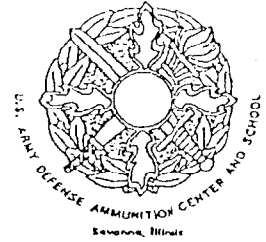




US Army Corps
of Engineers
Rock Island District



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

Archives Search Report

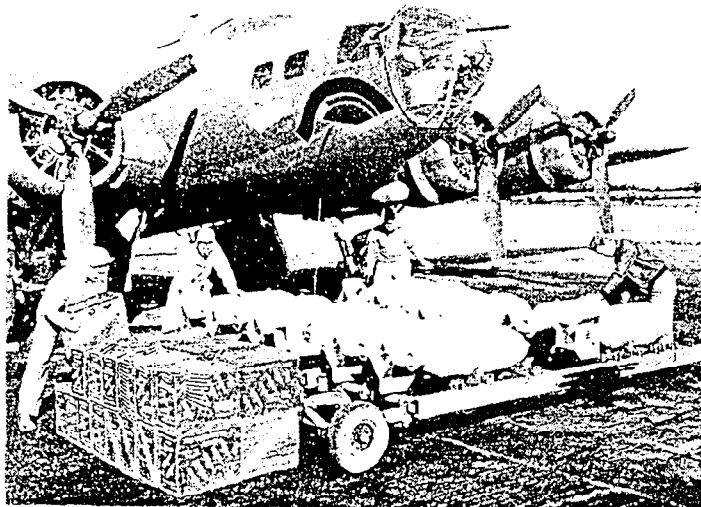
FINDINGS

for
the former

VICTORVILLE PRECISION BOMBING RANGE (PBR) NO. 15

VICTORVILLE, CALIFORNIA
Project Number J09CA068101

JUNE 1998



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR
FORMERLY USED DEFENSE SITES

FINDINGS

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

JUNE 1998

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ORDNANCE AND EXPLOSIVES PROJECT
 ARCHIVES SEARCH REPORT
 FOR
 FORMER VICTORVILLE PRECISION
 BOMBING RANGE (PBR) NO. 15
 VICTORVILLE, CALIFORNIA
 PROJECT NUMBER J09CA068101

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**ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
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ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

1. INTRODUCTION

a. Subject and Purpose

(1) This report presents the findings of a historical records search and site inspection for ordnance and explosives (OE) presence located at the former Victorville Precision Bombing Range No. 15 (PBR #15), Victorville, California (see plate 1 for a general location map). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS).

(2) This investigation focused on approximately 640 acres of land that were used by the War Department. The site was used as a practice bombing range from 1942 to 1945.

(3) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare material (CWM). This investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews and an 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 potential ordnance presence where 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 which 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" which refers to any mixture in soil, sand, clay, etc., such that the mixture itself is explosive. Generally, 10 percent or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. PREVIOUS INVESTIGATIONS

a. **1991 Preliminary Assessment**

A Preliminary Assessment of Victorville PBR No. 15 was conducted under the DERP-FUDS by the U.S. Army Corps Of Engineers, Los Angeles District (CESPL) in 1991 (see document E-1). The Findings and Determination of Eligibility, dated 3 July 1991, concluded that the 640 acres located in San Bernardino County, California, had been formerly used by the War Department/Department of Defense. That report recommended referral to CEHND, now CEHNC, for an evaluation of possible ordnance presence. Table 2-1 represents an overview of the PA phase. An OE project, number J09CA068101, was authorized by Headquarters, Corps of Engineers. (Note: The land just north of Area B would normally have been included as additional land for the safety zone. However, that area is already part of PBR Y, Project Number J09CA069501, a previously investigated site that has been recommended for an EE/CA (see plate 2).

TABLE 2-1 DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS				
Project Number	DERP Category	Present Phase	Comments	Location
J09CA068101	OE	SI	Ordnance or Explosives	Entire site See Plate 2
	HTRW	No projects recommended		
	BD/DR	No projects recommended		

b. Other Investigations

(1) There were no other investigations brought to the attention of inspection team during the investigation of this site.

(2) The northern boundary of PBR No. 15 is adjacent to and borders a demolition precision bombing range known as PBR Y. An ASR has been completed on PBR Y which is assigned DERP-FUDS Project No. JO9CA069501.

3. SITE DESCRIPTION

a. Existing Land Usage

(1) The former Victorville Precision Bombing Range No. 15 is located approximately 42 miles east of Victorville, California in San Bernardino County. The area consists of approximately 640 acres. Table 3-1 and plate 3 contain information for current property ownership and usage.

(2) The area is used for Off-Highway Vehicle (OHV) recreation and camping by the public. The 640 acres that made up the former target area is government owned and managed by the Bureau of Land Management (BLM).

TABLE 3-1 LAND USAGE					
AREA	FORMER USAGE	PRESENT OWNER	PRESENT USAGE	SIZE/ ACRES	COMMENTS
A	Bomb Target	BLM	Recreational	150.0	See Plate 2
B	Safety Zone	BLM	Recreational	120.0	See Plate 2
C	Remaining Land	BLM	Recreational	370.0	See Plate 2
TOTAL				640.0	

b. Climatic Data

(1) Rainfall is sparse in all months based on the climatology data for Barstow and Victorville, California. Precipitation is rare in the summer months and occurs mainly in the winter. Measurable rain occurs one day in four from late

October to early April. In three years out of four, traces or less are reported for the entire months of June, July and August. June is usually the month of minimum rainfall (0.04 inch) on the average. January is usually the month of maximum rainfall (1.01 inch) on the average. The total annual precipitation is about five inches. Very small amounts of snow are recorded during the winter months. The average seasonal snow fall is about two inches. Snow on the ground is rare and the number of such days varies from year to year.

(2) The desert type climate is normally mild during the winter months and summers are long and hot. Winters are quite warm despite an occasional series of days when the nightly temperature drops below freezing. In winter, the average temperature is 45 degrees Fahrenheit with an average daily minimum during the winter months of 30 degrees Fahrenheit. In 1949, a temperature low of 17 degrees Fahrenheit was recorded. In summer, the average temperature is 77 degrees Fahrenheit. The average daily maximum temperature is 97 degrees Fahrenheit. The highest recorded temperature in San Bernardino County was 116 degrees Fahrenheit on 14 July 1972 at Barstow (see references B-14, B-15, and B-16).

(3) The average relative humidity in midafternoon is about 20 percent. Humidity is higher at night and the average at dawn is about 50 percent. The percentage of possible sunshine is 90 percent of the time in summer and 60 percent in winter. The mean annual temperature is 62 degrees Fahrenheit.

(4) The prevailing wind is from the west with an average windspeed of eight miles per hour in the summer. The highest recorded windspeed is 87.4 miles per hour.

c. Topography

(1) Victorville PBR No. 15 is located in the Mojave Desert (near Johnson Valley) between some small mountain masses that are part of the Fry Mountains.

(2) The site area is nearly level with some sloping terraces ranging from 0 to 15 percent. The elevation above sea level is approximately 2,600 feet with small variations of up to 24 feet across the entire site.

(3) The area is characterized by the many gullies and channels leading from the mountain ranges to the playas on the desert floor. The vegetation consists of mostly desert shrubs, annual forbs, and grasses (see references B-59 and B-60).

d. Geology and Soils

(1) The Mojave Desert is outlined by the San Andreas fault on the south and the Garlock fault on the north. The eastern portion of the Mojave Desert is characterized by basins and open valleys between mountainous masses. In the southern part, the mountains and valleys have a northwest alignment. The many fault zones in the area are also aligned in a northwest-southeast direction. Evidence suggests that there existed in the Mojave Desert during one or more of the pluvial Pleistocene ages a number of lakes now represented by playas or salines. Means Dry Lake Bed is such an example (see reference B-59).

(2) The area in which the former range lies consists of only one soil association. The Mohave-Adelanto variants association are well drained, moderately slowly permeable, sandy loams, moderately deep to deep caliche soils developed in stratified clay loam alluvium.

(3) The mohave variant soils have brown, platy soft mildly alkaline sandy loam surface soils and reddish brown, prismatic, very hard, slightly acidic, sandy clay loam subsoils.

(4) The adelanto variant soils have brown, granular, soft, moderately alkaline, sandy loam surface soils and reddish brown, blocky, slightly hard, moderately alkaline, sandy loam subsoils.

(5) These soils overlie grayish brown massive, very hard and extremely hard, moderately alkaline, calcareous, clay loam (caliche) substrata.

e. Hydrology

(1) The area in which the former range was located is in the groundwater flow systems of the Basin and Range area. The Basin and Range area are in individual basins or in two or more hydraulically connected basins through which groundwater flows to a terminal discharge point or sink (see reference B-60).

(2) These sinks have essentially the same characteristics with the impermeable rocks of the mountain ranges serving as boundaries to the flow system. The majority of the groundwater flows through the basin-fill deposits.

(3) In the areas where carbonated rocks underlie the

basins, substantial quantities of water can flow between the basins through the carbonated rocks and into the basin-fill deposits. This water also is ultimately discharged by evapotranspiration.

(4) Where possible, recharge to the basin-fill deposits originates in the mountain as snowmelt, and, where the streams emerge from the bedrock channels, the water infiltrates into the alluvial fans and replenishes the basin-fill aquifer. Intense rains may provide some direct recharge to the basin-fill deposit, but in most cases, any rainfall that infiltrates the soil is immediately evaporated or taken up as soil moisture.

f. Natural Resources

A letter from the U.S. Fish and Wildlife Service indicates that the threatened desert tortoise may be found in the area of the PBRs. The U.S. Fish and Wildlife Service should be contacted if any projects are warranted on this site. This information is provided in Table 3-2 (see document F-1).

g. Historical/Cultural Resources

There are no recorded archaeological/cultural sites on the former PBR No. 15 lands. However, there are rock arts recorded in the vicinity. Coordination should be made with the California Archaeological Information Center if any projects are to be undertaken in this area (see documents F-2 and F-3).

TABLE 3-2 NATURAL & CULTURAL RESOURCES		
Resource Classification	Type	Federal Status*
Wildlife	Desert Tortoise	Threatened
Vegetation		None Listed
Cultural/ Historical	Prehistoric Historic	Coordinate with SHPO

4. HISTORICAL ORDNANCE PRESENCE

a. Chronological Site Summary

(1) On 19 August 1942, the Commanding General, Army Air Forces, approved the acquisition of lands for eighteen bombing ranges to be used by the Victorville Army Flying School,

Victorville, California, for the training of student bombardiers. Actual preparation for acquisition and site construction occurred prior to acquisition approval, as evidenced by historical documents dated 31 January 1942, 13 February 1942 and 30 April 1942 (see documents F-4, F-11, F-12, and F-16).

(2) One site selected, known as Victorville PBR #15 and being the subject of this report, consisted of 640 acres of desert land located in the southern ½ of Section 30 and the northern ½ of Section 31, all within Township 4 North, Range 2 West, of the San Bernardino Base and Meridian, San Bernardino County, California. The land for this site was acquired through Public Land Order 125, dated 20 May 1943 (see documents F-7, F-11, G-1 and L-1).

(3) After the acquisition of Victorville PBR #15 lands, military related improvements were said to consist of a concentric circle target (marked on the ground with black road mix), a pyramidal target (presumably placed in the center of the target circle), and a three strand barbed wire fence (see documents There were no government buildings or auxiliary facilities on-site (see documents E-1, F-10, F-11, J-7, J-13, K-1, and plate 3).

(4) The bomb target, Victorville PBR No. 15, was used from 1942 until 1945. On 12 April 1945, a letter was sent requesting that this site be abandoned and declared surplus. On 11 June 1945, this site was declared excess. On 22 June 1945, this site, along with several others, was classified as surplus. On 2 October 1945, action was requested to be taken to return the land to the Department of the Interior (see documents F-5 through F-8, and F-13).

(5) In January 1947, several of the Victorville PBRs, including PBR No. 15, were requested to be reactivated from a surplus status for use in the proposed Bullion Mountain Gunnery Range. However, in August 1947, it was determined by the War Department that no further need existed for the real estate of PBR No. 15 (see documents F-14 and F-15).

