, the land was vacant desert.

(3) Although it is not exactly known when the target became operational, it is likely that it was ready for use within two months of acquisition of the entire 640 acres. Use of the site was discontinued when bombardier training ended in November or December of 1944 (see document F-4).

(4) The site was declared surplus in March 1948 and accountability of 560 acres was turned over to the War Assets Administration in May 1948. The remaining 80 acres obtained from the Department of the Interior reverted back to their administration at this time (see paragraphs 4b(3)(a) and (c)).

(5) The War Assets Administration sold the property under its control to five private parties between February and March 1949 (see paragraphs 4b(3)(b) and (c)).

(6) Today, the Department of the Interior administers only 35 of the original 80 acres returned to it in May 1948. All other property formerly comprising the PBR is currently in private hands.

b. Ordnance Related Record Review

(1) Research efforts began with a thorough review of all reports, newspaper articles, historical documents and reference material gathered during the archival records search. During the review, an effort was made to focus on the area of potential OE presence as described in the Inventory Project Report (INPR) (reference B-1).

(2) Some of the sources that were checked in the search for any OE presence included:

- (a) National Archives
- (b) Regional Archives
- (c) Military History Institute
- (d) U.S. Army Center for Military History
- (e) Explosive Ordnance Disposal (EOD) Units
- (f) Local Sheriff's Department
- (g) County Court House

For a complete list of sources checked, see Appendix A and Appendix B, Sections II and III.

(3) Several real estate records were found relating to the acquisition, use and ultimate disposition of the site. These included, public land orders, final judgments and decrees of condemnations, maps, declarations of surplus real property, and quitclaim deeds.

(a) Public Land Order (PLO) 125, dated 20 May 1943, identifies an 80 acre government owned portion of the site. The PLO describes it as consisting of the northern half of the southeast quarter of section 33, township 6, north, range 2, west. It further states that the land was withdrawn from public use for the purpose of use by the War Department (see document G-1). This tract is identified on a real estate map of Victorville Precision Bombing Range No. 3, first issued in December 1947 (see document G-2). This same property reverted to control of the Department of the Interior on 12 May 1948, in accordance with Public Land Order 581 (see document G-3).

(b) According to final judgments and decrees of condemnation issued in April and August 1943, the U.S. Attorney filed condemnation petitions in September and December 1942 on four tracts that were to become Victorville PBR No. 3. The resultant decree issued by the U.S. District Court ordered that titles of tracts 31, 32, 34 and 35 be transferred to the Federal Government (see documents G-4 through G-7, respectively). Although the final judgment and decree for tract 33 was not discovered in the course of this archives search, it is likely that similar action was also likely taken on this land. These tracts (including tract 33), totaling 560 acres, are identified on the same real estate map referenced in the previous paragraph (see document G-2).

(c) The government divested itself of the 560 acres it had acquired from private parties by instrument of quitclaim deeds, variously dated February and March 1949. Three of the five private parties involved in these transactions were prior owners (see documents G-8 through G-12).

(d) The Department of the Army, Corps of Engineers reported the site as surplus in a Declaration of Surplus Property, Form SPB-5, dated 3 March 1948. This document includes several attachments. Of particular interest are those identified as, Schedule A and Schedule E. Schedule A identifies the tracts comprising the site in terms of sections and subdivisions thereof. Schedule E is important because it identifies the site layout. The layout is described as consisting of 640 acres with a hexagonal

shaped, fenced and cleared area of approximately 900 feet to each side, having three concentric rings of field-mix oil surfacing with a frame target in the center. It also states that all moveable improvements, including the fence had been removed (see documents G-13).

(e) The Corps of Engineers final project ownership map shows the geographical relationship between PBR No. 3 and the other precision bombing ranges associated with Victorville Army Air Field (see document G-14). Along with a reliable road map of this area, it served as the basis for developing plate 1, the site map.

(4) Only seven documents were found pertaining to the ordnance utilized on this range. The first two are doctrinal and refer to the typical practice ordnance used on practice ranges for the period in question. The second is a first person account describing specific models actually found on the Victorville ranges in general. The third is a historical report identifying other sites dedicated to the use of high explosive (demolition) bombs. The fourth is another first person account describing the terrain and its lack of the typical craters associated with high explosive bombs. The fifth is an information sheet identifying four demolition bomb ranges. The sixth is a Victorville Army Airfield historical report referring to ordnance inventory. The seventh is a historical report on the training of bombardiers.

(a) Versions of War Department publications AR 775-10, Training Allowances, , dated 1 January 1941 and 17 September 1947 identify the M38A2 practice bomb as the preferred bomb for bombardier training at the time this site was in use (references B-14 and B-15).

(b) A deduinding memorandum by the Los Angeles District, U.S. Army Corps of Engineers, dated 4 February 1948, identifies twelve bombing targets, No. 3 among them. It declares the sites as having been cleared of all explosive or dangerous material. This document is not specific as to what was found on No. 3, but it does state that "2,860 dud practice bombs M38A2 and 32 dud flare bombs, aircraft M26," were found among the twelve sites. These items have the official nomenclature Bomb, Practice, 100-lb, M38A2 and Flare, Aircraft, Parachute, M26, respectively. The absence of any reference to high explosive bombs is notable, as there almost certainly would have been a few duds of this kind had they'd ever been dropped on these sites. It further states that "the land is safe for the purpose of grazing, mining or other agricultural purposes."

It is apparent that the engineers in charge of clearing this site were confident of their work, or they would not have approved of subsurface land use (see document F-5).

(c) A drawing found in the Historical Record of Victorville Army Airfield for the period 1 January 1943 to 1 March 1944 identifies the targets utilized for dropping high explosive (demolition) bombs, targets Y and Z. This drawing also shows the aircraft approach heading to target was from the northeast (see document F-6).

(d) An inspection report issued by Los Angeles District Joint Property Survey Team No. 9, dated 28 April 1948 does not identify bomb types by name, but describes the site as having numerous small impact holes of 12 inches in depth and up to 30 inches in diameter (see document F-7).

(e) The historical record of Victorville Army Airfield for the period 1 November 1944 to 31 December 1944 identifies ordnance supply transactions that include reference to the receipt of 100-lb M38A2 practice, 100-lb M85 concrete and 100-lb M47A2 chemical bombs (see document F-8).

(f) The historical report, Individual Training of Bombardiers, prepared by the assistant chief of air staff, intelligence refers to the fact that M38A2 bombs were in short supply and that M85 concrete bombs, MK 15 water filled bombs and M47A2 bomb bodies filled with sand were utilized as substitute items (see document F-9).

(5) A Department of the Interior aerial photograph dating from 1992 reveals the presence of a single target surrounding concentric asphalt rings (see photograph K-1).

(6) A Corps of Engineers real estate map dated 19 September 1945 identifies over 20 bombing ranges, PBR No. 3, among them (G-14). This map was used to generate plate 1.

c. Personnel Interviews

(1) Efforts to locate individuals who had served or had first hand knowledge of Victorville Precision Bombing Range No. 3 when it was used by the military were unsuccessful. Interviews with those people listed in Appendix A (Reference Sources) of this report were performed, but for the most part these people had no first hand knowledge of what went on at the site during the time it was a bomb target.

(2) Document I-1 is a conversation record with detectives assigned to the San Bernardino Sheriff's bomb squad. Due to the large military presence in the county, they receive over 200 calls a year regarding military munitions. They were able to provide information concerning ordnance discovered at other bomb targets, but they were unaware of any ordnance at PBR No. 3.

(3) Document I-2 is a conversation record with a supervisor of the BLM field office at Barstow. This individual recalled ordnance being found in the vicinity of PBR No. N-3, but he was unable to provide any information concerning PBR No. 3.

(4) Document I-3 is a conversation record with the EOD unit at Fort Irwin. The unit had no record or recollections of any OE being discovered at PBR No. 3. They referred the team to the EOD unit at Edwards Air Force Base.

(5) Document I-4 is a conversation record with the EOD unit at Edwards Air Force Base. They were unaware of any ordnance being recovered from PBR No. 3.

(6) Documents I-5 and I-6 are conversation records with former servicemen who were stationed at VAAF. The only bombs these men saw at VAAF were sand filled bombs with a small smoke charge.

(7) Document I-7 is a conversation with Mr. Buddy Holiday, owner of the sixty acre Holiday Ranch which is located in the southeast quarter of the site. Mr. Holiday has operated his business in this area since 1979. Although he was aware of the practice bomb debris on and around his property, he had never seen any intact duds or live explosive components. This was emphasized by the fact that he said that he had landscaped his 100-acre airstrip by digging as much as three feet into the ground. Moreover, he said that he never heard of reports of such items from neighbors living on the site (see photograph J-15). Lastly, he stated that he had extensively examined the property around the target center and had never encountered debris further than one half mile from this point.

5. SITE ELIGIBILITY

a. **Confirmed Formerly Used Defense Sites**

(1) Former land usage by the War Department was confirmed for the site as summarized in section 2a of this report. The 640 acre site was used as a bomb target from 1943 to 1944.

(2) By 1949, all acreage that is the subject of this report was relinquished by the War Department. Today, no ownership of any part of the site remains with its successor, the Department of Defense (see plate 4). Thirty-five acres of the site have been under the jurisdiction of the Department of the Interior since 1948.

b. **Potential Formerly Used Defense Sites**

There were no additional potential formerly used defense sites discovered during the course of this archives search.

6. VISUAL SITE INSPECTION

a. **General Procedures and Safety**

(1) The primary task of the site inspection team was to assess OE presence or potential due to use as a bomb target and possible demolition, burial or burning sites. On-site inspection was limited to non-intrusive methods in that subsurface sampling was not authorized nor permitted.

(2) Prior to the on-site visit, a thorough review of all available reports, historical documents and available reference material gathered during the archival search was reviewed to ensure awareness of potential ordnance usage and types.

(3) A site safety plan was developed and was utilized by the assessment team to assure safety from injury during the site inspection of the facility (reference B-23). A pre-inspection briefing was conducted which stressed that OE should only be handled by military EOD personnel.

(4) On 27 January 1998, members of the assessment team traveled to the former Victorville Precision Bombing Range No. 3. An investigation of this real estate was conducted to determine the presence or absence of OE.

(5) Real estate rights-of-entry were not obtained by the team due to the cooperation of the current owners in allowing the team to visit their property. Owners were briefed on the non-intrusive nature of the inspection and the safety measures used by the inspection team.

b. Area A: Target Area

(1) The assessment team located a standard bomb target bull's-eye in the center of the site. Situated at the intersection of Oldenburg and Hutch Skyranch Roads, the target center is marked with a pile of white quartz (see plates 2, 3, photographs J-4 and J-5 and plate 5). The target outline appears as broken concentric rings of black tar and gravel mix, situated approximately 100 feet apart (see photographs J-6 and J-7 and plate 5). Remnants of practice bombs were scattered in and around the bull's eye (see photographs J-8 through J-14 and plate 5).

(2) Most of the bomb remnants were identified as M38 series sand filled practice bombs (see photographs J-8, J-10, J-11, J-12, J-13 and J-14 and plate 5).

(3) A few metal bands, possibly suspension bands from sand filled M47 series bombs, were found by the assessment team (see photograph J-9 and plate 5).

(4) The assessment team was able to locate remains of practice bombs up to 2,000 feet from the bull's eye.

(5) A document found in the records search indicated that the bomb run was from the northeast to the southwest. The assessment team did not note a clear correlation between the bomb run and the locations of bomb residue.

c. Area B: Buffer Area

The assessment team did not locate any remains of ordnance in this area (see photograph J-3 and plate 5).

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

(1) Each sub-site was evaluated to determine confirmed, potential, or uncontaminated ordnance presence.

(2) Confirmed ordnance and explosives (OE) presence is based on verifiable historical record evidence or direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Additional field data are not needed to identify a confirmed site.

(a) Verifiable historical record 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/bombs squads, military Explosive Ordnance Disposal (EOD) Units, newspaper articles, photographs, or maps.

(b) 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.

(3) Potential ordnance and explosives (OE) presence is based on a lack of confirmed OE presence. Potential OE presence is inferred from records, present day site features, non-verifiable direct witness, or indirect witness. Additional field data are needed to confirm potential OE sites.

(a) 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.

(b) 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.

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

(4) Uncontaminated ordnance sub-sites are based on a lack of confirmed or potential ordnance presence. Additional field data are not needed to assess uncontaminated ordnance sub-sites.

b. **Area A: Target Area**

(1) This area is considered to have **confirmed** ordnance presence. This is based upon direct witness of OE, practice bombs debris, by the assessment team. There was no evidence uncovered during the archive search, interviews or site inspection that any other ordnance except for practice bombs, and potentially aircraft flares, was dropped on this target.

(2) The fact that practice bombs and perhaps aircraft flares were exclusively used in this area is supported by historical documentation. The dedudiving certificate referenced in paragraph 4b(4)(b) declares that only this type of ordnance was found on the site when the range was cleared of ordnance in 1948. Former service members stationed at Victorville Army Airfield have stated that only practice bombs had been used on ranges like PBR No. 3 (see paragraph 4c(6)). The doctrinal publication discussed in paragraph 4b(4)(a) identified practice bombs as ordnance preferred in training. The official history of the site discussed in paragraph 4b(4)(c) identifies Victorville ranges used exclusively for training in the use of high explosive or demolition bomb training, implying that there was no operational necessity for using ranges devoted to practice bomb training. Moreover, PBR No. 3 had insufficient acreage to qualify for use as a high explosive or demolition bombing range. Demolition bombing ranges in use at the time were at least three times as large. Safety practices in use at the time would have precluded it. The fairly detailed inspection report of April 1948 discussed in paragraph 4b(4)(d) refers only to the small impact holes that are characteristic of the use of practice bombs.

(2) Judging by the characteristics of low mass (25 kilograms), blunt shape of the nose and its eight inch diameter, dud M26 Aircraft Parachute Flares or expended bodies would not have penetrated deeply into the ground. Most candles would have ejected normally, deployed their parachutes, ignited normally, and have burned to completion, leaving little residue of their black powder content. Moreover, few flare components, live or otherwise would have been missed by the bomb and shell disposal team that cleared this range in 1948. If present, aircraft flares would represent an extremely small portion of any dud population at this site.

(3) The density of live OE presence in this area, be it surface or subsurface, is probably very low, in spite

of its proximity to the target center. A local resident excavating within the boundaries of Area A found no intact ordnance or explosive components despite the fact that he excavated to a depth of three feet (see paragraph 4c(7)).

(4) The presence of the sole set of target rings discussed in paragraph 4b(4), in conjunction with the exclusive northeast to southeast approach pattern discussed in paragraph 4b(5)(c), suggests that the greatest concentration of ordnance hazards at this site lies within an elliptical pattern surrounding these target rings. If visible, this ellipse would be shown to a major axis concurrent with the northeast to southwest approach pattern of the bombing aircraft. The foci would likely be located equidistant from the target center along this major axis. This contrasts with the more complex ordnance concentration distributions expected of other Victorville sites with multiple targets. Surface evidence of this pattern is not evident today due to the clean-up efforts of 1948 and scavenging by the local populace.

c. Area B: Buffer Area

(1) This area is considered to have **potential** ordnance presence. It is probable that some practice bombs and possibly some M26 Aircraft Parachute Flares fell into this area.

(2) Although the assessment team did not find OE in this area, OE was found immediately adjacent to this area. In that the dispersion of debris is fairly large at this site, it is likely that some practice bombs fell into this area.

(3) The same arguments made for Area A in paragraph 7b generally apply for this area as well, although the probability for encountering OE is significantly less.

8. SITE ORDNANCE TECHNICAL DATA

a. End Item Technical Data

Table 8-1, on the next page, has been developed to establish a list of ordnance items that may have been present on the site.

TABLE 8-1 AMMUNITION USED AND EXPLOSIVE/CHEMICAL FILLERS				
Item	Model	Filler, Weight	Fuze Type	Remark
Bomb, Practice, 100-lb. w/ Spotting Charge M1A1	M38A2	Black Powder, 3 lbs.	Integral Inertia	See appendix D-1 and D-3
Bomb, Practice, 100-lb. w/ Spotting Charge M1A1	M85	Black Powder, 3 lbs.	Integral Inertia	See appendix D-2
Flare, Aircraft, Parachute W/Friction Igniter	M26	Black Powder, 70 grains	Mechanical Time, M111	See appendix D-4
Bomb, Practice 100-lb	M47*	Sand Filled	None	See appendix D-5
* Empty body designed for WP and PWP chemical smoke.				

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 CHEMICAL DATA OF ORDNANCE FILLERS		
Explosive Material	Synonyms	Chemical Compounds
Black Powder		
72% Sodium Nitrate		NaNO ₃
11% Sulfur		S
16% Charcoal		C

9. EVALUATION OF OTHER SITE INFORMATION

There are no other known environmental hazards at the former Victorville Precision Bombing Range No. 3 other than those already addressed by the Los Angeles District.

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APPENDIX A

REFERENCE SOURCES

Reference Sources

Organizations	Name	Telephone	Nature of Support
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GOVERNMENT SOURCES

FEDERAL AGENCIES

Department of Defense

Defense Library on Disk Pentagon Library, Room 1A518 Washington, DC 20310-6000	Computer Search (DLOD)	(703) 697-4658	No Information
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National Imagery and Mapping Agency (NIMA/IDS) 5801 Tabor Avenue Philadelphia, PA 19120-5098	Mr. Steven	(800) 826-0342	No Information
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Defense Technical Information Center 8725 John J. Kingman Road Suite 0944 Fort Belvoir, VA 22060-6218	Computer Search (DTIC)	(703) 767-8274	No Information
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Department of Defense Explosives Safety Board (DDESB) 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search	(703) 325-8624	No Information
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National Imagery and Mapping Agency ATTN: ISDFR 4600 Sangamore Road Bethesda, MD 20816	Bill Harris	(800) 826-0342	No Information
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Army

759th Ordnance Company Building 520 Ft Irwin, CA 92310	CPT Grimes 1SG Fortney SFC Woods	(760) 380-4092	Interview (I-3)
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Center of Military History ATTN: DAMH-RAS 1099 14th Street NW Washington, DC 20536	Staff	(202) 761-5416	See Appendix B, Section II, Parts A and B
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Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Department of Defense (continued)			
Army (continued)			
IOC Historical Office ATTN: AMSIO-EAH, Building 390 Rock Island Arsenal Rock Island, IL 61299	Tom Slattery	(309) 794-1450	No Information
Defense Logistics Studies Information Exchange US Army Logistics Management College Fort Lee, VA 23801-6043	Computer Search (DLSIE)	(804) 734-4007	No Information
Rock Island Arsenal Museum ATTN: SMCRI-PCA-M Building 60 Rock Island, IL 61299	Chris Leinicke	(309) 794-5021	No Information
U.S. Army Chemical School Fisher Library Building 1081 Fort McClellan, AL 36205	Richard Pastorett	(205) 848-4414	No Information
U.S. Army Ordnance Museum ATTN: ATSL-DOS-M Building 2601 Aberdeen PG, MD 21005-5201	Rodger Godin	(410) 278-3602	No Information
U.S. Military History Institute Carlisle Barracks Carlisle, PA 17013-5008	Richard Sommers	(717) 245-3611	No Information
U.S. Military History Institute Photo Archives Carlisle Barracks Carlisle, PA 17013	Mike Winey	(717) 245-3434	No Information

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Department of Defense (continued)			
Army (continued)			
US Army Chemical & Biological Defense Command ATTN: AMSCB-CIH Aberdeen Proving Ground, MD 21010-5423	Kathy Ciolfi	(410) 671-4430	Negative Report
USACE, Office of History Humphries Engineer Center 7701 Telegraph Road Alexandria, VA 22310-3865	Martin Gordon	(703) 355-3558	See Appendix B, Section II, Parts A and B
USACE-Los Angeles District 911 Wilshire Blvd. Los Angeles, CA 93043	Deb Castens Greg Boghossian Jeff Armentrout Richard Nagle Delores Henderson	(213) 452-3719	Background Information
USACE-Los Angeles District Southern California Area Office 10845 Rancho Bernardo Road Suite 204 Rancho Bernardo, CA 92127	Jim Walker B.J. Allen	(619) 674-6789	Referral
Air Force			
Air Force Historical Research Agency 600 Chennault Drive Maxwell AFB, AL 36112	Thomas Dean	(334) 953-2395	No Information
95th CEG Edwards Air Force Base, CA	MSGT Hepner TSGT Glinka	(805) 277-2162	Interview (I-4)

Reference Sources
(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Department of Defense (continued)			
Navy			
U.S. Naval Civil Engineering Support Office Building 20, 1023rd Avenue Port Hueneme, CA 93403-4310	Bob Brickley Cliff Ledderer	(805) 982-5593	No Information
Naval Construction Battalion Center (NCBC) Technical Information Center ATTN: Code 72 1100 23rd Avenue Port Hueneme, CA 93043	Brian Thompson	(805) 982-1124	No Information
Naval Construction Battalion Center (NCBC) Civil Engineering Support Office ATTN: Code 15 1100 23rd Avenue Port Hueneme, CA 93043	Mona Leon-Guerrero	(805) 982-3057	No Information
NAVEODTECDIV Technical Library 2008 Stump Neck Road Indianhead, MD 20640-5070	Betty Arbogast Dawn Risko	(301) 743-6834	No Information
Naval Construction Battalion Center (NCBC) ATTN: CODE 10H-NAVFAC Historian 10 23rd Avenue Port Hueneme, CA 93043	Dr. Vince Transano Carol Marsh	(805) 982-5913 (805) 982-5569	No Information
Marine Corps Air Ground Combat Center EOD Unit Twenty Nine Palms, CA 92272	MAJ Allston	(760) 830-7215	No Information

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Department of Defense (continued)			
Navy (continued)			
Navy Historical Center Building 57 Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3171	See Appendix B, Section II, Parts A and B
Marine Corps Historical Center Building 58 Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3483	See Appendix B, Section II, Parts A and B
National Archives and Record Administration			
National Archives Archives II (Cartographic/Architectural Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7040	See Appendix B, Section II, Parts A and B
National Archives Archives II (Civil Reference Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B
National Archives Archives II (Still Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-6660	See Appendix B, Section II, Parts A and B
National Archives Archives II (Motion Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7060	See Appendix B, Section II, Parts A and B

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
National Archives and Record Administration (continued)			
National Archives Archives II (Textual Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B
National Archives Archives I (Modern Military) Pennsylvania Avenue & 7 th Washington, DC 20408	Staff	(202) 501-5385	See Appendix B, Section II, Parts A and B
National Archives Archives I (Old Military) Pennsylvania Ave. & 7th Washington, DC 20408	Staff	(202) 501-5390	See Appendix B, Section II, Parts A and B
National Archives Archives I (Navy) Pennsylvania Ave. & 7th Washington, DC 20408	Staff	(202) 501-5671	See Appendix B, Section II, Parts A and B
NARA-Archives II (Civil Reference Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B
Washington National Records Center 4205 Suitland Road Suitland, MD 20409	Staff	(301) 457-7000	See Appendix B, Section II, Parts A and B
National Personnel Records Center 9700 Page Avenue St. Louis, MO 63132	Wilson Sullivan	(314) 538-4085	See Appendix B, Section III, Parts A and B

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
National Archives and Record Administration (continued)			
NARA-Pacific Region (Laguna Niguel) 24000 Avila Road Laguna Niguel, CA 92607	Suzanne Dewberry	(714) 360-2641	See Appendix B, Section II, Parts A and B
NARA-Pacific Region (San Francisco) 1000 Commodore Drive San Bruno, CA 94066-2350	Bill Greene Lisa Miller	(415) 876-9015	See Appendix B, Section II, Parts A and B
Department of the Interior			
EROS Data Center Sioux Falls - ESIC U.S. Geological Survey Sioux Falls, SD 57198	Staff	(605) 594-6151	Aerial Photographs
USGS Information Services Box 25286, Bldg 810 Denver Federal Center Denver, CO 80225	Staff	(303) 202-4700	Topographical Maps
Bureau of Land Management 6221 Box Springs Blvd. Riverside, CA 92507	John Keyes	(909) 697-5383	No Information
Bureau of Land Management Barstow Resource Area 150 Coolwater Lane Barstow, CA 92311	Jerry Bronson Tim Reab	(619) 255-8700	Interview (I-2)
U.S. Fish and Wildlife Service Ecological Services 2493 Portola Road, Suite B Ventura, CA 93003	Ray Branfield	(805) 644-1766	Information Concerning Endangered/Threatened Species

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Department of Commerce			
NOAA National Climatic Data Center Federal Building, Room 305 Asheville, NC 28801	Yolanda Goosch Sam Mccowan	(704) 271-4272	Climatic Data
NOAA Air Force Weather Service 151 Patton Avenue, Room 120 Asheville, NC 28801	Janet Wall	(704) 271-4404	Climatic Data
Department of Agriculture			
Consolidated Farm Service Agency 44811 Date Avenue West Lancaster, CA 93534	Doug Brand Holleen	(805) 942-9549	No Information
Natural Resource Conservation Service 18484 Highway 18, Suite 195 Apple Valley, CA 92307	Jackie Lindgren Rick Aguayo	(760) 242-2906	Soil Survey
Natural Resources Conservation Service P.O. Box 788115 Building 1456, Griffin Road Twenty-nine Palms, CA 92278	John Rule	(760) 830-7011	No Information
Aerial Photography Field Office P.O. Box 30010 2222 West 2300 South Salt Lake City, UT 84131-0010	Sherrie Holyoak	(801) 975-3503	No Information
United States Congress			
Library of Congress Geography And Map Division Washington, DC 20536	Staff	202-707-5522	See Appendix B Section II Parts A and B

