



US Army Corps  
of Engineers  
Rock Island District



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

## Archives Search Report

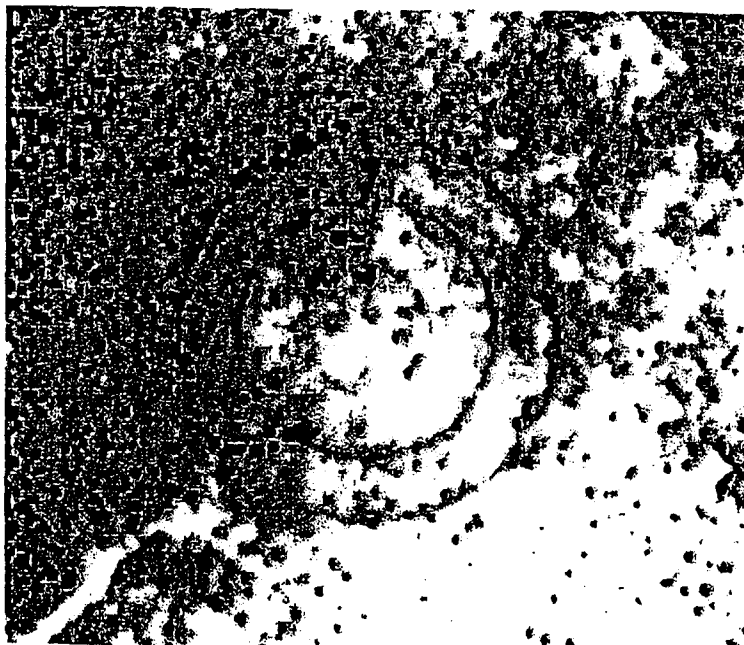
### FINDINGS

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# VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5

VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA069001

MAY 1998



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FOR  
FORMERLY USED DEFENSE SITE

**FINDINGS**

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
SAN BERNARDINO COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA069001

May 1998

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ORDNANCE AND EXPLOSIVES  
 ARCHIVES SEARCH REPORT  
 FOR  
 VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
 VICTORVILLE, CALIFORNIA  
 PROJECT NUMBER J09CA069001

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1. INTRODUCTION

a. **Subject and Purpose**

(1) This report presents the findings of a historical records search and site inspections for ordnance and explosives (OE) located at the Victorville Precision Bombing Range (PBR) No. 5, Victorville, California (see plate 1). 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 691.96 acres that were used as a practice bombing target for the training of bombardiers from 1943 until 1948.

(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, live ammunition components, CWM or explosives that have been lost, abandoned, discarded, buried, fired, or thrown from demolition pits or burning pads. These items were manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

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

2. PREVIOUS INVESTIGATIONS

a. **DERP FUDS Inventory Project Report**

A DERP FUDS Inventory Project Report (INPR) for the former Victorville Precision Bombing Range (PBR) No. 5, Site No: JOCA069001, was conducted in July 1991 (see document E-1). At that time, the Findings and Determination Eligibility (FDE), dated July 1991, found that the site had been formerly used by the Department of Defense and as such was eligible under DERP (see document E-2). A Risk Assessment Code (RAC) of 4 was assigned to the former Victorville Precision Bombing Range (PBR) No. 5.

TABLE 2-1 DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS				
Project Number	DERP-FUDS Category	Present Phase	Comments	Location
J09CA069001	OE	SI	Ordnance or Explosive Presence	Entire 691.96 acres
	BD/DR		None Recommended	
	HTRW		None Recommended	

b. **Other Investigations**

No other pertinent investigations or inspections were discovered during the ASR process.

3. SITE DESCRIPTION

a. **Existing Land Usage**

The former Victorville Precision Bombing Range (PBR) NO. 5 is located approximately 10 miles north of Lucerne Valley, California. The majority of Victorville Precision Bombing Range (PBR) No. 5 is under the control of the U.S. Department of the Interior, Bureau of Land Management (BLM)

Department of the Interior, Bureau of Land Management (BLM) with forty six, two and one-half acre parcels of land privately owned.

<b>TABLE 3-1 CURRENT LAND USAGE</b>					
Area	Former Usage	Present Owner	Present Usage	Size/ Acres	Comments
A	Target Area	BLM/Private Owners	Undeveloped Desert Land	200	See Plate 3
B	Buffer Zone	Same as Above	Undeveloped Desert Land	200	See Plate 3
C	Remaining Land	Same as Above	Undeveloped Desert Land	291.96	See Plate 3
Total Approximate Acreage:				691.96	

**b. Climatic Data**

(1) Victorville is in San Bernardino County, California. The subject area has very long and very hot summers. Winters are quite warm despite an occasional series of days when the nightly minimum temperature drops below freezing. In winter, the average temperature is 45 degrees. In summer, the average temperature is 77 degrees at Victorville. Rainfall is scant in all months, and irrigation is required for all crops.

(2) The total annual precipitation is 5 inches at Victorville. Of this, 30 percent usually falls between April and September. The growing season for most crops falls within this period. Thunderstorms occur about three days each year, and most occur in summer.

(3) The average seasonal snowfall is two inches at Victorville. The greatest snow depth at any one time during the period of record was 17 inches.

(4) The average relative humidity in mid-afternoon is about 20 percent. Humidity is higher at night, and the average at dawn is about 50 percent. Percentage of possible sunshine is 90 percent of the time in the summer and 60 percent in winter.

(5) The prevailing wind is from the west. Average wind speed is highest in summer at 8 miles per hour. Strong, dry winds come from varying directions throughout the year.

and carry sand. The highest percentage of the time (54-65 percent) when windspeed exceeds 12 miles per hour is from March through June. A windspeed of more than 12 miles per hour occurs on an average of 22 percent of the year at Victorville.

**c. Topography**

Topography of the subject site is nearly level with an average elevation of 3,200 feet. The natural vegetation is mainly desert shrubs, grasses, and forbs (see photo J-1 and J-2).

**d. Geology and Soils**

The site lies within the Mojave River Area. Elevation ranges from 2,800 to 3,300 feet. The soil association at the former PBR No. 5 belongs to one major soil series (Cajon-Arizo).

(1) Cajon-Arizo complex, 2 to 15 percent slopes. This association unit consists of 55 percent Cajon gravely sand and 30 percent Arizo gravely loamy sand. The Cajon soil is on wide margins alluvial fans, on side slopes of coalescing fans, and in interfan drainageways.

(2) The Cajon soil is very deep and somewhat excessively drained. It formed in alluvium derived dominantly from granitic material. Typically, the surface layer is very pale brown gravely sand about 6 inches thick. The underlying material to a depth of 60 inches or more is very pale brown gravely sand that has strata of sand.

(3) Permeability of the Cajon soil is rapid. Available water capacity is low. Runoff is slow, and the hazard of water erosion is slight or moderate. Effective rooting depth is 60 inches or more. The soil is subject to rare periods of flooding.

(4) The Arizo soil is very deep and excessively drained. It formed in alluvium derived from granitic material. Typically, the surface layer is pale brown gravely loamy sand about 6 inches thick. The underlying material to a depth of 60 inches or more is pale brown very gravely loamy sand.

(5) Permeability of the Arizo soil is very rapid. Available water capacity is low. Runoff is slow and the hazard of water erosion is slight or moderate. Effective rooting depth is 60 inches or more. The soil is subject to occasional, very brief periods of flooding.

e. **Hydrology**

The water bearing deposits are unconsolidated and partly consolidated continental deposits that form two aquifers, a shallow alluvial aquifer and an underlying regional aquifer. The shallow alluvial aquifer overlies the regional aquifer along the Mojave River and is the more productive aquifer, yielding much of the groundwater that is pumped from the basin. The alluvial aquifer is composed of very permeable younger river deposits of Holocene age and older river deposits of Pleistocene age that are about 200 feet thick and lie within about 1 mile of the Mojave River. The regional aquifer extends throughout most of the study area and is composed of unconsolidated older alluvium and fan deposits of Pleistocene to Tertiary age, and partly consolidated to consolidated sedimentary deposits of Tertiary age. The depth to groundwater at this site is approximately 150 ft.

f. **Natural Resources**

Federally listed or proposed threatened species that may exist at the former Victorville Precision Bombing Range (PBR) No. 5 are listed in Table 3-1 below (see document F-1).

g. **Historical/Cultural Resources**

There are no historical or cultural sites identified at the former Victorville Precision Bombing Range (PBR) No.5, but before beginning any future remediation, contact the SHPO to obtain the current status of the site (see document F-2).

<b>TABLE 3-2 NATURAL, HISTORICAL, &amp; CULTURAL RESOURCES</b>		
<b>Resource Classification</b>	<b>Type</b>	<b>Comment Federal Status</b>
Wildlife	Reptiles Desert Tortoise	Threatened
Vegetation	None Listed	
Historical	None Identified	
Cultural	None Identified	

#### 4. HISTORICAL ORDNANCE PRESENCE

##### a. **Chronological Site Summary**

(1) In May 1943, 691.96 acres was transferred from the U.S. Department of Interior to the War Department through Public Land Order (PLO) 125. The site was used by the Army Air Forces based at the former Victorville Airfield as a practice bombing area (see documents E-1 through E-3).

(2) The Corps of Engineers constructed a bomb target near the center of the site. The target was composed of asphalt strips approximately 5 feet wide configured as three concentric circles with approximate radii of 100, 200, and 300 feet (see plate 3). In addition, there were two strips of asphalt which transected the concentric circles at right angles to each other (see documents E-1 through E-3).

(3) In November 1948, PBR No. 5 was transferred back to the U.S. Department of Interior; this transfer of land became official in March 1954 through PLO 948. However, forty-six two and one half acre parcels are owned by private landowners (see document E-1 through E-3).

##### b. **Review of Ordnance Related Records**

(1) Research efforts began with a thorough review of all reports, historical documents, and reference material gathered during the ASR historical document search (see Appendix A). During this review, an effort was made to focus on areas of potential OE presence.

(2) Several documents including drawings, maps, real estate documentation, correspondence, and various other records appropriate to the former Victorville Precision Bombing Range (PBR) No. 5 were located.

(3) A letter dated 4 April 1942, from the District Engineer, U.S. Engineer Office Los Angeles, California, to Commanding Officer, Victorville Army Flying School, Victorville, California, Subject: Bombing Targets-Notice of Completion and Release to Air Corps. The letter releases bombing targets numbers 4, 5, 6, and 8 for use and maintenance. Also the accepting of bombing targets by the Executive Officer of Victorville Army Air Field, Victorville, California (see document F-3).

(4) Maps, dated 25 May and 20 July 1943, from the Historical Record of Victorville Army Air Field, Victorville, California. These maps show direction of approach for the



aircraft to the target, airspeed and altitude. Also, regional flying/training and danger areas for each target (see documents L-1 and L-2).

(5) Excerpt, dated 1 November through 31 December 1944, from the History of Victorville Army Air Field Victorville, California. A list indicating types of the ordnance supplies on hand during this period. This indicates what bombs were on hand and available for use. The only bombs used on this site were M38A2's (see document F-4).

(6) Letter, dated 25 October 1947, from the Corps of Engineers, March Field, Riverside, California. A certificate showing Victorville Bombing Targets, numbers 2, 4, 5 and 18 have been examined for unexploded ordnance with none being found. Also, the only evidence of ordnance was 100-lb M38A2 practice bombs with the resulting scrap from these bombs not being removed (see document F-5).

(7) Document, dated 14 January 1948, from Deputy Director of Service, Supply and Procurement Washington, D.C., places bomb targets 2, 4, 5 and 18 in the category of surplus effective 12 January 1948 (see document F-6).

(8) Document, dated 17 June 1948, from 9200<sup>th</sup> TSU-OE, Detachment # 15 Bomb and Shell Disposal Team. Designated targets 2, 4, 5, and 18 have been given a careful visual inspection and have been cleared of all dangerous and/or explosive materials. Also, these areas will not require additional dedudding to render them safe for public use (see document F-7).

(9) Letter, dated 1 November 1948, from the Assistant Chief of Engineers for Real Estate. Canceling Public Land Order 125 insofar as applicable to bombing targets 1, 5, 10, 11, 12, 13,14, and 18 (see document F-8).

(10) Letter, dated 29 March 1954, transferring 691.96 acres to the Department of Interior under PLO No. 948 (see document F-9).

**c. Interviews With Site Related Personnel**

(1) Mr. Hall and Mr. Myers are special detectives assigned to the San Bernardino Sheriff's Bomb Squad. The detectives were shown a map of the Victorville bomb targets and were asked if they had any knowledge of ordnance being discovered at these sites. They explained that they received 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 original location of the ordnance. They mentioned a few target areas that ordnance had been recovered on but, to the best of their recollection, no ordnance had been discovered on PBR No. 5 (see document I-1).

(2) Mr. Bronson is the North Zone Supervisor of the Law Enforcement Rangers for the Bureau of Land Management (BLM), Barstow Field Office. Mr. Bronson stated that rangers have found ordnance items in the past (he didn't remember exact locations). He commented that they never touched any of the items and they would always call the EOD unit at Fort Irwin to remove the items (see document I-2)

(3) CPT Grimes, 1SG Fortney, and SFC Woods from the 759<sup>th</sup> Ordnance Company, Explosive Ordnance Disposal (EOD) were questioned by the SI team whether they had any specific knowledge of OE presence at any of the Victorville PBRs. None of the three could recall the 759<sup>th</sup> responding to 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 EOD unit at Edward's AFB (see document I-3).

(4) MSGT Hepner and TSGT Glinka have been with the 95<sup>th</sup> Civil Engineering Group (CEG) for a few months and five and one half 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 EOD unit at Fort Irwin would normally respond to any incidents in the area of the PBRs (see document I-4).

(5) Mr. Brooks was part of the initial enlisted cadre arriving 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 carried both .50 caliber and 20mm machine guns, but were fired only at Muroc Dry Lake range near what is now Edwards AFB. He knew specifically of 4 Victorville AAF bombing ranges that were in dry lakes. Mr. Brooks said the AT-11s were used 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 the small arms and

used when he was there. He added that the 100-lb practice bombs were stored out in the open, and that the small arms and spotting charges were the only items stored in one small igloo on the AAF (see document I-5).

(6) Mr. Cooper joined the Army Air Forces as a 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. Mr. Cooper said that all he ever dropped were 100-lb sand filled bombs with spotting charges. 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 (see document I-6).

## 5. SITE ELIGIBILITY

### a. **Confirmed Formerly Used Defense Sites**

(1) Former land usage and ownership by the Department of Defense was previously confirmed for the Victorville Precision Bombing Range (PBR) No. 5 (see document E-1). The Findings and Determination of Eligibility for this site, dated 23 July 1991, defined this area as eligible under the DERP FUDS Program. All property is currently owned by the U.S. Department of the Interior, Bureau of Land Management and forty-six private landowners.

### b. **Potential Formerly Used Defense Sites**

There were no potential formerly used defense sites discovered during preparation of this ASR.

## 6. VISUAL SITE INSPECTION

### a. **General Procedures and Safety**

(1) From 26 to 30 January 1998, members of the site investigation (SI) team traveled to the former Victorville Precision Bombing Range (PBR) No. 5, which is located approximately ten miles north of Lucerne Valley, California. The primary purpose of the SI team was to assess the OE presence or potential of the former precision bombing range. The inspection was limited to non-intrusive methods, e.g., subsurface sampling was not authorized nor performed.

briefing which stressed safety and that OE should only be handled by military EOD personnel was conducted prior to the inspection for all personnel attending the on-site inspection. Site safety was maintained at all times by the inspection team during the on-site inspection.