(6) The site was transferred to the Department of the Interior, with custody being assumed on 30 January 1948 (see documents G-3 through G-5).

b. Ordnance Related Records Review

(1) A historical document search was conducted by the

site inspection (SI) team to obtain ordnance related records relevant to the former Victorville Precision Bombing Range #15. Research sites included, but were not limited to, the National and State Archives; state, county, and local libraries; historical centers and societies; local newspapers; state, county, and local law enforcement agencies; and current owners of the former site (see Appendix A for a complete listing of contacts).

(2) A memorandum from the Chief of the Air Corps to the Chief of the Army Air Forces and the Chief of Engineers, Subject: Funds for Bombing Target Construction, Victorville Airfield, California, dated 31 January 1942, requests immediate funding for the construction of 18 bombing targets at Victorville, California (see document F-16).

(3) A letter from the Headquarters, Air Corps Advanced Flying School, Victorville, California, to Commanding General, WCACTC, Moffet Field, California, Subject: Information Pertaining to Bombing Ranges, ACAFS, Army Air Base, Victorville, California, dated 13 February 1942, discusses the initial needs and uses for acquiring the Victorville Bombing Ranges. The targets were to be used for training bombardiers using 100-lb. sand filled practice bombs (see document F-11).

(4) A letter from the U.S. Engineer Office, Los Angeles, California to the Commanding Officer, Victorville Army Flying School, Victorville, California, Subject: Bombing Targets - Notice of Completion and Release, dated 30 April 1942, states that Bombing Target No. 15 is ready for use and has been accepted (see document F-12).

(5) A document from the Office of the Chief of Engineers, dated 2 September 1942, Subject: Land Acquisition, Bombing Ranges for Victorville Army Flying School, Victorville, California, states the military necessity for PBR No. 15 land. The land was to be used for the immediate training of cadet bombardiers. It mentions a total of 18 ranges (PBR #15 being one) of approximately 640 acres in size for each site (see document F-4).

(6) An excerpt from construction contract no. W-509-Eng-2196, dated November 1942, displays the information related to the construction and acceptance of the bomb targets by Victorville Army Air Field. Construction had begun on 11 March 1942, and completed 1 May 1942, with acceptance occurring on the same date (see document F-10).

(7) An excerpt from a historical record of Victorville Army Air Field, circa 1943, mentions that flare pots and aircraft flares were used to illuminate targets prior to night lighting installation (see document F-5).

(8) A copy of Public Land Order 125, dated 20 May 1943, which allowed the withdrawal of public lands for use by the War Department as bombing target sites (see document G-1).

(9) An excerpt from a historical record of Victorville Army Air Field, circa 1945, displays an ordnance supply list, including various bombs and small arms cartridges, that were received and expended by the units at Victorville Army Air Field, California (see document F-9).

(10) A letter from Headquarters, Victorville Army Flying School, Victorville, California to Commanding General, Army Air Forces, Washington D.C. (Thru: Commanding General, Army Air Forces Western Flying Training Command, 1104 West 8th Street, Santa Ana, California), Subject: Abandonment of Target No. 15, dated 12 April 1945, gives a brief description of the site and declares the site available for surplus status as of 18 January 1945 (see document F-13).

(11) A document from the War Department, Headquarters of the Army Air Forces, Washington D.C., dated 11 June 1945, Subject: Abandonment of Targets Nos. 6, 9, and 15, and Y and Z, Victorville Army Air Field, California, reports PBR No. 15 as surplus. The response to that request, dated 27 June 1945, was to place the site in the category of surplus effective 22 June 1945, with action requested to dispose of the target in accordance with regulations (see document F-5).

(12) A Warning Notice (Eng. Form 1128), Army Service Forces, Office of the Chief of Engineers, Real Estate, dated 29 June 1945, places five (5) Victorville Army Air Field Target Sites in surplus status effective 22 June 1945 (see document F-6).

(13) A letter from the Chief of Engineers, Director of Real Estate, to the Commissioner, General Land Office, Department of the Interior, Washington D.C., dated 2 October 1945, requests that the necessary action be taken to return target land back to the Department of the Interior (see document F-7).

(14) Documented evidence of ordnance presence within PBR No. 15 is inferred from the Report of dedudding of

Victorville Bombing Targets issued by the Office of the Chief of Engineers, 9800 TSU Detachment No. 14, Bomb and Shell Disposal Team, dated 20 October 1947. In this document, the EOD team chief states that the area is primarily suitable for grazing and/or mining only, with potential for agricultural uses depending on an adequate water supply. Also, a document titled "Dedudding Report On Bombing Targets Formerly Assigned To Victorville Army Air Field", dated 25 September 1946, states that 100-lb. sand filled practice bombs were the only type of ordnance used on this site (see documents E-2 and E-3).

(15) A letter from the Army Service Forces, Corps of Engineers, Office of the Division Engineer, South Pacific Division, 351 California Street, San Francisco, California to the Chief of Engineers, War Department, Washington D.C., Subject: Reactivation of Bombing Targets at Victorville AAF for use in Proposed Bullion Mountain Gunnery Range, dated 16 January 1947, requests that several targets be reactivated, including PBR No. 15, until such time as it is determined whether or not the Bullion Mountain Air to Air Gunnery Range will be acquired (see document F-14).

(16) A letter from Headquarters, Army Air Forces, Washington D.C. to Director of Service, Supply and Procurement, WDGS, ATTN: Services Group, Subject: Transfer of Surplus Facilities Pacific Division No. 4197-3 (Victorville Army Air Field, California), dated 11 August 1947, lists various bomb targets that are no longer required for use, including PBR No. 15, and that these targets be declared surplus and disposed of in accordance with existing laws and regulations (see document F-15).

(17) A Realty Control File Summary (ENG Form 1603), undated, summarizes the real estate actions related to the acquisition and disposition of Victorville PBR No. 15 (see document G-2).

(18) A Military Acquisition Project Report (ENG Form 1010), dated 14 November 1947, displays the initial real estate actions related in obtaining Victorville PBR No. 15 (see document G-3).

(19) A Tract Register (ENG Form 1019), dated 14 November 1947, also displays the real estate actions related in obtaining Victorville PBR No. 15 (see document G-4).

(20) A Real Property Management and Disposal Report (ENG Form 836), dated 15 March 1948, displays the transfer of

Victorville PBR No. 15 from the War Department to the Department of the Interior (see document G-5).

(21) A plat map, dated 1992, shows the partially surveyed Township 4 North, Range 5 East of the San Bernardino County Meridian, California (see document G-6).

(22) A parcel list of San Bernardino County, dated 1997, displays the current property owners of the former Victorville PBR No. 15 (see document G-7).

(23) A couple of historical aerial photographs, dated 25 July 1989, display the target area of Victorville PBR No. 15 (see photos K-1 and K-2).

(24) A real estate map of the Victorville Army Air Field, Bombing Ranges, Military Reservation, dated 19 September 1945, displays the locations of all the Victorville bomb targets within their sections of ranges and townships (see map L-1).

(25) Several maps were discovered depicting the flying training area and danger areas associated with the Victorville bombing range (see maps L-2 through L-4).

(26) A map was discovered depicting the bombing targets for Victorville Army Air Field. It displays the target entry headings, direction of target series flight paths, target altitudes and airspeeds to be used (see map L-5).

c. Interviews With Site-Related Personnel

(1) Efforts to locate individuals who had served or had first hand knowledge of the Victorville Bombing Ranges including PBR No. 15 were not very successful. Personal interviews were conducted with local individuals that had worked at the Victorville Army Air Field during the war years, but they did not know of the bombing ranges. Bureau of Land Management representatives, U.S. Fish and Wildlife Service employees, and local law enforcement officers were also interviewed to obtain information about PBR No. 15.

(2) Several law enforcement and military agency officials were interviewed in an effort to determine if they were aware of incidents or accidents resulting from a remaining ordnance or explosive presence on former PBR No. 15 lands. Although some had knowledge of the existence of PBR No. 15, none were aware of a reported or rumored OE presence (see documents I-1 through I-4).

(3) One interviewee, Mr. Glenn Brooks, who had knowledge of the of the Victorville bombing targets, retired from the U.S. Air Force after 30 years of service. He was part of the cadre at Victorville AAF, working in the aircraft maintenance branch. He stated that AT-11 aircraft were used for the bombardier training and only 100-lb sand filled practice bombs with spotting charges were ever dropped. As a maintenance man, he used to go up on some of the training missions (see document I-5).

(4) Mr. Owen Cooper, a former serviceman stationed at Victorville AAF, had trained as a bombardier and graduated in March 1943. He stated that they flew the AT-11 on practice bombing missions all around the Victorville area. Mr. Cooper said that all he ever dropped were 100-lb sand filled practice bombs. He doesn't ever recall seeing HE bombs and was unaware of any other cadets dropping HE bombs. He said that standard procedure was to drop one practice bomb on a target and then follow a new heading toward another target for continued bombing (see interview I-6).

5. SITE ELIGIBILITY

a. Confirmed Formerly Used Defense Site

Former land usage by the War Department was previously confirmed for the entire site as summarized in section 4a of this report. The 640 acres of the former Victorville PBR No. 15 was used by the War Department/Department of Defense as a practice bombing range. Historical documents and personal interviews confirm this finding. There is also a portion of land, bordering the northern boundary of the target area, that would have normally been included as additional land for Area B, the safety zone. However, that area was part of Victorville Precision Bombing Range Y, Project Number JO9CA069501. PBR Y has been previously investigated and found to contain a potential ordnance presence and has been recommended for an EE/CA. No ownership or usage of any part of the Victorville PBR No. 15 remains with the Department of Defense (DOD) (see documents F-10 through F-12, G-1 through G-5 and plate 2).

b. Potential Formerly Used Defense Site

No additional FUDS were discovered during the course of this site investigation.

6. VISUAL SITE INSPECTION

a. General Procedures and Safety

(1) During the period 21 January through 25 January 1998, members of the Assessment Team traveled to the former Victorville PBR No. 15 area. The primary task of the team was to assess OE presence and potential due to its former usage as a practice bombing range by the War Department/Department of Defense, as stated in the INPR. Site inspection was limited to non-intrusive methods; i.e. subsurface sampling was not authorized nor performed.

(2) Real estate rights-of-entry were not obtained nor deemed necessary, as the land in question is open public land and was fully accessible to the team.

(3) A site safety plan was developed and utilized by the assessment team to assure safety from injury during the site inspection of this facility. Prior to the inspection, a briefing was conducted which stressed that OE should only be handled by military EOD personnel (reference B-2).

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

(5) The team performed an extensive visual search of the target area on foot. The team stopped at various points on PBR No. 15 to observe fragments of bomb casings and spotting charges within the target area.

(6) The project site is being broken down into several sub-sites for this report: i.e., Area A is the target area, Area B is the safety zone, and Area C is the remaining lands (see plate 2).

b. Area A: Target Area

(1) This area, consisting of 150 acres, was used as a practice bombing target for student bombardiers.

(2) Military improvements stated to have been constructed in this area, based on historical documents and photos, consisted of a concentric circle target (marked on the ground with black road mix), a pyramidal target (presumably

placed in the center of the target circle), and a three strand barbed wire fence (see documents F-10, F-13, and K-1).

(3) Ordnance items stated to have been dropped or delivered into the target area, based on historical documents, consisted solely of 100-pound sand filled practice bombs (see documents E-3 and F-11). Historical documents state that aircraft flares were utilized prior to night lighting systems on some Victorville bomb targets. However, no historical or physical evidence exists to substantiate usage or remaining presence on this range.

(4) The inspection team failed to discover any remaining evidence of the target circle or barbed wire fence in or surrounding this area. Wood debris, possibly the remains of a wooden pyramidal target or targets, were found southwest and southeast of the suspected target circle area.