Reference Sources

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Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
Smithsonian Institution			
Smithsonian National Air and Space Museum Historical Research Division Washington, DC 20560	Staff	(202) 357-3133	See Appendix B, Section III, Parts A and B
State Agencies			
California State Archives 1020 East O Street Sacramento, CA 92415	Mr. Metzger	(916) 653-2246	No Information
California State Historic Preservation Office San Bernardino Archaeological Information Center 2024 Orange Tree Lane Redland, CA 92374	Robin Laska	(909) 792-1497 Fax 798-8585	Information Concerning Historical, Cultural and Archaeological Resources
California State Library California History Section 914 Capitol Hall Library and Courts Building Sacramento, CA 94237	John Gonzales Sybylle Zemitis	(916) 654-0176	No Information
California State Library Government Documents Section 914 Capitol Hall Library and Courts Building Sacramento, CA 94237-0001	Brent Murphy	(916) 654-0069	No Information
California State University, San Bernardino Library 5500 University Parkway San Bernardino, CA 92407	Reference Librarian	(909) 880-5084	No Information

Reference Sources
(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
State Agencies (continued)			
State of California Department of Fish and Game 1416 9th Street Sacramento, CA 95814	Internet	http://www.dfg .ca.gov/ Endangered/ Endangered .html	Endangered Species Information
University of California P.O. Box 19557 Irvine, CA 92110	Reference Desk	(714) 824-6836	No Information
University of California Government Documents Department P.O. Box 19557 Irvine, CA 92110	Jeff Schneidewind Kay Collins	(714) 824-7234	No Information
University of California Archives P.O. Box 19557 Irvine, CA 92713	Mary Ellen Goddard	(714) 824-7193	Referrals
County and Local Agencies			
San Bernardino County Archives 777 East Rialto Avenue San Bernardino, CA 92415	Jim Hoffer	(909) 387-2030	No Information
San Bernardino County Assessor 172 West 3rd Street San Bernardino, CA 92415	Staff	(909) 387-8307	Real Estate Information
San Bernardino County Flood Control 825 East 3rd Street San Bernardino, CA 92415	Gary Duncan	(909) 387-2529	No Information
San Bernardino County Library Victorville Branch 15011 Circle Drive Victorville, CA 92392	Mr. Booker	(619) 245-4222	Referral

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
County and Local Agencies (continued)			
San Bernardino County Library Adelanto Branch 11744 Bartlett Avenue Adelanto, CA 92301-1753	Staff	(619) 246-5661	No Information
San Bernardino County Library Lucerne Valley Branch 33103 Old Woman Springs Rd Lucerne Valley, CA 92356	Reference Desk	(619) 248-7521	Referral
San Bernardino County Museum 2024 Orange Tree Lane Redlands, CA 92374	Robin Laska Noella Benvenuti Pamela Frost	(909) 798-8570	No Information
San Bernardino County Planning 385 North Arrowhead Avenue San Bernardino, CA 92415	Marla Taub	(909) 387-4131	No Information
San Bernardino County Sheriff's Department Barstow Station 225 East Mountainview Barstow, CA 92311	Sergeant Jecusco	(760) 256-4841	Negative Report
San Bernardino County Sheriff's Department Bomb Squad 655 East 3rd Street San Bernardino, CA 92415	Tom Alsky Bill Myers Bob Hall	(909) 387-3598 -3606 -3601 Fax: -3455	Interview (I-1)
San Bernardino Public Library 555 West 6th Street San Bernardino, CA 92415	Chris Shovey	(909) 381-8208	Background Information

Reference Sources

(continued)

Organizations	Name	Telephone	Nature of Support
NON-GOVERNMENT SOURCES			
National Agencies			
Council on America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 396-4693	No Information
Online Computer Library Center 6565 Frantz Road Dublin, OH 43017-3395	Computer Search (OCLC)	(800) 848-5878	No Information
Coast Defense Study Group, Inc. 731 Baltimore Pike Bel Air, MD 21014	Publication		No Information
Scientific and Technical Information Library System 689 Discovery Drive Huntsville, AL 35806	Computer Search (STILAS)	(205) 922-9820	No Information
Air Force Times 6883 Commercial Drive Springfield, VA 22159	Locators Staff	(800) 368-5718	Locator Service
Knight-Ridder Information Inc 2440 El Camino Mountain View, CA 94040	Computer Search (DIALOG)	(800) 334-2564	No Information
State Historical Society of Wisconsin Library 816 State Street Madison, WI 53706	Staff	(608) 264-6534	Post Newspaper
Local Agencies			
California Historical Society 678 Mission Street San Francisco, CA 94105	Beth Graham	(415) 357-1848	No Information

Reference Sources
(continued)

Organizations	Name	Telephone	Nature of Support
NON-GOVERNMENT SOURCES			
Local Agencies (continued)			
Mojave Historical Society P.O. Box 68 Victorville, CA 92392			Referral
San Bernardino Visitor and Convention Bureau 201 North E. Street San Bernardino, CA 93063	Staff	(909) 889-8937	No Information
Victorville Chamber of Commerce 14174 Greentree Boulevard Victorville, CA 92392	Sally Martinez	(760) 245-6506	No Information
Victorville Museum 11873 Apple Valley Road Apple Valley, CA 92307	Walter Day Wayne Fowlie	(619) 240-2111	No Information
Individuals			
Mr. Glenn Brooks (former service member)		(405) 732-8877	Interview (I-5)
Mr. Owen Cooper (former service member)		(410) 747-5991	Interview (I-6)
Mr. Buddy Holiday, Sr. (property owner)		(760) 247-4758	Interview (I-7)

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APPENDIX B

REFERENCES AND ABSTRACTS

APPENDIX B

REFERENCES AND ABSTRACTS

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	Part A: Positive Reports
	Part B: Negative Reports
SECTION III	Regional National Archives Search References
	Part A: Positive Reports
	Part B: Negative Reports

APPENDIX B

REFERENCES AND/OR ABSTRACTS

- B-1. U.S. Army Corps of Engineers, Los Angeles District, "DERP-FUDS Inventory Project Report (INPR)", 3 May 1996 (E-1, E-2).
- B-2. U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of San Bernardino County, California, Mojave River Area, Issued February 1986.
- B-3. National Oceanic and Atmospheric Administration, Climate Of California, Revised June 1982.
- B-4. U.S. Army Corps of Engineers, St. Louis District, "Archives Search Report, Victorville PBR N-1, Victorville PBR #2, Victorville PBR #7, and Victorville PBR #8", June 1995.
- B-5. U.S. Fish and Wildlife Service, Ventura, CA, Letter, "Species List for the Former Victorville Precision Bombing Range, San Bernardino County, California", 19 December 1997 (F-1).
- B-6. State of California, Department of Fish & Game, files of the Natural Diversity Data Base, "Listed Species in San Bernardino County", December 1997 (F-2).
- B-7. Archaeological Information Center, Redlands, CA, Letter concerning historic and archaeological sites, 11 November 1997 (F-3).
- B-8. Victorville Army Air Field, "Historical Record of Victorville Army Air Field, Victorville, California from 8 December 1941 to 1 January 1943". Center for Air Force History, Microfilm Collection, Rolls B2647 to B2649.
- B-9. Victorville Army Air Field, "Historical Record of Victorville Army Air Field, Victorville, California from 1 January 1943 to 1 March 1944". Air Force Historical Research Agency Call Number 289.40, IRIS 00179294 (F-6).
- B-10. Victorville Army Air Field, "Historical Record of Victorville Army Air Field, Victorville, California from 1 November 1944 to 31 December 1944". Air Force Historical Research Agency Call Number 289.40-8, IRIS 00179308 (F-4 and F-8).

- B-11. Headquarters, Army Air Forces, Army Air Forces Installations Directory, 1 September 1945.
- B-12. U.S. Geological Survey, Aerial Photograph in the Fairview Valley Quadrangle, 30 August 1990 (K-1).
- B-13. Victorville Army Air Field, "Report of the Deduinding of Victorville Bombing Targets, San Bernardino County, California", 4 February 1948. NARA-Pacific Region, Laguna Niguel Office, RG 77, Accession 77-96-133, Box 27 (F-5).
- B-14. War Department, Training Allowances, AR 775-10, 1 January 1941.
- B-15. War Department, Training Allowances, AR 775-10, 17 September 1947.
- B-16. Historical Division, Assistant Chief of Air Staff, Intelligence, "Individual Training of Bombardiers, May 1944 (F-9).
- B-17. U.S. Army Corps of Engineers, Rock Island District, Archives Search Report, Sand Hill Bombing and Gunnery Range, January 1996.
- B-18. U.S. Army Corps of Engineers, Rock Island District, Archives Search Report, Millville Bombing and Gunnery Range, February 1998.
- B-19. USAF Historical Division, Maxwell Air Force Base, "Brief History of George Air Force Base", April 1956. Air Force Historical Research Agency, K110, 5035-1.
- B-20. War Department, Precision Bombing Practice, TM 1-250, 15 January 1943 and changes dated 9 March 1943, 30 June 1943, 26 November 1943 and 15 April 1944.
- B-21. War Department, Aerial Gunnery Practice and Record Firing, TM 1-270, 7 May 1942.
- B-22. San Bernardino County, Plat Maps and Ownership Information, January 1998.
- B-23. U.S. Army Corps of Engineers, Rock Island District, "Site Safety Plan for Ordnance and Explosive Waste", 25 June 1992 with appendix A-209, dated 15 January 1998.
- B-24. Ordnance Corps, Drawing, Bomb, Practice, 100 lb., M38A2, Assembly Complete, 82-0-23, 10 August 1955 (D-1).

B-25. Ordnance Corps, Drawing, Bomb Practice, 100 lb. M38A2 Metal Parts Assembly and Marking Diagram, 82-3-213, 23 August 1955 (D-1).

B-26. Ordnance Corps, Drawing, Bomb, Practice, 100 lb., M85, Assembly Complete, 82-0-96, 17 August 1944 (D-2).

B-27. U.S. Army Corps of Engineers, Construction Division, Final Project Ownership Map, Victorville Army Air Field Bombing Ranges, 19 September 1945. NARA-Pacific Region, Laguna Niguel, RG 77, Accession 077-96-133, Box 27 (G-14).

B-28. Ordnance Corps, Drawing, Charge Spotting, M1A1, (Black Powder), and Details for M1A1, M3 and M4, 82-3-228, 4 June 1956 (D-3).

B-29. Navy Department, Aircraft Pyrotechnics and Accessories, OP 998 (second revision), 29 May 1947 (Table 8-1 and document D-4).

B-30. Ordnance Corps, Drawing, Bomb, Smoke PWP, 100-lb, AN-M47A4 Assembly, Complete, 82-0-80, 30 April 1948 (D-5).

B-31. War Department, Bombs for Aircraft, TM 9-1980, 3 June 1942 (Table 8-1).

B-32. Ordnance Department, Complete Round Charts, No. 5981, 1947 (Table 8-1).

B-33. Departments of the Army and Air Force, Military Explosives, TM 9-1910 TO 11A-1-34, 14 April 1955 (Table 8-2).

B-34. U.S. Army Corps of Engineers, Huntsville Division, "Archives Search Report Procedural Document", June 1994.

B-35. Department of the Army, Environmental Protection and Enhancement, AR 200-1, 23 April 1990.

B-36. U.S. Army Corps of Engineers, Huntsville Division, "Management Plan for Ordnance and Explosive Waste (OEW) Mandatory Center of Expertise (MCX) and Design Center" CEHND 1105-3-9, 19 August 1992.

B-37. U.S. Army Corps of Engineers, Rock Island District, "CENCR Management Plan for Ordnance and Explosive Waste Investigations", dated 20 July 1992, with revisions dated 10 March 1995 and 23 June 1995.

B-38. Navy Department, Aircraft Bombs, OP 1280, 17 February 1945 (Table 8-1 and D-5).

B-39. U.S. Army Corps of Engineers, Los Angeles District, Memorandum, Subject: Inspection by Joint Property Survey Team No. 9, 28 April 1948. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (F-7).

B-40. Department of the Interior, Washington, D.C., Public Land Order 125, 20 May 1943. NARA-Southwest Pacific Region, RG 270, Box 162 (G-1).

B-41. U.S. Army Corps of Engineers, Los Angeles District, Final Property Ownership Map, Victorville Precision Bombing Range No. 3, 12 December 1947, Revised to 10 March 1949. NARA-Pacific Region, Laguna Niguel, RG 270, Box 162 (G-2).

B-42. Department of the Interior, Washington, D.C., Public Land Order 581, 7 April 1949. NARA-Pacific Region, RG 121, Accession 9NSS-121985-001, Box 46 (G-3).

B-43. U.S. District Court, Southern District of California, Central Division, Final Judgment and Decree in Condemnation, pertaining Tract No. 31, 19 April 1943. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-4).

B-44. U.S. District Court, Southern District of California, Central Division, Final Judgment and Decree in Condemnation, pertaining to Tract No. 32, 17 April 1943. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-5).

B-45. U.S. District Court, Southern District of California, Central Division, Final Judgment and Decree in Condemnation, pertaining to Tract No. 34, 19 April 1943. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-6).

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B-47. Quitclaim Deed, 4 February 1949, transferring ownership of Tract 35 from the United States of America to Mrs. Carmen E. Oldenburg, Mrs. Barbara Oldenburg-Willman and Betty Louise Oldenburg. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-8).

B-48. Quitclaim Deed, 7 March 1949, transferring ownership of Tract 31 from the United States of America to Chester and Marie Wilson. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-9).

B-49. Quitclaim Deed, 8 April 1949, transferring ownership of Tract 32 from the United States of America to George and Josephine Shield. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-10).

B-50. Quitclaim Deed, 16 May 1949, transferring ownership of Tract 33 from the United States of America to Bernard J. Westlund. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-11).

B-51. Quitclaim Deed, 7 March 1949, transferring ownership of Tract 34 from the United States of America to Kendrell and Viola Battenschlag. NARA-Pacific Region, San Francisco, RG 121, Accession 9NSS-121-85-001, Box 46 (G-12).

B-52. War Assets Administration Narrative Report, subject: Description of Victorville Bombing Target Site 3, circa 1947, Victorville, California. NARA-Pacific Region, Laguna Niguel, RG 77, Accession 077-96-133, Box 27 (G-13).

B-53. Nevin M. Fenneman, Physiography of Western United States, McGraw-Hill Book Company, Inc., New York and London, 1931.

B-54. Ordnance Corps, Drawing, Bomb, Practice, 100 lb., M85, Body Assembly and Marking Diagram, 82-3-405, 15 October 1945 (D-2).

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VICTORVILLE PRECISION BOMBING RANGE NO. 3, CA

Also Researched Under Victorville, CA; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Comprehensive History of Victorville Air Force Base, Victorville,
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Historical Record of 3035th A.A.F. Base Unit, Victorville Army Airfield,
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Also Researched Under Barstow, CA; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Entry 54: Highway Traffic Advisory Committee to the War Department, 1941 -
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RG 57 (Records of the United States Geological Survey)

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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 - 1945

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

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Paper, Real Property Classification, Re: Victorville
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Memo, From War Assets Administration To Farm Credit
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Memo, Subj: Short Form Appraisal, 3 February 1947

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Memo, Subj: Victorville Army Flying School, Victorville,
California - Contract No. W-509-Eng.-2196 - Bombing
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Memo, Subj: Transfer of Real Property, 21 May 1946

Memo, Subj: Decontamination of Bombing and Gunnery Ranges,
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Memo, From 4196th AAF Base Unit to Sub-Station Sheriff's
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Memo, Status of Assignment of Bombing and Gunnery Ranges,
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Memo, Subj: Status of Assignment of Bombing and Gunnery
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Memo, Subj: Teletype SBCON-2-2 dated 4 Feb 47, 10 Feb 1947

Paper, Statistical Data Bombing Ranges, Victorville Army Air
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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

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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 3 as Surplus
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Military Acquisition Project Report, Victorville PBR #3,
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Memo, Subj: Report of the Deduinding of Victorville Bombing
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Certificate of Clearance, Victorville Bombing Targets Nos.
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Transfer and Accountability of Surplus Real Property,
Victorville Bombing Site #3, 10 May 1948
Declaration of Surplus Real Property (Correction),
Victorville PBR #3, 14 Jul 1948
Memo, Subj: Return of Public Domain Land to DOI, 9 Aug 1948
Memo, From War Assets Administration to Management and
Disposal Division, Corps of Engineers, 28 Jul 1948
Real Property Management and Disposal Report, Victorville
PBR #3, 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

Real Property Classification, Victorville PBR #3, 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
Letter, From Mrs. Oldenburg to Rep. Richard Nixon, Re:
Wanting to Repurchase 80 Acres of Land, 29 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, Subj: Victorville Bombing Target Site 3, W. Calif
259, 17 May 1948
Memo, From WAA to Honorable Richard M. Nixon, Re: Mrs.
Oldenburg Wanting to Repurchase 80 Acres of Land,
19 May 1948

Memo, From WAA to BLM, Re: Return of Land to Public Domain,
19 May 1948

Memo, Subj: Victorville PBR Target No. 3, 21 May 1948

Real Property Disposal Advice, Victorville Bombing
Target #3, 10 Jun 1948

Real Property Disposal Advice, Victorville Precision
Bombing Range #3, 1 Jul 1948

SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

VICTORVILLE PBR NO. 3

***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
Accession #342-54A4118
Box #06-38-18-1-1
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 EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX C

GLOSSARY

APPENDIX C

GLOSSARY

1SG	First Sergeant
AR	Army Regulation
BD	Building Demolition or Base Detonating
BD/DR	Building Demolition/Debris Removal
BLM	Bureau of Land Management
CEHNC	Corps of Engineers, Huntsville Center
CEMVR	Corps of Engineers, Mississippi Valley, Rock Island District
CENCR	Corps of Engineers, North Central Division, Rock Island District
CESPL	Corps of Engineers, South Pacific Division, Los Angeles District
COE	Corps of Engineers
CON/HTRW	Containerized Hazardous, Toxic, and Radioactive Waste
CPT	Captain
CWM	Chemical Warfare Material
DA	Department of the Army
DAC	Defense Ammunition Center
DACS	Defense Ammunition Center
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EE/CA	Engineering Evaluation/Cost Estimate
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Sites
HTRW	Hazardous, Toxic and Radiological Waste
HTW	Hazardous and Toxic Waste
INPR	Inventory Project Report
IRP	Installation Restoration Program
MK	Mark
MSGT	Master Sergeant
NARA	National Archives Records Administration
OE	Ordnance and Explosives
PA	Preliminary Assessment
PBR	Precision Bombing Range
PN	Project Number or Part Number
QASAS	Quality Assurance Specialist (Ammunition Surveillance)
RD/RA	Remedial Design/Remedial Action
RG	Record Group
SAB	Same As Before
SFC	Sergeant First Class
SI	Site Investigation or Site Inspection
SIOAC-ES	Army Material Command Ammunition Center- Explosive Safety
TM	Technical Manual

TO	Technical Order
TSGT	Technical Sergeant
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USATCES	U.S. Army Technical Center for Explosives Safety
UXO	Unexploded Ordnance
VAAF	Victorville Army Air Field
WD	War Department

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX D

TEXTS/MANUALS

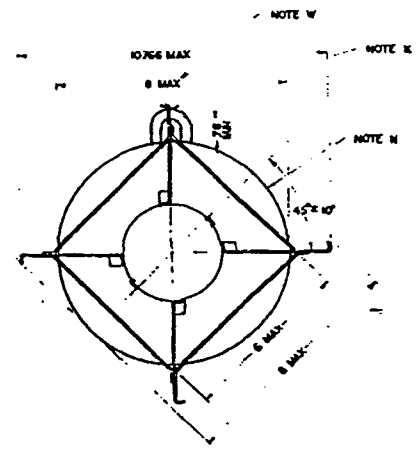
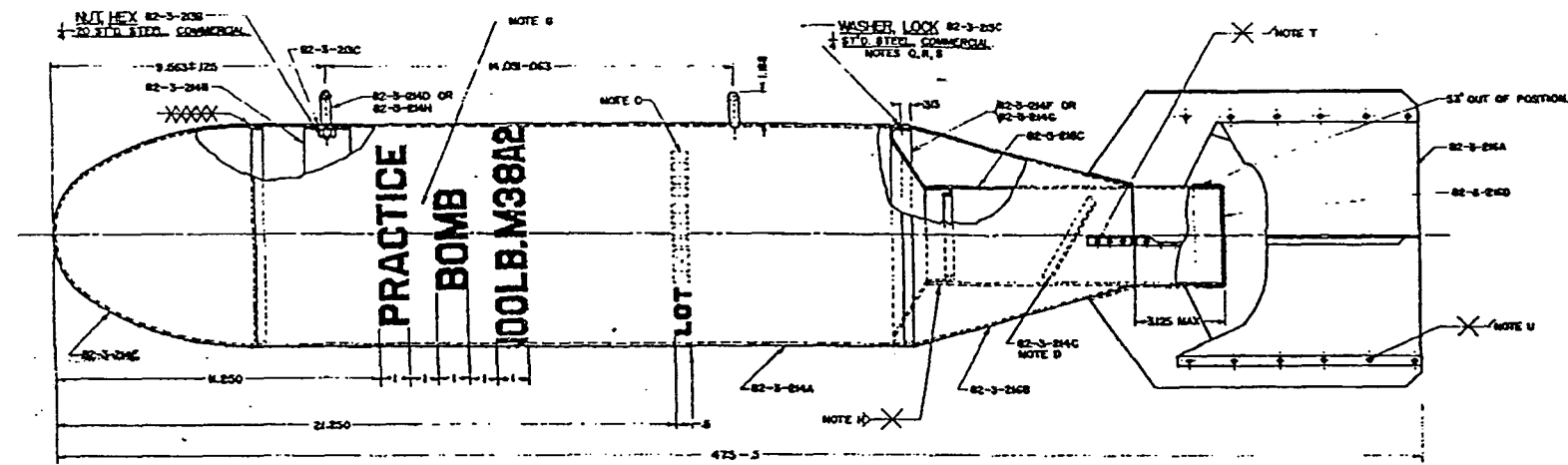
APPENDIX D
TEXTS/MANUALS

Table of Contents

- D-1 Bomb, Practice, 100 lb., M38A2, Complete Assembly (B-24, B-25).
- D-2 Bomb, Practice, 100 lb., M85 (B-26, B-54).
- D-3 Charge Spotting, M1A1 (B-28).
- D-4 Flare, Aircraft, Pyrotechnic, M26 (B-29).
- D-5 Bomb, Smoke (empty) M47 Series, (B-38).

UNCLASSIFIED

REV	DATE	BY	DESCRIPTION
1			



METAL PARTS ASSEMBLY AND MARKING DIAGRAM 82-3-233A

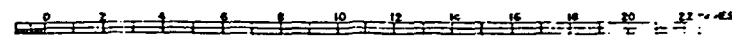
- NOTES-
- A- COAT ENTIRE EXTERIOR SURFACE WITH BLUE NO. 3830, ENAMEL. NOTES L, M
 - B- MARK WITH WHITE MARKING INK, NO. 3715.
 - C- INSERT LOT NUMBER OF BOMB AND DATE (MONTH AND YEAR) OF MANUFACTURE.
 - D- PLACE HEAD COVER LOOSELY IN SLEEVE FOR SHIPMENT.
 - E- THE CENTERLINE OF THE COMPLETE TAIL ASSEMBLY SHALL NOT DEPART FROM THAT OF THE BODY BY MORE THAN $\frac{1}{16}$ AS MEASURED AT THE EXTREME ENDS OF THE FIN.
 - F- SLEEVE COVER SHOULD NOT BE SHAPED OVER PROJECTION TABS.
 - G- LETTERS, FIGURES AND SPACING $\frac{1}{16}$ INCH HIGH, PERMISSIBLE.
 - H- $6 \times \frac{1}{8}$ DIA. SPOT WELDS OR $10 \times \frac{1}{8}$ DIA. PROJECTION WELDS, EQUALLY SPACED (OPTIONAL)
 - K- COAT ENTIRE INTERIOR SURFACE WITH ACID-PROOF BLACK PAINT, TYPE I. NOTE L
 - L- PREPARE THE EXTERIOR SURFACES IN ACCORDANCE WITH GRADE I, SPEC. MIL-C-490, BEFORE COATING. THE INTERIOR SURFACE IS TO BE PREPARED OR CLEANED BY ANY METHOD ACCEPTABLE UNDER SPEC. MIL-C-490 BEFORE PAINTING.
 - M- PLATED SUSPENSION LUGS NOT REQUIRED TO BE PAINTED.
 - N- OUT OF ROUND TOLERANCE .025 ON DIAMETER.
 - P- ALTERNATIVE- $24 \times \frac{1}{8}$ DIA. PROJECTION WELDS.
 - Q- WELD HEAD TO BODY WITH $12 \times \frac{1}{8}$ DIA. SPOT WELDS EQUALLY SPACED. NOTE P
 - R- WELDS TO BE LOCATED APPROX. AT CENTER OF LAP. HEIGHT OF WELD METAL $\frac{1}{16}$ MAX AT ANY POINT ON CIRCUMFERENCE.
 - S- WELD CONE TO HEAD WITH $12 \times \frac{1}{8}$ DIA. SPOT WELDS EQUALLY SPACED BETWEEN WELDS JOINING HEAD TO BODY. NOTE P
 - T- $6 \times \frac{1}{8}$ DIA. SPOT WELDS, EQUALLY SPACED $\frac{1}{8}$ FROM EACH END. ALTERNATIVE- $10 \times \frac{1}{8}$ PROJECTION WELDS, EQUALLY SPACED, STAGGERED IN TWO ROWS.
 - U- $6 \times \frac{1}{8}$ DIA. SPOT WELDS OR $10 \times \frac{1}{8}$ PROJECTION WELDS EQUALLY SPACED, $\frac{1}{8}$ FROM EACH END. ALTERNATIVE- $6 \times \frac{1}{8}$ PROJECTION WELDS AND $4 \times \frac{1}{8}$ SPOT WELDS.
 - W- THIS DIMENSION DOES NOT INCLUDE HEIGHT OF WELDING METAL.
 - Z- END OF FIN BLADE TO BE IN ALIGNMENT WITH CENTER OF SUSPENSION LUG WITHIN $\frac{1}{16}$ INCH.