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

(4) The site inspection consisted of a vehicle and foot search of the site. The primary focus of the site visit was to locate evidence of OE surface presence or a potential OE burial site.

**b. Area A: Target Area**

(1) Area A is approximately two hundred acres located in the center of PBR No. 5. This area was/is the site of three concentric asphalt circles. These circles were what the pilots would aim at when dropping their practice bombs (see plates 2 through 5, photographs J-3, J-4, K-1 and K-2).

(2) The SI team drove to the center of the site and found the asphalt circles. The four members of the SI team then split up and went in four different directions. Remnants of OE debris were discovered out to about  $\frac{1}{4}$  mile in all directions. The amount of debris was light with only 100-lb practice bomb debris being discovered on this site (see photographs J-5 and J-6).

(3) The SI team discovered a small privately owned mobile home approximately 150 to 200 yards north to north east of the outer circle. The mobile home appeared to be occupied due to the presents of numerous dogs. The SI team also found evidence of recreational vehicle (motorcycle) usage on the site (see photograph J-7).

**c. Area B: Buffer Zone**

Area B is approximately a two-hundred acre area surrounding Area A. The SI team members independently walked Area B and found no evidence of OE or OE debris presence. There was some evidence of recreational vehicle usage (see plate 3 and photographs J-1 and J-2).

d. **Area C: Remaining Land**

This area consists of all property identified as part of the former PBR No. 5, other than that contained within Areas A and B. The inspection team found no OE or OE debris within this area (see plate 3 & photographs J-1 and J-2).

7. EVALUATION OF ORDNANCE HAZARDS

a. **General Procedures**

(1) Each area was evaluated to determine confirmed, potential, or uncontaminated ordnance presence. **Confirmed Ordnance and Explosives (OE) presence** is based on verifiable historical record evidence or direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Additional field data is 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 documented 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.

(2) **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 is 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 (hearsay evidence).

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

(4) No evidence was developed during the records search or the site visit that indicated that Chemical Warfare Material (CWM) was used or was present at the Victorville Precision Bombing Range (PBR) No. 5.

**b. Area A: Target Area**

(1) The SI team walked most of this area and found a few visual remains of M38A2 practice bombs. As indicated in document F-5 certificate of dedudding, there is no evidence of anything but 100-lb M38A2 having been dropped on this target and the scrap from these bombs not being removed. This area is where the target circles are and where the precision bombing was concentrated.

(2) The only type of OE debris found was remnants from M38A2 practice bombs. The potential explosive hazard associated with this type of munition is the spotting charge, which contains a small amount of black powder.

(3) Due to the OE debris that has been found on site since site closure, Area A is considered to have a **confirmed OE presence**.

**c. Area B: Buffer Zone**

(1) Area B is a **potential** area of OE presence due to this area's close proximity to Area A. The SI team performed a surface visual inspection of this area to the greatest extent possible without revealing an OE presence.

(2) Due to the inexperience of the bombardiers, it is possible that practice bombs may have missed the target area and be present in Area B.

d. **Area C: Remaining Land**

This area is considered to be **uncontaminated**. The SI team performed a surface visual inspection of this area to the greatest extent possible, without discovering any OE items. In addition, no other historical evidence could be found to substantiate a remaining hazardous OE presence in this area.

8. SITE ORDNANCE TECHNICAL DATA

a. **End Item Data**

Tables 8-1 and 8-2 are a listing of ammunition and explosive fillers that may have been used at the PBR No.5. Table 8-2, is a summary of site ordnance fillers that has been developed based on Table 8-1. These tables are based on review of historical documentation and specifications stated in appendix D. Tables 8-1 and 8-2 do not indicate a current presence but is only a listing of ordnance that may have been present at the former PBR No. 5 and is included for reference purposes only.

TABLE 8-1 AMMUNITION USED/FOUND AND EXPLOSIVES/CHEMICAL FILLER		
ITEM	MODEL/TYPE	FILLER/WEIGHT
Bomb, practice 100lb W/spotting charge	M38A2 M1A1	Sand (inert) 100lbs 3 lbs Black Powder

b. **Chemical Data of Ordnance Fillers**

TABLE 8-2 CHEMICAL DATA OF ORDNANCE FILLERS		
Filler	Synonym(s)	Chemical Formula
Black Powder		
74% Potassium Nitrate	Saltpeter; Niter	KNO <sub>3</sub>
11% Sulfur		S
16% Charcoal		C

9. OTHER SITE ENVIRONMENTAL HAZARDS

a. **Hazardous, Toxic, and Radiological Waste (HTRW)**

No potential Hazardous, Toxic, and Radiological Waste projects were found during this site investigation.

b. **Building Demolition/Debris Removal (BD/DR)**

No potential Building Demolition/Debris Removal projects were found during this site investigation.



ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PERCISION BOMBING RANGE (PBR) NO.5  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER: JO9CA069001

APPENDIX A

REFERENCE SOURCES

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<b>FEDERAL AGENCIES</b>			
<u>Department of Defense</u>			
DEFENSE LIBRARY ON DISK PENTAGON RM 1A518 WASHINGTON, DC 20310-6080	COMPUTER SEARCH (DLOD)	(703) 697-4658	NO RELEVANT INFORMATION
DEFENSE TECHNICAL INFORMATION CENTER 8725 JOHN J. KINGMAN ROAD SUITE 0944 FORT BELVOIR, VA 22060-6218	COMPUTER SEARCH (DTIC)	(703) 767-8274	NO RELEVANT INFORMATION
DOD EXPLOSIVES SAFETY BOARD 2461 EISENHOWER AVE. ALEXANDRIA, VA	COMPUTER SEARCH (DDESB)	(703) 325-8624	NO RELEVANT INFORMATION
NATIONAL IMAGERY AND MAPPING AGENCY ATTN: ISDFR 4600 SANGAMORE RD BETHESDA, MD 20816	BILL HARRIS (DMA)	(800) 826-0342	NEW AERONAUTICAL CHARTS
<u>Army</u>			
759TH ORD CO (EOD) BLDG 520 FT. IRWIN, CA 92310	CPT GRIMES, 1SG FORTNEY, SFC WOODS	(760) 380-4092	SEE INTERVIEW I-3
DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE US ARMY LOGISTICS MGMT COLL FT. LEE, VA 23801	COMPUTER SEARCH (DLSIE)	(804) 734-4007	NO RELEVANT INFORMATION
IOC HISTORICAL OFFICE ATTN: AMSIO-EAH, BLDG 390 ROCK ISLAND, IL 61299	TOM SLATTERY	(309) 794-1450	NOT STAFFED FOR RESEARCH. REFERRED TO NARA, WASHINGTON, D.C.
CENTER OF MILITARY HISTORY ATTN: DAMH-RAS 1099 14th ST. N.W. WASHINGTON, DC 20536	STAFF	(202) 761-5416	SEE APPENDIX B, SECTION II, PARTS A AND B

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Army (cont.)</u>			
U.S. ARMY MILITARY HISTORY INSTITUTE LIBRARY CARLISLE BARRACKS, BLDG 22 CARLISLE, PA 17013-5008	JOHN SLONAKER DENNIS VETOCK	(717) 245-3611	NO RELEVANT INFORMATION
USACE-LOS ANGELES DISTRICT SOUTHERN CALIF AREA OFFICE 10845 RANCHO BERNARDO ROAD RANCHO BERNARDO, CA 92127	JIM WALKER B.J. ALLEN	(619) 674-6789	PROVIDED REFERRALS.
U.S. ARMY CBDCOM ATTN: AMSCB-CIH APG, MD 21010-5423	KATHLEEN CIOLFI	(410) 671-4430	NO RELEVANT INFORMATION
USACE-LOS ANGELES DISTRICT 911 WILSHIRE BLVD LOS ANGELES, CA 93043	DEB CASTENS GREG BOGHOSSIAN RICHARD NAGLE	(213) 452-3719	INPRS
U.S. ARMY ORDNANCE MUSEUM ATTN: ATSL-DOS-M BLDG 2601 APG, MD 21005-5201	DR. ATWATER ROGER GODIN	(410) 278-3602	SOURCE FOR OLD ORDNANCE AND NAVY PUBLICATIONS.
US ARMY CHEMICAL SCHOOL FISHER LIBRARY BUILDING 1081 FT McCLELLAN, AL 36205-5000	DICK PASTORETT	(205) 848-4414	NO RELEVANT INFORMATION
U.S. ARMY TECHNICAL CENTER FOR EXPLOSIVES SAFETY LIBRARY ATTN: SIOAC-ESM SAVANNA, IL 61074-9639	CHRIS HOLIDAY	(815) 273-8772	REFERENCE SOURCES
ROCK ISLAND ARSENAL MUSEUM ATTN: SMCRI-PCA-M, BLDG 60 ROCK ISLAND, IL 61299	CHRIS LEINICKE	(309) 794-5021	TECHNICAL MANUALS

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Army (cont.)</u>			
U.S. MILITARY HISTORY INSTITUTE ARCHIVES BRANCH CARSLISLE BARRACKS CARLSISLE, PA 17013	RICHARD SOMMERS	(717) 245-3601	NO RELEVANT INFORMATION
U.S. MILITARY HISTORY INSTITUTE PHOTO ARCHIVES CARSLISLE BARRACKS CARLSISLE, PA 17013	MIKE WINEY	(717) 245-3434	NO RELEVANT INFORMATION
<u>Air Force</u>			
AIR FORCE HISTORICAL RESEARCH AGENCY (AFHRA) 600 CHENNAULT DRIVE MAXWELL AFB, AL 36112	JOE CAVER	(334) 953-2395	HISTORICAL INFORMATION ON AFBS
AIR FORCE HISTORICAL RESEARCH AGENCY (AFHRA) 600 CHENNAULT DRIVE MAXWELL AFB, AL 36112	IRIS SYSTEM	(334) 953-2437	MICROFILM INFORMATION
95 <sup>TH</sup> CEG/CED EDWARDS AFB, CA	MSGT HEPNER TSGT GLINKA	(805) 277-2162	SEE INTERVIEW I-4
AIR FORCE BASES	PUBLICATION		SOME HISTORICAL BACKGROUND ON VICTORVILLE AAF
AIR UNIVERSITY LIBRARY 600 CHENNAULT CIRCLE MAXWELL AFB, AL 36112	LEROY BELL	(334) 953-2888	NO RELEVANT INFORMATION
ARMY AIR FORCES INSTALLATIONS DIRECTORY - CONUS	PUBLICATION		SOME INFORMATION ON VICTORVILLE AAF AND ITS BOMBING TARGETS
DEVELOPMENT OF AAF BASE FACILITIES IN THE U.S. 1939-45	PUBLICATION		SOME INFORMATION ON VICTORVILLE AAF AND ITS BOMBING TARGETS

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Navy</u>			
WASHINGTON NAVAL YARD OPERATIONAL ARCHIVES BUILDING 57 WASHINGTON, DC 20374	STAFF	(202) 433-3171	SEE APPENDIX B, SECTION II, PARTS A AND B
MARINE CORPS HISTORICAL CENTER BLDG 58 WASHINGTON NAVY YARD WASHINGTON, DC 20374	STAFF	(202) 433-3483	SEE APPENDIX B, SECTION II, PARTS A AND B
USMC EOD UNIT, MCAGCC 29 PALMS, CA 92272	MAJ ALLSTON	(760) 830-7215	NO RECORDS INDICATING AN OE RESPONSE TO ANY VICTORVILLE BOMBING TARGETS
NAVEODTECHDIV TECHNICAL LIBRARY 2008 STUMP NECK ROAD INDIAN HEAD, MD 20640-5070	BETTY ARBOGHAST DAWN RISKO	(301) 743-6834	NAVY PUBLICATIONS
NAVAL CONSTRUCTION BN CENTER CODE 10H, NAVFAC HISTORIAN 10 23 <sup>RD</sup> AVE. PORT HUENEME, CA 93403	DR. VINCE TRANSANO CAROL WALSH	(805) 982-5913	NO RELEVANT INFORMATION
NAVAL CONSTRUCTION BN CENTER TECHNICAL INFO CENTER ATTN: CODE 72 1100 1023 <sup>RD</sup> AVENUE PORT HUENEME, CA 93043-4370	BRIAN THOMPSON	(805) 982-1124	NO RELEVANT INFORMATION
NAVAL CONSTRUCTION BN CENTER CIVIL ENGINEERING SUPPORT OFFICE, ATTN: CODE 15 1000 23 <sup>RD</sup> AVE. PORT HUENEME, CA 93043	MONA LEON-GUERRERO	(805) 982-3057	NO RELEVANT INFORMATION

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>National Archives and Records Administration</u>			
NARA-PACIFIC REGION (LAGUNA NIGUEL) 24000 AVILA RD LAGUNA NIGUEL, CA 92607	SUZANNE DEWBERRY	(714) 360-2641	SEE APPENDIX B, SECTION III, 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 III, PARTS A AND B
NATIONAL ARCHIVES ARCHIVES I (MODERN MILITARY) PENNSYLVANIA AVENUE & 7TH ST. WASHINGTON, DC 20408	STAFF	(202) 501-5385	SEE APPENDIX B, SECTION II, PARTS A AND B
NATIONAL ARCHIVES, SUITLAND BRANCH 4205 SUITLAND ROAD (CIVIL AND MILITARY) SUITLAND, MD 20408	STAFF	(301) 457-7190	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 I (OLD MILITARY) PENNSYLVANIA AVE. & 7TH WASHINGTON, DC 20408	STAFF	(202) 501-5390	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 ARCHIVES, ARCHIVES II (CARTOGRAPHIC/ARCHITECTURAL) 8601 ADELPHI RD COLLEGE PARK, MD 20740	STAFF	(301) 713-7040	SEE APPENDIX B, SECTION II, PARTS A AND B

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>National Archives and Records Administration (cont.)</u>			
NATIONAL ARCHIVES, ARCHIVES II (CIVIL REFERENCE BRANCH) 8601 ADELPHI RD COLLEGE PARK, MD 20740	STAFF	(301) 713-7250	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
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 (TEXTUAL BRANCH) 8601 ADELPHI ROAD COLLEGE PARK, MD 20740	STAFF	(301) 713-7250	SEE APPENDIX B, SECTION II, PARTS A AND B
NATIONAL PERSONNEL RECORDS CENTER 9700 PAGE AVE ST. LOUIS, MO 63132-5100	WILSON SULLIVAN	(314) 538-4085	SEE APPENDIX B, SECTION III, PARTS A AND B
<u>Library of Congress</u>			
LIBRARY OF CONGRESS GEOGRAPHY AND MAP DIVISION WASHINGTON, DC 20536	STAFF	(202) 707-5522	SEE APPENDIX B, SECTION II, PARTS A AND B
<u>Smithsonian Institution</u>			
SMITHSONIAN INSTITUTION HISTORICAL RESEARCH DIVISION WASHINGTON, DC 20560	STAFF	(202) 357-3133	SEE APPENDIX B, SECTION II, PARTS A AND B