(5) The inspection team discovered a fair amount of M38A2 100-pound sand filled practice bomb debris throughout the target area, generally in the vicinity of the target circle (see photos J-1 through J-12 and plate 3). A vane cup assembly, associated with base-detonating M-100 series fuzes contained in high explosive bombs, was also discovered near practice bomb debris in the north central portion of this area. The north-central OE debris discovery is believed to be attributed to ordnance activity on Victorville PBR Y, which borders PBR No. 15 to the north. This was a demolition bombing range investigated in another ASR for project #JO9CA069501. This was the only evidence of high explosive bombs found throughout this area. All OE debris discovered in this area was devoid of energetic materials.

c. Area B: Safety Zone

(1) This area, consisting of approximately 120 acres, that surrounds the original site target area FDE acreage on the east, west, and south. Approximately another 50 acres, which would have normally been included as additional acreage (surrounding the target area to the north), is already part of another project area, Victorville PBR Y, Project #JO9CA069501 (see plate 2). These areas may have received munition items that were inadvertently or inaccurately dropped by the bombardier training crews. However, the SI team did not observe any remnants of practice bombs or bomb components on the surface of these areas (see plate 3).

(2) This area is under BLM ownership and is used as a

public OHV area.

(3) There was no physical OE evidence discovered by the SI team during the search of this area.

e. Area C: Remaining Lands

(1) This area consists of 370 acres and comprises the remainder of the project area lands. This area surrounds the safety zone and bomb target areas. The northern/ northeastern boundary is also adjacent to the target area of PBR Y (see plate 2 and ASR Project #J09CA069501) and also forms part of the southern boundary of that target area. The SI team did a thorough visual inspection of this area and did not discover any evidence of OE or OE related components.

(2) This area is owned by the BLM and is currently used by the public for OHV recreational purposes.

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

(1) This land was evaluated to determine confirmed, potential, or uncontaminated ordnance presence. Confirmed ordnance and explosive (OE) presence is based on verifiable historical records evidence or direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Additional field data are not needed to identify a confirmed site.

(a) Verifiable historical record evidence is based on OE items actually seen on site since site closure and authenticated by: historical records (Archive Records, Preliminary Assessment Reports, Site Investigation Reports), local fire departments and law enforcement agencies/bombs squads, military Explosive Ordnance Disposal (EOD) units, newspaper articles, photographs, or maps.

(b) Direct witness of OE items consists of the site inspection team(s) and other credible witnesses as determined by the ASR Research Team Leader (landowners, workers on-site, soldiers who served there, etc.) verifying that they have seen OE presence on the surface or subsurface since site closure.

(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 are needed to confirm potential OE sites.

(a) Inference from historical records is based on no OE items actually seen on site since site closure and would include documentation (records, aerial photographs, maps) indicating possible OE presence derived from common practice in production, storage, use, or disposal at that time and from records indicating known OE usage.

(b) Inference from present day site features would be the indication of possible OE presence from such obvious features as target circles, depressions, mounds/backstops, OB/OD areas/pits, etc.

(c) Indirect witness would be people who have stated that they have heard of OE presence on-site (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 are not needed to assess uncontaminated ordnance site.

b. Area A: Target Area

(1) Based on material collected during the ASR, this area is considered a **confirmed** area of OE presence. This is based on historical documentation and visual evidence. The SI team found OE evidence within the target area.

(2) The OE evidence found in this area consisted of remnants from M38A2 practice bombs and associated spotting charges. Historical evidence also reflected an identical presence. Although flare pots and aircraft flares were said to have been used for a period of time to illuminate targets, there was no historical or physical evidence found to substantiate a remaining presence. All items found were inert and not hazardous. They all appeared to have functioned as intended. Due to the quantity of OE residue found on the surface, it is possible that a similar OE presence may also be discovered subsurface (see documents D-1 and D-2).

c. Area B: Safety Zone

This area is considered to be a **potential** ordnance subsite. The northern section of this area is basically identical to the rest of Area B except that the land falls outside the original site boundary of PBR No. 15 and has been recommended for remediation under another site project. No historical documentation, interview information, or physical evidence substantiates an OE usage or presence in this area. However, due to its proximity to the target area (Area A), which is a confirmed area, OE presence similar to that area can be expected due to ordnance misses (attributed to training bombardier error) potentially landing beyond that target area confines (see plate 2).

e. Area C: Remaining Lands

(1) Area c is considered **uncontaminated**. During a thorough visual inspection of this area, no OE was discovered by the SI team (see plate 2).

(2) No evidence was uncovered to indicate that any part of Area C had an OE related mission. The practice bombing was limited to the target area (Area A). Any practice bombs falling beyond the target area would most likely have been contained in the safety zone (Area B). This area is part of an OHV recreational area used by the public and there have been no reports of any OE related responses/incidents.

8. SITE ORDNANCE TECHNICAL DATA

a. End Item Technical Data

(1) While no comprehensive list of the exact types of ammunition used at the former Victorville PBR #15 could be located, historical and physical evidence suggests the sole use of 100-lb. practice bombs with spotting charges. No evidence exists that chemical warfare materials were ever used at this site.

(2) Table 8-1, has been developed to establish a list of potential ordnance items and their filler that could exist at surface or sub-surface levels within the former site. This table has been developed based on the historical documentation and circumstances for which this area was used.

b. Chemical Data of Ordnance Fillers

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

TABLE 8-1 SUMMARY OF SITE SPECIFIC ORDNANCE			
NAME	MODEL/TYPE	FILLER/weight	FUZE
Bomb Practice, 100- lb	M38A2	Sand/ 100 lbs	
Spotting charge	M1	3 lbs or black powder	

TABLE 8-2 SUMMARY OF SITE ORDNANCE FILLERS		
Explosive Material	Synonyms	Chemical Compounds
Black Powder		
73% Sodium Nitrate	Salt Peter; Niter	NaNO_3
11% Sulfur		S
16% Charcoal		C

9. OTHER ENVIRONMENTAL HAZARDS

a. Hazardous, Toxic, and Radiological

The ASR team did not find any evidence of hazards of any kind, present on this site, that would warrant initiation of a HTRW project.

b. Building Demolition/Debris Removal

There was no evidence found to suggest the presence of any building or debris presence which could be attributed to Department of Defense usage. It is therefore recommended that no BD/DR project be pursued for this site.

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX A

REFERENCE SOURCES

APPENDIX A

REFERENCE SOURCES

The following organizations and personnel are acknowledged for their support.

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES			
Department of Defense			
Defense Technical Information Center Cameron Station Alexandria, VA 22304	Staff	(202) 274-7633	Automated Search
Defense Library on Disk Pentagon Library Room 1A518 Washington, D.C. 20319	Staff	(703) 697-4658	Automated Search
Defense Logistics Studies Information Exchange Fort Lee, VA 23801	Staff	(804) 734-4007	Automated Search
DDESB Database 2461 Eisenhower Ave. Alexandria, VA 22331-0600	Computer Search	(703) 325-8624	No Relevant Site Information
U.S. Army Technical Center for Explosive Safety ATTN: SIOAC-ESL ATTN: SIOAC-ESM Savanna, IL 61074-9639	Reference Center Technical Library	(815) 273-8749 (815) 273-8771	No Relevant Site Information
Defense Mapping Agency ATTN.: PMSC 6001 McArthur Blvd. Bethesda, MD 20816	James Ferguson	(301) 227-2495	Aeronautical Charts

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
U.S. Army			
U.S. Army Center of Military History 1099 14 th Street N.W. Washington, D.C. 20536	Staff	(202) 504-5416	See Appendix B, Section II Parts A & B
U.S. Army Chemical and Biological Defense Command APG, MD 21010	Kathleen Ciolfi	(410) 671-4430	No Relevant Information
U.S. Military History Institute Carlisle Barracks Carlisle, PA 17013	Dennis Vetock John Slonaker	(717) 245-3611	No Relevant Information
U.S. Military History Institute Photo Archives Textual Archives Carlisle Barracks Carlisle, PA 17013	Mike Winey Richard Sommers	(717) 245-3434 (717) 245-3601	No Relevant Information
IOC Historical Office Bldg. 390 Rock Island Arsenal Rock Island, IL 61299	Tom Slattery	(309) 794-1450	No Relevant Information
Rock Island Arsenal Museum Rock Island Arsenal Rock Island, IL 61299	Chris Leinicke	(309) 794-5021	No Relevant Information
HQ, USACE-Office of History 7701 Telegraph Rd. Alexandria, VA 22310	Martin Gordon, Ph.D	(703) 355-3558	See Appendix B, Section II Parts A & B
Army Safety Management Information System Ft. Rucker, AL 36322	On Line Computer	(205) 255-6485	No Relevant Information

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
U.S. Army (cont.)			
U.S. Army Corps of Engineers Los Angeles District 911 Wilshire Blvd. Los Angeles, CA 90017-3401	Deborah Castens Greg Boghossian Richard Nagle Deloris Henderson	(213) 894-2865 (231) 894-3760 (213) 894-2951 (213) 894-5583	Historical Information, Real Estate Reports
U.S. Army Ordnance Museum Aberdeen Proving Ground, MD 21005	Roger Godin	(301) 278-3602	No Relevant Information
759th Ordnance Det. (EOD) Fort Irwin, CA 92301-5051	CPT Grimes 1SG Fortney	(619) 380-4092	See Interview I-3
70th Ordnance Det. (EOD) P.O. Box 6376 San Diego, CA 92166	Sgt. McFarlen	(619) 553-8500	Negative Report
U.S. Army Chemical School Fisher Library Bldg 1081 Fort McClellan, AL 36205-5000	Richard Pastorett	(205) 848-4414	No Relevant Information
U.S. Army Chemical Corps Museum ATTN: ATZN-CM-MM Fort McClellan, AL 36205	Sgt. Major Murray	(205) 848-6555	No Relevant Information
U.S. Army Construction Engineering Research Laboratory Champaign, IL 61820	Pat Lacey	(217) 373-7217	No Relevant Information
U.S. Air Force			
Air Force Historical Research Agency (IRIS) Maxwell AFB, AL 36112-6424	Lynn Gamma Captain Peters	(205) 953-2439 (205) 953-2437	No Relevant Information

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
U.S. Air Force (con't)			
Air Force Real Estate Agency 172 Luke Ave. Suite 104 Bolling AFB, DC 20332-5113	Dave McKinney	(202) 767-6233	No Relevant Information
Air University Library 600 Chennault Circle Maxwell AFB, AL 36112	Leroy Bell	(205) 953-2888	No Relevant Information
U.S. Air Force Museum P.O. Box 1903 Wright-Patterson AFB, OH 45433	Staff	(513) 555-3286	No Relevant Information
Edwards Air Force Base 95 th CEG/CED Edwards AFB, CA	MSGT Hepner TSGT Glinka	(805) 277-2162	See Interview I-4
U.S. Navy			
Marine Corps Historical Center Bldg. 58 Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3483	See Appendix B Section II, Parts A & B
Naval Construction Battalion ATTN: Code 10H-NAVFAC Historian Port Hueneme, CA 93043	Dr. Vince Transano	(805) 982-5913	No Relevant Information

Reference Sources (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
Department of Defense (cont.)			
U.S. Navy (cont.)			
Navy Historical Center Bldg. 57 Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3171	See Appendix B Section II Parts A & B
U.S. Marine EOD Unit Twenty-nine Palms, CA 92272	SGT Phillips	(619) 830-7215	No Relevant Information Not responsible for this area
National Archives Reference Administration			
National Archives Cartographic and Architectural Branch College Park, MD 20740	Staff	(301) 713-7040	See Appendix B Section II, Parts A & B
National Archives Archives I (Modern Military) Pennsylvania Ave & 7th Washington, D.C. 20408	Staff	(202) 501-5385	See Appendix B Section II, Parts A & B
National Archives Archives I (Navy) Pennsylvania Ave & 7th Washington, D.C. 20408	Staff	(202) 501-5385	See Appendix B Section II, Parts A & B
National Archives Archives I (Old Military) Pennsylvania Ave & 7th Washington, D.C. 20408	Staff	(202) 501-5385	See Appendix B Section II, Parts A & B

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
National Archives Reference Administration			
National Archives Archives II (Civil Reference Br) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7040	See Appendix B Section II, Parts A & B
National Archives Archives II (Motion Picture Br) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7060	See Appendix B Section II, Parts A & B
National Archives Archives II (Still Picture Br) 8601 Adelphi Rd. College Park, MD 20740	Staff	(301) 713-6660	See Appendix B Section II, Parts A & B
National Archives Archives II (Textual Br) 8601 Adelphi Rd. College Park, MD 20740	Staff	(301) 713-7250	See Appendix B Section II, Parts A & B
National Archives (Civil and Military) Suitland Reference Branch 4205 Suitland Road Suitland, MD 20409	Staff	(301) 457-7190	See Appendix B Section II, Parts A & B
National Archives Federal Records Center 2400 Avila Road Laguna Nigel, CA 92656	Greg Pearman	(714) 643-4220	See Appendix B Section III, Parts A & B
National Archives Pacific Southwest Region 2400 Avila Road Laguna Nigel, CA 92656	Suzanne Dewberry	(714) 643-4220	See Appendix B Section III, Parts A & B