REV	LIST OF DRAWINGS	DRAWING NUMBER
1	METAL PARTS ASSEMBLY	82-3-233
2	DETAILS	82-3-234
3	DETAILS	82-3-235
4	WIRE, ARMING FOR BOMBS.	82-3-234
5	CARTON, PACKING	76-8-42
6	PACKING AND MARKING	20-4-198

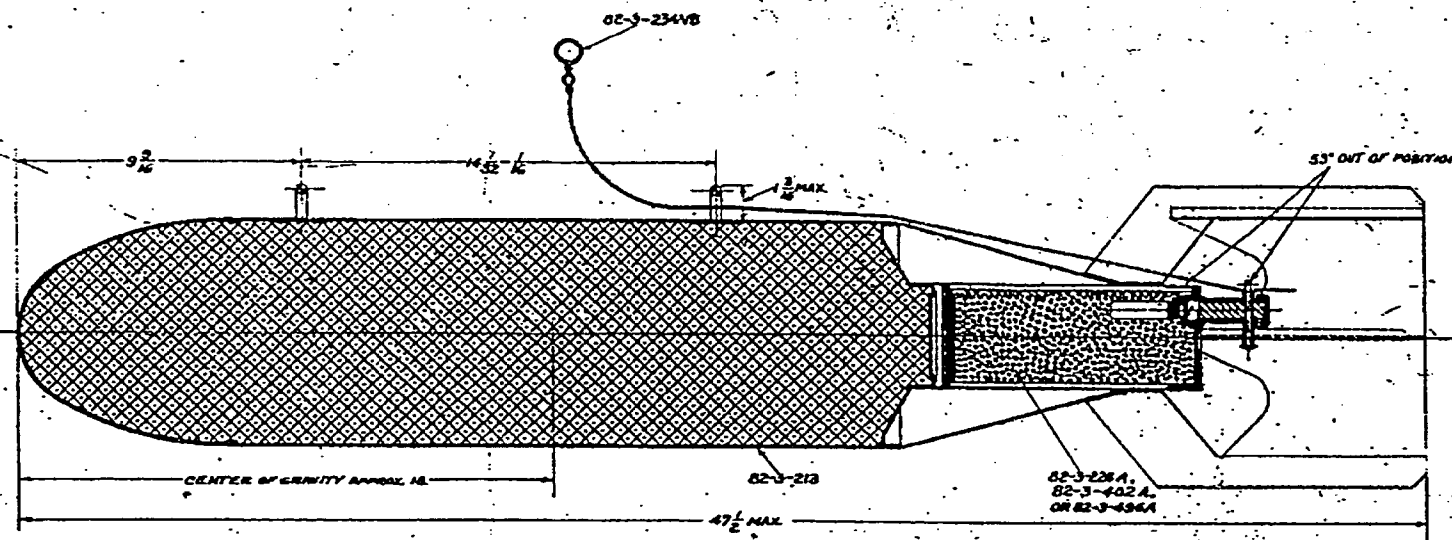
Handwritten note: Note

NOTICE: This drawing shall not be used in connection with any other drawing unless specifically stated otherwise on the drawing.

WITH 82-3-213A SUPERSEDES 82-3-213
WITH CHANGE SEPTEMBER 23, 1955



<p>82-3-233</p> <p>82-3-233A</p> <p>82-3-233B</p> <p>82-3-233C</p> <p>82-3-233D</p> <p>82-3-233E</p> <p>82-3-233F</p> <p>82-3-233G</p> <p>82-3-233H</p> <p>82-3-233I</p> <p>82-3-233J</p> <p>82-3-233K</p> <p>82-3-233L</p> <p>82-3-233M</p> <p>82-3-233N</p> <p>82-3-233O</p> <p>82-3-233P</p> <p>82-3-233Q</p> <p>82-3-233R</p> <p>82-3-233S</p> <p>82-3-233T</p> <p>82-3-233U</p> <p>82-3-233V</p> <p>82-3-233W</p> <p>82-3-233X</p> <p>82-3-233Y</p> <p>82-3-233Z</p>	<p>BOMB PRACTICE, 100LB, M38A2 METAL PARTS ASSEMBLY AND MARKING DIAGRAM</p> <p>82-3-233</p>	<p>ARMY CORPS OF ENGINEERS</p> <p>82-3-233</p>
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ASSEMBLY 82-0-2346

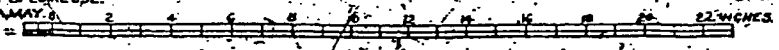
Obsolete
 SUPERSEDES OLD TRACING 82-0-23 UNDER REVISION DATE OF DEC. 24, 1937.

LINE NO.	NAME OF COMPONENT	DRAWING NUMBER OR PRECFMARK	APPROXIMATE WEIGHT (POUNDS)	APPROXIMATE WEIGHT (POUNDS)
1	ASSEMBLY	82-0-23	100.0	53.0
2	FILLER		80.0 (A)	33.0 (A)
3	LOOP SWIVEL	82-3-185		
4	METAL PARTS ASSEMBLY	82-3-213	15.7 (A)	15.7 (A)
5	SPOTTING CHARGE ASSEMBLY (C)	82-3-228	4.25	4.25
6	WIRE, ARMING, ASSEMBLY AM-MCA2	82-3-234VB	.06	0.0
7				
8				
9				
10				
11				
12				

LINE NO.	NOMENCLATURE	WEIGHT (LBS)	WEIGHT (LBS)
1	METAL PARTS ASSEMBLY	15.7	15.7
2	SPOTTING CHARGE ASSEMBLY (C) BLACK POWDER	1.25	1.25
3			
4	BLACK POWDER	3.0 (A)	3.0 (A)
5			
6	FILLER (SAND)	80.0	33.0 (C)
7	TOTAL	100.0	53.0

(A) WEIGHT PERTAINS TO SODIUM NITRATE BLACK POWDER.

- (A) WEIGHT SHOWN IS WITHOUT SLEEVE COVER.
- (B) FILLER, SAND.
- (C) FILLER, 2 PARTS SAND/ST AND 1 PART SAND, FOR SPECIAL USE.
- (D) SPOTTING CHARGE M3 82-3-402A OR M4 82-3-486A MAY BE USED WHEN REQUIRED.



BOMB, PRACTICE, 100LB, M38A2
 ASSEMBLY COMPLETE

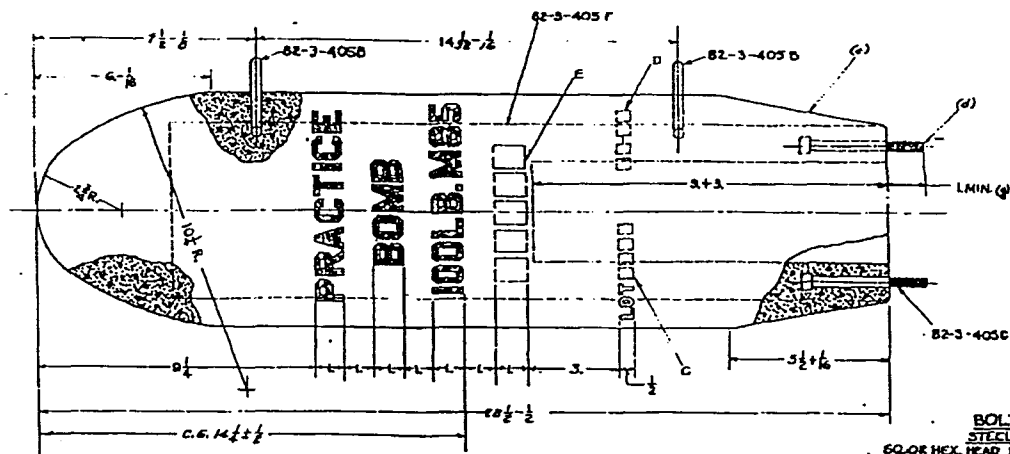
DECEMBER 24, 1937

REVISIONS	CLASS	DIVISION	DRAWING FILE
1 4-23-37	82	0	234
2 10-24-37			
3 2-7-48			
4 11-23-48			
5 8-15-48			
6 10-31-57			

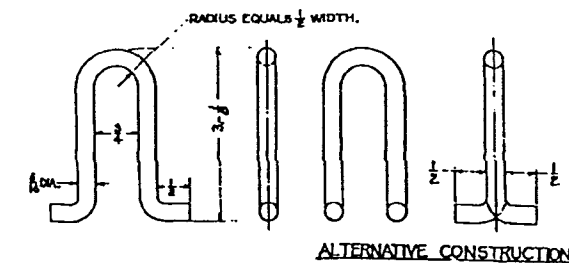
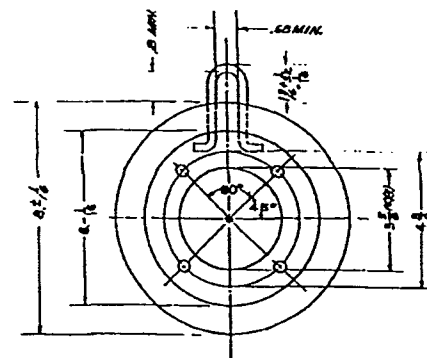
DRG. PERTAINS TO: *COV*

APPROVED BY: *J. R. Bennett*
100B

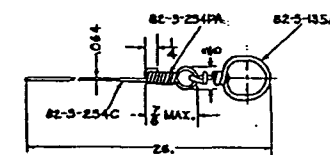
ORDINANCE DEPT.



BODY ASSEMBLY, 82-3-405 A2
 REINFORCED CONCRETE
 WEIGHT = 85 ± 3 LBS.



LUG, SUSPENSION, 82-3-405 B2
 STEEL W/IDIO
 COAT ALL SURFACES WITH PRIMER,
 SYNTHETIC, LACQUER-RESISTING.

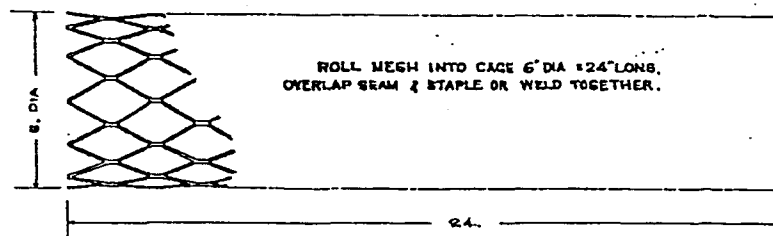


ARMING WIRE ASSEMBLY 82-3-405 D

BOLT, TAIL, 82-3-405 C2
 STEEL, COMMERCIAL
 5/16" HEX HEAD MACH. BOLT OR ROUND HEAD BOLT.
 2 1/2" X 1/16" LONG, THREADED 1/16"
 CADMIUM OR ZINC PLATE.

NOTES:-

B-MARK WITH BLACK LACQUER ENAMEL OR
 BLACK STENCIL INK.
 C-INSERT LOT NUMBER OF BOMB
 D-INSERT DATE (MONTH AND YEAR) OF MANUFACTURE.
 E-INSERT A.I.C. CODE.



CAGE, REINFORCING, 82-3-405 F
 EXPANDED STEEL, #18 GA, 1 1/2" X 2 1/2" DIAMOND MESH, COMMERCIAL.

LINE NO.	LIST OF SPECIFICATIONS.	SPEC. NUMBER	REQUIRED BY
1	AMMUNITION, EXCEPT SMALL ARMS AMM, GENERAL SPEC FOR.	82-0-1	DRG. 82-3-405
2	BOMB, PRACTICE, 100 LB, M85	AXS-1870	DRG. 82-3-405
3			
4			
5	INK, STENCIL, OPAQUE, FOR MARKING POROUS SURFACES (WOODEN BOXES, ETC)	TT-1-559	DRG. 82-3-405
6	LACQUER, ENAMEL, LUSTRELESS	JAN-L-73	DRG. 82-3-405
7	METALS, GEN. SPEC. FOR INSPECTION OF	QQ-M-151	57-136
8	PAINTS AND RELATED MATERIALS, GENERAL SPEC. FOR	5-1	JAN-L-73
9	PRIMER, SYNTHETIC, LACQUER-RESISTING	JAN-P-72	DRG. 82-3-405
10	STEEL, CARBON & ALLOY, BARS	57-107	DRG. 82-3-405

NOTICE: THIS DRAWING SHALL NOT BE USED FOR REPRODUCTION WITHOUT THE WRITTEN PERMISSION OF THE OFFICE OF THE CHIEF OF THE ARMS AND AMMUNITION DIVISION, U.S. ARMY.

* THE SPECIFICATION NUMBERS SHOWN ARE BASIC NUMBERS ONLY. WHEN A SPECIFICATION IS REVISED A LETTER IS AFFIXED TO ITS BASIC NUMBER. SPECIFICATIONS REFERRED TO IN THESE SPECIFICATIONS AND NOT LISTED HEREON, SHALL NOT APPLY.

LIST OF PARTS

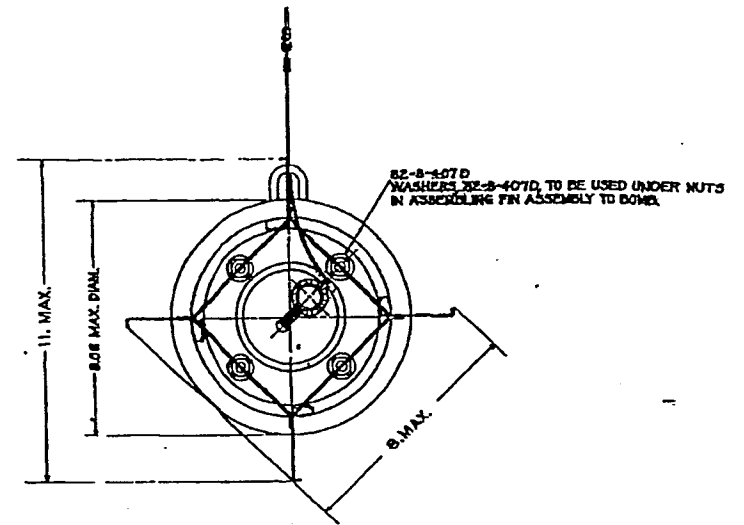
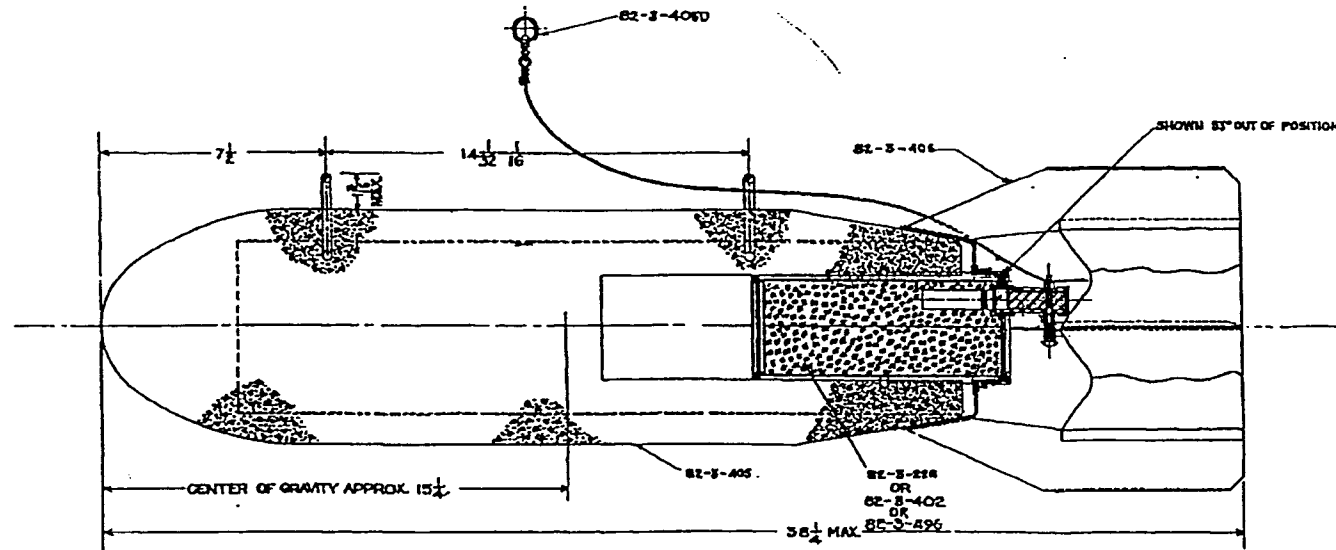
LINE NO.	NAME OF PART	NUMBER REQD PER COMPONENT	PIECEMARK	MATERIAL		GRADE	SPEC. NUMBER	APPROXIMATE UNIT WEIGHT (POUNDS).	APPROXIMATE TOTAL WEIGHT (POUNDS).	REMARKS
				SIZE OR FORM	KIND					
1	BODY ASSEMBLY	1	82-3-405A	CASTING	CONCRETE			85.00		
2	LUG, SUSPENSION	2	82-3-405B	BAR	STEEL	WD 1010	57-107	.17	170.00	
3	BOLT, TAIL	4	82-3-405C	2" X 1/16" LONG	STEEL		COMMERCIAL			
4	ARMING WIRE ASSEMBLY	1	82-3-405D							(a)
5	CAGE, REINFORCING	1	82-3-405F		STEEL, EXPANDED		COMMERCIAL			
6					PRIMER, SYNTHETIC, LACQUER-RESISTING		JAN-P-72			
7										
8					LACQUER ENAMEL, BLACK		JAN-L-73			(b)
9										

- (a) SEE DRAWINGS 82-3-284 AND 82-3-234A FOR METAL PARTS DETAILS, SPECIFICATIONS AND SHIPPING ASSEMBLY. DIMENSION "E" ON SHIPPING ASSEMBLY EQUALS 5/2".
- (b) ALTERNATIVE MATERIAL - BLACK STENCIL INK, SPEC. TT-1-559.
- (c) 3/8" INCH CAVITY SHALL BE CONCENTRIC WITH 4 TAIL BOLTS 82-3-405C WITHIN 1/2" INCH (1/2" INCH DIAL INDICATOR READING).
- (d) 3/8" INCH CAVITY SHALL BE CONCENTRIC WITH CONICAL SURFACE FOR A DISTANCE OF 2 1/2" INCHES FROM THE TAIL END OF THE CONCRETE PORTION OF THE BOMB WITHIN 1/2" INCH (1/2" INCH DIAL INDICATOR READING).
- (e) MAY BE 3/4" DIA. PROVIDED 3/4" DIA. CAVITY IS CONCENTRIC WITH CONICAL SURFACE FOR A DISTANCE OF 2 1/2" INCHES FROM TAIL END OF THE CONCRETE PORTION OF THE BOMB.
- (f) EXPOSED PORTION OF TAIL BOLTS MUST BE COMPLETELY THREADED. SCALE, INCHES, 1/4" = 1".

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

AUGUST 17, 1944			
REVISIONS	82	3	405
1	(11-8-42)		
2	(10-5-45)		
VERIFICATION OF DIMENSIONS NOT OTHERWISE SPECIFIED			
ORIGINAL: PHOTOGRAPHIC ANGLE 1			
DRG. PERTAINS TO			
E.T.S.			
DESIGNED BY: <i>C.H. Hoptekin</i>			
CHECKED BY: <i>H.L. Beckman</i>			
APPROVED BY ORDER OF THE CHIEF OF DIVISION: <i>C.H. Hoptekin</i>			
ORDNANCE DEPT., U.S.A.			
D			

OBSOLESCE



ASSEMBLY, 82-O-96A1

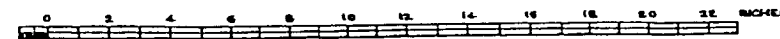
NOTICE: THIS DRAWING SHALL NOT BE USED OR REPRODUCED EITHER WHOLLY OR IN PART EXCEPT WHEN AUTHORIZED IN CONNECTION WITH UNITED STATES GOVERNMENT REQUIREMENT.

LINE NO.	NAME OF COMPONENT	DRAWING NUMBER OR PREFIX MARK	APPROXIMATE WEIGHT (POUNDS)
1	ASSEMBLY	82-O-96A	103.5
2			
3	BODY ASSEMBLY	82-S-405	98.00
4	FIN ASSEMBLY	82-S-406	4.25
5	SPOTTING CHARGE ASSEMBLY, M1A1 (3)	82-S-228	4.20
6			
7	WIRE, ARMING	82-S-406D	.05
8			
9			
10			
11			
12			

(3) SPOTTING CHARGE M13, 82-S-402 OR M4, 82-S-496 MAY BE USED WHEN REQUIRED.

LINE NO.	NOMENCLATURE	WEIGHT (LBS)
1	BODY ASSEMBLY	98.00
2	FIN ASSEMBLY	4.25
3	SPOTTING CHARGE ASSEMBLY, LESS BLACK POWDER	1.25
4	BLACK POWDER	3.00 (4)
5		
6		
7		
8		
	TOTAL	103.50

(4) WEIGHT PERTAINS TO SODIUM NITRATE BLACK POWDER.



OBSOLESCE

BOMB, PRACTICE, 100LB, M85.
ASSEMBLY, COMPLETE.

DATE: AUGUST 17, 1953	CLASS: 82	DIVISION: 0	DRAWING: 96	FILE:
REVISIONS:	TOLERANCE ON DIMENSIONS NOT OTHERWISE SPECIFIED			
	NORMAL & FUNCTIONAL - 2			
	ANGULAR &			
DRG. PERTAINS TO:	E.T.S.			
	APPROVED BY ORDER OF THE CHIEF OF BOMBARDERS:			
	C.H. Hoffstetter, Jr., U.S.A.			
	COL., INF. DEPT., U.S.A.			
	ORDNANCE DEPT., U.S.A.			

Packing—Aircraft Parachute Flare Mk 11 Mod 0 is shipped in a moisture-proof metal container, four containers in one wooden box.

Storage—Flares should be stowed in the original containers in a location where the temperature will not exceed 100 degrees Fahrenheit. If this temperature is not exceeded, satisfactory performance can be expected for from six to ten years after the date of manufacture.

Flares, Aircraft, Parachute, M26 and AN-M26

These flares provide illumination for night bombardment and reconnaissance. (Fig. 11.) Flare, Aircraft, Parachute, AN-M26 is an improvement of Flare, Aircraft, Parachute, M26. These flares are parachute-supported with shaded candles. The shade is folded around the candle and opens like an umbrella.

The complete flare (with the fuze) weighs approximately 53 pounds. The metal flare case, cylindrical in shape (with tail fins and a rounded nose) has a diameter of eight inches (not including the fins) and a length of 50 inches (with the fuze installed); the diameter across the tail fin is 13½ inches. The case is equipped with two suspension lugs 14 inches apart. A shipping cover with a handle attached closes the tail end of the case. This opening is sealed by a strip of adhesive tape.

Two types of illuminant are used in Flare, Aircraft, Parachute, M26—the standard illuminant which produces a light of approximately 800,000 candlepower, and a substitute illuminant which produces a light of approximately 575,000 candlepower. As the substitute illuminant ages, the burning time sometimes decreases to about two minutes, and, at the same time, the light intensity increases to about one million candlepower. A flare with the substitute illuminant can be identified by a blue band painted around the nose, or by blue support bands.

Ignition Delay of Flares, Aircraft, Parachute M26 and AN-M26 is controlled by the Fuzes, Flare, Mechanical Time, M111, M111A1, or M111A2. Of these three fuzes, the M111A2 is the most sturdily constructed, and the most

satisfactory. A new fuze which is available for issue in limited quantity is the Fuze, Bomb, Mechanical Time, M146; it is detonator safe and is preferred to any of the above fuzes. It is the only fuze authorized for carrier use with this flare.

For additional details concerning fuzes and the proper procedures for the handling of fuzes, refer to Chapter 7. These fuzes permit the use of the flare for high-altitude bombardment. They may be set to function at 3,000 feet when released from any altitude between 5,000 feet and 25,000 feet. The delay is indicated on the time graduation ring. Table 1 shows the fuze setting corresponding to the number of seconds required for a flare to fall from any altitude in the above range to an altitude of 3,000 feet, and the dropping angles to be used with various airplane ground speeds.

This flare is launched only from bomb racks and bomb shackles. If the rack or shackle to be used has only one suspension hook, the flare should be suspended by the after lug, which is above the center of gravity of the flare. If the rack or shackle has two suspension hooks, the flare should be suspended by both lugs.