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Department of Agriculture</u>			
USDA CONSOLIDATED FARM SERVICE AGENCY 44811 DATE AVENUE WEST LANCASTER, CA 93534	DOUG BRAND HOLLEEN	(805) 942-9549	AERIAL PHOTOS
USDA NATURAL RESOURCE CONSERVATION SERVICE 18484 HIGHWAY, SUITE 195 APPLE VALLEY, CA 92307	JACKIE LINDGREN RICK AGUAYO	(760) 242-2906	SOIL SURVEY INFORMATION AND AERIAL PHOTOS
USDA NATURAL RESOURCES CONSERVATION SERVICE P.O. BOX 788115 BLDG 1456, GRIFFIN ROAD TWENTY-NINE PALMS, CA 92278	JOHN RULE	(760) 830-7011	AERIAL PHOTOS AND MAPS
USDA, AERIAL PHOTOGRAPHY FIELD OFFICE P.O. BOX 30010 2222 WEST 2300 SOUTH SALT LAKE CITY, UT 84131-0010	SHERRIE HOLYOAK	(801) 975-3503	AERIAL PHOTOS AFTER 1956
<u>Department of Commerce</u>			
NOAA NATIONAL CLIMATIC DATA CENTER FEDERAL BUILDING ASHVILLE, NC 28801	YOLANDA GOOSCH SAM McCOWAN	(704) 271-4272	LOCAL CLIMATOLOGICAL DATA REPORTS
NOAA AIR FORCE WEATHER SERVICE 151 PATTON AVENUE, ROOM 120 ASHVILLE, NC 28801	JANET WALL	(704) 271-4404	LOCAL CLIMATOLOGICAL DATA REPORTS



REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Department of Interior</u>			
DEPARTMENT OF INTERIOR U.S. GEOLOGICAL SURVEY EROS DATA CENTER SIOUX FALLS, SD 57198	CUSTOMER SERVICE	(605) 594-6151	AERIAL PHOTOS
USGS DENVER FEDERAL CENTER P.O. BOX 25286 DENVER, CO 80225	ROGER COMPTON	(303) 202-4700	SOURCE OF TOPOGRAPHICAL MAPS
BUREAU OF LAND MANAGEMENT BARSTOW RESOURCE AREA 150 COOLWATER LANE BARSTOW, CA 92311	TIM REAB	(619) 255-8700	REAL ESTATE RECORDS
BUREAU OF LAND MANAGEMENT BARSTOW FIELD OFFICE BARSTOW, CA	JERRY BRONSON	(760) 252-6075	SEE INTERVIEW I-2
U.S. GEOLOGICAL SURVEY, (ESIC) BOX 25046, BLDG 810 DENVER FEDERAL CENTER DENVER, CO 80225	PAULA ERICKSON STEVE REITER	(303) 202-4200	ORTHOPHOTOQUADS
BUREAU OF LAND MANAGEMENT 6221 BOX SPRINGS BLVD RIVERSIDE, CA 92507	JOHN KEYES	(909) 697-5383	REFERENCES
U.S. FISH AND WILDLIFE SERVICE ECOLOGICAL SERVICES 2493 PORTOLA RD, SUITE B VENTURA, CA 93003	RAY BRANFIELD	(805) 644-1766	ENDANGERED/THREATENED SPECIES
<u>State</u>			
CALIFORNIA STATE ARCHIVES 1020 EAST O ST. SACRAMENTO, CA 92415	MR. METZER	(916) 653-2246	PROVIDED REFERRALS.

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>State</u>			
CALIFORNIA STATE HISTORIC PRESERVATION OFFICE SAN BERNARDINO ARCHAEOLOGICAL INFORMATION CENTER 2024 ORANGE TREE LANE REDLAND, CA 92374	ROBIN LASKA	(909) 792-1497	INFO ON HISTORICAL/CULTURAL RESOURCES
CALIFORNIA STATE LIBRARY CALIFORNIA HISTORY SECTION 914 CAPITOL HALL LIBRARY AND COURTS BLDG SACRAMENTO, CA 94237-0001	JOHN GONZALES SYBYLLE ZEMITIS	(916) 654-0176	NO RELEVANT INFORMATION
CALIFORNIA STATE LIBRARY GOVERNMENT DOCUMENTS SECTION 914 CAPITOL HALL LIBRARY AND COURTS BLDG SACRAMENTO, CA 94237-0001	BRENT MURPHY	(916) 654-0069	NO RELEVANT INFORMATION
CALIFORNIA STATE UNIVERSITY SAN BERNARDINO LIBRARY 5500 UNIVERSITY PARKWAY SAN BERNADINO, CA 92407	REFERENCE LIBRARIAN	(909) 880-5084	NO RELEVANT INFORMATION
STATE OF CALIFORNIA DEPARTMENT OF FISH AND GAME 1416 9 <sup>TH</sup> STREET SACRAMENTO, CA 95814	INTERNET	<a href="http://www.dfg.ca.gov/Endangered/endangered.html">http:// www.dfg.ca.gov/Endangered/endangered.html</a>	ENDANGERED SPECIES INFO
UNIVERSITY OF CALIFORNIA P.O. BOX 19557 IRVINE, CA 92110	REFERENCE DESK	(714) 824-6836	NO RELEVANT INFORMATION
UNIVERSITY OF CALIFORNIA GOVERNMENTS DOCUMENTS DEPT. P.O. BOX 19557 IRVINE, CA 92110	JEFF SCHNNEIDEWIND KAY COLLINS	(714) 824-7234	NO RELEVANT INFORMATION

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>State (cont.)</u>			
UNIVERSITY OF CALIFORNIA ARCHIVES P.O. BOX 19557 IRVINE, CA 92713	MARY ELLEN GODDARD	(714) 824-7193	NO RELEVANT INFORMATION
<u>Local</u>			
SAN BERNARDINO COUNTY ARCHIVES 777 EAST RIALTO AVE SAN BERNARDINO, CA 92415	JIM HOFFER	(909) 387-2030	NO RELEVANT INFORMATION
SAN BERNARDINO COUNTY ASSESSOR 172 WEST 3 <sup>RD</sup> ST SAN BERNARDINO, CA 92415	MAUREEN	(909) 387-8307	PLAT MAPS
SAN BERNARDINO COUNTY FLOOD CONTROL 825 EAST 3 <sup>RD</sup> ST SAN BERNARDINO, CA 92415	GARY DUNCAN	(909) 387-2529	AERIAL PHOTOS
SAN BERNARDINO COUNTY LIBRARY VICTORVILLE BRANCH 15011 CIRCLE DRIVE VICTORVILLE, CA 92392	MR. BOOKER	(619) 245-4222	NO RELEVANT INFORMATION
SAN BERNARDINO COUNTY LIBRARY LUCERNE VALLEY BRANCH 33103 OLD WOMAN SPRINGS RD LUCERNE VALLEY, CA 92356	REFERENCE DESK	(619) 248-7521	NO RELEVANT INFORMATION
SAN BERNARDINO COUNTY MUSEUM 2024 ORANGE TREE LANE REDLANDS, CA 92374	ROBIN LASKE NOELLA BENVENUTI PAMELA FROST	(909) 798-8570	REFERRALS.
SAN BERNARDINO COUNTY PLANNING 385 NORTH ARROWHEAD AVE SAN BERNARDINO, CA 92415	MARLA TAUB	(909) 387-4131	LAND USE AND HAZARD INFO

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>GOVERNMENT</u>			
<u>Local (cont.)</u>			
SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT BARSTOW STATION 225 E. MOUNTAINVIEW BARSTOW, CA 92311	SGT JECUSCO	(760) 256-4841	INFORMATION REFERRALS.
SAN BERNARDINO COUNTY SHERIFF AND BOMB SQUAD 655 EAST 3 <sup>RD</sup> ST SAN BERNARDINO, CA 92415	TOM ALSKY BILL MYERS BOB HALL	(909) 387-3598	INFORMATION SEE INTERVIEW I-1
SAN BERNARDINO PUBLIC LIBRARY 555 WEST 6 <sup>TH</sup> ST SAN BERNARDINO, CA 92415	CHRIS SHOVEY	(909) 381-8208	NO RELEVANT INFORMATION
<u>NON-GOVERNMENT</u>			
<u>National</u>			
COUNCIL ON AMERICA'S PAST 518 WHY WORRY LANE PHOENIX, AZ 85021	HELIOGRAM	(800) 396-4693	PUBLICATION
KNIGHT-RIDDER INFORMATION INC. 2440 EL CAMINO REAL MOUNTAIN VIEW, CA 94040	COMPUTER SEARCH (DIALOG)	(800) 334-2564	NO RELEVANT INFORMATION
NORTHERN ILLINOIS LIBRARY SYSTEM 4034 EAST STATE ST. ROCKFORD, IL 61108	COMPUTER SEARCH (NILS)	(815) 229-0330	NO RELEVANT INFORMATION
ONLINE COMPUTER LIBRARY CENTER 6565 FRANTZ ROAD DUBLIN, OH 43017-3395	COMPUTER SEARCH (OCLC)	(800) 848-5878	NO RELEVANT INFORMATION
SCIENTIFIC AND TECHNICAL INFORMATION LIBRARY SYSTEM 689 DISCOVERY DRIVE HUNTSVILLE, AL 35806	COMPUTER SEARCH (STILAS)	(205) 922-9820	NO RELEVANT INFORMATION

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>NON-GOVERNMENT</u>			
<u>National</u>			
COAST DEFENSE STUDY GROUP, INC. 731 BALTIMORE PIKE BEL AIR, MD 21014			PUBLICATION - NO SITE SPECIFIC INFORMATION
WORLD WAR II SITES IN THE U.S.	RICHARD OSBORNE AUTHOR		GENERAL INFORMATION ON FORMER VICTORVILLE AAF
<u>Local</u>			
EDWARD LASKA 19446 CORWIN RD APPLE VALLEY, CA 92307	EDWARD LASKA	(619) 242-5746	STATIONED AT VICTORVILLE
GLENN BROOKS 3109 N. GLENVALLEY DR MIDWEST CITY, OK 73110	GLENN BROOKS	(405) 732-8877	INFORMATION SEE INTERVIEW I-5
OWEN COOPER 40 OAK SHADOWS CT BALTIMORE, MD 21228	OWEN COOPER	(410) 747-5991	INFORMATION SEE INTERVIEW I-6
ARDA HAENSZAL 809 STANDISH WAY REDLANDS, CA 92373	ARDA HAENSZAL	(909) 798-0550	LOCAL HISTORIAN
CALIFORNIA HISTORICAL SOCIETY 678 MISSION STREET SAN FRANCISCO, CA 94105	BETH GRAHAM	(415) 357-1848	NO RELEVANT INFORMATION
JOHN DARR CHEYENNE, WY	JOHN DARR	(307) 635-2924	NO RELEVANT INFORMATION
JOHN LYNCH 518 WHY WORRY LANE PHOENIX, AZ 85021	JOHN LYNCH	(602) 249-3974	NO RELEVANT INFORMATION

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support

Organization	Name	Telephone	Nature of Support
<u>NON-GOVERNMENT</u>			
<u>Local (cont.)</u>			
SAN BERNARDINO VISITOR AND CONVENTION BUREAU 201 NORTH E. STREET SAN BERNARDINO, CA 93063	CHRISTINE	(909) 889-8937	GENERAL INFO OF THE AREA
STATE HISTORICAL SOCIETY OF WISCONSIN LIBRARY 816 STATE STREET MADISON, WI 53706	STAFF	(608) 264-6534	INFORMATION OLD NEWSPAPERS
THE ARMY AIR FORCES IN WORLD WAR II - VOLUME SIX MEN AND PLANES	WESLEY FRANK CRAVEN JAMES LEA CATE		PUBLICATION-INFO ON BOMBARDIER TRAINING
VICTORVILLE CHAMBER OF COMMERCE 14174 GREENTREE BOULEVARD VICTORVILLE, CA 92392	SALLY MARTINEZ	(760) 245-6506	GENERAL INFO OF THE AREA
VICTORVILLE MUSEUM 11873 APPLE VALLEY RD APPLE VALLEY, CA 92307	WALTER DAY WAYNE FOWLIE	(619) 240-2111	NO RELEVANT INFORMATION
MOJAVE HISTORICAL SOCIETY P.O. BOX 68 VICTORVILLE, CA 92392			PROVIDED REFERRALS

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA069001

APPENDIX B

REFERENCES AND ABSTRACTS

APPENDIX B

REFERENCES AND ABSTRACTS

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	PART A POSITIVE FINDINGS
	PART B NEGATIVE FINDINGS



## APPENDIX B

### SECTION I: BIBLIOGRAPHY

B-1 Army Regulation (AR) 200-1, Environmental Quality, Environmental Protection and Enhancement, DA, 23 April 1990

B-2 Management Plan for ORDNANCE AND EXPLOSIVES (OEW) Mandatory Center of Expertise (MCX) and Design Center, CEHND 1105-3-9, U.S. Army Corps of Engineers, Huntsville Division, dated 10 August 1992.

B-3 Site Safety Plan for OEW Investigations, U.S. Army Corps of Engineers, Rock Island District, dated 25 June 92, W/ Appendix A-209.