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
National Archives Reference Administration (con't)			
National Archives Federal Records Center 1000 Commodore Drive San Bruno, CA 94066	Lisa Miller	(415) 876-9009	See Appendix B Section III, Parts A & B
Congress			
Library of Congress Geography and Map Division Washington, D.C. 20536	Contractor	(202) 707-5522	See Appendix B, Section II, Parts A and B
Smithsonian Museum Historical Research Div. Washington, D.C. 20560	Contractor	(202) 357-3133	See Appendix B, Section II, Parts A and B
Department of Agriculture			
Aerial Photography Field Office Salt Lake City, UT 84131	Sherrie Holyoak	(801) 975-3503	No Relevant Information
Consolidated Farm Service Agency 45116 North 13th Street West Lancaster, CA 93534	Doug Brand	(805) 942-9549	Aerial Photos, Site Information
Natural Resource Conservation Service 18484 Highway 18, Suite 195 Apple Valley, CA 92307	Jackie Lindgren Rick Aquay	(619) 242-2906	Provided San Bernardino County Soil Survey

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
Department of Agriculture (con't)			
Natural Resource Conservation Service 222 East Main Street Barstow, CA 92311	Peter Fahnestock	(619) 256-5004	No Relevant Information
Department of Commerce			
NOAA Air Weather Service Federal Bldg. Room 305 Asheville, NC 28801	Janet Wall	(704) 271-4404	Climatic Data
NOAA National Climatic Data Center Federal Bldg. Asheville, NC 28801	Yolanda Goosch Sam McCowan	(704) 271-4272	Climatic Data
Department of the Interior			
Bureau of Land Management Barstow Resource Area 150 Coolwater Lane Barstow, CA 92311	Tim Read Barry Nelson	(760) 255-8711	Real Estate Records
Bureau of Land Management 6221 Box Springs Blvd. Riverside, CA 92507-0714	John Keyes	(909) 697-5383	Dedudding Information
Bureau of Land Management 2601 Barstow Rd. Barstow, CA 92311	Jerry Bronson	(760) 252-6075	See Interview I-2
U.S. Fish and Wildlife 2730 Loker Avenue West Carlsbad, CA 92008	Beth Burr	(619) 431-9440	No Relevant Information

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
FEDERAL AGENCIES (cont.)			
Department of the Interior (con't)			
U.S. Fish and Wildlife Ecological Services 2493 Portola Road, Suite B Ventura, CA 93003	Ray Brandfield	(805) 644-1766	No Relevant Information
U.S. Geological Survey (ESIC) Box 25046, Bldg 810 Denver Federal Center Denver, CO 80225	Tim Hannon Vivian Tarver	(303) 202-4200	No Relevant Information
U.S. Geological Survey (ESIC) Box 25286, Bldg 810 Denver Federal Center Denver, CO 80225	Staff	(303) 202-4700	Topographical Maps
U.S.G.S (ESIC) 1400 Independence Road Rolla, MO 65401	Staff	(307) 358-3644	No Relevant Information
U.S.G.S (ESIC) 507 National Center Reston, VA 22092	Staff	(703) 860-6045	No Relevant Information
STATE AGENCIES			
California SHPO Archeological Information Center 2024 Orange Tree Lane Redlands, CA 92374	Robin Laska	(909) 792-1497	Archeological and Historical Resources
California State Archives 1020 East O Street Sacramento, CA 92415	Mr. Metzger	(916) 653-2246	Referral No Relevant Information

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
GOVERNMENT SOURCES			
STATE AGENCIES (cont.)			
California State Library 914 Capital Hall Library and Courts Bldg. Sacramento, CA 94237-0001	John Gonzales	(916) 654-0176	Negative Information
California State University San Bernardino Library 5500 University Parkway San Bernardino, CA 92407-2397	Librarian	(909) 880-5084	No Relevant Information
LOCAL			
San Bernardino County Archives 777 East Rialto Avenue San Bernardino, CA 92415-0795	Jim Hoffer	(909) 387-2030	No Relevant Information
San Bernardino County Assessor 172 West 3 rd Street San Bernardino, CA 92415-0022	Staff	(909) 387-8307	Real Estate Information
San Bernardino County Flood Control Planning 825 East 3 rd Street San Bernardino, CA 92415	Gary Duncan	(909) 387-2529	No Relevant Information
San Bernardino County Library Lucerne Valley Branch 33103 Old Woman Springs Road Lucerne Valley, 92356	Staff	(619) 248-7521	Referral No Relevant Information
San Bernardino County Library Victorville Branch Victorville, CA 92392	Mr. Booker Ms. Oliver	(619) 245-4222	No Relevant Information

REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
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GOVERNMENT SOURCES

STATE AGENCIES (con't)

LOCAL

San Bernardino County Museum 2024 Orange Tree Lane Redlands, CA 92374	Robin Laska Noella Benvenuti	(909) 798-8570	No Relevant Information
San Bernardino County Planning 385 N. Arrowhead Avenue San Bernardino, CA 92415	Marla Taub	(909) 387-4131	No Relevant Information
San Bernardino County Recorder 222 West Hospitality Lane San Bernardino, CA 92415-0022	Staff	(909) 387-8322	No Relevant Information
San Bernardino County Sheriff and Bomb Squad 655 East 3rd Street San Bernardino, CA 92415	Bill Myers Bob Hall	(909) 387-3598	See Interview I-1
San Bernardino Director of Airports 825 East 3rd Street San Bernardino, CA 92415-0831	Robert Olislagers	(909) 387-2877	No Relevant Information
San Bernardino Public Library 555 West 6th Street San Bernardino, CA 92410	Chris Shovey	(909) 381-8208	No Relevant Information

Non-Government Sources

NATIONAL

Online Computer Library Center 6565 Frantz Road Dublin, OH 43017-3395	Computer Search	(800) 848-5878	No Relevant Information
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REFERENCE SOURCES (cont.)

Organizations	Name	Telephone	Nature of Support
Non-Government Sources			
NATIONAL			
Scientific and Technical Information Library Automatic Retrieval System 689 Discovery Drive Huntsville, AL 35806	Computer Search	(205) 922-9820	No Relevant Information
Knight-Ridder Information, Inc. 2440 El Camino Real Mountain View, CA 94040	Computer Search	(800) 334-2564	No Relevant Information
Northern Illinois Library System 4034 East State Street Rockford, IL 61108	Computer Search	(815) 229-0330	No Relevant Information
Do You Graphics 14827 Old Frederick Road Woodbine, MD 21797-8615	Cindy Gilley	(410) 442-1060	No Relevant Information
LOCAL			
San Bernardino Visitor and Convention Bureau 201 North E Street San Bernardino, CA 92401	Staff	(909) 889-3980	No Relevant Information
Scholarly Resource Inc. 104 Green Hill Avenue Wilmington, DE 19805-1897	Staff	(800) 772-8937	No Relevant Information
Victor Valley Community College Library 18422 Bear Valley Road Victorville, CA 92392-9699	Staff	(619) 245-4271	No Relevant Information

Reference Sources (cont.)

Organizations

Name

Telephone

Nature of Support

Non-Government Sources

LOCAL (con't)

Victor Valley Economic
Development Authority
13246 Eagle Street
Victorville, CA 92394-0000

Richard Cole
Michael Pexton

(619) 246-6115

No Relevant Information

Victorville Chamber
of Commerce
14174 Greentree Boulevard
Victorville, CA 92392

Sally Martinez

(619) 245-6506

No Relevant Information

Victorville Museum
11873 Apple Valley Road
Apple Valley, CA 92308

Walter Day
Evelyn O'Brien

(619) 240-2111

Referral
No Relevant Information

LOCAL INDIVIDUALS

Glenn Brooks

Glenn Brooks

(405) 732-8877

See Interview I-5

Owen Cooper

Owen Cooper

(410) 747-5991

See Interview I-6

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
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PROJECT NUMBER J09CA068101

APPENDIX B

GENERAL REFERENCES AND ABSTRACTS

APPENDIX B

General References and Abstracts

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PART B: NEGATIVE FINDINGS REPORT

SECTION III: REGIONAL NATIONAL ARCHIVES SEARCH

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PART B: NEGATIVE FINDINGS

APPENDIX B

REFERENCES AND ABSTRACTS

SECTION I

BIBLIOGRAPHY

- B-1. Mandatory Plan for Ordnance and Explosive (OE) 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-2. Site Safety Plan for OE Investigations, U.S. Army Corps of Engineers, Rock Island District, dated 25 June 1992, w/Appendix A-209, dated 15 January 1998.
- B-3. Defense Environmental Restoration Program for Formerly Used Defense Sites, Ordnance and Explosive, Archives Search Report Instructions, Version 1.0 with changes, U.S. Army Corps of Engineers, Rock Island District, dated 21 December 1992.
- B-4. CEHND 1115-3-520, Acronyms, Brevity Codes, and Symbols Commonly Used In Ordnance and Explosives (OE) Projects, U.S. Army Corps of Engineers Huntsville, dated September 1995.
- B-5. The US Army Installations of World War I and World War II (with Army Air Corps Fields and Bases), compiled by Mark A. Woolard, dated 1983.
- B-6. TM 9-1900, Ammunition General, War Department, Department of the Army, dated June 1945.
- B-7. TM 43-0001-29, Ammunition Data Sheets, Department of the Army, dated October 1977 w/chg C11, 29 May 1992.
- B-8. Ammunition General Volume 3, Aircraft Bombs, Ordnance School Special Text, OS 9-18, Ordnance School Aberdeen Proving Ground, dated October 1942.
- B-9. Jane's American Fighting Aircraft of the 20th Century, By Michael J.H. Taylor, dated 1991.
- B-10. Air Force Technical Order 60A-2-1-11, US Explosive Ordnance Disposal Procedures, Naval Explosive Ordnance Disposal Facility, dated 28 May 1947.

- B-11. Development of AAF Base Facilities in the United States, 1939-1945, US Air Force Historical Office, dated July 1947.
- B-12. American Warplanes of World War II, Edited by David Donald, AIRtime Publishing Incorporated, dated 1995.
- B-13. World War II United States Aircraft, By Bill Gunston, dated 1985.
- B-14. Local Climatological Data Annual Summary with Comparative Data, Los Angeles, California International Airport, Department of Commerce, National Oceanic and Atmospheric Administration, dated 1993.
- B-15. Local Climatological Data Annual Summary Long Beach, California, Department of Commerce, National Oceanic and Atmospheric Administration, dated 1993.
- B-16. Climatology of the United States NO. 60, Climate of California, Department of Commerce, National Oceanic and Atmospheric Administration, dated 1992.
- B-17. Air Force Technical Order, 60A-1-1-4, U.S. Explosive Ordnance Procedures Protection of Personnel and Property, Revision 2, Prepared by Naval Explosive Ordnance Disposal Technology Center, dated 1 October 1986 with Change 1 dated 16 September 1988.
- B-18. Development of AAF Base Facilities in the United States, 1939-1945, U.S. Air Force Historical Office, dated July 1947.
- B-19. TM 1-409, Aircraft Armament and Pyrotechnics, War Department, dated 30 July 1941.
- B-20. Complete Round Charts, Bombs, AMCP 700-3-4, U.S. Army Material Command, dated December 1968.
- B-21. TM 9-1325-200, Bombs and Bomb Components, Department of the Army, dated April 1966.
- B-22. OP 1664, U.S. Explosive Ordnance, Department of the Navy, dated 28 May 1947 (D-1).
- B-23. TM 9-1904, Ammunition Inspection Guide, War Department, dated 2 March 1944 (D-1).
- B-24. TM 9-1980, Bombs for Aircraft, War Department, dated 15 November 1944 (D-1).