The flare should be prepared for mounting in the aircraft as described in Chapter 5. Flare, Aircraft, Parachute, M26 can be released at any air speed up to 130 knots. At higher speeds, the drag sleeve is apt to tear away, with the result that the flare will not function properly. For the same reason, Flare AN-M26 must not be released at an air speed in excess of 240 knots.

Operation—Flares may be released safe or armed. When released safe, they may function on impact. When released armed, they function as follows:

Downward movement of the flare withdraws the arming wire from the fuze, allowing the vane to rotate and arm the fuze. Withdrawing the arming wire also allows the release pin to be ejected, thus starting the time mechanism.

When the flare has dropped the length of the hangwire, the latter breaks the seal wire and

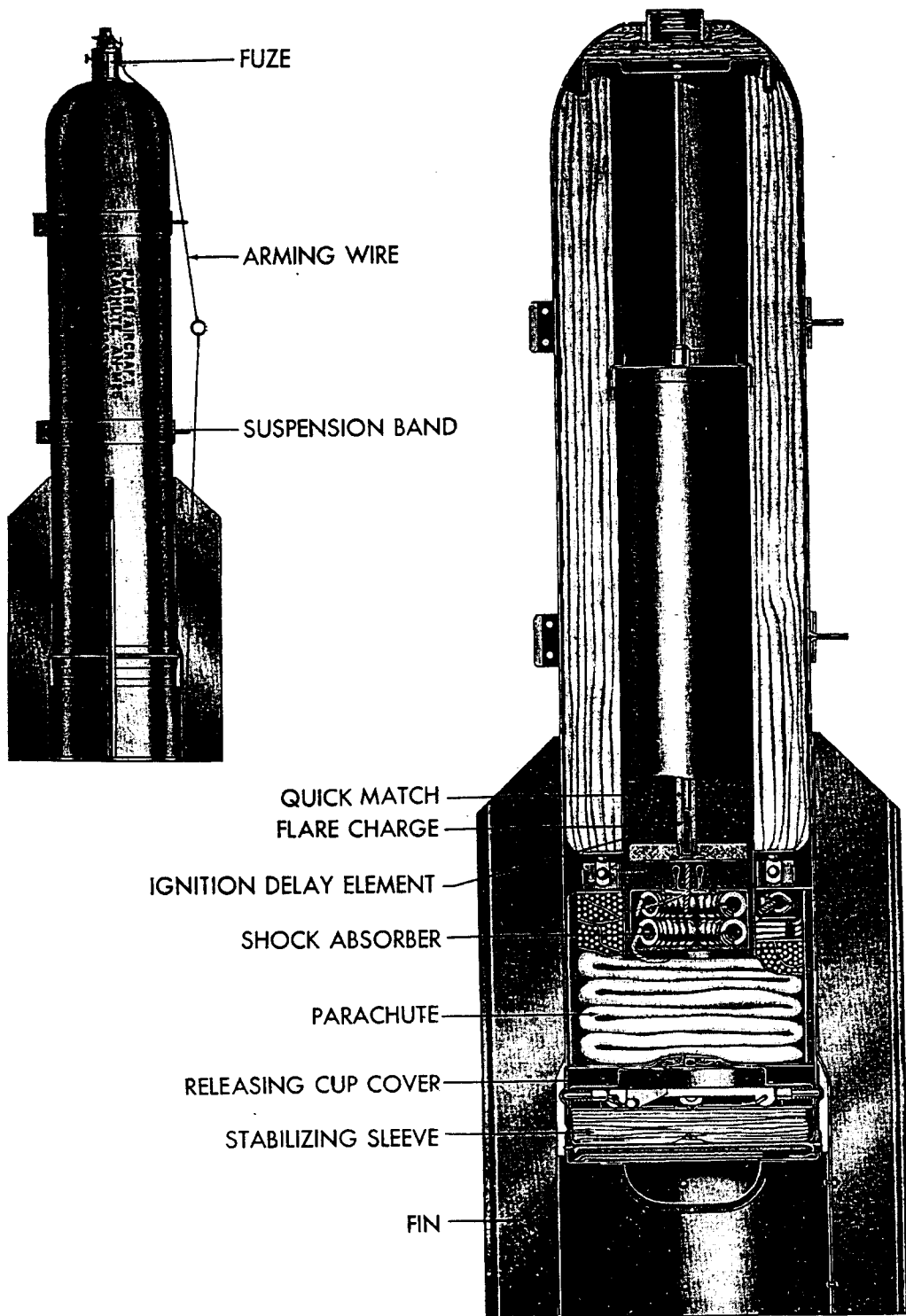


Figure 11—Flares, Aircraft, Parachute, M26 and AN-M26

pulls out the hangwire container, which drops free. Meanwhile, the tear wire, (attached to the hangwire near its end) pulls out the tear wire cord which, in turn, pulls out the drag sleeve and its shrouds. A length of cord attached to the shrouds removes the detachable cover lock of the cover releasing cup.

When the flare has dropped the combined length of the hangwire, tear wire, tear wire cord, sleeve, and sleeve shrouds, the tear wire breaks, allowing the flare to drop. The flare is stabilized in flight by the fins and by the drag sleeve. The arming vanes arm the fuze in about five seconds from the time of release.

When the time set on the periphery of the fuze has elapsed, a small charge of black powder is ignited and the gases generated push out the cover releasing cup. The four retaining pins (which engage the groove in the case with

one end and also rest against the periphery of the cover releasing cup at the other end) are retracted by the retaining pin springs. This releases the detachable cover to which the sleeve shrouds are attached, and allows the drag sleeve and cover assembly to separate from the flare.

The cover assembly is attached to the parachute by the parachute pull-cord. The pullout cord and the expanding gases from the exploded black powder force the parachute, glass cloth shade, and illuminant from the case, which falls free. As the parachute leaves the case, the parachute pull-out cord breaks and the sleeve falls away from the suspended flare.

The shock caused by the opening of the parachute is taken up by a shock absorber. This is composed of two lengths of metal tubing which have been slipped over the suspension

Table I—Dropping Angles and Fuze Settings
(Altitude of Functioning, 3,000 Feet)

Release altitude (feet)	Fuze setting (seconds)	Dropping angles (degrees) for various ground speeds (knots)					
		122.5	140	157.5	175	192.5	210
5,000	14.0	17.3	19.0	20.7	22.2	23.6	24.9
6,000	18.2	16.1	17.7	19.2	20.6	21.9	23.1
7,000	22.2	14.7	16.2	17.6	18.9	20.0	21.1
8,000	26.1	13.5	14.9	16.1	17.3	18.4	19.5
9,000	29.9	12.4	13.7	14.9	15.9	17.0	18.0
10,000	33.7	11.5	12.7	13.8	14.8	15.8	16.7
11,000	37.3	10.7	11.8	12.8	13.8	14.7	15.6
12,000	40.9	10.1	11.1	12.1	13.0	13.8	14.6
13,000	44.5	9.5	10.5	11.4	12.2	13.0	13.8
14,000	47.9	9.0	9.9	10.8	11.6	12.4	13.1
15,000	51.3	8.5	9.4	10.3	11.1	11.8	12.5
16,000	54.7	8.2	9.0	9.8	10.6	11.3	12.0
17,000	58.0	8.0	8.7	9.4	10.2	10.9	11.5
18,000	61.2	7.7	8.4	9.1	9.8	10.5	11.1
19,000	64.4	7.4	8.0	8.8	9.5	10.1	10.7
20,000	67.6	7.1	7.8	8.5	9.2	9.8	10.4
21,000	70.7	6.9	7.6	8.3	8.9	9.6	10.2
22,000	73.7	6.7	7.4	8.1	8.7	9.3	9.9
23,000	79.6	6.5	7.2	7.8	8.5	9.1	9.6
24,000	76.6	6.4	7.0	7.7	8.3	8.9	9.4
25,000	82.5	6.2	6.8	7.5	8.1	8.7	9.2

cable and then coiled around an arbor about $\frac{3}{4}$ inch in diameter. The shock is absorbed by straightening the metal tubing.

As the suspension cable straightens, the ignition wires are pulled through the ignition mixture; this starts the ignition train composed of the igniter, the delay element, the quick-match which runs down through the center of the candle, the first fire composition, and the illuminant candle. The delay element burns for about six seconds, to insure the complete opening of the parachute before the candle ignites. As the candle ignites, the gases generated force off the rib retainer, allowing the rib springs to open the shade. Full ignition is reached in about eight seconds.

The illuminant candle burns for approximately three minutes, with a light intensity of about 800,000 candlepower. The suspended flare drops at an average rate of about 700 feet per minute.

Safety Precautions—In addition to the general safety precautions outlined in Chapter 2, the following special precautions should be observed:

Flare, Aircraft, Parachute, M26 should not be released at an air speed in excess of 130 knots.

Flare, Aircraft, Parachute, AN-M26 should not be released at an air speed in excess of 240 knots.

If short time setting or low launching speed is used with the Fuze M111A2, the fuze should be modified as described on page 62.

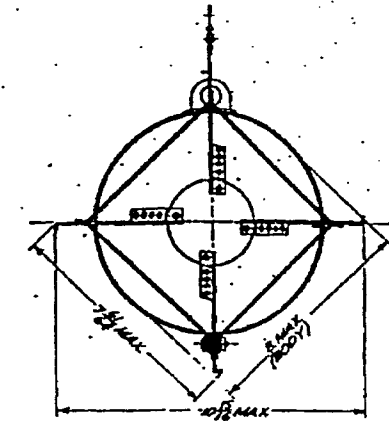
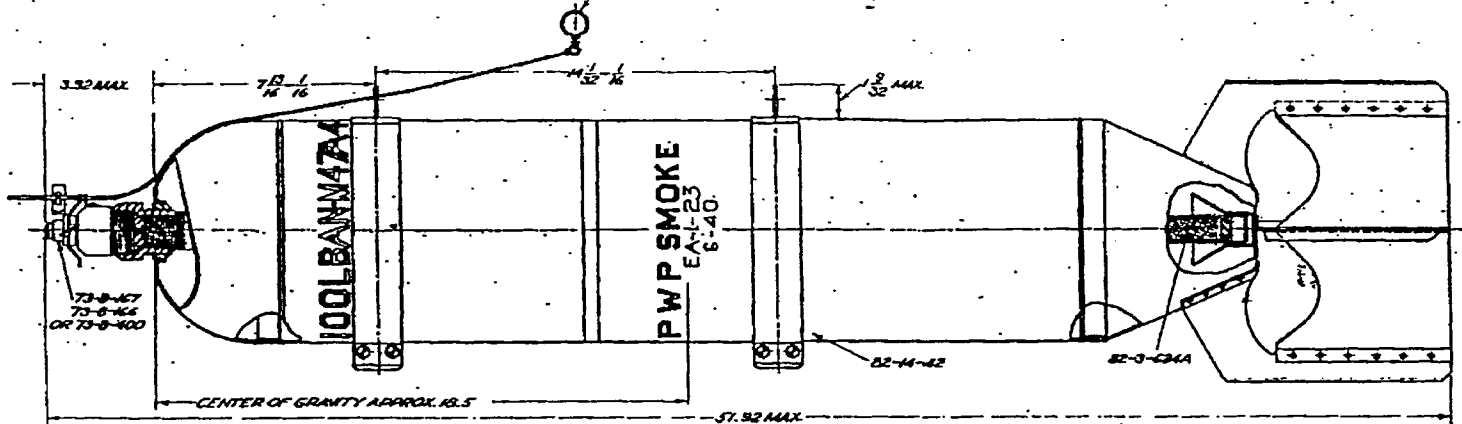
Packing—Flare, Aircraft, Parachute, M26 or AN-M26 is packed in an unlined wooden box. Fuzes are shipped separately.

The forward opening of these flares is sealed by a gasket, and the opening closed by the shipping cover is sealed with tape. This makes it unnecessary to pack these flares in a sealed metal container similar to the one used for Navy flares having the shellac-impregnated chip board case. The tap seal at the edge of the shipping cover is not moisture-proof. Therefore, the service life of these flares is only two to three years, while the service life of Navy flares is six to ten years.

Storage—Flares should be stowed in a dry, well ventilated place out of the direct rays of the sun, and protected against excessive or variable temperatures. The temperature in the magazine should not exceed 100 degrees Fahrenheit at any time. Under ideal stowage conditions, the service life of the Flares, Aircraft, Parachute, M26 and AN-M26 is about three years.

Unused flares should be removed from any aircraft which is to be temporarily grounded. The fuze must be disassembled from the flare before returning the flare to stock. The seal wire and safety cotter pin must be replaced before removing the arming wire from the fuze. The arming wire and hangwire should be coiled and replaced in the hangwire container. Replace the shipping cover; seal it with tape; and replace the shipping plug. Care should be taken to repack and reseal the fuze in the original container.

**NOTE: THIS DRAWING IS FOR GENERAL ILLUSTRATIVE PURPOSES, ONLY.
 THE ACTUAL M47 SERIES BODIES POTENTIALLY USED AT THIS SITE
 WERE SAND FILLED AND HAD NO EXPLOSIVE COMPONENTS OR
 CHEMICAL FILLER.**



ASSEMBLY 82-O-80A5

NOTICE: THIS DRAWING SHALL NOT BE USED NOR REPRODUCED EITHER WHOLLY OR IN PART EXCEPT WHEN AUTHORIZED IN CONNECTION WITH UNITED STATES GOVERNMENT PROCUREMENT.

LINE NO.	NAME OF COMPONENT	DRAWING NUMBER OR FIELD MARK	APPROX. WEIGHT (POUNDS)	
			WF	OWD
1	ASSEMBLY, COMPLETE	82-O-80	138.6	105.1
2	BOMB LOADING ASSEMBLY (WITHOUT FUZZING COMPONENTS AND CLOSING PLUG)	82-14-82	127.2	101.2
3	ARMING WIRE ASSEMBLY	82-3-234K	.02	.02
4	BURSTER, M80	82-3-62A	2.83	
5	BURSTER, M47	(a) 82-3-281	2.4	
6	FUZZE, BOMB, NOSE, M80A1 OR M80B	73-B-47	1.02	1.02
7	FUZZE, BOMB, NOSE, AN-M153	73-B-400	1.13	1.13
8				
9				
10				
11				
12				

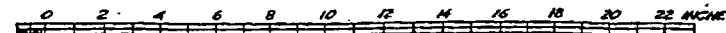
(a) - BURSTER M18 USED WHERE REQUIRED.

LINE NO.	NOMENCLATURE	WEIGHT (LBS)	
		WF	OWD
1	BODY METAL PARTS ASSEMBLY WITHOUT BURSTER WELL ASSY	23.7	23.7
2	BURSTER WELL ASSEMBLY (LESS CLOSING FLUG)	3.5	3.5
3	ARMING WIRE ASSEMBLY	.02	.02
4	BURSTER, M80		2.93
5	CHARGE, SMOKE	102	74
6	BURSTER, M47	(a) 2.4	
7	FUZZE, BOMB, NOSE, AN-M153	1.13	1.13
8	FUZZE, BOMB, NOSE, M80A1 OR M80B	1.02	1.02
9			
10	TOTAL	138.6	105.1
11	PERCENTAGE OF CHEMICAL CHARGE BY WEIGHT	76.5%	78.4%
12			

BOMB, SMOKE PWP/100LBANM47A
 ASSEMBLY, COMPLETE

DATE: AUGUST 1, 1948	CLASS: 82	DIVISION: 0	DRAWING: 80	FILE:
REVISIONS:				
DESIGNED BY: J. H. H.	CHECKED BY: J. H. H.	APPROVED BY: J. H. H.	DATE: 1/28/48	
DRAWING PERTAINS TO: PWP, SMOKE				
APPROVED BY: J. H. H.				
OFFICER IN CHARGE OF THE GIFT OF RESEARCH:				
J. H. H.				
OFFICER IN CHARGE OF THE GIFT OF RESEARCH:				
J. H. H.				
ORDNANCE DEPT., U.S.A.				

SUPERSEDES 82-O-80 WITHOUT CHANGE DEC 30, 1948



ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX E
REPORTS/STUDIES

APPENDIX E
REPORTS/STUDIES

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- E-1 DERP FUDS INPR (Project No. J09CA068801) FDE (B-1).
- E-2 DERP FUDS INPR (Project No. J09CA068801) Project
Summary Sheet (B-1).

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR FORMERLY USED SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NO. J09CA068800

FINDINGS OF FACT

1. In May 1943, 80 acres were transferred from the U.S. Department of the Interior to the War Department through Public Land Order (PLO) 125. Another 560 acres were obtained by fee acquisition from five private landowners for a total of 640 acres.
2. Victorville PBR No. 3 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 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. The site was declared dedudded and certified to be clear of all explosives and explosive objects in March 1948. In June, 1948 accountability for 560 acres of Victorville PBR No. 3 was assumed by the War Assets Administration. In April 1949, the other 80 acres were transferred back to the U.S. Department of the Interior through PLO 581. Currently, most of the site is owned by private landowners with 35 acres in the southwest quarter of the site under U.S. Department of the Interior Bureau of Land Management control.

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

J. F. Yankoupe LTC ED
for ROGR F. YANKOUBE
Brigadier General, U.S. Army
Commanding

PROJECT SUMMARY SHEET
FOR
DERP-FUDS OE PROJECT NO. J09CA068800
VICTORVILLE PRECISION BOMB RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
SITE NO. J09CA068800

PROJECT DESCRIPTION: The Victorville Precision Bombing Range (PBR) No. 3 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 EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

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- F-2 Excerpt from the Natural Diversity Data Base Pertaining to San Bernardino County (B-6).
- F-3 Historic and Archaeological Sites (B-7).
- F-4 Excerpts from "Historical Record of Victorville Army Air Field, Victorville, California from 1 November 1944 to 31 December 1944" (B-10).
- F-5 Deduinding Report, 4 February 1948 (B-13).
- F-6 Excerpt from the Victorville Army Air Field Historical Record from 1 January 1944 to 1 March 1944 referring to the Termination of Bombardier Training (B-9).
- F-7 Results of Property Survey by Survey Team No. 9, 28 April 1948 (B-39).
- F-8 Excerpt from the Victorville Army Air Field Historical Record from 1 January 1944 to 1 March 1944 Identifying Ordnance Usage (B-10).
- F-9 Excerpt from Individual Training of Bombardiers, May 1944 (B-16).



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^{1/}. 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. 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 BERNARDINO County

COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
BALD EAGLE	HALIAEETUS LEUCOCEPHALUS	Threatened	Endangered
SWAINSONS HAWK	BUTEO SWAINSONI	None	Threatened
YUMA CLAPPER RAIL	RALLUS LONGIROSTRIS YUMANENSIS	Endangered	Threatened
WESTERN SNOWY PLOVER	CHARADRIUS ALEXANDRINUS NIVOSUS	Threatened	None
WESTERN YELLOW BILLED CUCKOO	COCCYZUS AMERICANUS OCCIDENTALIS	None	Endangered
ELF OWL	MICRATHENE WHITNEYI	None	Endangered
GILA WOODPECKER	MELANERPES UROPYGIALIS	None	Endangered
WILLOW FLYCATCHER	EMPIDONAX TRAILLII	None	Endangered
CALIFORNIA GNATCATCHER	POLIOPTILA CALIFORNICA	Threatened	None
ARIZONA BELLS VIREO	VIREO BELLII ARIZONAE	None	Endangered
LEAST BELLS VIREO	VIREO BELLII PUSILLUS	Endangered	Endangered
MOHAVE TUI CHUB	GILA BICOLOR MOHAVENSIS	Endangered	Endangered
UNARMORED THREESPINE STICKLEBACK	GASTEROSTEUS ACULEATUS WILLIAMSONI	Endangered	Endangered
MOHAVE GROUND SQUIRREL	SPERMOPHILUS MOHAVENSIS	Sp of Concern (C2)	Threatened
STEPHENS KANGAROO RAT	DIPODOMYS STEPHENSI	Endangered	Threatened
DESERT TORTOISE	XEROBATES AGASSIZII	Threatened	Threatened
SOUTHERN RUBBER BOA	CHARINA BOTTAE UMBRATICA	Sp of Concern (C2)	Threatened
ARROYO SOUTHWESTERN TOAD	BUFO MICROSCAPHUS CALIFORNICUS	Endangered	None
CALIFORNIA RED-LEGGED FROG	RANA AURORA DRAYTONII	Threatened	None
DELHI SANDS FLOWER-LOVING FLY	RHAPHIOMIDAS TERMINATUS ABDOMINALIS	Endangered	None
PARISH'S DAISY	ERIGERON PARISHII	Threatened	None
MOHAVE TARPLANT	HEMIZONIA MOHAVENSIS	Sp of Concern (C2*)	Endangered
NEVIN'S BARBERRY	BERBERIS NEVINII	Proposed Endangered	Endangered
SAN BERNARDINO MTNS BLADDERPOD	LESQUERELLA KINGII SSP BERNARDINA	Endangered	None
GAMBEL'S WATERCRESS	RORIPPA GAMBELLII	Endangered	Threatened
SLENDER-PETALED THELYPODIUM	THELYPODIUM STENOPETALUM	Endangered	Endangered
CUSHENBURY MILK-VETCH	ASTRAGALUS ALBENS	Endangered	None
PARISH'S CHECKERBLOOM	SIDALCEA HICKMANII SSP PARISHII	Candidate	Rare
BIRD-FOOTED CHECKERBLOOM	SIDALCEA PEDATA	Endangered	Endangered
THORNE'S BUCKWHEAT	ERIOGONUM ERICIFOLIUM VAR THORNEI	Sp of Concern (C1)	Endangered
CUSHENBURY BUCKWHEAT	ERIOGONUM OVALIFOLIUM VAR VINEUM	Endangered	None
CUSHENBURY OXYTHECA	OXYTHECA PARISHII VAR GOODMANIANA	Endangered	None
SLENDER-HORNED SPINEFLOWER	DODECAHEMA LEPTOCERAS	Endangered	Endangered
SANTA ANA RIVER WOOLLYSTAR	ERIASTRUM DENSIFOLIUM SSP SANCTORUM	Endangered	Endangered
THREAD-LEAVED BRODIAEA	BRODIAEA FILIFOLIA	Proposed Threatened	Endangered



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 & T4N 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, there 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 P1031-1H. A pending site is one that has not been formally recorded, but we have some information on. One report, 1061724, is 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

~~SECRET~~

addition should enable the personnel to perform their duties at a higher standard.³⁹

A great many combat returnees have been assigned to the Motor Repair Shop and Special Purpose Motor Pool. On-the-job training is being conducted for these men, as, in most cases, their previous experience was not in line with the functions of these departments.⁴⁰

Bombing Range Maintenance

From 1 January 1944 to 31 December 1944, the Range Crew drove a total of 147,754 miles on VAAF target maintenance, with only one minor accident.⁴¹

Use of the series "N" targets has been discontinued, due to the completion of the Bombardier Training Program at this station.⁴²

Field Lighting

There was no change of any kind in this department during the period 1 November 1944 through 31 December 1944.

- 39. Reminiscence, Major W.P. Maynard, Automotive Officer, VAAF, Victorville, Calif., 1 Jan 1945.
- 40. Reminiscence, Major W.P. Maynard, Automotive Officer, VAAF, Victorville, Calif., 1 Jan 1945.
- 41. Daily Report, Bombing Range Maintenance Office, VAAF, Victorville, Calif., 1 Jan 1944 to 31 Dec 1944.
- 42. Reminiscence, Capt. B. F. Magnusson, Bomb. Range Maintenance Officer, VAAF, Victorville, Calif., 1 Jan 1945.

~~SECRET~~

See F 8

WAR DEPARTMENT
Office of the Chief of Engineers
9800 TSU DETACHMENT NO.14
BOMB AND SHELL DISPOSAL TEAM

4 February 1948

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

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

1. The 9800th TSU-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, 16, 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 7176 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 accidentally 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.