B-4 NAVSEA OP 1664 Volume 1, U.S. Explosive Ordnance, U.S. Navy Bureau of Ordnance, 28 May 1947. (D-1 & Table 8-1)

B-5 Inventory Project Report, DERP FUDS, OEW Site No. J09CA069001, dated May 1996. (E-1 through E-3)

B-6 Letter, U.S. Department of the Interior, Fish and Wildlife Service, Ventura Fish and Wildlife Office to the Defense Ammunition Center, 19 December 1997, Subject: Species List for the former Victorville Precision Bombing Range, San Bernardino County, California. (F-1)

B-7 Letter, California Archaeological Inventory, Archaeological Information Center, San Bernardino County Museum to the Defense Ammunition Center, 11 November 1997, Subject: Cultural Resources at Victorville Precision Bombing Ranges. (F-2)

B-8 Letter, United States Engineer Office, Los Angeles, California, 4 April 1942, NPRC, ST. Louis, MO. (F-3)

B-9 Document, History of Victorville Army Air Field, Victorville, California, dated 1 November-31 December 1944, AFHRA, Maxwell AFB, AL. (F-4)

B-10 Letter, Corps of Engineers, Air Installation Office March Field, Riverside, California, dated 25 October 1947, NARA Archives II. (F-5)

B-11 Document, Department of the Army, Office of the Deputy Director of Service, Supply and Procurement, Washington D.C., Declaration of Excess, 14 January 1948, NARA, Pacific Region Laguna Niguel, CA. Record Group 77. (F-6)

B-12 Document, Department of the Army, Office of the Chief of Engineers, 9200th TSU-CE, Detachment #15, Bomb and Shell Disposal Team, Dedudding Report for Victorville PBRs # 2, 4, 5, & 18, 17 June 1948, AFHRA, Maxwell AFB, AL. (F-7)

B-13 Document, Corps of Engineers, Assistant Chief of Engineers for Real Estate, 1 November 1948, NARA, Pacific Region Laguna Niguel, CA. (F-8)

B-14 Letter, South Pacific Division Historical File Summary for Victorville Precision Bombing Range No. 5, Victorville, California, March 1954. (F-9)

B-15 Aerial photographs of Victorville PBR #5, dated 16 June 1989. (K-1 and K-2)

B-16 Maps, Historical Record of Victorville Army Air Field, dated 1 January to 1 March 1944, AFHRA, Maxwell AFB, AL. (L-1 and L-2)

SECTION II  
NATIONAL CAPITAL REGION ARCHIVES FINDINGS  
PART A  
POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 5, CA

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

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WASHINGTON, DC***

Microfilm Collection

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

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WASHINGTON, DC***

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Vol. XII (T-Z)  
Victorville, CA

***NARA - ARCHIVES II-TEXTUAL BRANCH  
COLLEGE PARK, MD***

RG 18 (Records of the Army Air Corps)

Entry 1: Security Classified File, 1944 - 1948  
Box 288  
Correspondence Relative to Proposed Additional Facilities Construction,  
Victorville Army Airfield, 7 November - 13 December 1944

Entry 1: Security Classified File, 1944 - 1948  
Box 289  
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VICTORVILLE PRECISION BOMBING RANGE NO. 5, CA

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

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WASHINGTON, DC***

Historical Data Cards  
Posts, Camps, and Stations File

***LIBRARY OF CONGRESS - GEOGRAPHY AND MAP DIVISION  
WASHINGTON, DC***

US Department of the Interior, Geological Surveys

***LIBRARY OF CONGRESS - STILL PHOTOS DIVISION  
WASHINGTON, DC***

Divisional Catalogs  
Geographic Catalogs  
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Stereographic Catalogs  
Subject Catalogs  
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***NARA - ARCHIVES I  
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Entry: Land Entry Papers

RG 69 (Records of the Works Progress Administration)  
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RG 77 (Records of the Office of the Chief of Engineers)  
Entry 391: Construction Completion Reports, 1917 - 1943  
Entry 393: "Historical Record of Buildings" and "Record of Equipment and Condition of Buildings" at Active Army Posts, 1905 - 1942

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

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Entry 110: Office, Administrative Assistant to the Secretary of War, Decimal File, February 1946 - June 1947

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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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Entry 213: Office, Assistant Secretary of War for Air, Robert A. Lovett, Decimal File, 1940 - 1946

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Entry 25: Army Field Forces, Headquarters, General Staff, G-3 Operations Group, Organization and Equipment Division, General Decimal File, 1943 - 1948

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***NARA - ARCHIVES II - CARTOGRAPHIC BRANCH  
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RG 18 (Records of the Army Air Corps)

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RG 18 (Records of the Army Air Corps)

RG 30 (Records of the Bureau of Public Roads)

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

RG 92 (Records of the Office of the Quartermaster General)

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RG 165 (Records of the War Department General and Special Staffs)

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WASHINGTON, DC***

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***WASHINGTON NATIONAL RECORDS CENTER  
SUITLAND, MD***

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

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SAN BRUNO, CA**

RG 121, Records of the Public Building Service  
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Box #46  
Memo, Subj: Short Form Appraisal, 3 February 1947

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RG 18, Records of the Army Air Forces  
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Memo, Subj: Victorville Army Flying School, Victorville,  
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Accession #342-47A4227

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

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

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

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

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

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

**LAGUNA NIGUEL, CA**

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

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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 Surplus Facilities, Pacific Division No. 4197-3, 10 Jul 1946

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

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Memo, Subj: Excess - Bombing Targets, Victorville,  
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Warning Notice, Declaring Bombing Target 5 as Surplus  
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Memo, Subj: Reclassification of Victorville Bombing Ranges,  
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Warning Notice, Declaring Bombing Target 5 as Reestablished,  
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Memo, Subj: Transfer of Surplus Facilities, Pacific Div, No.  
4197-3 (Victorville AAF), 11 Aug 1947

Military Acquisition Project Report, Victorville PBR #5,  
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Memo, Subj: Final Audit of Land Records re: Victorville  
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Memo, Subj: Declaration Of Excess - Victorville Bombing  
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Warning Notice, Declaring Bombing Target 5 as Surplus  
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Memo, From Chief of Engineers to BLM, Re: Public Land Order  
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Real Property Management and Disposal Report, Victorville  
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Location Map, Victorville Bombing Targets, 27 Nov 1944

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

RG 30, Records of the Bureau of Public Roads  
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RG 49, Records of the Bureau of Land Management  
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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  
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RG 156, Records of the Chief of Ordnance  
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RG 219, Records of the Office of Defense Transportation  
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RG 269, General Records of the General Services Administration  
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RG 336, Records of the Office of the Chief of Transportation  
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RG 338, Records of U.S. Army Commands  
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RG 342, Records of U.S. Air Force Commands, Activities, and  
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***NARA, NATIONAL PERSONNEL RECORDS CENTER  
ST LOUIS, MO***

RG 342, Records of U.S. Air Force Commands, Activities, and  
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Accession #342-54A4118  
Box #06-38-18-1-1  
Nothing of Value to This ASR Found

Accession #342-46A4076  
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Nothing of Value to This ASR Found

Accession #342-50A4042  
Box #06-38-18-1-3, 2 Boxes  
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***NARA, PACIFIC REGION (SAN FRANCISCO)  
SAN BRUNO, CA***

RG 18, Records of the Army Air Forces  
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RG 30, Records of the Bureau of Public Roads  
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RG 112, Records of the Surgeon General (Army)  
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RG 121, Records of the Public Buildings Service  
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Boxes #1 and 9  
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RG 270, Records of the War Assets Administration  
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RG 291, Records of the Federal Property Resources Service  
Accession #9NSS-291-93-002  
Box #19  
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RG 338, Records of U.S. Army Commands  
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ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX C

GLOSSARY

## APPENDIX C

### GLOSSARY

AA	Anti Aircraft
AR	Army Regulation
BD	Base Detonating
BD/DR	Building Demolition/Debris Removal
BLM	Bureau of Land Management
CEG	Civil Engineering Group
CEHND	U.S. Army Engineer, Huntsville Division
CEMVR	U.S. Army Engineer, Rock Island District
CERCLA	Comprehensive Environmental Response, and Liability Act
CESPL	Corps of Engineers, Los Angeles District
CWM	Chemical Warfare Material
CWO	Chief Warrant Officer
DA	Department of Army
DAC	Defense Ammunition Center
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
FDE	Findings and Determination of Eligibility
FNH	Flashless-nonhygroscopic
FS	Feasibility Study
FUDS	Formerly Used Defense Site(s)
GSA	General Services Administration
HTRW	Hazardous, Toxic and Radiological Waste
INPR	Inventory Project Report
IRP	Installation Restoration Program
M	Model Number
MM or mm	Millimeter
NARA	National Archives Records Administration
NAS	Naval Air Station
NC	Nitrocellulose
NH	Nonhygroscopic
NPS	National Parks Service
OE	Ordnance and Explosive
PA	Preliminary Assessment
PN	Project Number
PPM	Parts Per Million



PRP	Privately Responsible Party
RA	Remedial Action
RAC	Risk Assessment Code
RD	Remedial Design
RD/RA	Remedial Design/Remedial Action
RG	Record Group
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
R/P	Rocket Projectile
SARA	Superfund Amendments and Reauthorization Act
SCAR	Sub-caliber Aerial Rocket
SI	Site Investigation or Site Inspection
TCRA	Time Critical Removal Action
TM	Technical Manual
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USACERL	U.S. Army Construction Engineering Research Laboratory
USATCES	U.S. Army Technical Center for Explosives Safety
UXO	Unexploded Ordnance
WD	War Department

ORDNANCE AND EXPLOSIVE  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA069001

APPENDIX D

TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

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D-1. Practice Bomb, dated 28 May 1947 (B-4).

## ARMY PRACTICE BOMBS

## 100-pound M38A2

Over-all length, inches.....	47.5
Diameter, inches.....	8.18
Weight, empty, pounds.....	15.7
Weight, sand-loaded and spotting charge, pounds.....	100

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

## Spotting Charges (Army)

## M1A1

Over-all length, inches.....	11.18
Diameter, inches.....	3.43
Weight, pounds.....	4.25
Black-powder charge, pounds.....	3.0
Bomb used in.....	M38A2
Fuze.....	Integral inertia-type

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

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

M3: The Spotting charge M3 has a 2 $\frac{1}{4}$ -pound dark smoke filling and a black-powder igniter. It is  $\frac{5}{8}$  inch longer than the Spotting Charge M1A1, but otherwise is like it. The M3, with

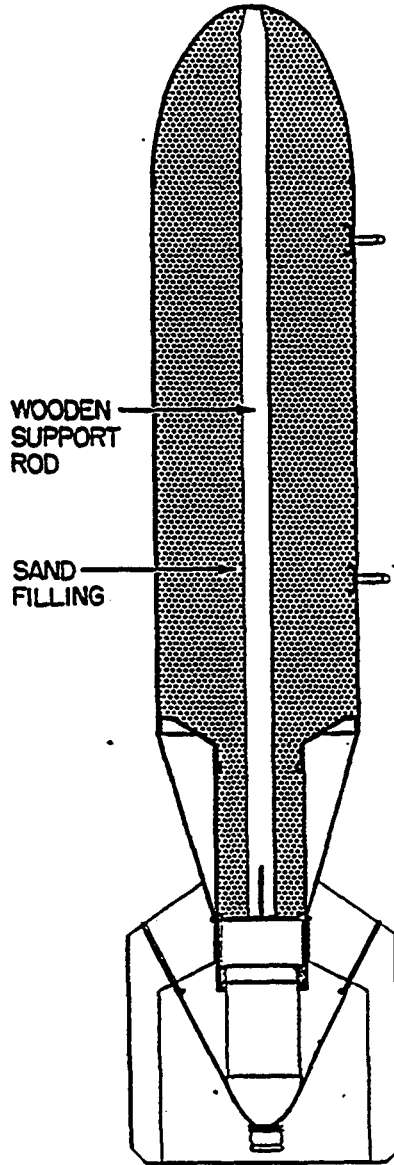


Figure 314. 100-pound Practice Bomb M38A2

its dark smoke filler, is well adapted for bombing practice over snow-covered terrain. The black-powder igniter charge contains approximately 425 grains. It is used in the Practice Bomb M38A2.

<b>M5</b>	
Over-all length, inches.....	7.37
Diameter, inches.....	2.95

Material .....	Glass
FS filler, fluid ounces.....	14.4

The Spotting Charge M5 consists of a glass bottle filled with FS smoke mixture. An ordinary bottle cap seals the mixture. The bottle is held to the Practice Bomb M38A2 by a wire twisted around the neck of the bottle and attached to the tail vanes. The charge assembly weighs 2.54 pounds.