- B-25. Complete Round Charts, No. 5981, dated 1 May 1947 (D-1).
- B-26. Drawing, Charge, Spotting, Assembly, M1A1, (Black Powder), And Details For M1A1, M3 And M4, Drawing #82-3-228, Ordnance Dept., U.S.A., dated 4 June 1956 (D-2).
- B-27. Inventory Project Report: Includes the Site Survey Summary Sheet and the Findings and Determination of Eligibility for DERP-FUDS Site No. J09CA069500, Corps of Engineers, Los Angeles District, dated 25 April 1995 (E-1).
- B-28. Report, Subject: Report on the dedudding of Victorville Bombing Targets, San Bernardino County, California, dated 20 October 1947, NARA, Pacific Southwest Region, RG 270, Records of the War Assets Administration, Box 161 (E-2).
- B-29 Report, Subject: Dedudding Report on Bombing Targets Formerly Assigned to Victorville Army Air Field, dated 25 September 1946, NPRC, St. Louis, 342-53A-4077, 06-23-58-9-3 (E-3).
- B-30. Letter, Subject: Species List for the Former Victorville Precision Bombing Range, San Bernardino County, California, from United States Department of the Interior, Fish and Wildlife Service, dated 19 December 1997 (F-1).
- B-31. Letter, Subject: Historical Records Search, from the California Historical Society, dated 11 December 1997 (F-2).
- B-32. Letter, Subject: Archaeological Records Search, from the Archaeological Information Center, San Bernardino County Museum, dated 11 November 1997 (F-3).
- B-33. Letter, Subject: Land Acquisition, Bombing Ranges for Victorville Army Flying School, Victorville, California, War Department Office of the Chief of Engineers, dated 2 September 1942, NARA, RG 18, Entry Project Files-Airfields 1939 through 1942, Box 1834 (F-4).
- B-34. Memorandum, Subject: Release of Targets 6, 9, 15, "Y", Victorville Army Airfield, Victorville, California, from War Department, Army Service Forces, dated 27 June 1945, NARA, Pacific Southwest Region, RG 270, Box 161 (F-5).

B-35. Warning Notice, Subject: Declaration as surplus of Bombing Targets, Department of the Army Office of the Chief of Engineers, Real Estate, dated 29 June 1945, NARA, Pacific Southwest Region, RG 270, Box 161 (F-6).

B-36. Letter, Subject: Victorville AAF, Calif. - Targets 9 and 15, to Honorable Fred W. Johnson, Commissioner, General Land Office, Department of the Interior, dated 2 October 1945 (F-7).

B-37. Document, Excerpt from Historical Record of Victorville Army Air Field, Victorville, California, 1 January 1943 - 1 March 1944, AFHRA, Maxwell AFB, AL (F-8).

B-38. Document Excerpt, Victorville, Army Air Field, "Historical Record of Victorville, Army Air Field, Victorville, California from 1 November 1944 to 31 December 1944", AFHRA, Maxwell AFB, AL, Call No. 289.40-8, IRIR 00179308 (F-9).

B-39. Excerpt of Contract Status, Contract No. W-509-Eng-2196, Bombing Targets, dated November 1942, Center for Air Force History, Microfilm Roll No. B2647 through Roll No. 2648 (F-10).

B-40. Memorandum, Headquarters, Air Corps Advanced Flying School, Victorville, California, Subject: Information Pertaining to Bombing Ranges, ACAFS, Army Air Base, Victorville, California, dated 13 February 1942, NPRC, St. Louis, RG 342, 342-53A-4077, 06-23-58-9-3 (F-11).

B-41. Letter, United States Engineer Office, 751 South Figueroa Street, Los Angeles, California, Subject: Victorville Army Flying School, Victorville, California - Contract W-509-Eng.2196 - Bombing Targets - Notice of Completion and Release, dated 30 April 1942, NPRC, St. Louis, RG 342, 342-53A-4077, 06-23-58-9-3 (F-12).

B-42. Memorandum, Headquarters, Victorville Army Flying School, Victorville, California, Subject: Abandonment of Target No. 15, dated 12 April 1945, NARA - Archives II, RG 18, Entry 1, Bx 290 (F-13).

B-43. Letter, Army Service Forces, Corps of Engineers, Office of the Division Engineer, South Pacific Division, 351 California Street, San Francisco, California, Subject: Reactivation of Bombing Targets at Victorville AAF for use in Proposed Bullion Mountain Gunnery Range, dated 16 January 1947, NARA - Archives II, RG 18, Entry 2, Bx 2798 (F-14).

B-44. Memorandum, Headquarters, Army Air Forces, Washington D.C., Subject: Transfer of Surplus Facilities, Pacific Division No. 4197-3 (Victorville Army Air Field, California), dated 11 August 1947, NARA - Archives II, RG 18, Entry 2, Bx 2798 (F-15).

B-45. Letter, Subject: Funds for Bombing Target Construction, Victorville Airfield, California, Chief of the Air Corps Buildings and Grounds Division, dated 31 January 1942, NARA, RG 18, Entry Project Files-Airfields 1939 through 1942, Box 1834 (F-16).

B-46. Public Land Order 125, Withdrawing Public Lands for Use of the War Department as Bombing Sites, dated 24 April 1943, NARA - Archives II, RG 48, Entry 749B, Bx 3220 (G-1).

B-47. Realty Control File Summary (ENG Form 1603), date unknown, USACE Office of History (G-2).

B-48. Military Acquisition Project Report (ENG Form 1010), 14 November 1947, NPRC, St. Louis, RG 342, 342-53A-4077, 06-23-58-9-3 (G-3).

B-49. Tract Register (ENG Form 1019), 14 November 1947, NPRC, St. Louis, RG 342, 342-53A-4077, 06-23-58-9-3 (G-4).

B-50. Real Property Management and Disposal Report (ENG Form 836), 15 March 1948, NPRC, St. Louis, RG 342, 342-53A-4077, 06-23-58-9-3 (G-5).

B-51. Plat Map, "Partially Surveyed Township 4 North, Range 5 East of the San Bernardino Meridian, California", San Bernardino County, California, 16 April 1992 (G-6).

B-52. San Bernardino County Parcel List, prepared by DATAQUICK Information Systems, 1998 (G-7).

B-53. Aerial Photograph, San Bernardino County, California, 25 July 1989 (K-1 & K-2).

B-54. Map, Real Estate of Victorville Army Air Field Bombing Ranges, War Department, Office of the Chief of Engineers, Los Angeles, California, 19 September 1945 (L-1).

B-55. Map, Los Angeles Sectional Aeronautical Chart, U.S. Coast and Geodetic Survey, Washington, D.C., 10 August 1944 (L-2).

B-56. Map, Grid Map of Local Flying Area - Victorville Army Air Field, Historical Record of 3035th A.A.F Base Unit, Victorville Army Air Field, Victorville, California, 1 May 1944 - 30 June 1944, AHHRA, Maxwell AFB, AL (L-3).

B-57. Map, Victorville Flying Training Area and Danger Area, Historical Record of Victorville Army Air Field, Victorville, California, 1 January 1943 - 1 March 1944, AFHRA, Maxwell AFB, AL (L-4).

B-58. Map, Bombing Targets (East Range) Victorville Army Air Field, Historical Record of Victorville Army Air Field, Victorville, California, 1 January 1943 - 1 March 1944, AFHRA, Maxwell AFB, AL (L-5).

B-59. Report, Subject: Archives Search Report, Findings, Victorville PBR N-1, Victorville PBR #2, Victorville PBR #7 and Victorville PBR #8, San Bernardino County, California, U.S. Army Corps of Engineers, St. Louis District, June 1995.

B-60. Map, "Data and Water-Table Map of the Mojave River Ground-Water Basin, San Beranrdino County, California, November 1992", Department of the Interior, U.S. Geological Survey, 1995.

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NATIONAL CAPITAL REGION ARCHIVES FINDINGS

PART A

POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 15, CA

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NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 15, CA

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

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Rolls B2647 thru B2649

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

Rolls B2647 thru B2649

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

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

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

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

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

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

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Rolled Map, Army Air Forces Bombing and Gunnery Ranges within the
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Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946
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Memoranda Relative to Policy Regarding Decontamination of Bombing
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Memorandum Relative to Proposed Assignment of Victorville Precision Bombing Ranges to Fourth Air Force, 6 February 1946

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

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

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

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

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946
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Memoranda Relative to Declaration of Victorville Army Airfield as Excess Leased Property, 26 December 1946 - 18 February 1947

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

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

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

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Entry 749B: Central Classified Correspondence, 1937 - 1953

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Entry 1011: Security Classified Subject Files, 1940 - 1945

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Contract Documents, Victorville Military Airport Bombing Target
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Correspondence and Report Relative to Additional Facilities Construction,
Victorville Army Airfield, 6 October 1944 - 31 March 1945

Entry 1011: Security Classified Subject Files, 1940 - 1945

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Memorandum Relative to Declaration of Victorville Bomb Target No. 15
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Construction Program at Air Corps Stations, Advanced Twin
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Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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

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

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

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

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

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Entry 102: Office, Administrative Assistant to the Secretary of War, Project Decimal File, 1943 - 1946

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Entry 12: Central Real Property Surveys
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Department of Defense Installation Survey Report, George Air Force
Base, Victorville, California, 24 October 1973

***U.S. ARMY CORPS OF ENGINEERS - OFFICE OF HISTORY
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Real Estate Records

Realty Control File Summary Sheet
Victorville Precision Bombing Range No. 15

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

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

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

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

Entry: 9th Corps Area, Office of the Engineer

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Entry 17: General Correspondence of the Office of the Secretary of Agriculture,
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Entry 46: The Air Inspector, Decimal File, 1945 - 1947

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

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

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

RG 30 (Record of the Bureau of Public Roads)

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

Entry 27: Correspondence and Related Records, 1906 - 1945

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

Entry 106B: General Correspondence, 1918 - 1945

Entry 1014: General Correspondence with Divisions, 1941 - 1945

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Entry 1892: Classified Geographic File, 1936 - 1945

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

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

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

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

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

Entry 127: Office, Special Consultant to the Secretary of War, John D. Russell's File, 1942 - January 1946

Entry 159: Special Assistant for Construction, M. J. Madigan, Projects, 1940 - 1945

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

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

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

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Entry 1036B: Historical Files, 1908 - 1962

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Entry 26D: General Correspondence, 1939 - 1947

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Entry 25: Director, Plans and Operations, Liaison and Control Branch, Subject File, 1942 - 1944

Entry 138: Readjustment Division, Central Decimal Files, 1943 - 1944

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RG 337 (Records of Headquarters, Army Ground Forces)

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

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

Entry 55A: Ground Adjutant General Section, Records Division, Project Decimal File, March 10, 1942 - 1943, 1946 - 1947

Entry 57: General Headquarters, US Army Special Staff

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

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

Entry: Ninth Service Command

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

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Entry: "Sarah Clarke" Decimal Correspondence File

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REGIONAL NATIONAL ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

VICTORVILLE PBR NO. 15

**NARA, NATIONAL PERSONNEL RECORDS CENTER
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RG 18, Records of the Army Air Forces

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Dwg, Regional Map of VAAF & Satellite Facilities, Sept. 1943

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

Accession #342-53A-4077

Box #06-23-58-9-3

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

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

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

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

Memo, Subj: Abandonment of Target No. 15, 12 April 1945

Accession #342-47A4227

Box #06-23-58-9-5

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

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

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

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

Memo, Subj: Teletype SBCON-2-2 dated 4 Feb 47, 10 Feb 1947

Paper, Statistical Data Bombing Ranges, Victorville Army Air Field, (as Reflected by VAAF Records 11 March 1947)

NARA, PACIFIC REGION (LAGUNA NIGUEL)
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RG 77, Records of the Office of the Chief of Engineers

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Memo, Subj: Abandonment of Target No. 15, 12 Apr 1945,
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Memo, Subj: Abandonment of Targets Nos. 6, 9, and 15, and Y
and Z, Victorville AAF, 11 Jun 1945

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,
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Memo, Subj: Declaration as Excess, Auxiliary Installations
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Memo, Subj: Cost of Deduidding - Victorville Bombing Targets,
13 Nov 1946