R677 Mc 77-76-122 13x 28

8. A list of duds found and destroyed are given below:

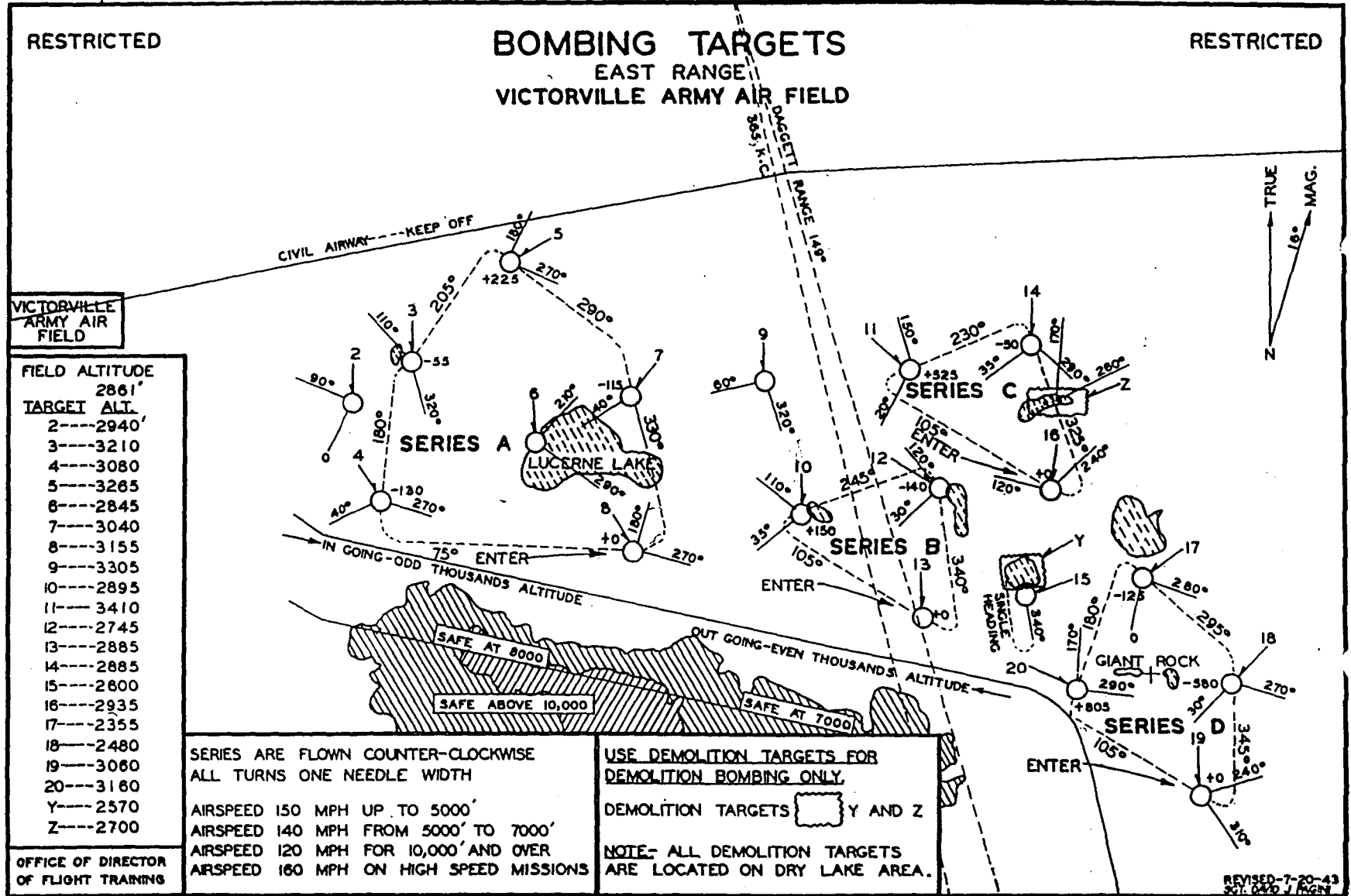
- (a) 2,860 Bombs, Practice, M38-A2
- (b) 32 Bombs, Flare, Aircraft, Parachute, M26

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., CE
9800th TSU CE Det #14
Bomb & Shell Disposal Team
Commanding



FEDERAL BUREAU OF INVESTIGATION
MAY 20 1948

Victorville Precision Bombing Range #3
Victorville, California
W-Calif-259
Complete Classification

WD-1247

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 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 deduinding team's equipment."

The land is semi-arid desert and the highest and best possible use is for cattle grazing, therefore classification recommended is Section 23 (02-a) Grazing Land.

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 Farm 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.

1150-121
NPRR for report

Victorville, Army Air Field Historical Record, Victorville, CA Nov 1944 to Dec 1944

Air Corps Supply

DECLASSIFIED
EO 11652

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 vouchers to the S/R account.
11. Average number of airplanes grounded daily for parts -
November, 11; December, 16.

53

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. Bombs chemical 100 #M47a2; Received 10,000.
3. Bombs concrete 100 #M85; Received 18,879. 55
4. Duds reported: .02% . 56
5. Expended 1500 Bombs practice 100 #M38A2.
6. Expended 8500 Bombs chemical 100 #M47A2. 57
7. Small Arms Ammunitions:

	Received <u>58</u>	Expended <u>59</u>
Cartridge, ball, cal.22 IR	0	13,500
Cartridge, ball, cal.45 M1911	3,500	29,710
Cartridge, ball, cal. 30 M1	2,581	4,800

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, Calif., Nov and Dec 1944.

~~RESTRICTED~~

Flying Training Command was informed that consideration was "being given to abandonment of the Sperry bombsight and the Sperry A-5 Pilot"; until a decision was reached, however, it would "be necessary to continue Sperry training under present directives."³⁹ During the ensuing weeks a special study was made on the policy of the future use of the Sperry bombsight. The result of this study was a recommendation that the use of this equipment be discontinued. On 29 September 1943 this recommendation was approved by Brig. Gen. E. S. Perrin, Deputy Chief of Air Staff. It appeared, however, that the Sperry sight would continue to be used for several months, until Norden production reached the point where it could meet the demands of the AAF. As of 15 October 1943 no directive had been issued to discontinue training on Sperry equipment.

Bombs

Another materiel problem, the supply of practice bombs, became acute in December 1942 and continued so until well into March 1943. The production schedule for practice bombs (M 38A2) for the early part of 1943 was as follows: January, 300,000; February, 400,000; and thereafter 600,000 per month. Delivery of bombs under this schedule fell far short because of a drastic decline in production. December production was 100,000, and in February it was only 135,000, or less than one-third of the scheduled production.⁴⁰

39. Daily Diary, AFACF-2, 10 Aug. 1943, in AFIH files.

40. Daily Diary, AFKIT, 4 Jan. 1943, in AAG 319.1-C, Daily Diaries; ibid., 5 Mar. 1943, in AAG 319.1-C, Daily Diaries.

~~RESTRICTED~~
~~SECRET~~

~~SECURITY INFO~~ F-9

Army Air Corps Hist. Div. 1547
Incorporated history of bombardiers program

~~RESTRICTED~~

During this period of bomb shortage the Flying Training Command attempted to maintain the training schedule by securing bombs from other AAF organizations, such as the Technical Training Command and the Second and Third Air Forces.⁴¹ Though the air forces had enough bombs to continue their training schedule, sufficient bombs could not be diverted from them and the Technical Training Command to meet the demands of the bombardier schools. As a result, the AAF had to resort to procuring the MK-15 water-filled practice bombs from the Navy. These were only 49-pound bombs and contained no spotting charge, but the Flying Training Command found that they could be used for missions of 500 to 1,000 feet.⁴²

The training schedule of bombardiers could not, however, be maintained, even with the bombs secured from other sources, and the bombardier schools were forced to make a reduction in the required number of bomb releases per student. This number was reduced in December 1942 from 200 to 150, and in the following month further reduced to 125,⁴³ although in May 1943 provision was made to allow the full 150 bombs per student at Midland and Big Springs where Sperry training was conducted.⁴⁴ These reductions in bomb releases

41. Daily Diary, AFFTC, 5 Jan. 1943.

42. Ibid., 18 Feb. 1943; Daily Diary, AFRIT, 16 Jan. 1943, in AAG 319.1-B, Daily Diaries.

43. Daily Diary, AFRIT, 30 Dec. 1942, in AAG 319.1 A, Daily Diaries; Daily Diary, AFFTC, 23 Jan. 1943.

44. FTC Memo 50-11-3, 3 May 1943.

~~RESTRICTED~~

~~SECRET SECURITY INFORMATION~~

~~RESTRICTED~~

made it difficult to maintain the required flying time with the result that the number of dry runs had to be increased. The shortage of bombs continued, it appears, until August 1943. On 7 August the Training Command was informed that the restrictions on the M38A2 bombs were removed; the provisions of TM 1-250 were again in effect, and students would resume bombing on the basis of 150 bomb releases.⁴⁵

45. Teletype, AG/AS, Training to CG, AAFTC, 11 Aug. 1943, in files of AFACT-2, 475.751, Bombing Equipment; CG, AFTRC to CG, AAF, 15 Aug. 1943, in ibid.

~~RESTRICTED~~

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX G

REAL ESTATE DOCUMENTS

APPENDIX G

REAL ESTATE DOCUMENTS

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- G-1 Public Land Order 125, 20 May 1943 (B-40).
- G-2 Real Estate Map, Victorville PBR No.3, 12 December 1947 (B-41).
- G-3 Public Land Order 581, 7 April 1949 (B-42).
- G-4 Final Judgment and Decree in Condemnation, Tract 31, 19 April 1943 (B-43).
- G-5 Final Judgment and Decree in Condemnation, Tract 32, 17 April 1943 (B-44).
- G-6 Final Judgment and Decree in Condemnation, Tract 34, 19 April 1943 (B-45).
- G-7 Final Judgment and Decree in Condemnation, Tract 35, 24 August 1943 (B-46).
- G-8 Quitclaim Deed, Tract No. 35, 4 February 1949 (B-47).
- G-9 Quitclaim Deed, Tract No. 31, 7 March 1949 (B-48).
- G-10 Quitclaim Deed, Tract No. 32, 8 April 1949 (B-49).
- G-11 Quitclaim Deed, Tract No. 33, 16 May 1949 (B-50).
- G-12 Quitclaim Deed, Tract No. 34, 16 May 1949 (B-51).
- G-13 Narrative Description of Victorville Bombing Target Site 3, circa 1947 (B-52).
- G-14 Final Project Ownership Map, Victorville Army Air Field Bombing Ranges, 19 September 1945 (B-27).

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.

ABE FORTAS,
Acting Secretary of the Interior

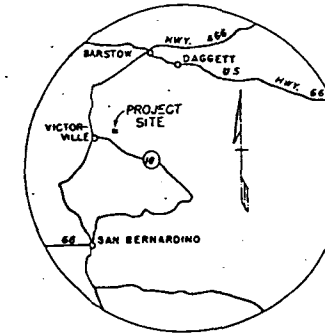
May 20, 1943.

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

ACQUISITION TRACT REGISTER				
TRACT NO.	LAND OWNER	ACREAGE		REMARKS
		TRANS.	FEE	
A	DEPT. OF INTERIOR	80.00		P.L.O. No 125 Dated 20, May, '43
1	RUTH MARIE WILSON		120.00	Formerly shown as Tract No. 31 in D/T
2	GEO. W. H. SHIELD		80.00	Formerly shown as Tract No. 32 in D/T
3	LYNNWOOD L. SESCH		160.00	Formerly shown as Tract No. 33 in D/T
4	KENDRELL OSGOOD BATTENSCHLAG		120.00	Formerly shown as Tract No. 34 in D/T
5	ESTATE OF ELIZABETH J. ADAIR, Deceased		80.00	Formerly shown as Tract No. 35 in D/T



STATE INDEX



VICINITY MAP

10 0 10 20 30
SCALE IN MILES

FINAL PROJECT OWNERSHIP MAP

STATE CALIFORNIA
COUNTY SAN BERNARDINO
DIVISION SOUTH PACIFIC
DISTRICT LOS ANGELES
SIXTH ARMY AREA
USING AGENCY T.A.G.
23 MILES SO. OF BARSTOW
125 MILES E. OF VICTORVILLE

TRANSPORTATION FACILITIES

A, T. & S. F. RAILROAD
18 STATE ROAD
66 FEDERAL ROAD
AIRLINE

ACQUISITION

TOTAL ACRES ACQUIRED 640.00
ACRES OWNED BY W.D. 560.00
ACRES LEASED BY W.D.
ACRES LEASED FROM W.D.
ACRES TRANSFERRED TO W.D. 80.00
ACRES DONATED TO W.D.

DISPOSALS

TOTAL ACRES DISPOSED OF 640.00
ACRES TRANSFERRED TO WAA 80.00
ACRES FEE TO WAA 560.00
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

0 600 1200
SCALE OF FEET

DEPARTMENT OF THE ARMY
CORP OF ENGINEERS

REAL ESTATE
VICTORVILLE PRECISION
BOMBING RANGE No. 3

MILITARY RESERVATION

RECOMMENDED BY *W.H. Hammel* DATE 12-3-47
CHIEF, CADASTRAL SECTION

APPROVED BY *John H. Keller* DATE 12-12-47
CHIEF, REAL ESTATE DIVISION

COMPILED BY *W.H.C.* TRACED CHECKED *W.H.C.*

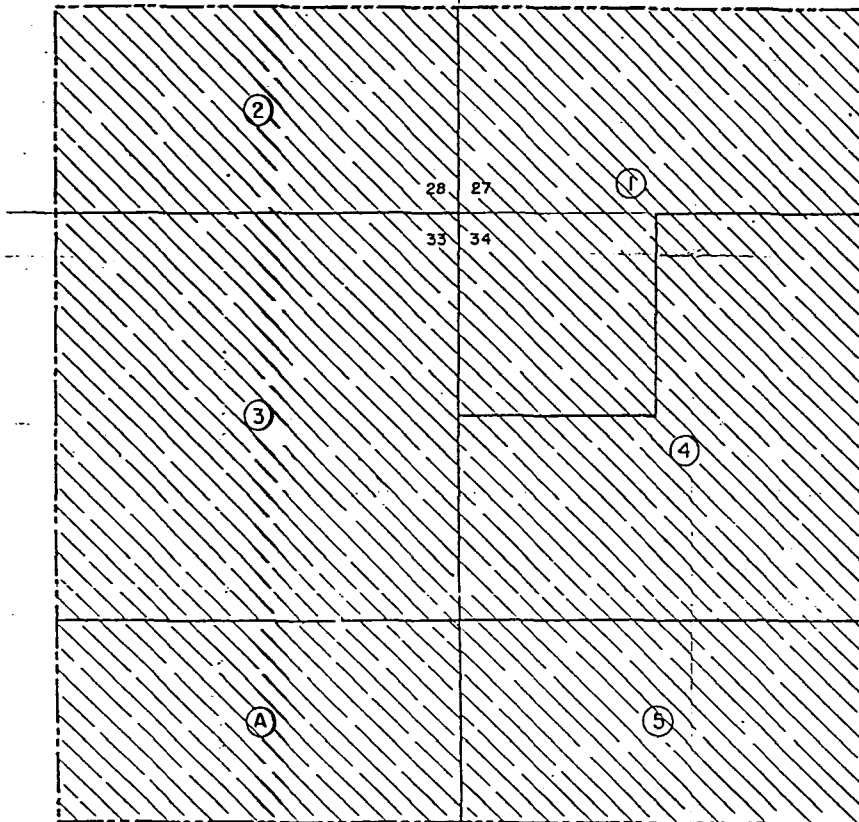
DATE BY REVISIONS APPROVED

DECATIC TO FINAL AUDIT

5-3-49 A.M.L. DISPOSAL ADDED

SHEETS OF DRAWING NO. 65-1-P-2

T.6N., R.2W., S.B.B.M.



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

Reproduced from the original holdings of the
United States Army and Property Administration
Facility

ACQUISITION AUTHORIZATION

RE-D 1554 Dated 2, Sept, 1942

1572

AUDITED

TITLE 43 -- PUBLIC LANDS:
INTERIOR

Chapter 1--Bureau of Land Management,
Department of the Interior

Appendix--Public Land Orders

(Public Land Order 681)

California

REVOKING IN PART PUBLIC LAND ORDER NO. 125 OF MAY 20, 1943, WITHDRAWING
PUBLIC LANDS FOR USE OF WAR DEPARTMENT AS BOMBING TARGET SITES

By virtue of the authority vested in the President and pursuant to
Executive Order No. 9837 of April 24, 1943, it is ordered as follows:

Public Land Order No. 125 of May 20, 1943, withdrawing public lands for
the use of the War Department as bombing target sites, is hereby revoked so
far as it affects the hereinafter-described public lands.

The jurisdiction over and use of such lands granted to the War Department
by Public Land Order No. 125 shall cease upon the date of the signing of
this order. Thereupon, the jurisdiction over and administration of such
lands shall be vested in the Department of the Interior and any other Depart-
ment or agency of the Federal Government according to their respective
interests then of record.

This order shall not otherwise become effective to change the status of
such lands until 10:00 a.m. on May 12, 1949.....

The lands affected by this order are described as follows:

San Bernardino Meridian

- T. 2 N., R. 6 E.,
Sec. 26, ~~1/4~~;
- T. 5 N., R. 1 E.,
Sec. 4, ~~1/4~~;
- Sec. 10, ~~1/4~~;
- T. 6 N., R. 2 W., } #3
Sec. 35, ~~1/4~~.

The area described aggregates 640 acres.

These public lands are generally rolling to mountainous desert.

C. GERALD DAVIDSON,
Assistant Secretary of the Interior.

April 7, 1949.

(F. L. Doc. 43-2654; Filed, Apr. 13 1949; 3:46 a.m.)

APR 21 1943

EDWARD J. SMITH, Clerk
By Francis E. Cross
Deputy Clerk

IN THE DISTRICT COURT OF THE UNITED STATES
IN AND FOR THE SOUTHERN DISTRICT OF CALIFORNIA
CENTRAL DIVISION

10	UNITED STATES OF AMERICA,	)	No. 2434 U.S. Civil
11	Plaintiff,)	
12	vs.	)	FINAL JUDGMENT AND
13	3,000 ACRES OF LAND, MORE OR	)	DECREE IN CONDEMNATION
14	LESS, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, etc., et al.,	)	(As to Tract No. 31 Only)
15	Defendants.)	

16 There having been filed and presented to the Court in the above
17 entitled cause a Stipulation for Judgment executed by the plaintiff,
18 United States of America, by its attorneys of record, and by the
19 defendants, RUTH MARIE WILSON, and CHESTER A. WILSON, her husband.

20
21 and the said parties having stipulated and agreed in writing that
22 \$ 180.00 inclusive of interest, is the fair, just and adequate
23 compensation to be paid by the plaintiff for the condemnation and
24 taking of the property hereinafter described, and that all taxes, liens
25 and other claims affecting said property be paid out of such compensa-
26 tion; and the right to trial by jury, the making and entry of Findings
27 of Fact and Conclusions of Law, and notice of entry of Judgment being
28 expressly waived, and the Court being fully advised in the premises,
29 now renders judgment as follows:

30 IT IS ADJUDGED and DECREED:

31 I

32 That on September 15 1942, a Complaint in Condemnation in

*
S.U. No.2A
MO'G:HLK
4-8-43

1.

1 this action, which included the hereinafter described property, was
2 duly filed in this Court by plaintiff.

3 II

4 That on **December 22,** , 19**4** , plaintiff filed in this action
5 a Declaration of Taking, which included the hereinafter described
6 property; that concurrently therewith plaintiff deposited in the
7 Registry of this Court the estimated just compensation for the taking
8 of said property by plaintiff; that thereupon title to the said property
9 as described in said Declaration of Taking became vested in plaintiff.

10 III

11 That the sum of \$ **180.00** inclusive of interest, is the
12 fair, just and adequate compensation to be paid for the taking of the
13 said property by plaintiff as prayed for in said Complaint.

14 IV

15 That all taxes, assessments and other governmental charges, and
16 all other liens and claims of whatsoever nature existing against said
17 property at the time of filing said Declaration of Taking, are trans-
18 ferred from said property to the said compensation deposited in the
19 Registry of the Court as aforesaid, to the end that the United States
20 may have the unencumbered estate, right, title, or interest in said
21 property as described in the said Declaration of Taking; and
22 accordingly said compensation shall be paid as follows:

23 **\$177.13 to RUTH MARIE WILSON, and CHESTER A. WILSON, her**
24 **husband.**

25 The Court retains jurisdiction to make and enter such further
26 orders and judgments as may be necessary and proper in the premises.

27 V

28 **Tract No. 31** is situated in the County of **San Bernardino**
29 State of California, and is more particularly described as follows:

30 **That title to the following described lands in full**
31 **fee shall be vested in the United States of America, and**
32 **that said lands are stipulated to be condemned and taken**

1 for the use of the United States, subject, however, to
2 existing easements for public roads and highways, for
3 public utilities and for railroads and for pipe lines.
4 Tract No. 31 (designated as Tract No. 10 in the Complaint
5 on file herein) is more particularly described as follows:

6 Tract No. 31

7 The south half of the southwest quarter of
8 Section twenty-seven, Northwest quarter of the
9 Northwest quarter of Section Thirty-four, Town-
10 ship Six north, Range Two east, San Bernardino
11 Base and Meridian, in the County of San Bernar-
12 dino, State of California, according to Govern-
13 ment survey.

14
15 DATED: This 19th day of April, 1943

16
17
18 Paul J. McCormick
United States District Judge

19 Presented by:
20 LEO V. SILVERSTEIN
United States Attorney

APPROVED AS TO FORM AND SUBSTANCE:

21 RUTH MARIE WILSON

22 IRL D. BRETT
Special Assistant to
the Attorney General

23 CHESTER A. WILSON

24 MAURICE O'CONNOR,
Special Attorneys
25 Lands Division
Department of Justice

26 CARROLL F. LODER

Witness

27 By MAURICE O'CONNOR
28 Attorneys for Plaintiff

Judgment entered APR 21 1943

Docketed APR 21 1943

Book 0016 Page 225 illeg

Edmund L. Smith, Clerk,

By Francis E. Cresc Deputy.

31
32 A TRUE COPY. MAY 19 1943
ATTEST, ETC.

Edmund L. Smith, Clerk U. S. District Court,
Southern District of California

By Edmund L. Smith Deputy

G-4

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FILED

APR 19 1943

EDMUND L. SMITH, Clerk
By Francis E. Cross
Deputy Clerk

IN THE DISTRICT COURT OF THE UNITED STATES
IN AND FOR THE SOUTHERN DISTRICT OF CALIFORNIA
CENTRAL DIVISION

UNITED STATES OF AMERICA,

Plaintiff,

vs.

5,000 ACRES OF LAND, MORE OR
LESS, IN THE COUNTY OF **SAN BERNARDINO**,
STATE OF CALIFORNIA, etc., et al.,

Defendants.

No. **2434 010** Civil

FINAL JUDGMENT AND
DECREE IN CONDEMNATION
(As to Parcel No. 32 Only)

There having been filed and presented to the Court in the above
entitled cause a Stipulation for Judgment executed by the plaintiff,
United States of America, by its attorneys of record and by the
defendants **George W. H. Shield and Josephina Shield, husband and wife,**

and the said parties having stipulated and agreed in writing that
\$ 120.00 is the fair, just and adequate compensation to be paid
by the plaintiff for the condemnation and taking of the property here-
inafter described; and the right to trial by jury, the making and
entry of Findings of Fact and Conclusions of Law, and notice of entry
of Judgment being expressly waived, the Court being fully advised in
the premises, now renders judgment as follows:

IT IS ADJUDGED and DECREED:

I

That on **September 15,** 194**2**, a Complaint in Condemnation in
this action, which included the hereinafter described property, was
duly filed in this Court by plaintiff.

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II

That on ~~December 23,~~ 1942, plaintiff filed in this action a Declaration of Taking, which included the hereinafter described property; that concurrently therewith plaintiff deposited in the Registry of this Court the estimated just compensation for the taking by plaintiff of the said property; that thereupon title to the said property became vested in plaintiff as set forth in said Declaration of Taking.

III

That the sum of \$120.00 is the fair, just and adequate compensation for the taking by plaintiff of the said property, as prayed for in said Complaint.

IV

That all taxes, assessments and other governmental charges, and all other liens existing against said property, including all adverse claims by lessees, are transferred from said property to the above mentioned funds deposited as aforesaid in the Registry of the Court to the end that the United States may have an unencumbered title to said property.

V

That from such compensation there first be paid and discharged all taxes, assessments, and other governmental charges, and all other liens and encumbrances existing against said property, or the interest therein taken by plaintiff at the time of such taking; and the balance ~~remaining as follows:~~ **The full sum of One Hundred twenty and no/100 Dollars (\$120.00)**; **George W. H. Shield and Josephine Shield, husband and wife, all taxes having been paid; and**

the Court retains jurisdiction to make and enter such further orders and judgments as may be necessary and proper in this action.

VI

1 State of California, and is more particularly described as follows:

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The South half of the Southeast quarter of
Section 28, Township 6 North, Range 2 West, SAN
BERNARDINO BASE AND MERIDIAN, in the County of San
Bernardino, State of California, according to Govern-
ment Survey.

* * * * *

DATED: This 17th day of April, 1943.

Presented by:
LEO V. SILVERSTEIN
United States Attorney

IRL D. BRETT
Special Assistant to
the Attorney General

MAURICE O'CONNOR
J. STANLEY BRILL
Special Attorneys
Lands Division
Department of Justice

By J. STANLEY BRILL
Attorneys for Plaintiff

Judgment entered April 19-1943
Docketed April 20-1943
Book 2016 Page 173 et seq

Edmund L. Smith, Clerk,
By Francis E. Cross
Deputy.

Paul J. Mac Connick
United States District Judge

APPROVED AS TO FORM AND SUBSTANCE:

George W. H. Shield
GEORGE W. H. SHIELD

Josephine Shield
JOSHEPHINE SHIELD

A TRUE COPY. APR 20 1943
ATTEST, ETC.

Edmund L. Smith, Clerk U. S. District Court,
Southern District of California

Edmund L. Smith Deputy

APR 21 1943

EDWARD L. SMITH, Clerk
Francis E. Cross
Deputy Clerk

IN THE DISTRICT COURT OF THE UNITED STATES
IN AND FOR THE SOUTHERN DISTRICT OF CALIFORNIA
CENTRAL DIVISION

10 UNITED STATES OF AMERICA,

11 Plaintiff,

12 vs.