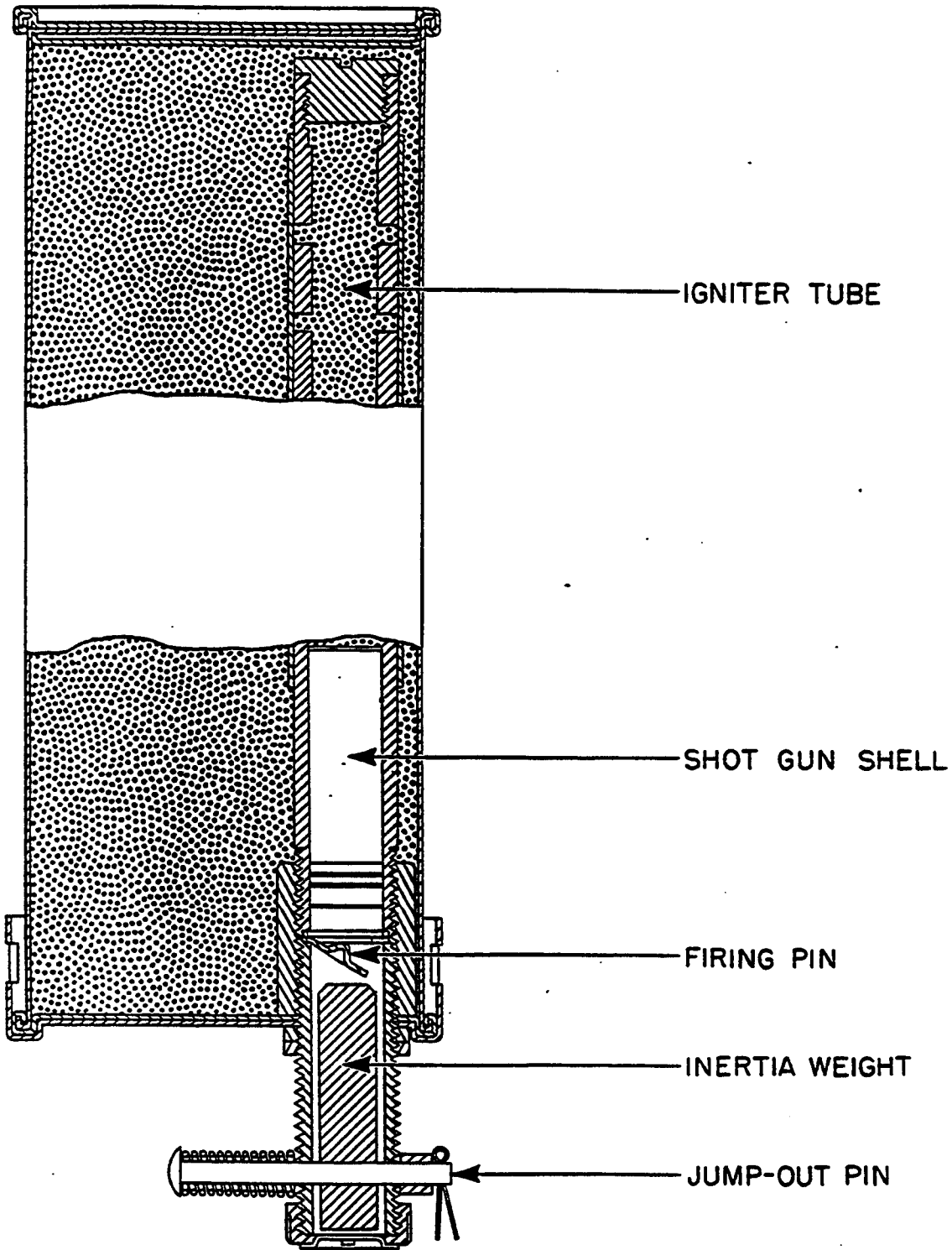


Figure 315. Spotting Charge M1A1

**CONFIDENTIAL**

D-1

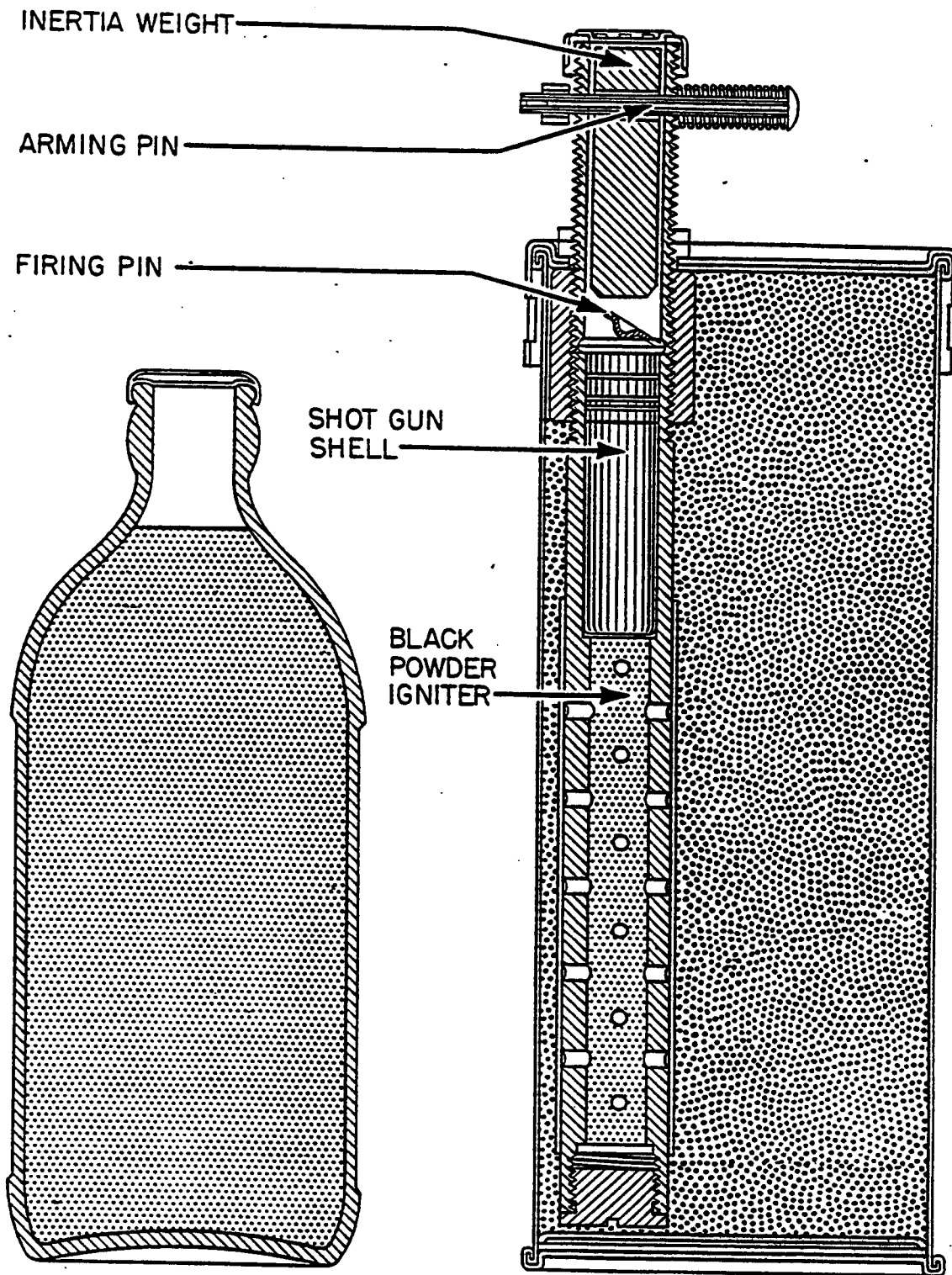


Figure 316. Spotting Charges M3 (right) and M5 (left)

~~CONFIDENTIAL~~

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX E

REPORTS/STUDIES



APPENDIX E

REPORTS AND STUDIES

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E-1 Site Survey Summary Sheet, DERP FUDS, OEW Site No.  
J09CA069000, 1991. (B-5)

E-2 Findings and Determination of Eligibility, DERP FUDS,  
OEW Site No. J09CA069000, 1991. (B-5)

E-3 Project Summary Sheet, DERP FUDS, OEW Project No.  
J09CA069000, 1996. (B-5)

SITE SURVEY SUMMARY  
FOR  
DERP PROJECT NO. J09CA069000

SITE NAME: Formerly Victorville Precision Bombing Range (PBR) No. 5.

LOCATION: The former Victorville PBR No. 5 is located approximately 10 miles north of Lucerne Valley, California.

SITE HISTORY: The site originally consisted of 691.96 acres. In May 1943, 691.96 acres were transferred from the U.S. Department of the Interior to the War Department through Public Land Order (PLO) 125. The site was used by the Army Air Forces based at Victorville Airfield as a practice bombing area. In November, 1948, PER No. 5 was transferred back to the U.S. Department of the Interior; this transfer of land became official in March 1954 through PLO 949. Currently, most of the site is controlled by the U.S. Department of the Interior, Bureau of Land Management, however, forty six, two and one-half acre parcels are owned by private landowners. The only DOD improvements still on the site are the weathered remains of the asphalt bombing target. Non-DOD structures on the site are the frame of a small house and an abandoned water well. There is no visible evidence of unsafe debris, hazardous or toxic waste, or unexploded ordnance resulting from DOD use of the site. However, there are the fragments from exploded ordnance dropped on the bombing target scattered throughout the site. The fragments are spaced approximately 20-25 feet apart within the 300 foot bombing target and approximately 50-75 feet apart throughout the remainder of the site. San Bernardino County Environmental Health and Fire Department, the California Regional Water Quality Control Board No. 6 and the George Air Force Base EOD Office records do not indicate any hazards associated with the site.

SITE VISIT: Dennis Parker and Paul Robinson, The Earth Technology Corporation visited the site on 22 November, 1988.

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

PROJECT DESCRIPTION: None

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

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

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FOR FORMERLY USED SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY  
VICTORVILLE PRECISION BOMBING RANGE NO. 5  
SAN BERNARDINO COUNTY, CALIFORNIA  
PROJECT NO. J09CA069000

FINDINGS OF FACT

1. In May 1943, 691.96 acres were transferred from the U.S. Department of the Interior to the War Department through Public Land Order 125.
2. Victorville PBR No. 5 was used by the Army Air Forces based at Victorville Airfield as a practice bombing area. There were no buildings on the site. The Department of Defense (DOD) improvements on the site consisted of frame butts and appurtenances, fences and gates, and a bombing target. The bombing target, located at the center of the site, was composed of asphalt strips approximately 5 feet wide configured as three concentric circles with approximate radii of 100, 200, and 300 feet. In addition, there were two strips of asphalt which transected the concentric circles at right angles to each other.
3. Victorville PBR No. 5 was informally returned to the U.S. Department of the Interior in November 1948 by a Letter of Transfer. The Letter of Transfer declared the bombing target to have been dedudded and certified to be free and clear of explosives or explosive objects reasonably possible to detect by visual inspection. All removable improvements, e.g. fences and gates, were removed. The transfer of land from the DOD to the Department of the Interior became official in March 1954, by Public Land Order 948. Currently, most of the site is controlled by the U.S. Department of the Interior, Bureau of Land Management, however, forty-six, two and one-half acre parcels are owned by private landowners.

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.

25 July 91

Date

*R. F. Yankoupe*  
for ROGER F. YANKOUBE  
Brigadier General, U.S. Army  
Commanding

PROJECT SUMMARY SHEET

FOR

DERP-FUDS OE PROJECT NO. J09CA069000  
VICTORVILLE PRECISION BOMB RANGE NO. 5  
SAN BERNARDINO COUNTY, CALIFORNIA  
SITE NO. J09CA069000

PROJECT DESCRIPTION: The Victorville Precision Bombing Range (PBR) No. 5 was used by the U.S. Army Air Corps as a practice bombing target for aircraft from the Victorville Army Air Field (now George AFB).

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

POLICY CONSIDERATIONS: N/A

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

RAC: Attached

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

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX F

LETTERS/MEMORANDUMS/CORRESPONDENCE

## APPENDIX F

### LETTERS/MEMORANDUMS/CORRESPONDENCE

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F-1 Letter, Subject: Species List for former Victorville Precision Bombing Range. (B-6)

F-2 Letter, Subject: Archaeological Information Center for Precision Bombing Ranges. (B-7)

F-3 Letter, Subject: Bombing Targets- Notice of Completion and Release to Air Corps, dated 1942. (B-8)

F-4 Excerpt from History of Victorville Army Air Field Victorville, California, dated 1944. (B-9)

F-5 Letter, Subject: Certifying Precision Bombing Ranges 2, 4, 5, and 18 is free of unexploded ordnance, dated 1947. (B-10)

F-6 Document, Subject: Declaration of Excess Victorville Bombing Targets, dated 1948. (B-11)

F-7 Document, Subject: Dedudding Report for Victorville Precision Bombing Ranges # 2, 4, 5, and 18, dated 1948. (B-12)

F-8 Document, requesting action to be taken to cancel Public Land Order 125 on bombing targets 1, 5, 10, 11, 12, 13, 14, and 18, dated 1948. (B-13)

F-9 Letter, transferring 691.96 acres to the Department of Interior, dated 1954. (B-14)



# 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<sup>1/</sup>. 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

---

<sup>1/</sup> "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.

CALIFORNIA  
ARCHAEOLOGICAL  
INVENTORY



ARCHAEOLOGICAL INFORMATION CENTER  
San Bernardino County Museum  
2024 Orange Tree Lane  
Redlands, California 92374  
(909) 792-1497  
(909) 798-8585 - FAX

11 November 1997

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

Dear Mr. Dauphin,

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

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

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

2) PBR #3 USGS Fairview Valley 7.5' Quad

There are two lithic reduction sites in T6N R2W Sec 27, 28, 33, 34 designated SBR-2132 & SBR-2135. There are no reports recorded within the project area.

3) PBR #4 USGS Apple Valley South & Fifteenmile Valley 7.5' Quads

There are no recorded sites in T4N R2W Sec 5, 6, 7, 8. Two reports, 1060629 & 1062515, are inside the APE and four reports, 1060240, 1060900, 1060901 & 1062158, skirt the SE corner of Sec 8.

4) PBR #5 USGS West Ord Mtn 7.5' Quad (APE is not on USGS Stoddard Well)

There are no sites and no survey reports for T6N R1W Sec 4.

5) PBR #6 USGS Lucerne Valley & White Horse Mtn 7.5' Quads

There are no sites recorded For T5N R1W Sec 22, 23, 26, 27. One pipeline report, 1060046, passes through the APE.

6) PBR #9 USGS Fry Mtn & Grandview Mine 7.5' Quads

There are no sites and no surveys recorded for T5N R2E Sec 2, 3 & T6N R2E Sec 34, 35.

7) PBR #10 USGS Old Woman Springs 7.5' Quad

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

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

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

*File  
copy*

**0-3**

**April 4, 1942.**

**SUBJECT: Victorville Army Flying School, Victorville, California -  
Contract W-509-Eng. 2196 - Bombing Targets - Notice of  
Completion and Release to Air Corps.**

**TO: The Commanding Officer,  
Victorville Army Flying School,  
Victorville, California.**

1. Confirming letters, dated March 28, 31 and 30, 1942, from the Area Engineer, you are informed that Bombing Targets Nos. 4, 5, 6 and 8, constructed under the above-numbered contract have been completed and are hereby released to you for use and maintenance.

2. It is requested that formal acceptance of the above-mentioned Bombing Targets Nos. 4, 5, 6, and 8 be submitted to this office in writing.

**Edwin C. Kalton,  
Colonel, Corps of Engineers,  
District Engineer.**

0-3

1st Ind.

ALR:PH

Headquarters, VAFS, Army Air Base, Victorville, California, 9 April 1942.  
To: The District Engineer, U. S. Engineer Office, 751 South Figueroa Street, Los Angeles, California.

1. Hereby accepting Bombing Targets Nos. 4, 5, 6 and 8.

For the Commanding Officer:

**THOMAS J. GENT, JR.  
Major, Air Force  
Executive**

**F-3**

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% .                       | <u>56</u>          |                    |
| 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 LR                     | 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 1944.
57. Certificate of Expenditure, Bombs, Ordnance Office Credit Voucher 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.

DECLASSIFIED  
Authority W 08 03029  
By KM NARA Date 7/11/97

REPRODUCED AT THE NATIONAL ARCHIVES

~~RESTRICTED~~

APPROVED  
FOR RELEASE

R E S T R I C T E D

C E R T I F I C A T E

25 October 1947

I certify that I have examined the impact areas at Victorville Bombing Targets numbered 2, 4, 5 and 18 for duds and other unexploded ammunition and found none. There is no evidence of any, other than the practice bomb (100 lb - M 38 A 2) having been dropped on these targets. The resulting scrap from the practice bombs (100 lb - M 38 A 2) has not been removed from the impact areas.

T. L. PFLEUGER  
Captain, Corps of Engineers  
Air Installations Office  
March Field, Riverside, California

F-5

R E S T R I C T E D

C  
O  
P

**SUBJECT:** Declaration of Excess - Victorville Bombing Targets, California  
(Nos. 2, 4, 5 and 18).

GSGSP/32 1249

4th Ind.

WGW:jg

DEPT OF THE ARMY, GENERAL STAFF, US ARMY, SSP WASHINGTON 25, D. C.

To: The Chief of Engineers, Washington 25, D. C.

14 JAN 1948

Effective 12 January 1948, the Department of the Army places Bombing Target Sites Nos. 2, 4, 5, and 18, located between Victorville and Deadman Lake in San Bernardino County, California, in the category of surplus for disposition in accordance with applicable laws, directives, and regulations.

BY ORDER OF THE SECRETARY OF THE ARMY:

/s/ F. M. Smith  
Col. GSC  
Deputy Director of Service,  
Supply and Procurement

2 Incls n/c

F-6

COPY

COPY

DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF ENGINEERS  
9200th TSU-CE, DETACHMENT #15  
BOMB AND SHELL DISPOSAL TEAM

June 17, 1948

All lands within the practice bombing ranges (Satellite to Victorville Army Airfield, California) in the Lucerne Valley, designated targets #2, #4, #5, #18, have been given a careful visual inspection and have been cleared of all dangerous and/or explosive materials. To the best of my knowledge and belief these areas will not require additional dedudding to render safe for public use. (Reference Map, Victorville Army Bombing Ranges)

/s/ JESSE F. DOHOVAN  
CAPT. CE  
COMDG.

F-7



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

EE/IC

HO'N

802 Victorville Precision Bombing Range,  
California. ENGLT

LBK

EJF

1 November 1948

GFM

Director,  
Bureau of Land Management,  
Department of the Interior,  
Washington, D. C.

Dear Sir,

Reference is made to Public Land Order No. 125, dated 27 May 1943, authorizing the use by this Department of certain public lands in the State of California for bombing targets for use in connection with Victorville Airfield, California.

Bombing targets 1, 5, 10, 11, 12, 13, 14 and 18, covered by Public Land Order 125, are no longer required by this Department and it is recommended that action be taken to cancel Public Land Order 125 insofar as applicable to these bombing targets. The lands used for the bombing targets are more particularly described in the inclosed Exhibit A.

Bombing targets 16, 20, Y & Z, also described in Exhibit A, are no longer required by this Department, and the use of these lands is hereby relinquished. These targets were apparently used by this Department under informal arrangements with your Department since no records of a permit or Public Land Order can be located.

All of the aforementioned bombing targets have been dedudded and have been certified to be free and clear of explosives or explosive objects reasonable possible to detect by visual inspection. Copies of the dedudding certificates are inclosed and designated as Exhibits F, G, H, and I.

Government improvements placed on the property consisted of concentric rings of light oil penetration, frame butts, and appurtenances, fences and gates. All removable improvements have been removed. The light oil rings will be obliterated by weather action and no restoration work is deemed necessary by this Department.