Memo, Subj: Supplemental Deduidding Operations at VAAF,
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Memo, Subj: Supplemental Authorization of Funds for
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Box #27

Realty Control File Summary, Undated

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

Memo, Subj: Abandonment of Targets Nos. 6, 9, and 15, and Y
and Z, Victorville AAF, 11 Jun 1945

Warning Notice, Declaring Bombing Target 15 as Surplus
Property, 29 Jun 1945

Memo, From Director of Real Estate to DOI, Re: Public Land
Order No. 125, 2 Oct 1945

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

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

Memo, Subj: Report on the Deduidding of Victorville Bombing
Targets, San Bernardino County, 20 Oct 1947

Military Acquisition Project Report, Victorville PBR #15,
14 Nov 1947, w/Tract Register
Real Property Management and Disposal Report, Victorville
PBR #15, 15 Mar 1948
Final Project Ownership Map, 3 Dec 1947
Final Project Ownership Map, Victorville Bombing Ranges,
19 Sep 1945
Location Map, Victorville Bombing Targets, 27 Nov 1944

SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

VICTORVILLE PBR NO. 15

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

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

RG 49, Records of the Bureau of Land Management
All Entries
Nothing Found

RG 71, Records of the Bureau of Yards and Docks
All Entries
Nothing Found

RG 77, Records of the Office of the Chief of Engineers
Accession #077-96-0134
Box #5
Nothing of Value to this ASR Found

RG 92, Records of the Quartermaster General
All Entries
Nothing Found

RG 156, Records of the Chief of Ordnance
All Entries
Nothing Found

RG 219, Records of the Office of Defense Transportation
All Entries
Nothing Found

RG 269, General Records of the General Services Administration
All Entries
Nothing Found

RG 270, Records of the War Assets Administration
All Entries
Nothing Found

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

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

RG 342, Records of U.S. Air Force Commands, Activities, and
Organizations
All Entries
Nothing Found

***NARA, NATIONAL PERSONNEL RECORDS CENTER
ST LOUIS, MO***

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

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

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

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

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

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

RG 49, Records of the Bureau of Land Management
All Entries
Nothing Found

RG 77, Records of the Office the Chief of Engineers
Accession #75Q1061
Boxes #1-3
Nothing of Value to This ASR Found

RG 92, Records of the Office of the Quartermaster General
All Entries
Nothing Found

RG 111, Records of the Chief Signal Officer
All Entries
Nothing Found

RG 112, Records of the Surgeon General (Army)
All Entries
Nothing Found

RG 121, Records of the Public Buildings Service
Accession #9NSS-121-87-001
Boxes #1 and 9
Nothing of Value to This ASR Found

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

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

RG 156, Records of the Office of the Chief of Ordnance
All Entries
Nothing Found

RG 219, Records of the Office of Defense Transportation
All Entries
Nothing Found

RG 269, General Records of the General Services Administration
All Entries
Nothing Found

RG 270, Records of the War Assets Administration
All Entries
Nothing Found

RG 291, Records of the Federal Property Resources Service
Accession #9NSS-291-93-002
Box #19
Nothing of Value to This ASR Found

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

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX C

GLOSSARY

APPENDIX C

Glossary

AAF	Army Air Forces
AAFWCACTC	Army Air Force West Coast Air Corps Training Center
ASR	Archives Search Report
ATTN	Attention
BD/DR	Building Demolition/Debris Removal
BLM	Bureau of Land Management
CADD	Computer Aided Design
CEHNC	US Army Corps of Engineers, Engineering and Support Center
CEMVR	US Army Corps of Engineers, Rock Island District
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CESPL	US Army Engineer District, Los Angeles
CON	Container
CWM	Chemical Warfare Material
DA	Department of Army
DDESB	Department of Defense Explosive Safety Board
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DET	Detachment
DOD	Department of Defense
DOI	Department of Interior
E	East
EE/CA	Engineering Evaluation/Cost Analysis
ELF	Extremely Low Frequency
EOD	Explosive Ordnance Disposal
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Site(s)
GP	General Purpose
HE	High Explosive
HTRW	Hazardous, Toxic and Radiological Waste
HTW	Hazardous and Toxic Waste
INPR	Inventory Project Report
IRP	Installation Restoration Program
MCX	Mandatory Center of Expertise
N	North
NE	Northeast
NO	Number
NW	Northwest
OE	Ordnance and Explosives
OHV	Off Highway Vehicle
Ord	Ordnance
OS	Ordnance School
PA	Preliminary Assessment

PBR	Precision Bombing Range
PN	Project Number
PRP	Privately Responsible Party
QASAS	Quality Assurance Specialist Ammunition Surveillance
RA	Remedial Action
RAC	Risk Assessment Code
RG	Record Group
SE	Southeast
SHPO	State Historical Preservation Office
SI	Site Investigation or Site Inspection
SIOAC-ES	US Army Technical Center for Explosive Safety
SW	Southwest
TM	Technical Manual
USA	United States Army
USACE	United States Corps of Engineers
USGS	United States Geological Survey
WAA	War Assets Administration
WCACTC	West Coast Air Corps Training Center
WFTC	Western Flying Training Command
WWII	World War 2

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX D

TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

Table of Contents

- D-1. Practice Bomb, 100-pound, M38A2 (B-22 thru B-25).
- D-2. M1 Spotting Charge (B-26).

BOMBS FOR AIRCRAFT

Chapter 8

Practice and Drill Bombs

GENERAL.

Practice Bombs. Practice bombs are used during both peacetime and wartime. Their chief function is to enable Air Corps bombardiers to practice their marksmanship with bombs which resemble real bombs closely enough to assure that a hit with a practice bomb would be a hit with a real bomb. A secondary function is to give ordnance personnel practice in assembling, fuzing, and handling bombs.

Development. Practice bombs in contrast to other practice ammunition are not made by using the same case as the H.E. round and filling it with a spotting charge. Obviously it would be too expensive to drop large GP bombs, sand filled with a spotting charge and fuze added for practice. Therefore, the search for a cheap bomb was initiated.

The first real practice bomb used by the Army was water filled. This bomb had no spotting charge but depended entirely upon the resultant splash to inform the bombardier of his accuracy. This type was unsatisfactory for the following reasons:

The water froze at high altitudes.

The water moved and caused the bomb to waver in flight.

The splash could not be seen from high altitudes.

Another bomb was developed using sand and water as the filler. This gave the bomb added weight and prevented the water from swishing around during flight. To increase its visibility at the point of impact, a spotting charge was added in the tail end of the bomb. This was in the form of a smoke compound confined in a glass bottle. This compound on exposure to air immediately formed a cloud of smoke. However, it was found unsatisfactory because of the following:

The glass bottle burst at high altitudes.

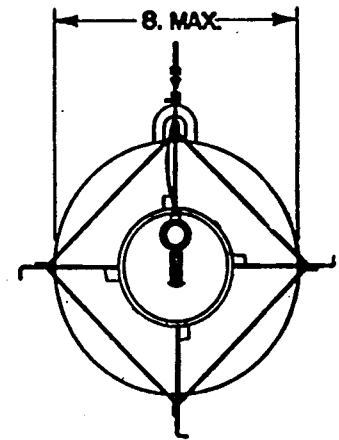
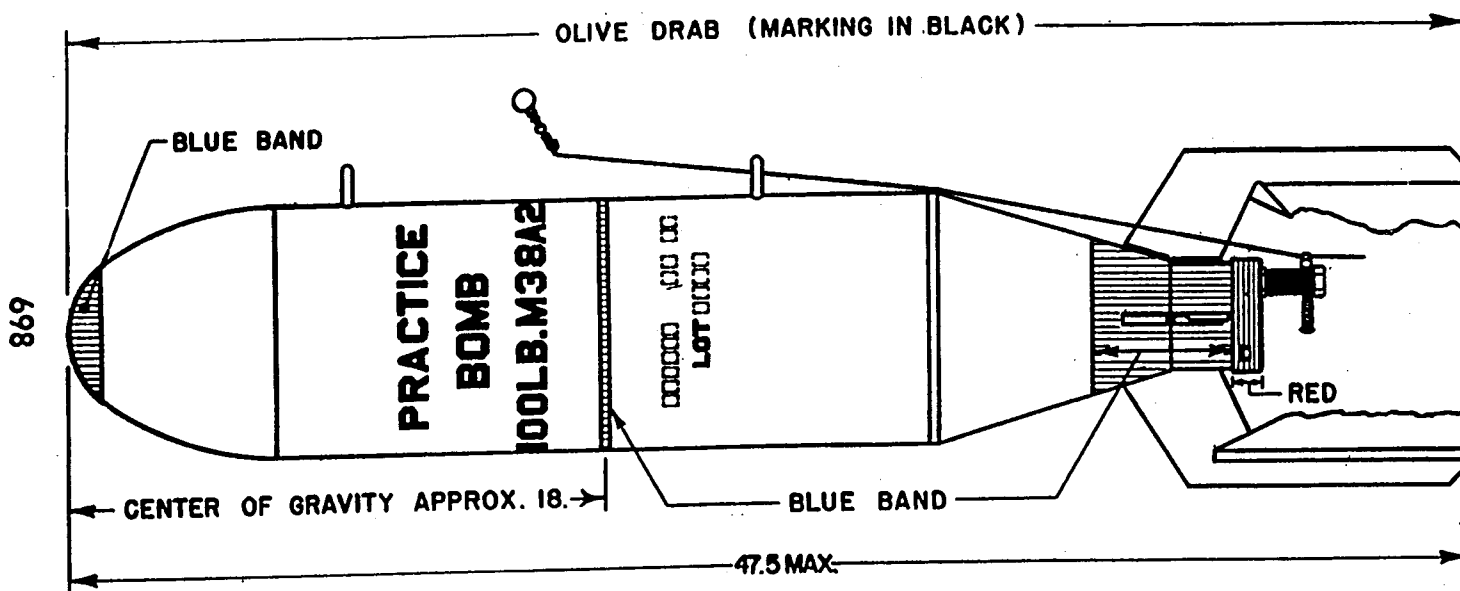
The cap loosened under high pressure or temperatures.

The contents froze and broke the bottle at high altitudes.

In any of these cases, the plane became filled with smoke.

At this point, it was decided to use the empty bomb bodies of the Mark series from the first World War as practice bombs and at the same time to continue the search for a satisfactory cheap bomb. The Mark series used, consisted of bombs 17, 25, 40, 50, 100, and 300 pounds in weight. Sand, a spotting charge, a fuze (either nose or tail) and a primer detonator wherever necessary were added to the bomb body to make for a practice bomb.

Finally the 100-pound M38, later modified in several respects so as to become the M38A2, was developed as the standard practice bomb for demolition bombing. In the subsequent pages, the bombs



RA FSD 436A

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

BOMBS FOR AIRCRAFT

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

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

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

BOMB, PRACTICE, 100-POUND, M38A2.