13 **3,000** ACRES OF LAND, MORE OR
14 LESS, IN THE COUNTY OF **SAN BERNARDINO**
STATE OF CALIFORNIA, etc., et al.,

15 Defendants.

No. **2434-010** Civil

FINAL JUDGMENT AND
DECREE IN CONDEMNATION

(As to **Tract No. 34** Only)

16 There having been filed and presented to the Court in the above
17 entitled cause a Stipulation for Judgment executed by the plaintiff,
18 United States of America, by its attorneys of record, and by the
19 defendants, **Kendrell Osgood Battenschlag and ~~Viola~~**

20 **Battenschlag, his wife**

21 and the said parties having stipulated and agreed in writing that
22 \$ 180.00 inclusive of interest, is the fair, just and adequate
23 compensation to be paid by the plaintiff for the condemnation and
24 taking of the property hereinafter described, and that all taxes, liens
25 and other claims affecting said property be paid out of such compensa-
26 tion; and the right to trial by jury, the making and entry of Findings
27 of Fact and Conclusions of Law, and notice of entry of Judgment being
28 expressly waived, and the Court being fully advised in the premises,
29 now renders judgment as follows:

30 IT IS ADJUDGED and DECREED:

31 I

32 That on **September 15,** 194 ², a Complaint in Condemnation in

*
S.U. No.2A

1.

MO'G:MLK
4-8-43

1 this action, which included the hereinafter described property, was
2 duly filed in this Court by plaintiff.

3 II

4 That on **December 22,** , 194**2** plaintiff filed in this action
5 a Declaration of Taking, which included the hereinafter described
6 property; that concurrently therewith plaintiff deposited in the
7 Registry of this Court the estimated just compensation for the taking
8 of said property by plaintiff; that thereupon title to the said property
9 as described in said Declaration of Taking became vested in plaintiff.

10 III

11 That the sum of \$ **180.00** inclusive of interest, is the
12 fair, just and adequate compensation to be paid for the taking of the
13 said property by plaintiff as prayed for in said Complaint.

14 IV

15 That all taxes, assessments and other governmental charges, and
16 all other liens and claims of whatsoever nature existing against said
17 property at the time of filing said Declaration of Taking, are trans-
18 ferred from said property to the said compensation deposited in the
19 Registry of the Court as aforesaid, to the end that the United States
20 may have the unencumbered estate, right, title, or interest in said
21 property as described in the said Declaration of Taking; and
22 accordingly said compensation shall be paid as follows:

23 **\$144.617 to Kendrell Osgood Battenschlag and Viola**
24 **Battenschlag, his wife.**

25 The Court retains jurisdiction to make and enter such further
26 orders and judgments as may be necessary and proper in the premises.

27 V

28 **Tract No. 34** is situated in the County of **San Bernardino**
29 State of California, and is more particularly described as follows:

30 **That title to the following described lands in full**
31 **fee simple be vested in the United States of America, and**
32 **that said lands stipulated to be condemned and taken for**

*

1 the use of the United States, subject, however, to
2 existing easements for public roads and highways, for
3 public utilities and for railroads and for pipe lines,
4 Tract No. 34 (designated as Tract No. 13 in the Com-
5 plaint on file herein) is more particularly described
6 as follows:

7 TRACT NO. 34

8 The Northeast quarter of Northwest
9 quarter, South half of Northwest quarter of
10 Section thirty-four, Township six North,
11 Range two West, San Bernardino Base and
12 Meridian, in the County of San Bernardino,
13 State of California, according to Govern-
14 ment Survey.

15 DATED: This 19th day of April, 1943

17
18 Paul J. Mc Dermick
United States District Judge

19 Presented by:
20 LEO V. SILVERSTEIN
United States Attorney

APPROVED AS TO FORM AND SUBSTANCE:

21 IRL D. BRETT
22 Special Assistant to
the Attorney General

KENDRELL OSGOOD BATTENSCHLAG

24 MAURICE O'CONNOR,
25 Special Attorneys
Lands Division
26 Department of Justice

VIOLA BATTENSCHLAG

CARROLL F. LODER
WITNESS

27 By MAURICE O'CONNOR
28 Attorneys for Plaintiff

Judgment entered APR 21 1943
Docketed APR 21 1943
Book Co 16 Page 228 et seq.
Edmund L. Smith, Clerk.
By Francis E. Cross
Deputy.

31
32 A TRUE COPY.
ATTEST, ETC. MAY 19 1943

3. Edmund L. Smith, Clerk U. S. District Court,
Southern District of California

By [Signature] Deputy

90

INDEXED

Lands Div.

Dept. of Justice

808 Federal Bldg.

Los Angeles, Cal.

RECORDED	At Request of
	Grantee
MAY 24 1943	Trustee
	Mortgagee
10:50 AM	Mortgagor
	Locator
In Book 1606	Sheriff
	Attorney
Page 11	Owner

OFFICIAL

MINING

RECORDS SAN BERNARDINO
COUNTY, CALIF.

Ted R. Carpetner COUNTY
RECORDER

By A. R. Schultz Deputy

I CERTIFY THAT I HAVE CORRECTLY TRANSCRIBED
THIS DOCUMENT IN ABOVE MENTIONED BOOK.

M. ELLISON Copyist

M. CARROL

\$1.70/12

No. 2434-0'C Civil
Certified Copy Final
Judgment and Decree in
Condemnation as to Tract
No. 34 only

FILED

AUG 24 1943

EDMUND L. SMITH, Clerk
By J. M. Horn
Deputy Clerk

1 photo

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S. U. No.2A

IN THE DISTRICT COURT OF THE UNITED STATES
IN AND FOR THE SOUTHERN DISTRICT OF CALIFORNIA
CENTRAL DIVISION

UNITED STATES OF AMERICA,	)	No. 2434-000	CIVIL
)		
Plaintiff,	)	FINAL JUDGMENT AND	
	)	DECREE IN CONDEMNATION	
vs.)		
3,000 ACRES OF LAND, MORE OR LESS,	)	(As to Tract No. 35	Only)
In the County of San Bernardino)		
State of California; etc., et al.,)		
Defendants.))		

There having been filed and presented to the Court in the above entitled cause a Stipulation for Judgment executed by the plaintiff, United States of America, by its attorneys of record, and by the defendants, **CITIZENS NATIONAL TRUST AND SAVINGS BANK, as Administrator, o.t.a., of the Estate of Elizabeth J. Adair, deceased,** and the said parties having stipulated and agreed in writing that **\$ 400.00** inclusive of interest, is the fair, just and adequate compensation to be paid by the plaintiff for the condemnation and taking of the property hereinafter described, and that all taxes, liens and other claims affecting said property be paid out of such compensation; and the right to trial by jury, the making and entry of Findings of Fact and Conclusions of Law, and notice of entry of Judgment being expressly waived, and the Court being fully advised in the premises, now renders judgment as follows:

IT IS ADJUDGED AND DECREED:

I

That on **September 15,** 194**2**, a Complaint in Condemnation in

AT:MM 8-21-43

1.

1 this action, which included the hereinafter described property, was
2 duly filed in this Court by plaintiff.

3 II

4 That on **December 23,** 1948, plaintiff filed in this action
5 a Declaration of Taking, which included the hereinafter described
6 property; that concurrently therewith plaintiff deposited in the
7 Registry of this Court the estimated just compensation for the taking
8 of said property by plaintiff; that thereupon title to the said property
9 as described in said Declaration of Taking became vested in Plaintiff.

10 III

11 That the sum of \$ **400.00** inclusive of interest, is the fair,
12 just and adequate compensation to be paid for the taking of the said
13 property by plaintiff as prayed for in said Complaint.

14 IV

15 That all taxes, assessments and other governmental charges, and
16 all other liens and claims of whatsoever nature existing against said
17 property at the time of filing said Declaration of Taking, are trans-
18 ferred from said property to the said compensation deposited in the
19 Registry of the Court as aforesaid, to the end that the United States
20 may have the unencumbered estate, right, title, or interest in said
21 property as described in the said Declaration of Taking; and accordingly
22 said compensation shall be paid as follows:

23 **CITIZENS NATIONAL TRUST AND SAVINGS BANK, as Administrator, c.t.a., of**
24 **the Estate of Elizabeth J. Adair, deceased, the sum of \$282.75; the sum of**
25 **\$117.25 having heretofore been paid for delinquent taxes.**

26 The Court retains jurisdiction to make and enter such further
27 orders and judgments as may be necessary and proper in the premises.

28 V

29 **Tract No. 35** is situated in the County of **San Bernardino,**
30 State of California, and is more particularly described as follows:

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The North half of the Southwest quarter
of Section 34, Township 6 North, Range 2
West, San Bernardino Base and Meridian,
in the County of San Bernardino, State of
California, according to Government
Survey, subject to existing easements for
public roads and highways and for public
utilities, for railroads and for pipe
lines.

DATED: This 24 day of AUGUST, 1943.

EDEN HARRISON

United States District Judge

Presented by:
CHARLES H. CARR
United States Attorney

IRL D. BRETT
Special Assistant to
The Attorney General

Judgment entered AUG 24 1943
Docketed AUG 24 1943
Book 20 Page 433

Edmund L. Smith, Clerk

By J. M. HOWE

Deputy.

MAURICE O'CONNOR
A. WEYMANN
Special Attorneys
Lands Division
Department of Justice

By A. WEYMANN
Attorneys for Plaintiff

A TRUE COPY, SEP 1 1943
ATTEST, ETC.
Edmund L. Smith, Clerk U.S. District Court,
Southern District of California
By Wm. G. Cook Deputy

QUITCLAIM DEED

THIS INDENTURE made this 14th day of February, 1949, between the UNITED STATES OF AMERICA, acting by and through the Federal Farm Mortgage Corporation, under and pursuant to Executive Order 9689, dated January 31, 1946 (11 F. R. 1265); the powers and authority contained in the provisions of the Surplus Property Act of 1944 (58 Stat. 765); Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); Regulation No. 1 of the War Assets Administration, as amended; Order of the Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and Order of the Governor of the Farm Credit Administration dated April 28,

1945 (10 F. R. 4694); party of the first part, and Mrs. Carmine E. Oldenburg, Mrs. Barbara Oldenburg-Willman and Betty Louise Oldenburg

of Los Angeles County of California, 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 FOUR HUNDRED AND NO/100

Dollars (\$ 400.00), of the United States of America, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, subject to the exception and reservation of fissionable materials and rights hereinafter 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 San Bernardino, State of California, and more particularly described as follows, to-wit:


The North half of the Southwest quarter of Section 34, Township 6 North, Range 2 West, San Bernardino Base and Meridian, according to Government Survey.

Subject to easements and rights of way now existing or reserved.

Subject also to the following:

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. 3 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 have 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.

Imperial Property



UNITED STATES DEPARTMENT OF AGRICULTURE
FARM CREDIT ADMINISTRATION
WASHINGTON, D. C. - 25

IN REPLY REFER TO

Carbone 4/22

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 delivered 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 United 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 their heirs and assigns, forever, excepting the fissionable materials and rights excepted and reserved above.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name by the Federal Farm Mortgage Corporation, and the seal of said Corporation to be hereunto affixed this 4th day of February, 1949

(Corporate Seal)

UNITED STATES OF AMERICA

By Federal Farm Mortgage Corporation

Attest: /s/ H. W. Hess
Assistant Secretary

By /s/ C. E. Andrews
Vice President

STATE OF CALIFORNIA }
COUNTY OF ALAMEDA } ss

I, G. Wagner, a Notary Public in and for said State and County aforesaid, do certify that on this 4th day of February, 1949, before me appeared

C. E. Andrews, to me personally known, and known to me to be Vice President of the Federal Farm Mortgage Corporation, who being by me duly sworn did say that he is such officer; that the seal affixed to the foregoing deed is the corporate seal of said Corporation and was affixed by order of the Board of Directors of said Corporation and that he signed his name to the instrument by like order; that said deed was signed and sealed by him for said Corporation on behalf of the United States of America; and that said Vice President acknowledged the execution of said deed to be his free act and deed as such officer, the free act and deed of the United States of America by the Federal Farm Mortgage Corporation, and the free act and deed of the Federal Farm Mortgage Corporation acting for the United States of America.

IN WITNESS WHEREOF, I hereunto set my hand and seal at Berkeley, in the County and State aforesaid, on the date last above written.

My commission expires April 22, 1950

(seal)

/s/ G. Wagner
Notary Public.

UNITED STATES OF AMERICA

G-8

QUITCLAIM DEED

THIS INDENTURE made this 7th day of March, 1949, between the UNITED STATES OF AMERICA, acting by and through the Federal Farm Mortgage Corporation, under and pursuant to Executive Order 9689, dated January 31, 1946 (11 F. R. 1265); the powers and authority contained in the provisions of the Surplus Property Act of 1944 (58 Stat. 765); Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); Regulation No. 1 of the War Assets Administration, as amended; Order of the Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and Order of the Governor of the Farm Credit Administration dated April 28,

1945 (10 F. R. 4694); party of the first part, and Chester A. Wilson and Ruth Marie Wilson, Husband and Wife

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 HUNDRED EIGHTY AND NO/100

Dollars (\$180.00),

of the United States of America, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, subject to the exception and reserva-

tion of fissionable materials and rights hereinafter 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 San Bernardino, State of California, and more particularly described as follows, to-wit:

The South half of the Southwest quarter of Section twenty-seven, Northwest quarter of Northwest quarter of Section thirty-four, Township six North, Range two West, SAN BERNARDINO BASE AND MERIDIAN, in the County of San Bornardino, State of California, according to Government Survey.


Subject to easements and rights of way now existing or reserved.



Subject also to the following:

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. 3 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 his 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.

Surplus Property



UNITED STATES DEPARTMENT OF AGRICULTURE
 FARM CREDIT ADMINISTRATION
 WASHINGTON, D. C. - 25

Andrew J. [unclear]

IN REPLY REFER TO

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 delivered 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 United 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 their heirs and assigns, forever, excepting the fissionable materials and rights excepted and reserved above.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name by the Federal Farm Mortgage Corporation, and the seal of said Corporation to be hereunto affixed this 7th day of March, 1949.

(Corporate Seal)

UNITED STATES OF AMERICA

By Federal Farm Mortgage Corporation

By s/ C.E. Andrews
Vice President

Attest: H. W. Hess
Assistant Secretary

STATE OF CALIFORNIA } ss
COUNTY OF ALAMEDA }

I, G. Wagner, a Notary Public in and for said State and County aforesaid, do certify that on this 7th day of March, 1949, before me appeared

C. E. Andrews, to me personally known, and known to me to be Vice President of the Federal Farm Mortgage Corporation, who being by me duly sworn did say that he is such officer; that the seal affixed to the foregoing deed is the corporate seal of said Corporation and was affixed by order of the Board of Directors of said Corporation and that he signed his name to the instrument by like order; that said deed was signed and sealed by him for said Corporation on behalf of the United States of America; and that said Vice President acknowledged the execution of said deed to be his free act and deed as such officer, the free act and deed of the United States of America by the Federal Farm Mortgage Corporation, and the free act and deed of the Federal Farm Mortgage Corporation acting for the United States of America.

IN WITNESS WHEREOF, I hereunto set my hand and seal at Berkeley, in the County and State aforesaid, on the date last above written.

My commission expires April 22, 1950

s/ G. Wagner
Seal Notary Public.

UNITED STATES OF AMERICA

QUITCLAIM DEED

THIS INDENTURE made this 8th day of April, 1949, between the UNITED STATES OF AMERICA, acting by and through the Federal Farm Mortgage Corporation, under and pursuant to Executive Order 9689, dated January 31, 1946 (11 F. R. 1265); the powers and authority contained in the provisions of the Surplus Property Act of 1944 (58 Stat. 765); Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); Regulation No. 1 of the War Assets Administration, as amended; Order of the Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and Order of the Governor of the Farm Credit Administration dated April 28, 1945 (10 F. R. 4694); party of the first part, and George W. H. Shield and Josephine Shield, husband and wife, as joint tenants

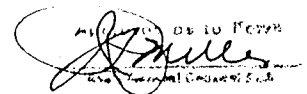
of Los Angeles County of Los Angeles, and State of California party of the second part,

WITNESSETH: That the said party of the first part, for and in consideration of the sum of ONE-HUNDRED TWENTY AND NO/100 Dollars (\$ 120.00),

of the United States of America, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, subject to the exception and reservation of fissionable materials and rights hereinafter set out, unto the said party of the second part, as joint tenants, all that certain piece or parcel of land situate, lying and being in the County of San Bernardino, State of California, and more particularly described as follows, to-wit:

The South half of the Southeast quarter of Section 28, Township 6 North, Range 2 West, SAN BERNARDINO BASE AND MERIDIAN, in the County of San Bernardino, State of California, according to Government Survey.

Subject to easements and rights of way now existing or reserved.



Subject also to the following:

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. 3 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 have 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.



IN REPLY REFER TO

UNITED STATES DEPARTMENT OF AGRICULTURE

FARM CREDIT ADMINISTRATION

WASHINGTON, D. C. - 25

Handwritten signature/initials

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 delivered 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 United 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. 85

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~~ ^{tenants} ~~joint~~ / ~~tenants~~ excepting the fissionable materials and rights excepted and reserved above.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name by the Federal Farm Mortgage Corporation, and the seal of said Corporation to be hereunto affixed this 8th day of April, 1949

(Corporate Seal) UNITED STATES OF AMERICA
By Federal Farm Mortgage Corporation
Attest: s/ H.W. Hess By s/ R. H. Billings
Assistant Secretary Vice President
(Seal)

STATE OF CALIFORNIA } ss
COUNTY OF ALAMEDA }
I, G. Wagner, a Notary Public in and for said State and County aforesaid, do certify that on this 8th day of April, 1949, before me appeared

R. H. Billings, to me personally known, and known to me to be Vice President of the Federal Farm Mortgage Corporation, who being by me duly sworn did say that he is such officer; that the seal affixed to the foregoing deed is the corporate seal of said Corporation and was affixed by order of the Board of Directors of said Corporation and that he signed his name to the instrument by like order; that said deed was signed and sealed by him for said Corporation on behalf of the United States of America; and that said Vice President acknowledged the execution of said deed to be his free act and deed as such officer, the free act and deed of the United States of America by the Federal Farm Mortgage Corporation, and the free act and deed of the Federal Farm Mortgage Corporation acting for the United States of America.

IN WITNESS WHEREOF, I hereunto set my hand and seal at Berkeley, in the County and State aforesaid, on the date last above written.

My commission expires April 22, 1950

s/ G. Wagner
Notary Public.
(Seal)

UNITED STATES
QUIT

QUITCLAIM DEED

THIS INDENTURE made this 16th day of May, 1949, between the UNITED STATES OF AMERICA, acting by and through the Federal Farm Mortgage Corporation, under and pursuant to Executive Order 9689, dated January 31, 1946 (11 F. R. 1265); the powers and authority contained in the provisions of the Surplus Property Act of 1944 (58 Stat. 765); Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); Regulation No. 1 of the War Assets Administration, as amended; Order of the Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and Order of the Governor of the Farm Credit Administration dated April 28,

1945 (10 F. R. 4694); party of the first part, and Bernard J. Westlund, a married man

of Long Beach, 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 THOUSAND DOLLARS

Dollars (\$ 1,000.00),

of the United States of America, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, subject to the exception and reserva-

tion of fissionable materials and rights hereinafter set out, unto the said party of the second part, his heirs and assigns, all that certain

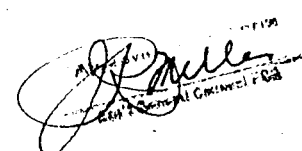
piece or parcel of land situate, lying and being in the County of San Bernardino, State of California, and more particularly described as follows, to-wit:

The Northeast quarter of Section 33, Township 6 North, Range 2 West, SAN BERNARDINO BASE AND MERIDIAN, in the County of San Bernardino, State of California, according to Government Survey.

Subject to easements and rights of way now existing or reserved.

Subject also to the following:

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. 3 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 his 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.



Imperial Property



UNITED STATES DEPARTMENT OF AGRICULTURE
FARM CREDIT ADMINISTRATION

WASHINGTON, D. C. - 25

IN REPLY REFER TO

Carbone 9/22

STATE OF CALIFORNIA } ss
COUNTY OF ALAMEDA }

I, G. Wagner, a Notary Public in and for said State and County aforesaid, do certify

that on this 16th day of May, 1949, before me appeared

R. O. Demsey, to me personally known, and known to me to be Vice President of the Federal Farm Mortgage Corporation, who being by me duly sworn did say that he is such officer; that the seal affixed to the foregoing deed is the corporate seal of said Corporation and was affixed by order of the Board of Directors of said Corporation and that he signed his name to the instrument by like order; that said deed was signed and sealed by him for said Corporation on behalf of the United States of America; and that said Vice President acknowledged the execution of said deed to be his free act and deed as such officer, the free act and deed of the United States of America by the Federal Farm Mortgage Corporation, and the free act and deed of the Federal Farm Mortgage Corporation acting for the United States of America.

IN WITNESS WHEREOF, I hereunto set my hand and seal at Berkeley, in the County and State aforesaid, on the date last above written.

My commission expires April 22, 1950

s/ G. Wagner
Seal Notary Public.

QUIT CLAIM DEED
TO
UNITED STATES OF AMERICA

QUITCLAIM DEED

THIS INDENTURE made this 7th day of March, 1949, between the UNITED STATES OF AMERICA, acting by and through the Federal Farm Mortgage Corporation, under and pursuant to Executive Order 9689, dated January 31, 1946 (11 F. R. 1265); the powers and authority contained in the provisions of the Surplus Property Act of 1944 (58 Stat. 765); Regulation No. 1 of the Surplus Property Board (10 F. R. 3764); Regulation No. 1 of the War Assets Administration, as amended; Order of the Secretary of Agriculture dated April 26, 1945 (10 F. R. 4647); and Order of the Governor of the Farm Credit Administration dated April 28,

1945 (10 F. R. 4694); party of the first part, and Kendrell O. and Viola B. Battenschlag, Husband and Wife

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 HUNDRED EIGHTY AND NO/100

Dollars (\$ 180.00),

of the United States of America, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, subject to the exception and reserva-

tion of fissionable materials and rights hereinafter 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 San Bernardino, State of California, and more particularly described as follows, to-wit:

Northeast quarter of Northwest quarter, South half of Northwest quarter of Section thirty-four, Township six North, Range two West, SAN BERNARDINO BASE AND MERIDIAN, in the County of San Bernardino, State of California, according to Government Survey.

Subject to easements and rights of way now existing or reserved.

Subject also to the following:

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. 3 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 his 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.



IN REPLY REFER TO

Imperial Property
UNITED STATES DEPARTMENT OF AGRICULTURE

FARM CREDIT ADMINISTRATION

WASHINGTON, D. C. - 25

Carbone 9/22

G-12

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 delivered 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 United 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 their heirs and assigns, forever, excepting the fissionable materials and rights excepted and reserved above.

IN WITNESS WHEREOF, the party of the first part has caused these presents to be executed in its name by the Federal Farm Mortgage Corporation, and the seal of said Corporation to be hereunto affixed this 7th day of March, 1949.

(Corporate Seal) UNITED STATES OF AMERICA
By Federal Farm Mortgage Corporation
By s/ C. E. Andrews Vice President
Attest: s/ H. W. Hess Assistant Secretary

STATE OF CALIFORNIA } ss
COUNTY OF ALAMEDA }

I, G. Wagner, a Notary Public in and for said State and County aforesaid, do certify that on this 7th day of March, 1949, before me appeared

C. E. Andrews, to me personally known, and known to me to be Vice President of the Federal Farm Mortgage Corporation, who being by me duly sworn did say that he is such officer; that the seal affixed to the foregoing deed is the corporate seal of said Corporation and was affixed by order of the Board of Directors of said Corporation and that he signed his name to the instrument by like order; that said deed was signed and sealed by him for said Corporation on behalf of the United States of America; and that said Vice President acknowledged the execution of said deed to be his free act and deed as such officer, the free act and deed of the United States of America by the Federal Farm Mortgage Corporation, and the free act and deed of the Federal Farm Mortgage Corporation acting for the United States of America.

IN WITNESS WHEREOF, I hereunto set my hand and seal at Berkeley, in the County and State aforesaid, on the date last above written.

My commission expires April 22, 1950

s/ G. Wagner
Seal Notary Public.

UNITED STATES OF AMERICA

G-12

VICTORVILLE BOMBING TARGET SITE 3
VICTORVILLE, CALIFORNIA

WAA-1005

BLOCK 8 SCHEDULE E

Narrative Report

Victorville Bombing Target Site 3 is located approximately 15 miles east and 3 miles north 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 560 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 3200' above mean sea level. The terrain is fairly uniform with a slope to the southeast. The land is semi arid desert. Cattle grazing is probably the highest possible use with the possibility that the area will be developed for winter home sites.