Your cooperation in making these lands available is appreciated.

FOR THE CHIEF OF ENGINEERS:

Sincerely yours,

I Inclosure;  
Exhibits A thru J

W. H. HASTINGS  
Colonel, Corps of Engineers  
Assistant Chief of Engineers for Real Estate

RESERVATION NAME:

1873

Victorville Precision Bombing Range No. 5, California

OFFICIALLY DESIGNATED BY:

LOCATION:

In San Bernardino County, 18 Miles South of The Town of Barstow,  
California

TYPE:

Auxiliary to Victorville AAF

LAND OWNERSHIP AND COST DATA

ACQUISITION ACTIONS:

Exhibit "A"

DISPOSAL ACTIONS

NET AREA:

691.96 Acres, Transferred from Dept. of Interior,  
Total Area Acquired

691.96 Acres, Relinquished to Dept. of Interior  
0.00 Acres 1 November 1948

GROSS COST:

\* P.L.O. No. 125,  
Dated 5/20/43

JURISDICTION:

RELOCATIONS:

FINAL PROJECT MAP:

See Final Audited Map File,  
And Exhibit "B"

MISCELLANEOUS PAPERS:

Exhibit "E"

REMARKS:

\* P.L.O. No. 125 revoked by P.L.O. No. 948 dated 3/29/54

691.96 acres by P.L.O. No. 125 retransferred to Department of Interior by

DO NOT REMOVE OR ADD PAPERS TO THIS FILE P. L. O. No. 948 dated  
29 March 1954.

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX G

REAL ESTATE DOCUMENTS

NOT USED

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX H

NEWSPAPERS/JOURNALS

NOT USED

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

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- I-2 Interview with 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 Glen Brooks
- I-6 Interview with Owen Cooper

<b>CONVERSATION RECORD</b>	<b>TIME</b> 0930 PST	<b>DATE</b> 22 January 1998
----------------------------	-------------------------	--------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE  
 INCOMING  
 OUTGOING

<b>NAME OF PERSON CONTACT WITH</b> Bill Myers Bob Hall	<b>ORGANIZATION</b> San Bernardino Sheriff's Department	<b>TELEPHONE NO.</b> (909) 387-3598
--------------------------------------------------------------	------------------------------------------------------------------	----------------------------------------

**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 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 of the munitions recovered have been moved a number of times before they are notified, so there is no way of determining the original 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**

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

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

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



<b>CONVERSATION RECORD</b>	<b>TIME</b> 0930	<b>DATE</b> Wed 28 Jan 1998
----------------------------	---------------------	--------------------------------

TYPE

VISIT                       CONFERENCE

TELEPHONE  
INCOMING  
OUTGOING

NAME OF PERSON CONTACT WITH CPT Grimes, 1SG Fortney SFC Woods	ORGANIZATION 759 <sup>th</sup> 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 759<sup>th</sup> 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 <i>Christopher J. Churney</i>	TITLE Chem Engineer	DATE 28 Jan 1998

<b>CONVERSATION RECORD</b>	<b>TIME</b> 0845	<b>DATE</b> Thur 29 Jan 1998
----------------------------	---------------------	---------------------------------

TYPE

VISIT                       CONFERENCE

TELEPHONE  
 INCOMING  
 OUTGOING

<b>NAME OF PERSON CONTACT WITH</b> MSGT Hepner TSGT Glinka	<b>ORGANIZATION</b> 95 <sup>th</sup> CEG/CED Edwards AFB, CA	<b>TELEPHONE NO.</b> (805)277-2162
------------------------------------------------------------------	--------------------------------------------------------------------	---------------------------------------

**SUBJECT**  
Victorville Precision Bomb Targets

**SUMMARY**

MSGT Hepner and TSGT Glinka have been with the 95<sup>th</sup> 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**

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

<b>CONVERSATION RECORD</b>	<b>TIME</b> 11:00 AM	<b>DATE</b> 2 March 1998
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TYPE		
<input type="checkbox"/> VISIT	<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE
		<input type="checkbox"/> INCOMING
		<input checked="" type="checkbox"/> 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>Rd Plante</i>	TITLE QASAS	DATE 2 March 1998

<b>CONVERSATION RECORD</b>		<b>TIME</b> 1:00 PM	<b>DATE</b> 4 March 1998
<b>TYPE</b>			
<input type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	
		<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
<b>NAME OF PERSON CONTACTED</b> Owen Cooper	<b>ORGANIZATION</b> Former Bombardier Cadet	<b>TELEPHONE NO.</b> (410) 747-5991	
<b>SUBJECT</b> 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 91<sup>st</sup> Bomb Group.

<b>ACTION REQUIRED</b> None		
<b>NAME OF PERSON DOCUMENTING CONVERSATION</b> Ronald Plante	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 782-1481
<b>SIGNATURE</b> <i>Ronald Plante</i>	<b>TITLE</b> QASAS	<b>DATE</b> 4 March 1998

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA069001

APPENDIX J

PRESENT SITE PHOTOGRAPHS

APPENDIX J

PRESENT SITE PHOTOGRAPHS

TABLE OF CONTENTS

- J-1 View of the former PBR No. 5, facing north
- J-2 View of the former PBR No. 5, facing south
- J-3 View looking east, showing remnant of Target Ring
- J-4 View looking east, showing the center of the Target Ring
- J-5 Remnant of M38A2 100-lb practice bomb, Area A
- J-6 Fragments of a 100-lb practice bomb, Area A
- J-7 View looking north, privately owned trailer near Target Ring



J-1 View of the former PBR NO. 5, facing north



J-2 View of the former PBR NO. 5, facing south





J-3 View looking east, showing remnant of Target Ring



J-4 View looking east, showing the center of the Target Ring





J-5 Remnant of M38A2 100 lb practice bomb



J-6 Fragments of a 100 lb practice bomb





J-7 View looking north, privately owned trailer near Target Rings

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX K

HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

TABLE OF CONTENTS

K-1 Aerial photograph of Victorville PBR #5, dated  
7/16/89. (B-15)

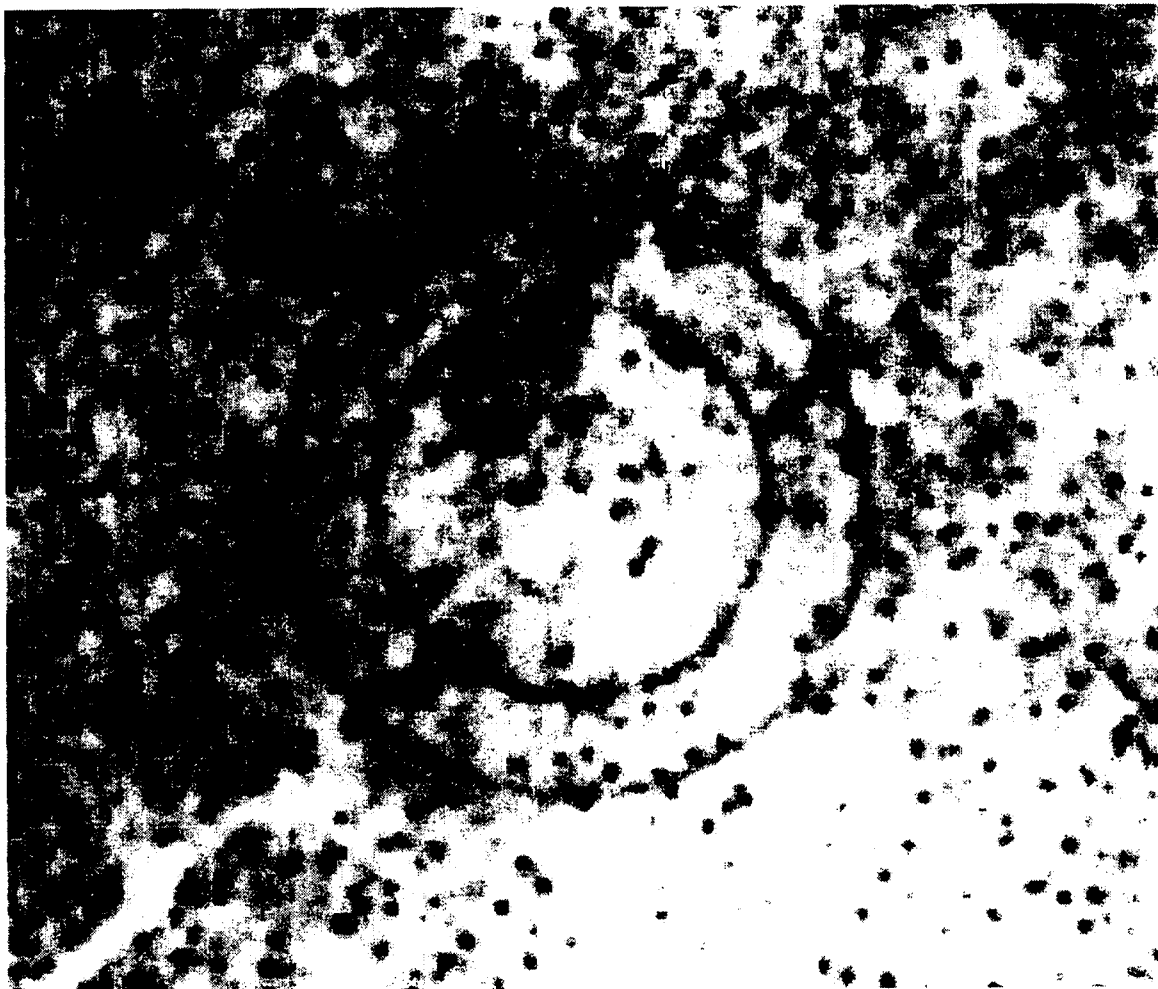
K-2 Computer enhancement of the aerial photograph of  
Victorville PBR #5, dated 7/16/89. (B-15)

Precision Bombing Range (PBR) NO. 5



K-1

Computer enhancement of Target Box in document K-1



K-2

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX L

HISTORICAL MAPS/DRAWINGS

APPENDIX L

HISTORICAL MAPS/DRAWINGS

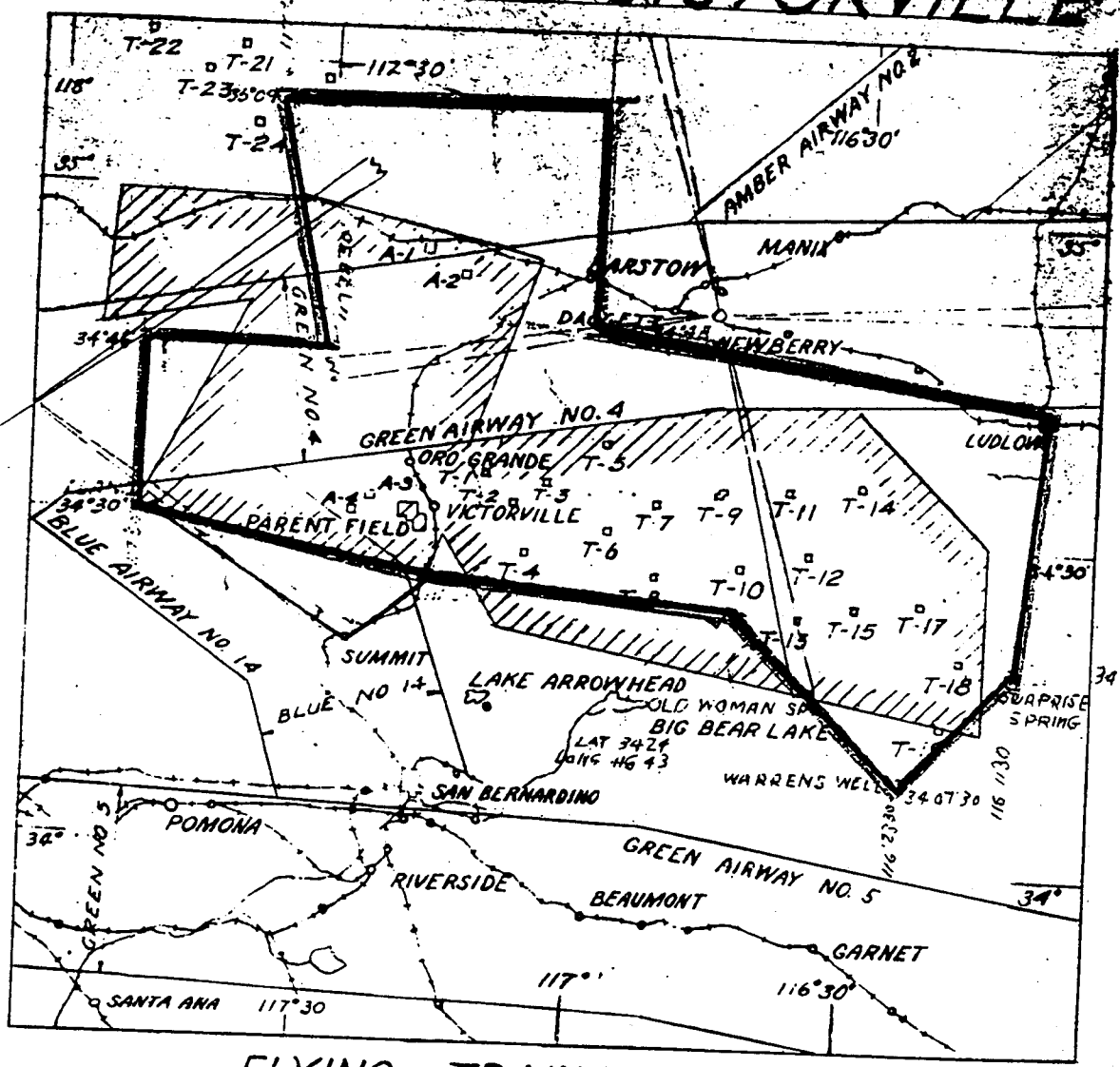
TABLE OF CONTENTS

L-1 Historical map of the Flying Training and Danger Areas for Victorville. (B-16)

L-2 Historical map of the Bombing Targets at Victorville Army Air Field. (B-16)