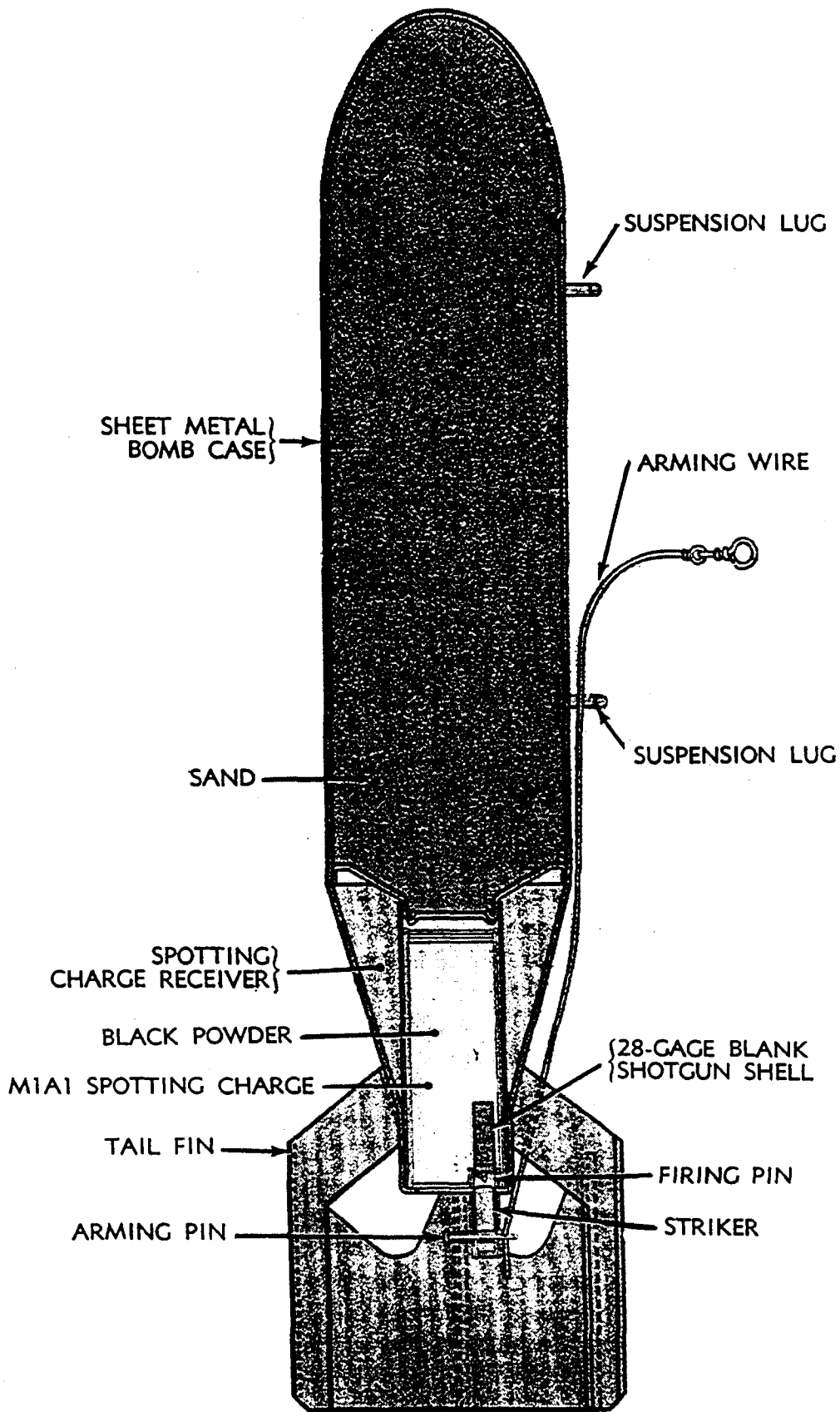
General. This bomb is used to give practice in demolition bombing. It is a thin case bomb, easy to manufacture, cheap in cost, and accurate in use. The bomb case cannot be reused after it has once been dropped in practice.

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

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

Two suspension lugs are bolted to the bomb body during fabrication. The tail portion ends in a box type tail fin which has one blade in line with the suspension lugs. The over-all length of the bomb body is 47 1/4 inches. When empty, the bomb body weighs approximately 14 pounds. When completely loaded with sand (approx. 80 lb) and spotting charge, the weight of the bomb is approximately 100 pounds. The cost of the empty bomb body is approximately \$1.50. When

AMMUNITION INSPECTION GUIDE



RA PD 23024

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

BOMBS FOR AIRCRAFT

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

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

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

To assemble the spotting charge, about 80 pounds of sand is first added to the bomb. This requires filling to within $\frac{1}{4}$ inch of the receiver with sand. No water is ever to be added to the sand. The receiver cover disc is then inserted and the spotting charge is placed in the receiver so that the cotter pin is alined with the two suspension lugs. The two holes in the spotting charge cap are alined with the two ears projecting from the receiver sleeve. A slight force will cause the spotting charge cap holes and receiver ears to engage. A wooden tool is used to facilitate this action. This prevents longitudinal or rotational motion of the spotting charge in the receiver. The arming wire is placed through the inner hole of the arming pin after being threaded through the rear suspension lug. The arming wire is adjusted so as to protrude 2 to 3 inches beyond the arming pin. No safety clip is to be used.

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

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

BOMBS FOR AIRCRAFT

powder spotting charge. The black powder produces a puff of white smoke at the point of impact to indicate where the bomb has struck. The bomb body is not reusable after dropping.

Packing. The bombs are packed 1 per cardboard container, empty. The spotting charges are packed 20 to the box. They are shipped separately.

Complete Round Components. Components necessary for a complete round consist of the following:

BOMB, practice, 100-pound, M38A2, less spotting charge

CHARGE, spotting, assembly M1A1, Practice Bomb, 100-pound,
M38A2

Wire, arming, type A

ARMY PRACTICE BOMBS

3-pound AN-Mk 5 Mod 1

See Navy practice bombs.

20-pound M48

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

23-pound M71 and M71A1

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

100-pound M38A2

Over-all length, inches.....	47.5
Diameter, inches.....	8.13
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.

100-pound M75

Length, inches.....	47.0
Diameter, inches.....	8.0
Filler, hematite, pounds.....	72
Total weight, pounds.....	101.3

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

100-pound M85

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

Spotting Charges (Army)

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 2¼-pound dark smoke filling and a black-powder igniter. It is ⅝ inch longer than the Spotting Charge M1A1, but otherwise is like it. The M3, with

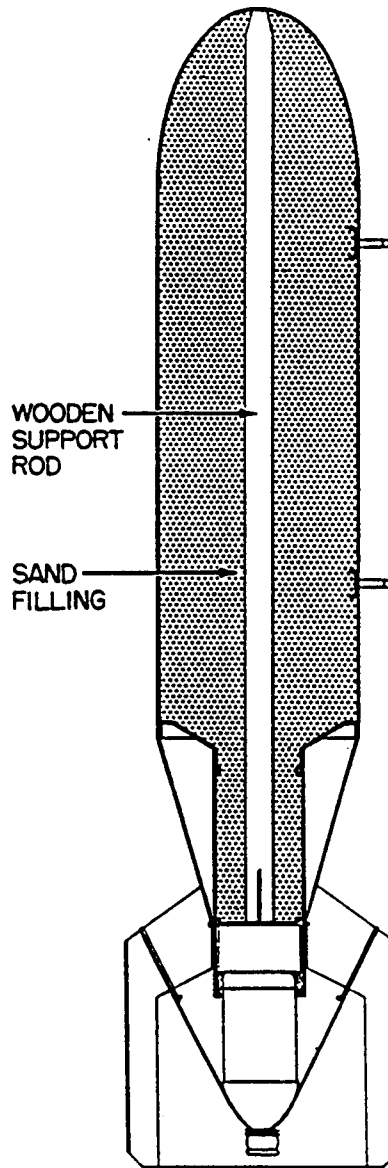


Figure 314. 100-pound Practice Bomb M38A2

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.

M5
 Over-all length, inches.....7.37
 Diameter, inches.....2.95

MaterialGlass
 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.

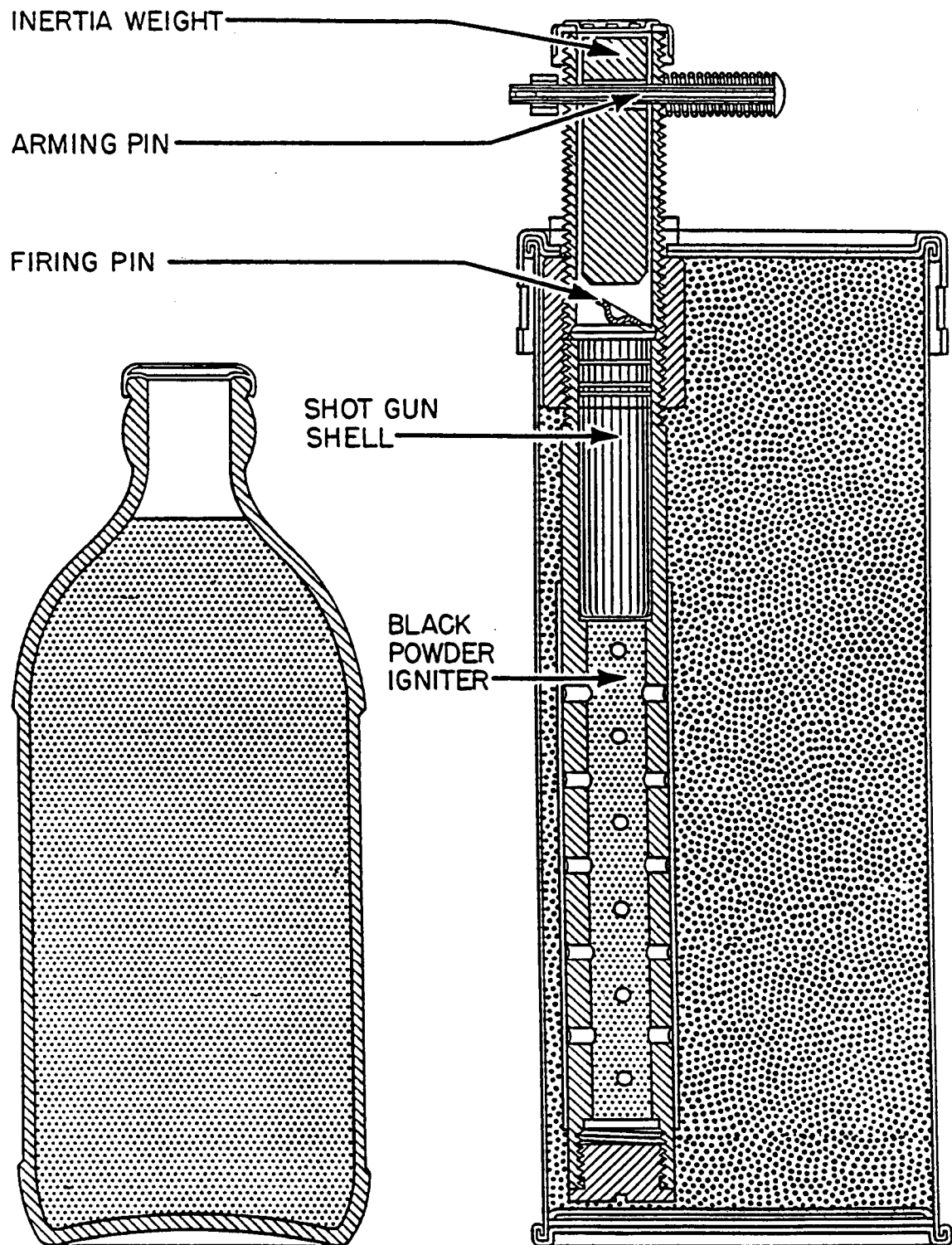


Figure 316. Spotting Charges M3 (right) and M5 (left)

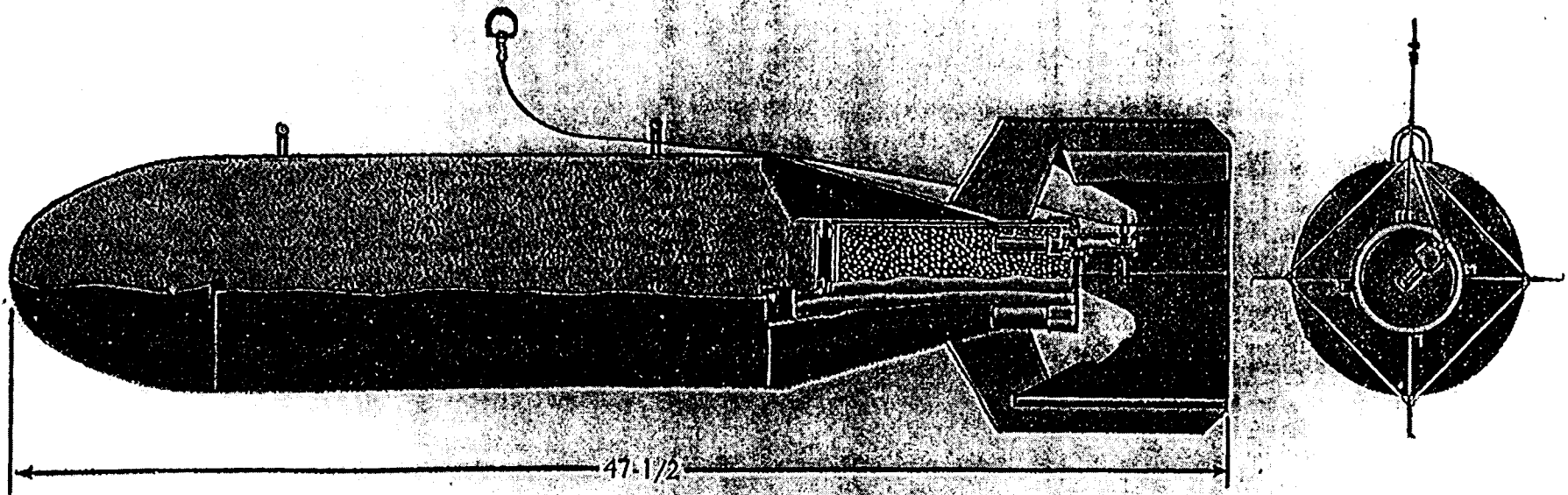
124. BOMB, PRACTICE, 100-LB., M38A2. α. Data. BOMB, practice, 100-lb., M38A2, is a round-nosed cylindrical bomb designed to simulate general-purpose bombs. (See fig. 117.) It is 47.5 inches long and 8.13 inches in diameter. As issued, the fins are assembled to the bomb body which is empty for sand loading in the field. The empty bomb weighs 15.7 pounds, sand filled; with spotting charge assembled, it weighs 100 pounds. The spotting charge is assembled in a sleeve at the base of the bomb, within the fin box.