BLOCK 8 SCHEDULE E

VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO, CALIFORNIA
PROJECT NUMBER J09CA068801

PROJECT AREA BIBLIOGRAPHY

Document-ID	Project Area(s)	OE Classification	Document Name	Document Date	Document Source	Description and Comments
1	A	Confirmed	Real Estate Map of PBR Number 3	12-Dec-47	NARA-Pacific Region	G-2: Description of Property
1	B	Potential	Real Estate Map of PBR Number 3	12-Dec-47	NARA-Pacific Region	G-2: Description of Property
2	A	Confirmed	Historical Record of Victorville Army Air Field	31-Dec-44	NARA-Archives II	F-4: Completion of Bombardier Training Program and Termination of Ranges.
2	B	Potential	Historical Record of Victorville Army Air Field	31-Dec-44	NARA-Archives II	F-4: Completion of Bombardier Training Program and Termination of Ranges.
3	A	Confirmed	Report of Dedudding	4-Feb-48	NARA-Pacific Region	F-5: Type of Ordnance Found on Practice Bombing Range Number 3, et al.
3	B	Potential	Report of Dedudding	4-Feb-48	NARA-Pacific Region	F-5: Type of Ordnance Found on Practice Bombing Range Number 3, et al.
4	A	Confirmed	Historical Record of Victorville Army Air Field	1-Mar-44	NARA-Archives II	F-6: Location of Bomb Targets and Respective Bomb-Run Approach Directions.
4	B	Potential	Historical Record of Victorville Army Air Field	1-Mar-44	NARA-Archives II	F-6: Location of Bomb Targets and Respective Bomb-Run Approach Directions.
5	A	Confirmed	Report of Joint Property Survey Team No. 9	28-Apr-48	NARA-Pacific Region	F-7: Description of Target Rings and Impact Craters.
5	B	Potential	Report of Joint Property Survey Team No. 9	28-Apr-48	NARA-Pacific Region	F-7: Description of Target Rings and Impact Craters.
6	A	Confirmed	Historical Record of Victorville Army Air Field	31-Dec-44	NARA-Archives II	F-8: Ordnance Inventory for Victorville Army Air Field.
6	B	Potential	Historical Record of Victorville Army Air Field	31-Dec-44	NARA-Archives II	F-8: Ordnance Inventory for Victorville Army Air Field.
7	A	Confirmed	Site Photographs	27-Jan-98	Site Visit	J-8 to J-14: Photographs of Bomb Debris.

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX H

NEWSPAPERS/JOURNALS

(This Section Not Used)

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

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I-1	Interview with Messrs. Bill Myers and Bob Hall
I-2	Interview with Mr. Jerry Bronson
I-3	Interview with CPT Grimes, 1SG Fortney and SFC Woods
I-4	Interview with MSGT Hepner and TSGT Glinka
I-5	Interview with Mr. Glenn Brooks
I-6	Interview with Mr. Owen Cooper
I-7	Interview with Mr. Buddy Holiday

CONVERSATION RECORD	TIME 0930 PST	DATE 22 January 1998
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TYPE

VISIT

CONFERENCE

TELEPHONE
INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH Bill Myers Bob Hall	ORGANIZATION San Bernardino Sheriff's Department	TELEPHONE NO. (401) 789-8347
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SUBJECT Victorville Precision Bombing Ranges

SUMMARY Messrs. Hall and Myers are special detectives assigned to the San Bernardino Sheriff's Bomb Squad. Members of the assessment team met with the detectives at the Sheriff's Department. The detectives were shown a map of the Victorville bomb targets and were asked if any they had any knowledge of ordnance being discovered at these sites.

They explained that they receive over 200 calls per year regarding military munitions due to the large military presence in San Bernardino County. Most the munitions recovered have been moved a number of times before they are notified, so there is no way of determining the origin location of the ordnance.


Mr. Myers stated that a 5-inch rocket had been recovered in the vicinity of bomb target 6, 7 or 8. He was unable to identify which target contained the rocket, but he recalled seeing a number of fins sticking out of the ground.

He stated that a 100-lb. practice bomb was recovered from target 14 about seven years ago.

Mr. Myers stated that he had hunted in the area surrounding target N-3, but he did not notice any ordnance in that area.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION George Ofslager	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6024
SIGNATURE 	TITLE QA Spec (Ammo)	DATE 22 January 1998

CONVERSATION RECORD		TIME 8:00	DATE 23 Jan 98
TYPE			
<input checked="" type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING
NAME OF PERSON CONTACT WITH Jerry Bronson	ORGANIZATION BLM, Barstow Field Office	TELEPHONE NO. (760) 252-6075	
SUBJECT Former Victorville Bombing Ranges.			


SUMMARY

Mr. Bronson is the North Zone Supervisor for the Law Enforcement Rangers for the BLM, Barstow Field Office.

During discussion with Mr. Bronson, he made comments about finding ordnance items in the area close to Victorville target N-3. He also commented that the rangers have found ordnance items in the past (didn't remember exact locations) but, he commented that they never touched any of the items, they would always call the EOD unit at Fort Irwin to remove the items.

ACTION REQUIRED
NONE

ACTION TAKEN
NONE

NAME OF PERSON DOCUMENTING COVERSATION Jodi L. Bausman	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6157
SIGNATURE 	TITLE ENG. Tech.	DATE 23 Jan 98

CONVERSATION RECORD	TIME 0930	DATE Wed 28 Jan 1998
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TYPE

VISIT CONFERENCE TELEPHONE
 INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH CPT Grimes, 1SG Fortney SFC Woods	ORGANIZATION 759 th EOD Ft. Irwin, CA	TELEPHONE NO. (760)380-4092
--	---	---------------------------------------


SUBJECT
Victorville Precision Bomb Targets

SUMMARY

CPT Grimes, 1SG Fortney and SFC Woods were questioned by the SI team whether they had any specific knowledge of OE presence at any of the Victorville PBRs. Neither of the 3 could recall the 759th responding to any OE incidents in the Victorville area. They had no knowledge any OE being discovered on any of the PBRs. SFC Woods referred the SI team to B.J. Allen, a former EOD in the COE San Diego Area Office, and the EODs at Edwards AFB.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING COVERSATION Christopher J. Churney	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309)794-6011
SIGNATURE 	TITLE Chem Engineer	DATE 28 Jan 1998

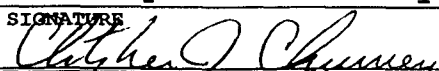
CONVERSATION RECORD		TIME 0845	DATE Thu 29 Jan 1998
TYPE			
<input checked="" type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING
NAME OF PERSON CONTACT WITH MSGT Hepner TSGT Glinka	ORGANIZATION 95 th CEG/CED Edwards AFB, CA	TELEPHONE NO. (805)277-2162	

SUBJECT
Victorville Precision Bomb Targets

SUMMARY
MSGT Hepner and TSGT Glinka have been with the 95th CEG/CED for a few months and 5 ½ years respectively. Although they have responded to OE incidents at George AFB (formerly Victorville AAF), neither could recall ever responding to OE incidents at any of the Victorville PBRs. Neither had any knowledge of any OE incidents occurring at the Victorville PBRs. Both stated the EODs at Fort Irwin would normally respond to any incidents in the area of the PBRs.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING COVERSATION Christopher J. Churney	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309)794-6011
SIGNATURE 	TITLE Chem Engineer	DATE 29 Jan 1998

CONVERSATION RECORD		TIME 11:00 AM	DATE 2 March 1998
TYPE			
<input type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	
		<input type="checkbox"/>	TELEPHONE
			INCOMING
		X	OUTGOING
NAME OF PERSON CONTACTED Glenn Brooks	ORGANIZATION Former Airman	TELEPHONE NO. (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 Ronald Plante	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 782-1481
SIGNATURE <i>Ronald Plante</i>	TITLE QASAS	DATE 2 March 1998

CONVERSATION RECORD		TIME 1:00 PM	DATE 4 March 1998
TYPE			
<input type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	
		TELEPHONE	
		INCOMING	
		X OUTGOING	
NAME OF PERSON CONTACTED Owen Cooper	ORGANIZATION Former Bombardier 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	TELEPHONE NUMBER (309) 782-1481
SIGNATURE 	TITLE QASAS	DATE 4 March 1998

CONVERSATION RECORD	TIME 1434	DATE 7 April 1998
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TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

NAME OF PERSON CONTACT WITH Buddy E. Holiday 26676 Holiday Ranch Road Apple Valley, CA 92307-2053	ORGANIZATION Property Owner	TELEPHONE NO. (760) 247-4758
---	---------------------------------------	--

SUBJECT Victorville Precision Bombing Range and the Potential Presence of OE Thereon and the Presence of Wells

SUMMARY Mr. Holiday is owner of the sixty acre Holiday Ranch located in the southeast quarter of the site. He has lived on the site since 1979. He is part owner of a 100 acre airfield, most of which is included within the boundary of 380 acre target area.

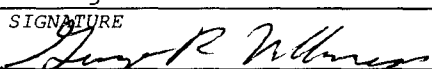
When queried concerning any personal observations or rumors of OE presence, he stated that he had neither found live OE nor heard of any discoveries by neighbors. He stated that his encounters with ordnance were limited to discoveries of the scrap metal that litters the target area. He said that this was true in spite of the fact that he dug three feet into ground while landscaping the terrain to construct his airfield. Lastly, he said that he had extensively examined the debris field and found it to extend no more than one half mile from the target center, in any direction.

When queried about the depth of the water table on his property, Mr. Holiday stated that it was approximately 250 feet below the surface.

Regarding the presence of endangered species on the site, he stated that several years ago when he proposed to construct his airfield, the Department of Fish & Game assessed 90 acres for evidence of the presence of the Desert Tortoise. He said that the results were negative.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION George R. Williams	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-7081
SIGNATURE 	TITLE QA Spec (Ammo)	DATE 7 April 1998

I-7

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX J

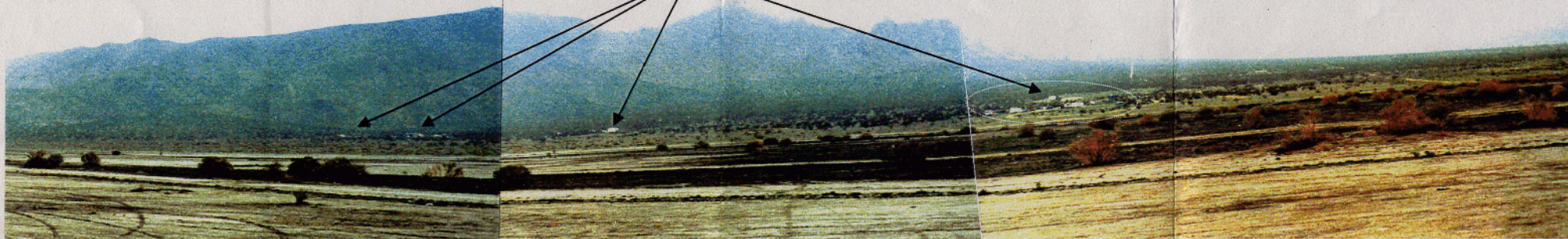
PRESENT SITE PHOTOGRAPHS

APPENDIX J
PRESENT SITE PHOTOGRAPHS

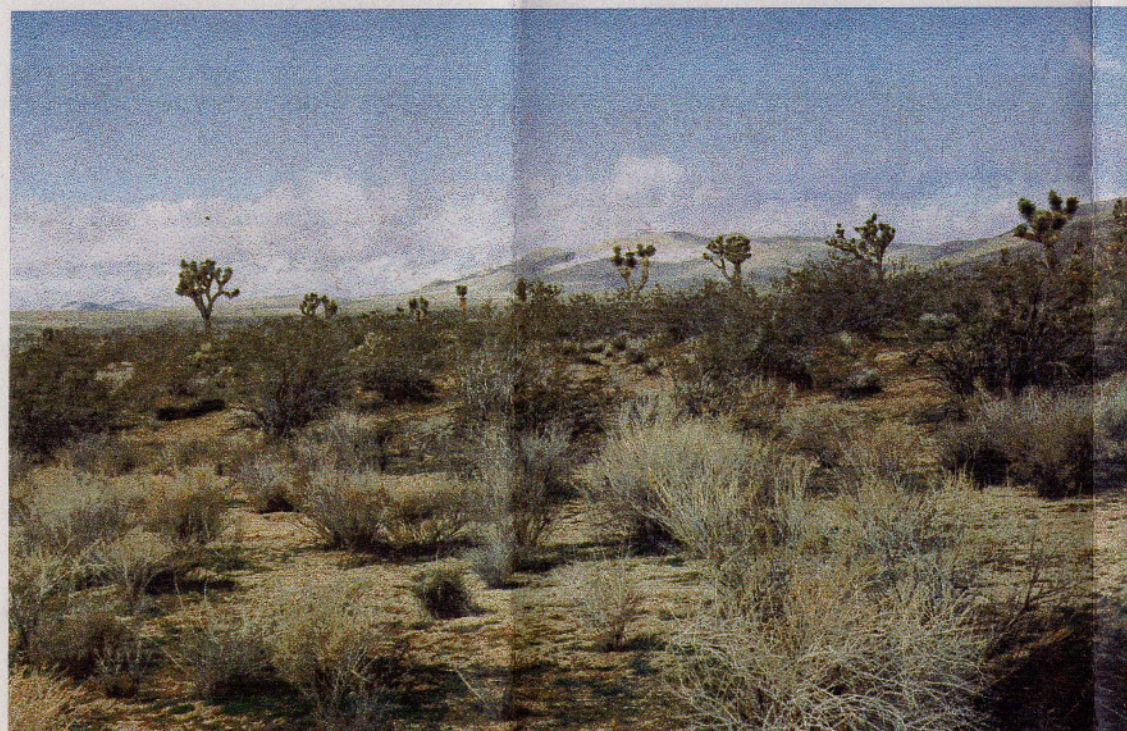
Table of Contents

- J-1 View of Target Area (Area A) As Seen From Dry Lake.
- J-2 View of Target Area (Area A) Illustrating Vegetated Condition of Site.
- J-3 View of Dry Lake Towards Western Section of Buffer Area (Area B).
- J-4 View of General Location of Target Center Near Intersection of Oldenburg and Hutch Skyranch Road.
- J-5 Location of Target Center.
- J-6 View Along Target Ring, Towards Northeast.
- J-7 View Along Target Ring, Towards Southwest.
- J-8 Expended 20 Gage Blank Shotgun Shell Associated With 100-lb M38A2 Practice Bomb Debris.
- J-9 Crushed Body, Suspension Strap and Lug For M47 Series Sand Filled Bomb.
- J-10 Cover For M1A1 Spotting Charge Assembly.
- J-11 Cover For M1A1 Spotting Charge Assembly.
- J-12 Fin and Body Assemblies For 100-lb M38A2 Practice Bomb.
- J-13 Practice Bomb Debris Found Within Target Ring.
- J-14 Body of Crushed Sand Filled Practice Bomb.
- J-15 View of North-South Runway of Landing Strip.

Residences,
Mobile Homes
and Trailers



J-1 VIEW OF TARGET AREA FROM DRY LAKE (AREA A). VEHICLES DRIVING THROUGH THIS AREA AFTER A HEAVY RAIN ARE SUBJECT TO BECOMING MIREED.



J-2 VIEW OF TARGET AREA ILLUSTRATING VEGETATED CONDITION OF SITE. SAGEBRUSH AND JOSHUA TREES ARE THE MOST COMMON FLORA ON THE SITE.



J-3 VIEW OF DRY LAKE TOWARDS WESTERN SECTION OF BUFFER AREA.



J-4 VIEW OF GENERAL LOCATION OF TARGET CENTER.



J-5 LOCATION OF TARGET CENTER. FRAGMENTS OF WHITE QUARTZ MARKING MATERIAL MAY STILL BE FOUND HERE.



J-6 VIEW ALONG TARGET RING, TOWARDS NORTHWEST.



J-7 VIEW ALONG TARGET RING TOWARDS SOUTHEAST.



**J-8 EXPENDED 20 GAGE BLANK SHOTGUN FROM 100-LB
M38A2 PRACTICE BOMB.**



**J-9 CRUSHED BODY, SUSPENSION STRAP AND LUG FOR
M47 SERIES SAND FILLED BOMB.**



J-10 COVER FOR M1A1 SPOTTING CHARGE ASSEMBLY.



J-11 COVER FOR M1A1 SPOTTING CHARGE ASSEMBLY.



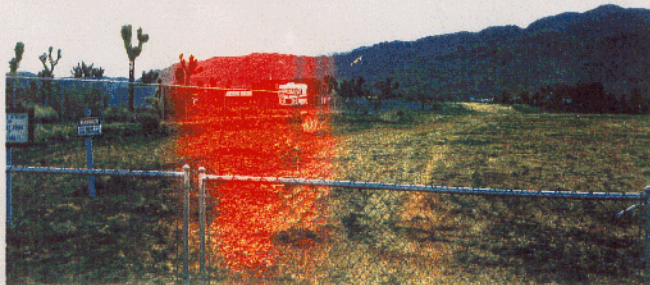
J-12 FIN AND BODY ASSEMBLY FOR 100-LB M38A2 PRACTICE BOMB.



J-13 PRACTICE BOMB DEBRIS WITHIN TARGET RING.



J-14 BODY OF CRUSHED SAND FILLED PRACTICE BOMB.



J-15 NORTH-SOUTH RUNWAY OF LANDING STRIP.

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX K

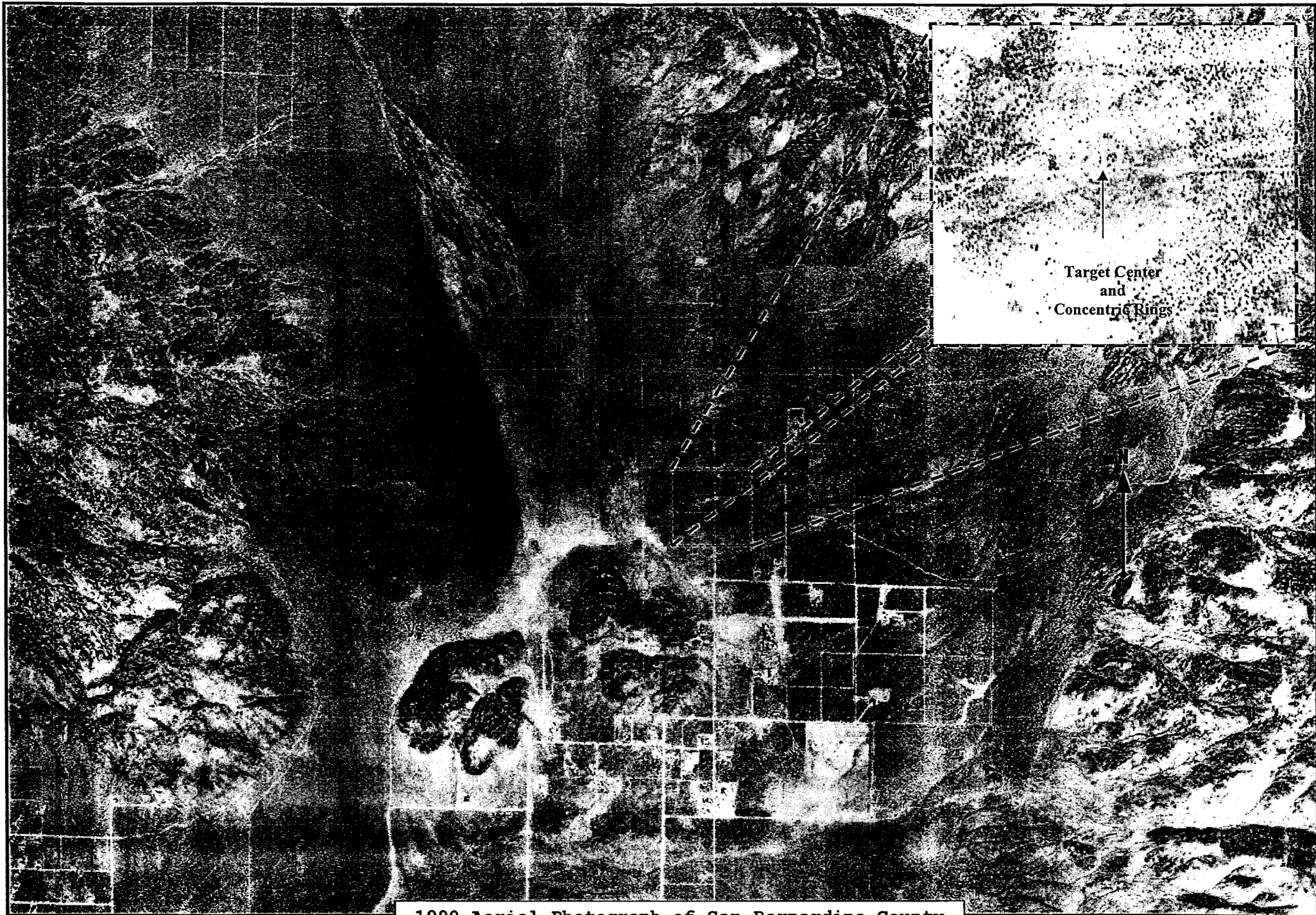
HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

Table of Contents

K-1 1990 Aerial Photograph of San Bernardino County
Including Victorville PBR No. 3 (B-12).



1990 Aerial Photograph of San Bernardino County
Including Victorville PBR No. 3

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX L

REFERENCE MAPS/DRAWINGS

(This Section Not Used)

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX M

ARCHIVE SEARCH REPORT CORRESPONDENCE

(This section is not used)

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX N

PROJECT AREA BIBLIOGRAPHY

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

APPENDIX O

REPORT DISTRIBUTION LIST

APPENDIX O

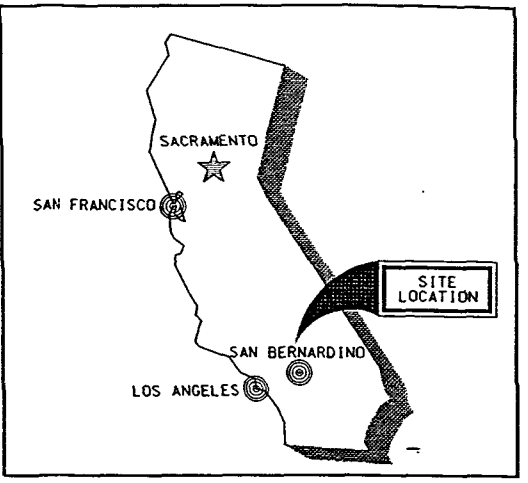
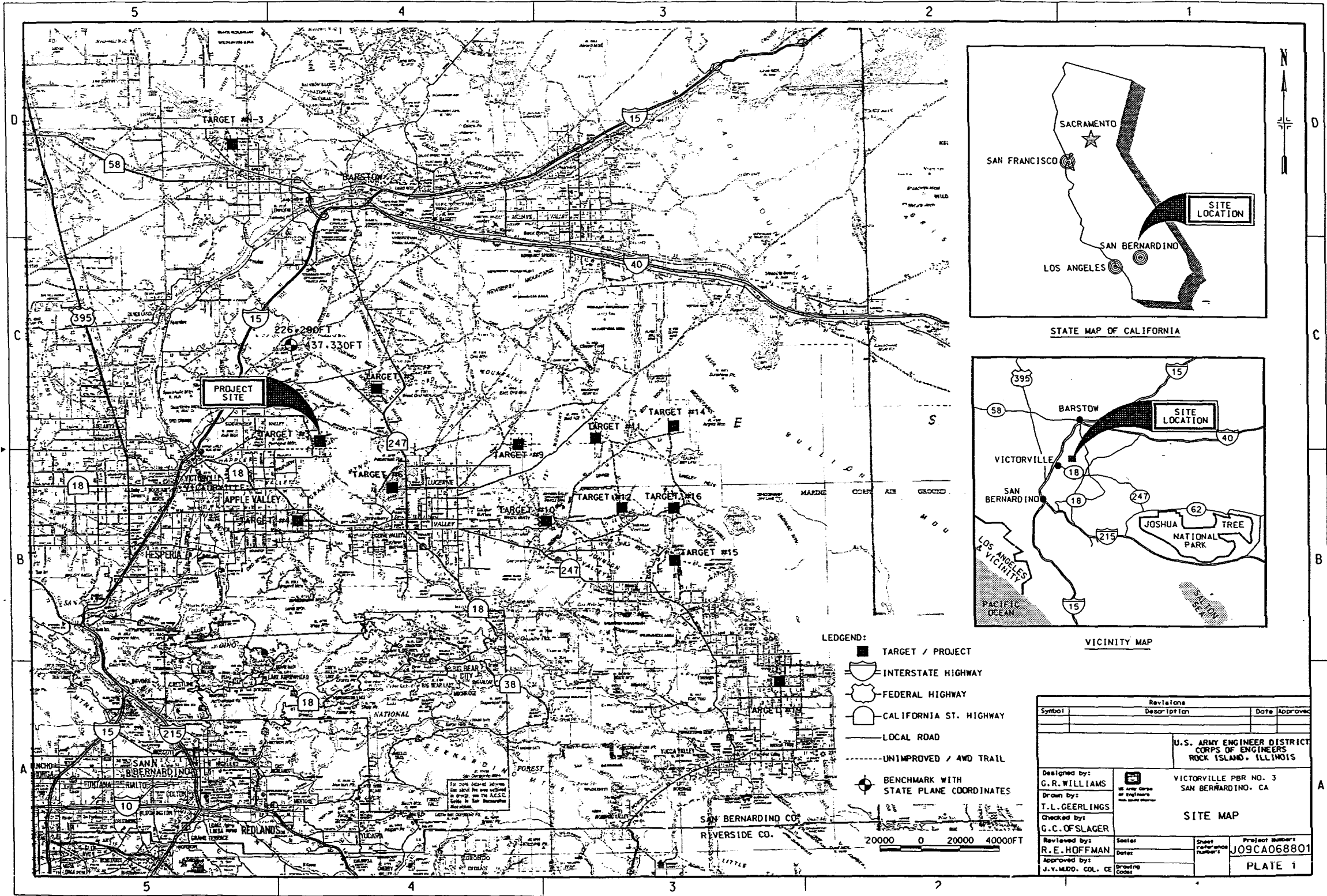
REPORT DISTRIBUTION LIST