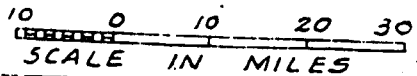
# VICTORVILLE



## FLYING TRAINING AREA AND DANGER AREA

II M. REGIONAL AERO CHART BASE

-  FLYING TRAINING AREA
-  DANGER AREA



Incl. 1

V-4

Flying Training Area shown hereon  
in Red is hereby approved  
*Ray P. Cutler*

Date May 25, 1943

L-1

M  
A  
K

RESTRICTED

# BOMBING TARGETS EAST RANGE VICTORVILLE ARMY AIR FIELD

RESTRICTED

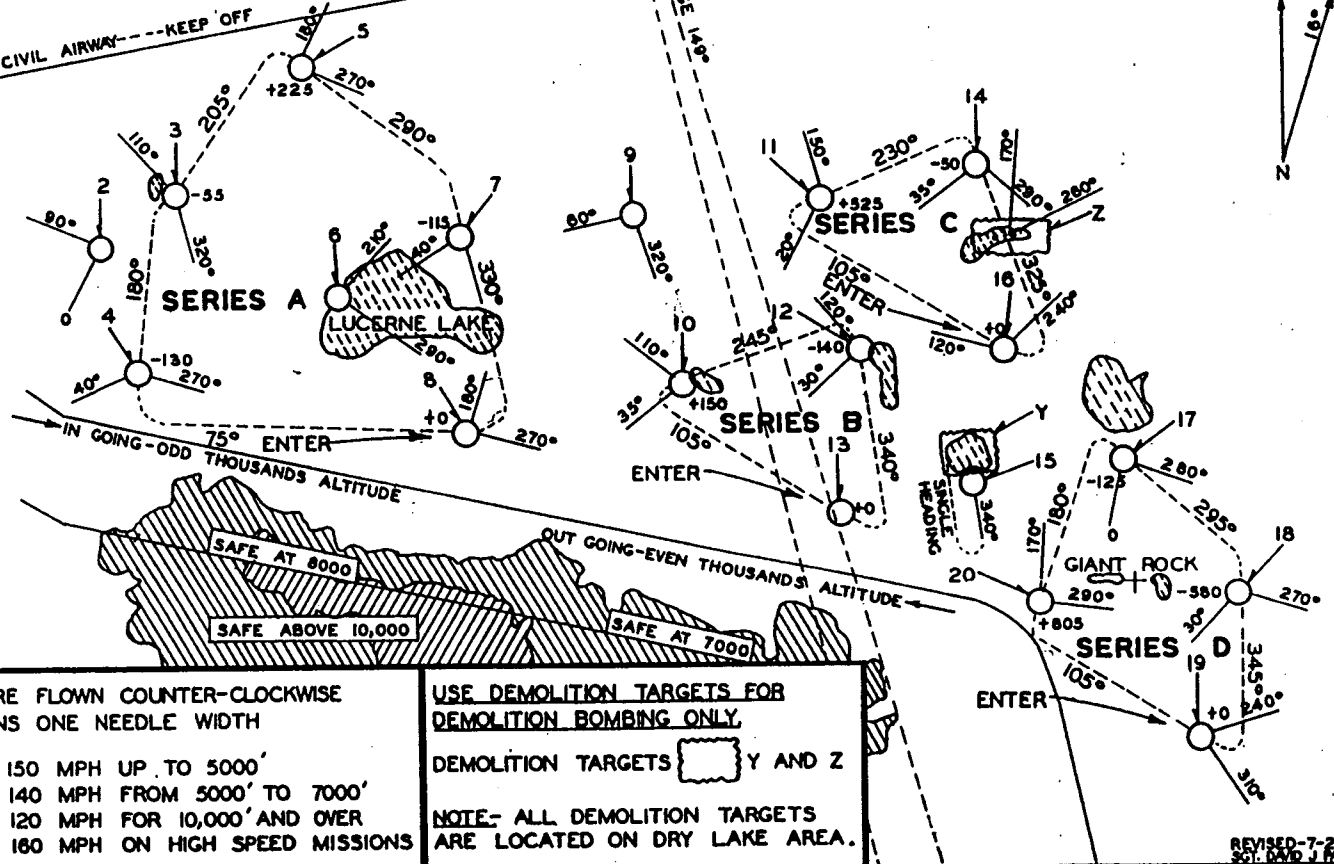
L-2

VICTORVILLE  
ARMY AIR  
FIELD

FIELD ALTITUDE
2861'
TARGET ALT.
2---2940'
3---3210
4---3080
5---3285
6---2845
7---3040
8---3155
9---3305
10---2895
11---3410
12---2745
13---2885
14---2885
15---2600
16---2935
17---2355
18---2480
19---3060
20---3160
Y---2570
Z---2700

OFFICE OF DIRECTOR  
OF FLIGHT TRAINING

CIVIL AIRWAY---KEEP OFF



SERIES ARE FLOWN COUNTER-CLOCKWISE  
ALL TURNS ONE NEEDLE WIDTH

AIRSPEED 150 MPH UP TO 5000'  
AIRSPEED 140 MPH FROM 5000' TO 7000'  
AIRSPEED 120 MPH FOR 10,000' AND OVER  
AIRSPEED 160 MPH ON HIGH SPEED MISSIONS

USE DEMOLITION TARGETS FOR  
DEMOLITION BOMBING ONLY.

DEMOLITION TARGETS Y AND Z

NOTE: ALL DEMOLITION TARGETS  
ARE LOCATED ON DRY LAKE AREA.

REVISED-7-20-43  
SPT. DAVID J. BROWN

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX M

ARCHIVE SEARCH REPORT CORRESPONDENCE

NOT USED

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX N

PROJECT AREA BIBLIOGRAPHY

**APPENDIX N  
PROJECT AREA BIBLIOGRAPHY**

<b>Document ID</b>	<b>Project Area(s)</b>	<b>OE Classification</b>	<b>Document Name</b>	<b>Document Date</b>	<b>Document Source</b>	<b>Description and Comments</b>
1	Area A	Contaminated	Historical Record of Victorville Army Air Field	Nov-Dec-44	AFHRA, Maxwell AFB	F-4 Types of Ordnance on hand.
1	Area A	Contaminated	Dedudding Report	25-Oct-47	NARA-Archives II	F-5 Letter certifying PBR # 5 is free of unexploded ordnance, only type ordnance found was M38A2s.
2	Area B	Potential	Dedudding Report	25-Oct-47	NARA -Archives II	See Above Description.
3	Area A	Contaminated	Declaration of Excess	14-Jan-48	NARA-Pacific Region	F-6 Placing bomb targets in the category of surplus.
4	Area A	Contaminated	Dedudding Report	17-Jun-48	AFHRA Maxwell AFB, AL	F-7 All of PBR # 5 is cleared of explosive material.
4	Area BC	Potential	Dedudding Report	17-Jun-48 31-Dec-44	AFHRA Maxwell AFB, AL	See Above Description
5	Area A	Contaminated	Site Photographs	27-Jan-98	Visual Inspection	Photographs J-3 through J-7 shows M38A2 bomb debris.
6	Area B	Potential	Site Photographs	27-Jan-98	Visual Inspection	Photographs J-1 and J-2 shows the surrounding area.
7	Area A	Contaminated	Aerial Photograph	16-Jul-89	U.S. Geological Survey	Photographs K-1 and K-2 shows bombing targets

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

APPENDIX O

REPORT DISTRIBUTION

APPENDIX O

REPORT DISTRIBUTION LIST

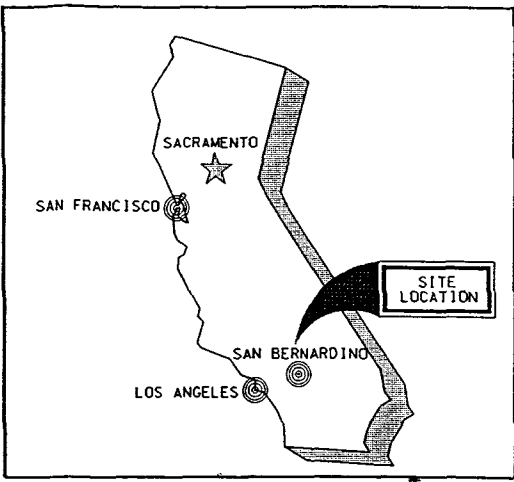
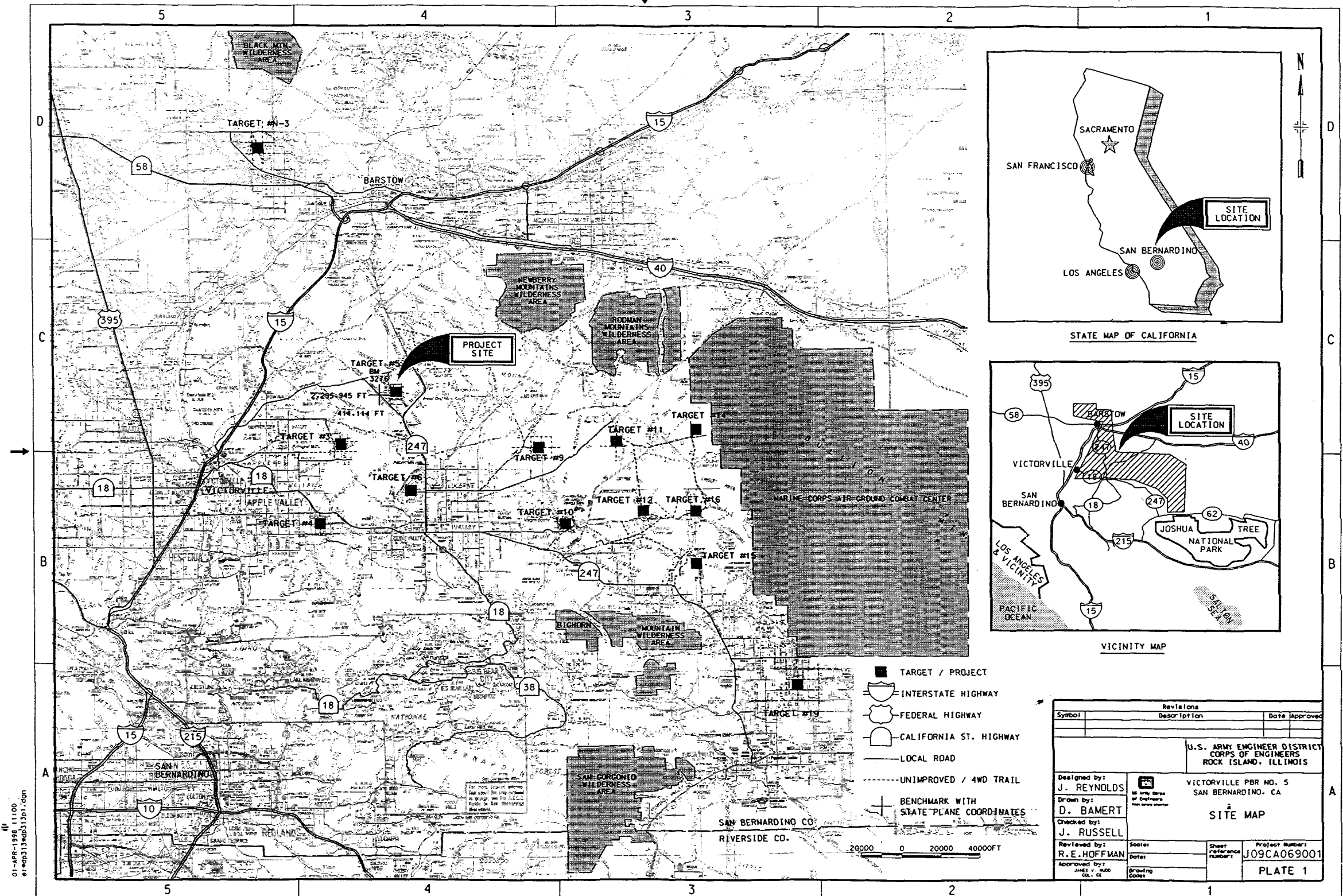
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ORDNANCE AND EXPLOSIVES  
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FOR  
VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 5  
VICTORVILLE, CALIFORNIA  
J09CA069001

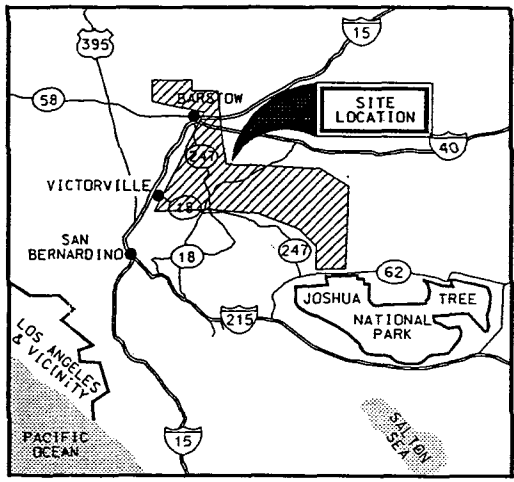
APPENDIX

REPORT PLATES





STATE MAP OF CALIFORNIA



VICINITY MAP

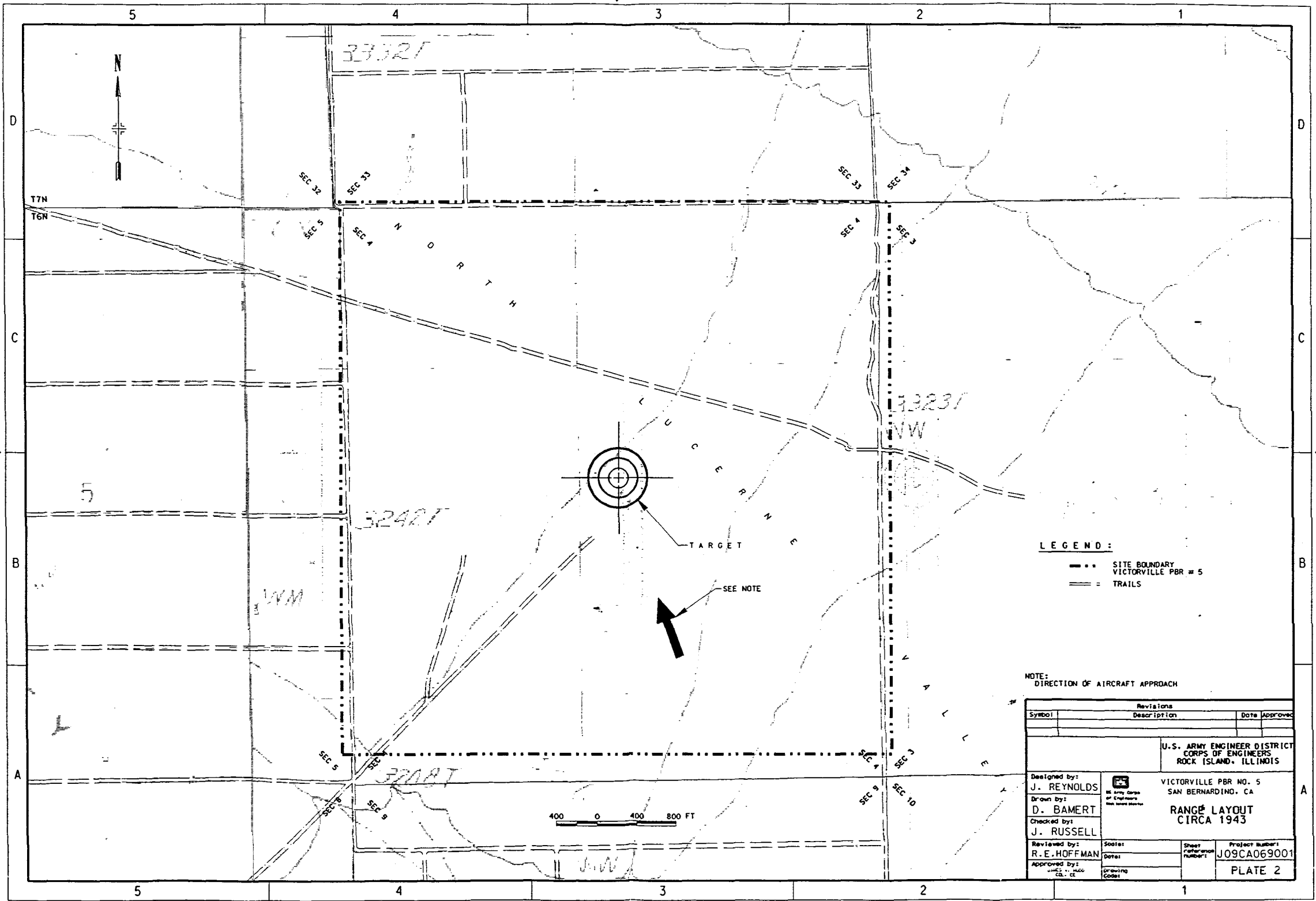
- TARGET / PROJECT
- INTERSTATE HIGHWAY
- FEDERAL HIGHWAY
- CALIFORNIA ST. HIGHWAY
- LOCAL ROAD
- - - UNIMPROVED / 4WD TRAIL
- + BENCHMARK WITH STATE PLANE COORDINATES

20000 0 20000 40000FT

Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: <b>J. REYNOLDS</b>		VICTORVILLE PBR NO. 5 SAN BERNARDINO, CA	
Drawn by: <b>D. BAMERT</b>		<b>SITE MAP</b>	
Checked by: <b>J. RUSSELL</b>	Scale:	Sheet reference number:	Project Number: <b>J09CA069001</b>
Reviewed by: <b>R.E. HOFFMAN</b>	Date:	Drawing Code:	<b>PLATE 1</b>
Approved by: <b>JAMES V. WOOD COL. CE</b>			


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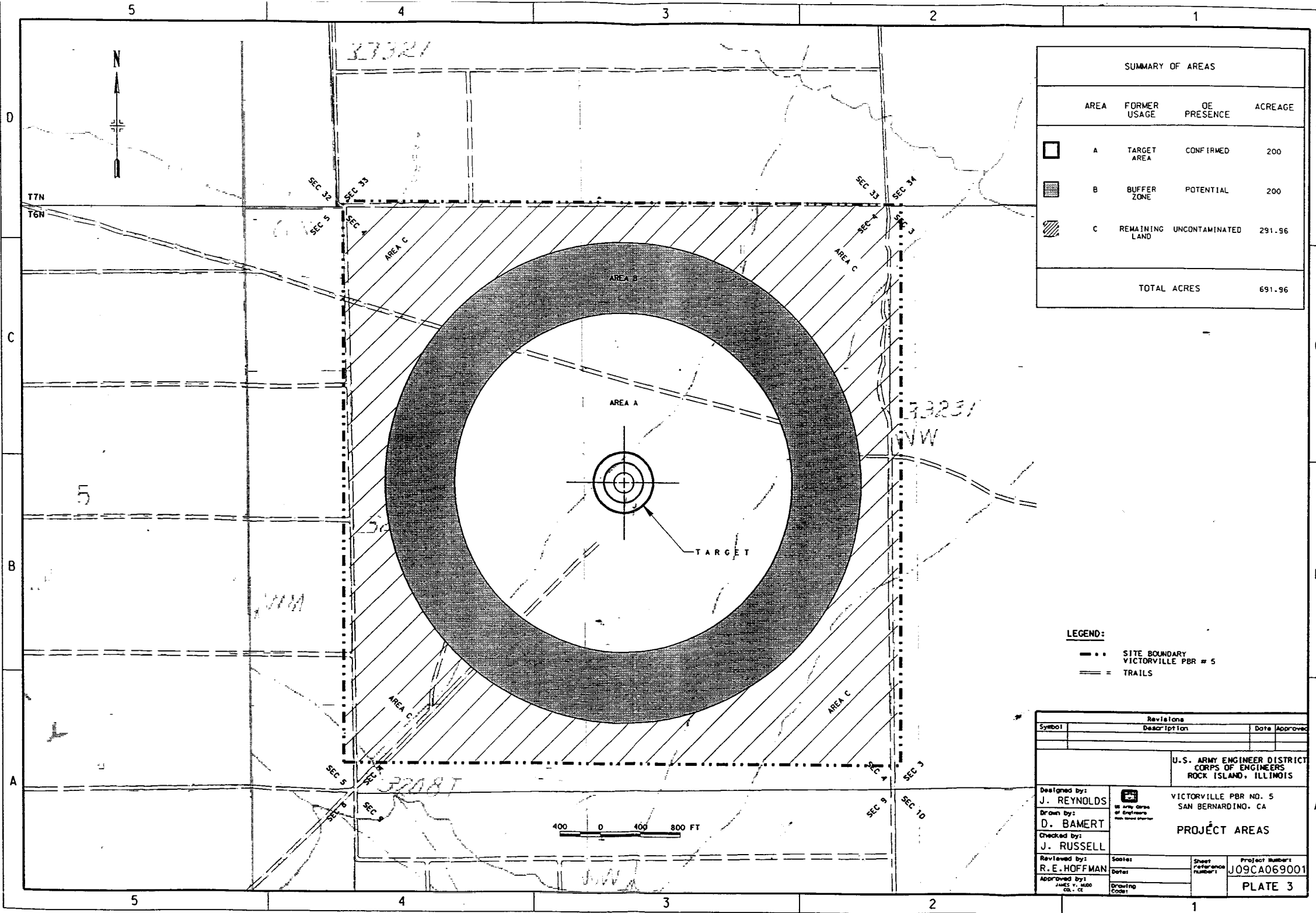


**LEGEND:**  
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NOTE:  
 DIRECTION OF AIRCRAFT APPROACH

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Drawn by: D. BAMERT				RANGE LAYOUT CIRCA 1943	
Checked by: J. RUSSELL		Reviewed by: R. E. HOFFMAN		Project Number: J09CA069001	
Approved by: [Signature]		Date:		Sheet Reference Number:	
Drawing Code:		Drawing Code:		PLATE 2	

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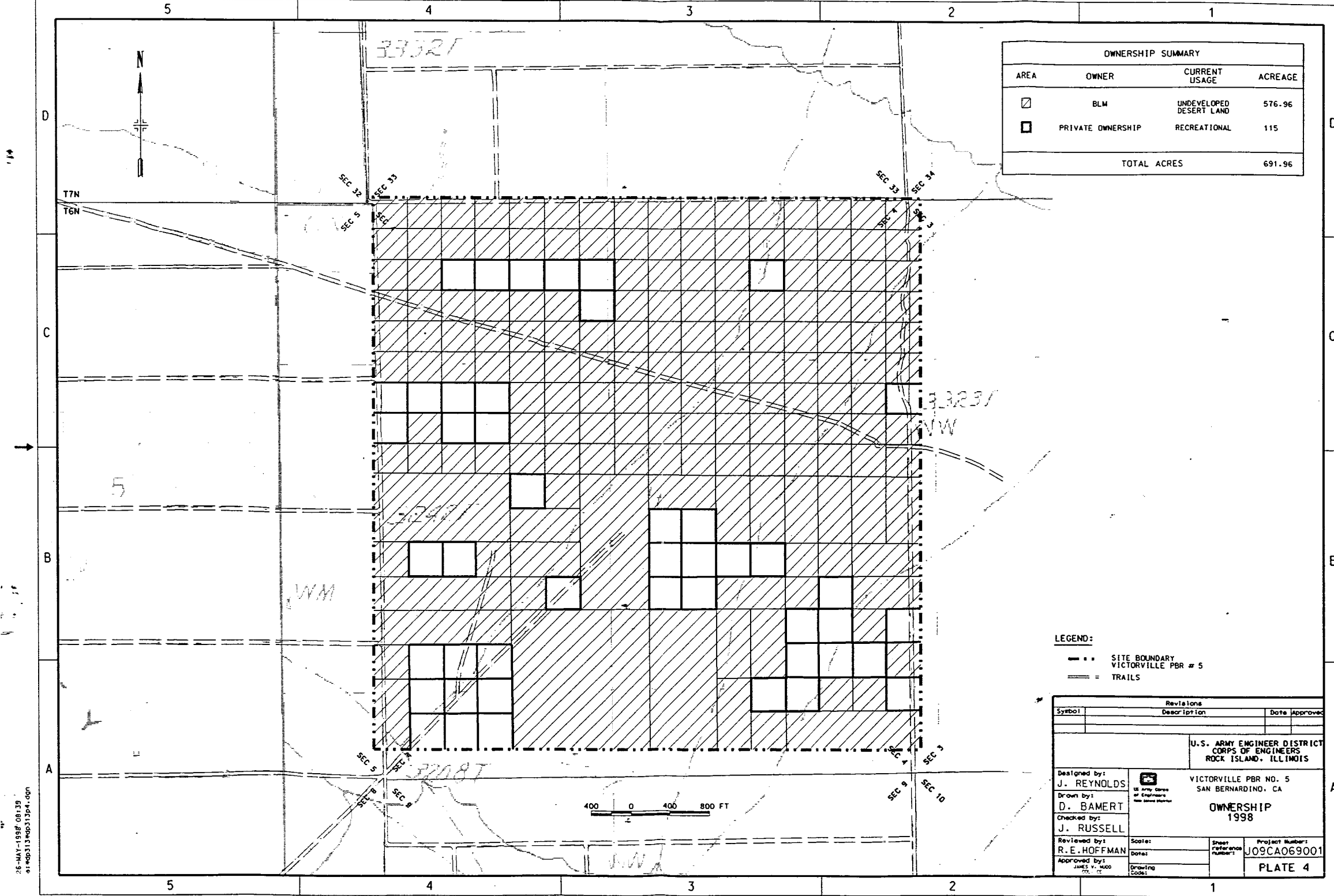


SUMMARY OF AREAS			
AREA	FORMER USAGE	OE PRESENCE	ACREAGE
□	A TARGET AREA	CONFIRMED	200
■	B BUFFER ZONE	POTENTIAL	200
▨	C REMAINING LAND	UNCONTAMINATED	291.96
TOTAL ACRES			691.96

**LEGEND:**  
 - - - SITE BOUNDARY VICTORYVILLE PBR # 5  
 = = TRAILS


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Drawn by: <b>D. BAMERT</b>	<b>PROJECT AREAS</b>		
Checked by: <b>J. RUSSELL</b>			
Reviewed by: <b>R. E. HOFFMAN</b>	Date:	Sheet reference number:	Project number: <b>J09CA069001</b>
Approved by: <b>JAMES V. HADD</b> COL. CE	Date:	Drawing Code:	<b>PLATE 3</b>



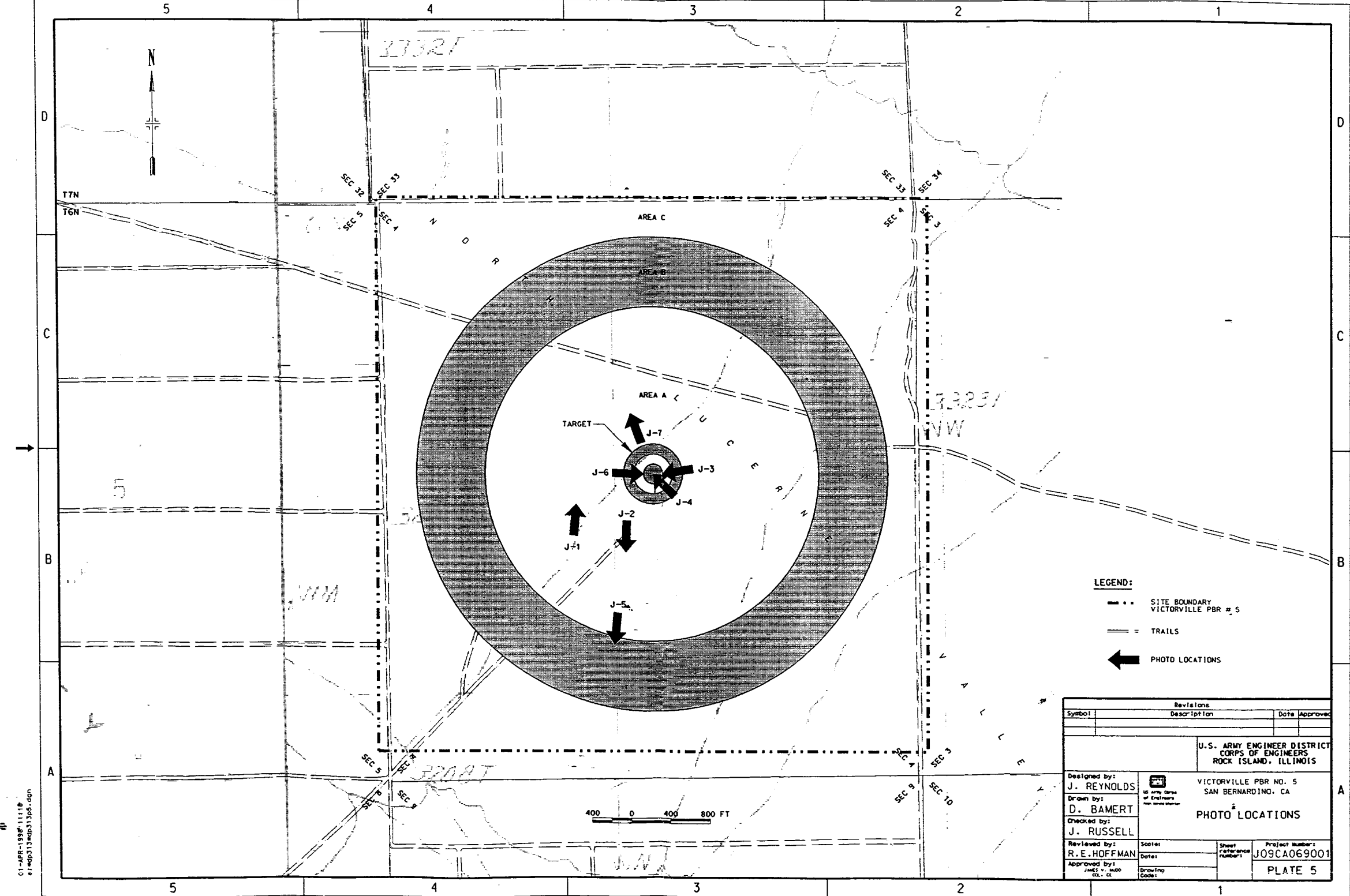


OWNERSHIP SUMMARY			
AREA	OWNER	CURRENT USAGE	ACREAGE
☑	BLM	UNDEVELOPED DESERT LAND	576.96
☐	PRIVATE OWNERSHIP	RECREATIONAL	115
TOTAL ACRES			691.96


**LEGEND:**  
 - - - SITE BOUNDARY VICTORVILLE PBR # 5  
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Drawn by: <b>D. BAMERT</b>			<b>OWNERSHIP 1998</b>		
Checked by: <b>J. RUSSELL</b>		Scale:		Project Number: <b>J09CA069001</b>	
Reviewed by: <b>R.E. HOFFMAN</b>		Date:		Sheet Reference Number:	
Approved by: <b>JAMES F. 4400</b>		Drawing Code:		<b>PLATE 4</b>	

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 41 MDP313 MDP313P4.dgn



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  - == TRAILS
  - ← PHOTO LOCATIONS

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Drawn by: <b>D. BAMERT</b>		<b>PHOTO LOCATIONS</b>	
Checked by: <b>J. RUSSELL</b>	Reviewed by: <b>R. E. HOFFMAN</b>	Scale:	Project Number: <b>J09CA069001</b>
Approved by: <b>JAMES W. HOFFMAN</b> <small>COL, USAF</small>	Date:	Sheet Reference Number:	<b>PLATE 5</b>
		Drawing Code:	

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