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-ED-D			1
-ED-DO	3		

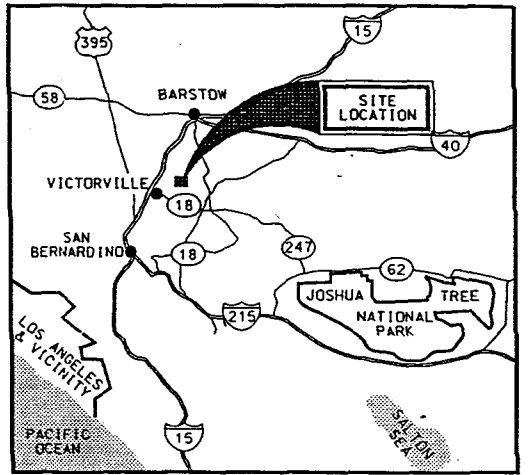
- I - Final Report
- II - Findings Report
- III - Routed Final Report

ORDNANCE AND EXPLOSIVE
ARCHIVES SEARCH REPORT
FOR
VICTORVILLE PRECISION BOMBING RANGE NO. 3
SAN BERNARDINO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA068801

REPORT PLATES



STATE MAP OF CALIFORNIA

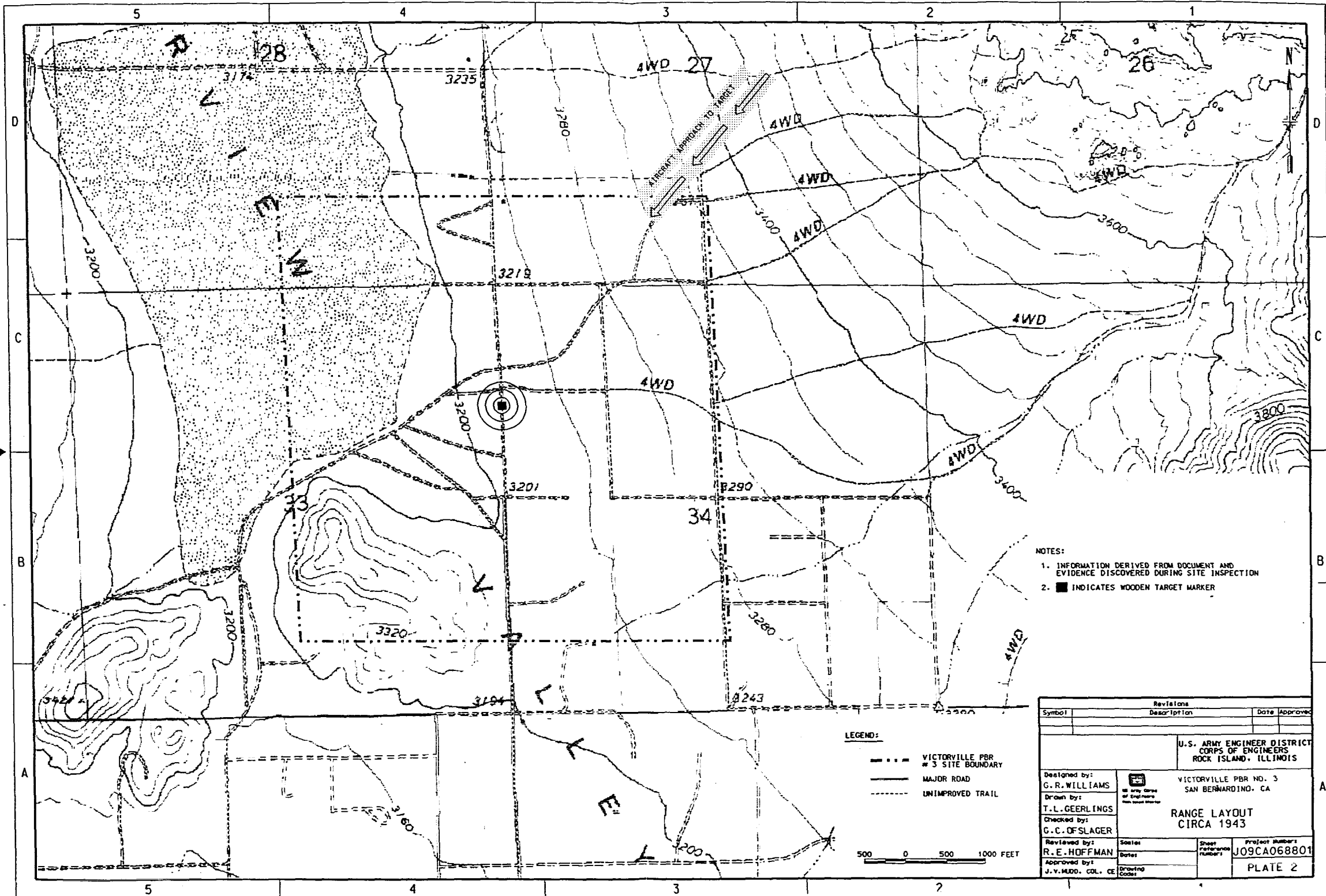


VICINITY MAP

- LEDGEND:
- TARGET / PROJECT
 - INTERSTATE HIGHWAY
 - FEDERAL HIGHWAY
 - CALIFORNIA ST. HIGHWAY
 - LOCAL ROAD
 - - - UNIMPROVED / AWD TRAIL
 - ⊕ BENCHMARK WITH STATE PLANE COORDINATES

20000 0 20000 40000FT

Revisions		Date		Approved	
Symbol	Description				
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS					
Designed by: G.R. WILLIAMS		VICTORVILLE PBR NO. 3 SAN BERNARDINO, CA			
Drawn by: T.L. GEERLINGS					
Checked by: G.C. OFSLAGER		SITE MAP			
Reviewed by: R.E. HOFFMAN	Scale:	Sheet Reference Number:	Project Number: J09CA068801		
Approved by: J.V. MIDD, COL. CE	Date:	Drawing Code:	PLATE 1		



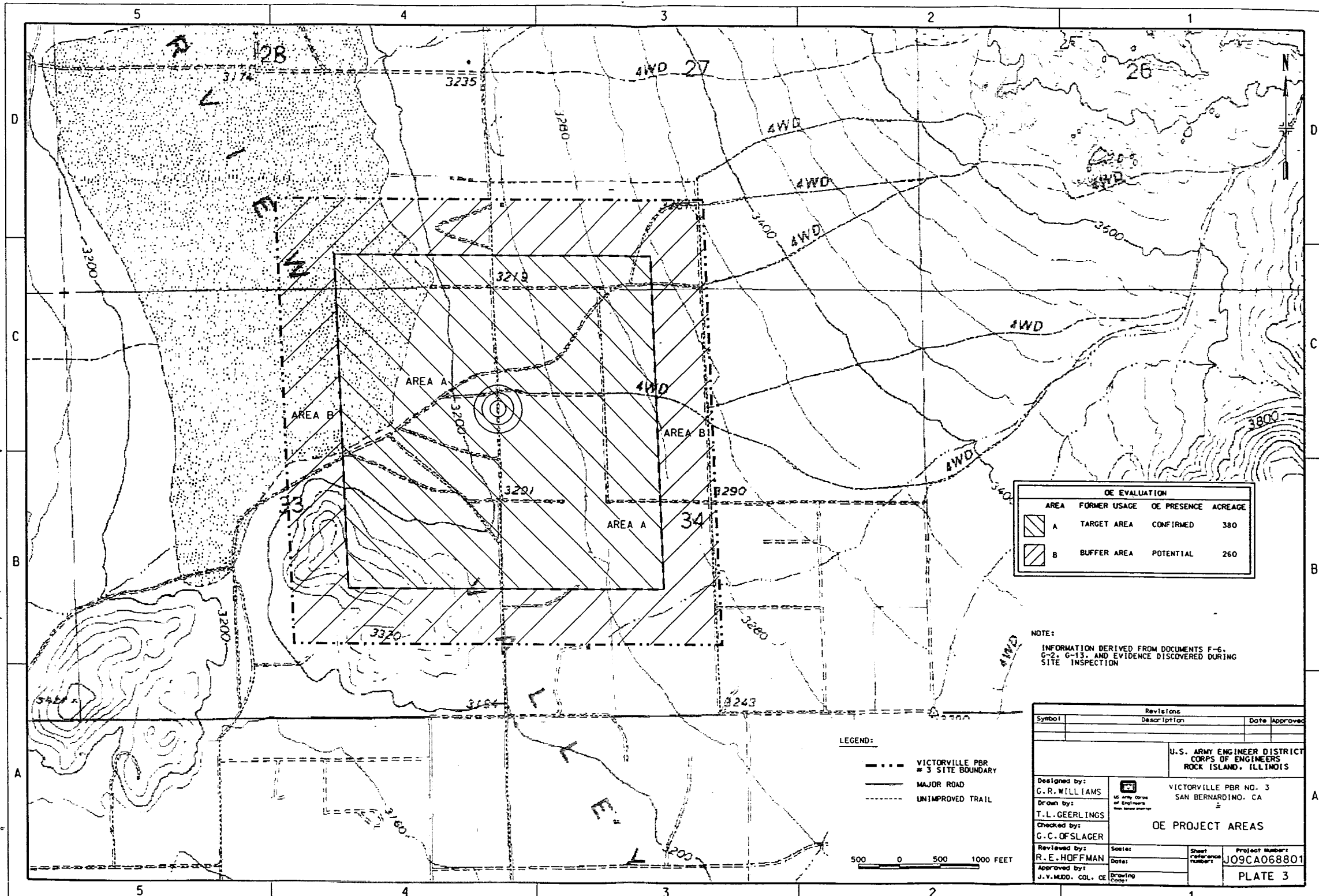
- NOTES:
1. INFORMATION DERIVED FROM DOCUMENT AND EVIDENCE DISCOVERED DURING SITE INSPECTION
 2. ■ INDICATES WOODEN TARGET MARKER

LEGEND:

- VICTORYVILLE PBR # 3 SITE BOUNDARY
- MAJOR ROAD
- - - UNIMPROVED TRAIL

500 0 500 1000 FEET

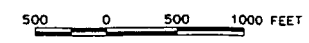
Revisions		Date Approved	
Symbol	Description		
		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS	
Designed by: G. R. WILLIAMS		VICTORYVILLE PBR NO. 3 SAN BERNARDINO, CA RANGE LAYOUT CIRCA 1943	
Drawn by: T. L. GEERLINGS			
Checked by: G. C. OF SLAGER			
Reviewed by: R. E. HOFFMAN		Project Number: JO9CA068801	
Approved by: J. V. MUDG. COL. CE		Drawing Code: PLATE 2	



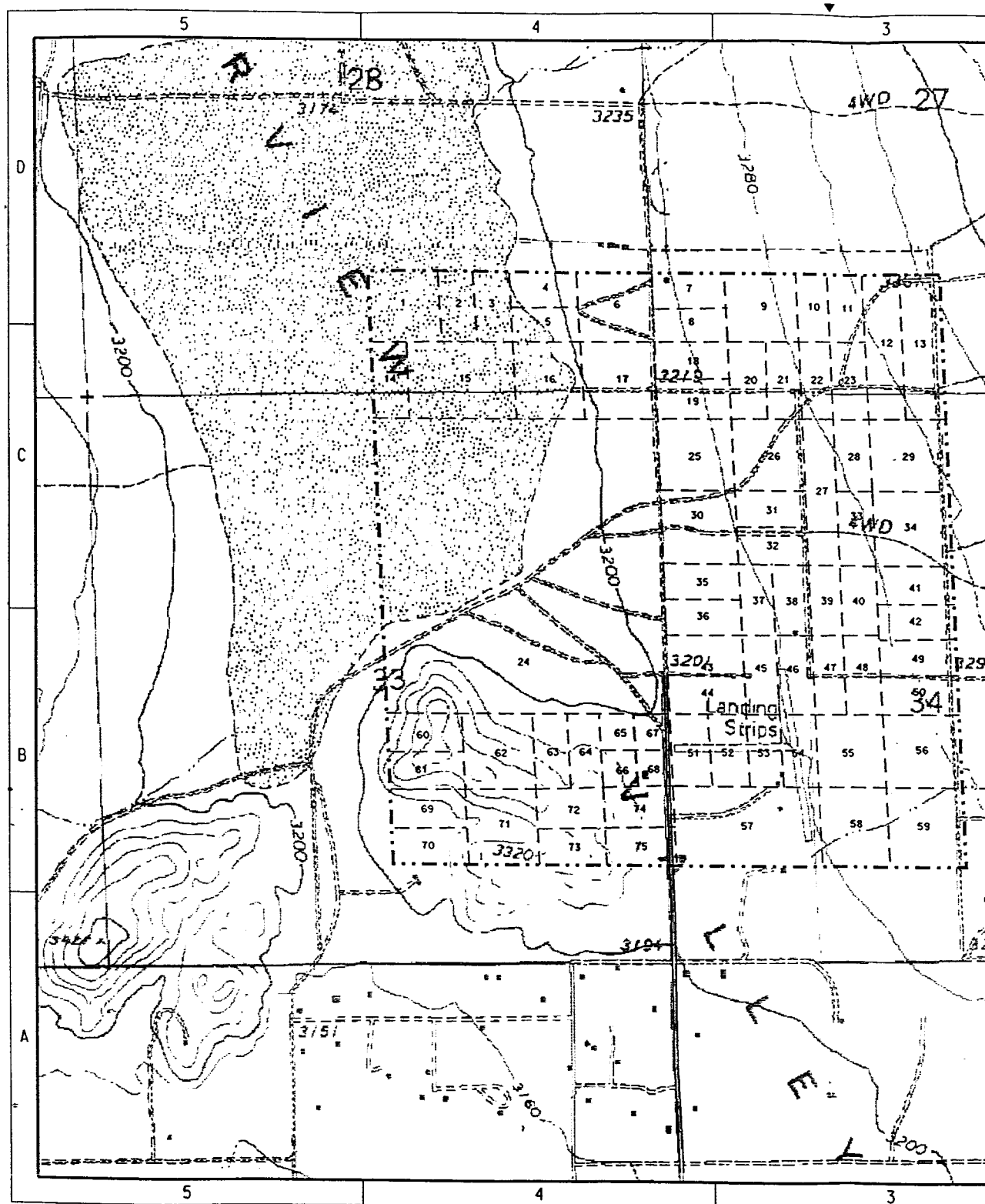
OE EVALUATION			
AREA	FORMER USAGE	OE PRESENCE	ACREAGE
	A	TARGET AREA	CONFIRMED 380
	B	BUFFER AREA	POTENTIAL 260

NOTE:
 INFORMATION DERIVED FROM DOCUMENTS F-6,
 G-2, G-13, AND EVIDENCE DISCOVERED DURING
 SITE INSPECTION

- LEGEND:
- VICTORVILLE PBR # 3 SITE BOUNDARY
 - MAJOR ROAD
 - UNIMPROVED TRAIL



Revisions		Date		Approved	
Symbol	Description				
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS					
Designed by: G. R. WILLIAMS		VICTORVILLE PBR NO. 3 SAN BERNARDINO, CA			
Drawn by: T. L. GEERLINGS		OE PROJECT AREAS			
Checked by: C. C. OFSLAGER					
Reviewed by: R. E. HOFFMAN		Scale:		Sheet reference number:	
Approved by: J. V. MIDD, COL., CE		Date:		Project Number: JO9CA068801	
		Drawing Code:		PLATE 3	

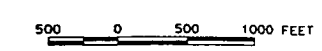


SUMMARY OF OWNERSHIP

PARCEL	OWNER	ACREAGE
1	CEJA, ROBERT	CHINO, CA. 10
2	KAISER, SHARON	SANTA ROSA, CA. 5
3	ROYAL, JOHN	LAS VEGAS, NV. 5
4	RUCKER, B. & W.	SANBERNARDINO, CA. 5
5	GUERRERO, S.C.	APPLE VALLEY, CA. 5
6	HARDESTY, BEVERLY	SAN JACINTO, CA. 10
7	MACHINEMA, ALBERT	CLEVELAND, OH 5
8	LAWRENCE, J. & S.	CHINO, CA 5
9	DE FRANK J. & L.	TARZANA, CA 10
10	GASPAR, KARLO	ARCADIA, CA. 5
11	HOLLAND, JOHN	CANOGA PARK, CA. 5
12	CASTRO, DOROTHY	AYALON, CA. 10
13	SANCHEZ, ANGEL	NORWALK, CA 10
14	WEIS, RUSSEL	NORTH HILLS, CA 5
15	PENDLETON, WILLIAM	ST. PETERSBURG, FL 15
16	REDDY, SAIDHAR	TORRENCE, CA 10
17	COOGAN, JOHN	COSTA MESA, CA. 10
18	HALL, EDWARD	SAN MARCOS, CA 5
19	ZARRABIAN, SAVIS	WESTLAKE VIL., CA 5
20	HOLIDAY, BUDDY	APPLE VALLEY, CA 5
21	WOO, PETER	BUENA PARK, CA. 5
22	COLES, EDWARD	VICTORVILLE, CA. 5
23	HIROYASU, KIVOSHI	CANOGA PARK, CA. 5
24	GASPAR, CARLO	ARCADIA, CA. 160
25	JAVIER, LEONILA	SAN LEANDRO, CA. 10
26	IRVINE, GLENN	STREETER, ND. 10
27	CURRAN, MARGARET	VIRGINIA BCH, VA. 10
28	GABRIEL, JAMES	AUBURN, CA. 5
29	ALCORN, DIANE	CYPRESS, CA. 10
30	JAVIER, ARTURO	SAN LEANDRO, CA. 10
31	OLSZEWSKI, GREG	CATHEDRAL CY., CA. 5
32	HERNANDEZ, ANTONIO	SAN DIEGO, CA. 5
33	CASILLAS, JOSE	ESPERIA, CA. 5
34	SMITH, HELEN	ORANGE, CA 10
35	HOLIDAY, BUDDY	APPLE VALLEY, CA. 5
36	POSADAS, EDUARDO	SAN DIEGO, CA. 5
37	VERGEL, ANTONIO	CERRITOS, CA. 5
38	HUTCHINS, CHARLES	VICTORVILLE, CA. 5
39	OLIVA, VIRGILIO	CHULA VISTA, CA. 5
40	LUIAN, ROSEMARIE	LAGUNA MIGUEL, CA. 5
41	GRIFFITHS, RICHARD	ARCADIA, CA. 5
42	GRIFFITHS, RICHARD	ARCADIA, CA. 5
43	SAMUDIO, LORENZO	UNION CITY, CA. 5
44	GRIFFITHS, RICHARD	ARCADIA, CA. 5
45	ELLIS, HAROLD	APPLE VALLEY, CA. 5
46	HOLIDAY, BUDDY	APPLE VALLEY, CA. 5
47	BERBERABE, JACKIE	TRAVIS AFB, CA. 5
48	PADGETT, TODD	VICTORVILLE, CA. 5
49	SUTTON, WAYNE	GROVELAND, CA. 5
50	HANKS, FRITZ	PORTILLO, CA. 5
51	JEFFERSON, CARL	SAHUARITA, AZ. 5
52	JEFFERSON, CARL	SAHUARITA, AZ. 5
53	JEFFERSON, CARL	SAHUARITA, AZ. 5
54	HUTCHINS, CHARLES	VICTORVILLE, CA. 5
55	HOLIDAY, BUDDY	APPLE VALLEY, CA. 10
56	HOLIDAY, BUDDY	APPLE VALLEY, CA. 10
57	HOLIDAY, BUDDY	APPLE VALLEY, CA. 20
58	QUALLS, BILLY	ANAHEIM, CA. 10
59	QUALLS, BILLY	ANAHEIM, CA. 10
60	BURGER, R. & M.	VICTORVILLE, CA. 5
61	FEDERAL LAND	B.L.M. 5
62	FEDERAL LAND	B.L.M. 10
63	TANDBERG, L. & C.	SAN DIEGO, CA. 5
64	TANDBERG, L. & C.	SAN DIEGO, CA. 5
65	WILSON, DAVID	MONROVIA, CA 2.5
66	JAKUSHAK, VELLO	SANTA BARBARA, CA. 2.5
67	WILSON, DAVID	MONROVIA, CA. 2.5
68	LATHROP, GARY	LOS ANGELOS, CA. 2.5
69	WILLIS, J. & H.	PLACENTIA, CA. 5
70	WILLIS, J. & H.	PLACENTIA, CA. 5
71	FEDERAL LAND	B.L.M. 10
72	FEDERAL LAND	B.L.M. 5
73	FEDERAL LAND	B.L.M. 5
74	DOWNS, ART	APPLE VALLEY, CA. 5
75	DOWNS, ARTHUR	APPLE VALLEY, CA. 5

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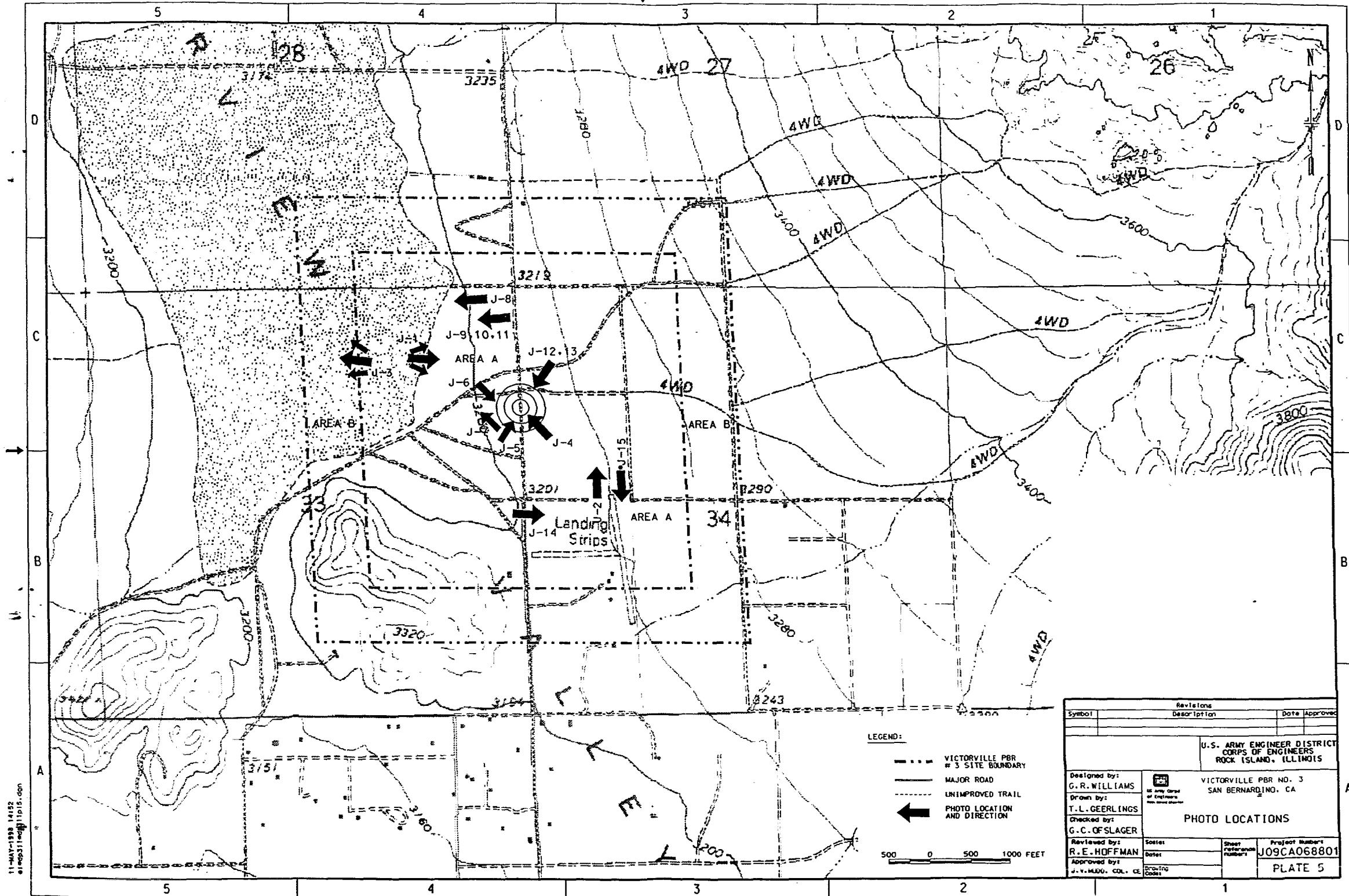
- VICTORVILLE PBR #3 SITE BOUNDARY
- MAJOR ROAD
- - - - UNIMPROVED TRAIL



Revisions			
Symbol	Description	Date	Approved

**U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS**

Designed by: G. R. WILLIAMS		VICTORVILLE PBR NO. 3 SAN BERNARDINO, CA
Drawn by: T. L. GEERLINGS		
Checked by: G. C. OFSLAGER	CURRENT LAND OWNERSHIP	
Reviewed by: R. E. HOFFMAN	Date:	Project Number: J09CA068801
Approved by: J. V. MUDD, COL., CE	Sheet reference Number 1	PLATE 4



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LEGEND:

- VICTORVILLE PBR # 3 SITE BOUNDARY
- MAJOR ROAD
- - - UNIMPROVED TRAIL
- ← PHOTO LOCATION AND DIRECTION

500 0 500 1000 FEET

Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: G. R. WILLIAMS		VICTORVILLE PBR NO. 3 SAN BERNARDINO, CA	
Drawn by: T. L. GEERLINGS		PHOTO LOCATIONS	
Checked by: G. C. OFSLAGER			
Reviewed by: R. E. HOFFMAN			
Approved by: J. V. MAQU, COL. CE		Sheet Reference Number	Project Number J09CA068801
Drawing Code:		PLATE 5	