b. Spotting charge. The authorized spotting charges are CHARGE, spotting, assembly, M1A1, M3, and M4. These assemblies consist of a 3-pound charge and an integral fuze consisting of an inertia type firing pin restrained by an arming pin, with a blank loaded shotgun shell for a primer. The M3 produces a large amount of black smoke and is authorized for use over ranges completely covered with snow. The M4 is authorized for use on ranges equipped with sonic spotting devices. The M1A1 is authorized for all other uses.

c. Assembly. To assemble the complete round, the following procedure may be used:

(1) *Load with sand to weight:* Remove the bomb from the carton and inspect for serviceability. Remove the closing cover from its place in the sleeve. Place the bomb upright and fill completely with a uniform sand mixture. Shake the load down well so that there will be no room for it to shift. If a lighter loading is desired, mix sawdust or sifted ashes with the sand. The bomb must be filled, and the loading material must be uniform. Press the closing cap into place.

(2) *Assembly spotting charge:* Insert spotting charge assembly and seat firmly with arming pin pointing away from bomb suspension lugs. Pass arming wire through rear suspension lug and then through eyelet in arming pin. Adjust to protrude 2 to 3 inches.



RA PD 26798

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

PRACTICE AND TARGET BOMBS

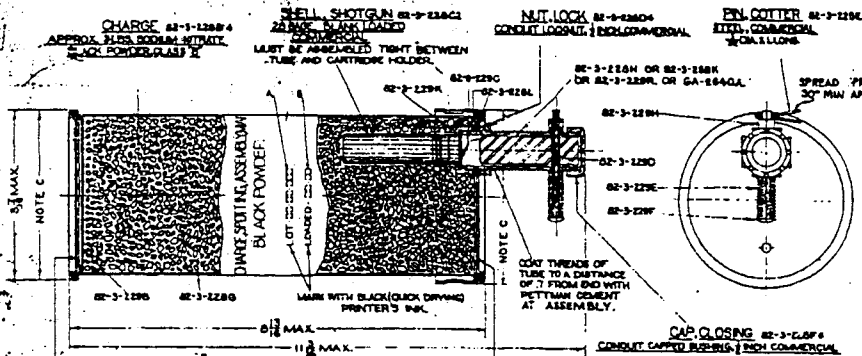
NOTES	BOMB										ADAPTER-BOOSTERS		FUZES			PRIMER-DETONATORS				PACKING					Assembly No.	
	TYPE	Assembly Complete Drg. No.	DRG. NO.	Weight Loaded and Fuzed Lb.	Spotting Charge			Inert Charge		TAIL		NOSE		TAIL		NOSE		TAIL		BOMB Body Drg. No.	FUZE		PRIMER-DETONATORS			
					Type	Drg. No.	Wt. Lb.	Wt. Lb.	Kind	Designation	Drg. No.	Designation	Drg. No.	Designation	Drg. No.	Designation	Drg. No.	Designation	Drg. No.		Nose Drg. No.	Tail Drg. No.	Nose Drg. No.	Tail Drg. No.		Container Drg. No.
S	Prac., 23 Lb., M71 h	82-0-91	82-3-253	21.1		None						None		None						20-4-386						1
S & M	Prac., 23 Lb., M71A1 h	82-0-91	82-3-253	21.1		None						None		None						20-4-386						2
																										3
S	Prac., 23 Lb., M73 j	82-0-91	82-3-253	21.		None						None		None						20-4-386						4
S	Prac., 23 Lb., M73A1 j	82-0-91	82-3-253	21.		None						None		None						20-4-386						5
																										6
S & M	Prac., 100 lb., M36A2	82-0-23	82-3-213	100.	M1A1 ^a	82-3-228	4.25	80	Sand			None	a	82-3-228						76-16-391		76-16-214				7
S	Prac., 100 lb., M85 c	82-0-96	82-3-405	103.5	M1A1 ^a	82-3-228	4.25	95	b			None	a	82-3-228						82-3-407		76-16-214				8
																										9
S	Target, Prac., 100 lb., M75 m	82-0-97	82-3-409	101.2		82-14-45	72. ^d					M108 ^e	73-8-44		None					76-16-409	76-16-238					10
S & M	Target, Prac., 100 lb., M75A1 m	82-0-97	82-3-409	101.2		82-14-45	72. ^d					M108 ^e	73-8-44		None					76-16-409	76-16-238					11
																										12
																										13
																										14

S - Issue.
M - Manufacture.
Prac. - Practice.

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

ISSUED - September 6, 1924

REVISED - 1 May 1947



82-3-2284
BEFORE GRAMMING LID TO CAN,
SECURE DISC TO LID WITH
3 GAL. SPOT WELDS ON
1 INCHES, EQUALLY SPACED.

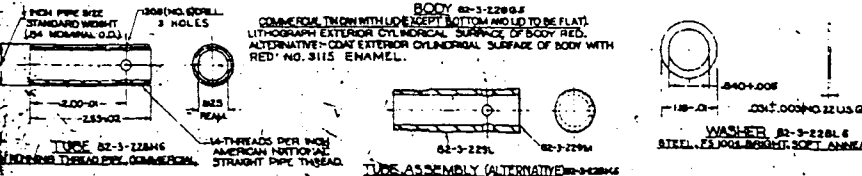
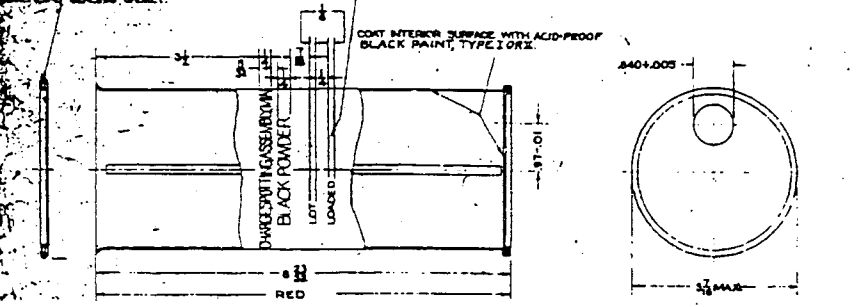
ASSEMBLY 82-3-2284
FOR MIM ONLY.

82-3-2284
SECURE COVER TO END
WITH 1-1/2 GAL. SPOT
WELD ON 1 INCHES
ALTERNATIVE-SECURE COVER
TO END WITH 1-1/2 GAL. SPOT
ROUND HEAD RIVET.

82-3-2284
MARK WITH BLACK (QUICK DRYING)
PRINTER'S INK.

82-3-2284
CONCRETE LOGS (MIL) / COMMERCIAL

NOTES: A - INDICATE LOT NUMBER.
B - INSERT DATE OF LOGGING (MONTH AND YEAR).
SAMPLE MARKING - LOT # 12-248 LOADED 8-43
COAT ENTIRE EXTERIOR SURFACES OF LID AND
COVER WITH RED NO. 3115 ENAMEL.



LIST OF PARTS

LINE NUMBER	NAME OF PART	QUANTITY REQUIRED PER COMPONENT	PIECE-MARK	MATERIAL				APPROPRIATE UNIT NUMBER	APPROPRIATE W.P. OF BODY OF ASSEMBLY	REMARKS
				SIZE OR FORM	KIND	GRADE	SPEC. NUMBER			
1	ASSEMBLY						MIL-C-1883	4-25		
2										
3	TUBE ASSEMBLY (ALTERNATIVE)		82-3-2283							
4	TUBE ASSEMBLY (ALTERNATIVE)		6A-2640A							
5	BODY		82-3-2284	SHEET	TIN PLATE		COMMERCIAL	36		
6	CAP CLOSING		82-3-228F	CASTING				03	(1)	
7	CAP TUBE (ALTERNATIVE)		82-3-228M	SHEET	TERNE SHEET (LONG TURNS) TYPE CLASS B	2	QQ-T-19		(1)	
8	CHARGE		82-3-228B		BLACK POWDER (SOODIUM NITRATE)		CLASS B	JAN-P-362	100	
9	COVER		82-3-228H	SHEET	STEEL		FS-1009	00-3-00840	27	
10	DISC		82-3-228A	SHEET	STEEL		FS-1009	00-5-00840	14	
11										
12	HOLDER, CARTRIDGE		82-3-228K	CASTING					02	
13	NUT LOCK		82-3-228D	STEEL			COMMERCIAL	02	(1)	
14										
15	PIN, ARROWS		82-3-228P		STEEL		COMMERCIAL	02	(1)	
16	PIN, CUTTER		82-3-228E		STEEL		COMMERCIAL	02	(1)	
17	PIN, FIRING		82-3-228C		STEEL		COMMERCIAL	02	(1)	
18	PLUNGER		82-3-228Q	BAR	STEEL		FS-1008	00-3-00840	01	
19	SEPARATOR		82-3-228D	SHEET	CHAMPBOARD		COMMERCIAL	02		
20	SPRAY, SHOTGUN (BLANK LOADED)		82-3-228C	EN CASE			COMMERCIAL	02		
21	SPACER		82-3-228H	TUBING	STEEL		COMMERCIAL	01	(1)	
22	SPRING, SAFETY PIN		82-3-228E	WIRE	STEEL WIRE, MUSIC SPRING		QQ-W-470	01	(1)	
23	TUBE		82-3-228H	PIPE	IRON		COMMERCIAL	14	(1)	
24	TUBE (ALTERNATIVE)		82-3-228H	PIPE	BLACK IRON PIPE		COMMERCIAL		(1)	
25	TUBE (ALTERNATIVE)		82-3-228H	PIPE	BLACK IRON PIPE		COMMERCIAL		(1)	
26	WARNER		82-3-228L	SHEET	STEEL		FS-1009	00-5-00840	01	
27										
28					CEMENT, PETTYMAN		JAN-C-99			
29					INK, BLACK, PRINTER'S		COMMERCIAL			
30					ENAMEL, RED NO. 3115		MIL-E-1087			
31					PAINT, ACID-PROOF BLACK		TYPE 1 OR 2	JAN-P-450		
32					RIVET, STEEL, ROUND HEAD		COMMERCIAL		(1)	

LIST OF SPECIFICATIONS

LINE NO.	SPEC NUMBER	REQUIRED BY
1	AMMUNITION, EXCEPT SMALL ARMS AMMUNITION, GENERAL SPEC. FOR	MIL-C-25000 82-3-228
2	CEMENT, PETTYMAN	JAN-C-99 82-3-228
3	CHARGE, SPOTTING (BLACK POWDER, 43308 AND RACING)	MIL-C-1883 82-3-228
4	ENAMEL, LUSTERLESS, QUICK-DRYING (FOR AMMUNITION)	MIL-E-1087 82-3-228
5	PAINT, ACID-PROOF BLACK	JAN-P-450 82-3-228
6	PLATING, CADMIUM (ELECTRODEPOSITED)	QQ-Z-325 82-3-228
7		
8		
9	POWDER, BLACK, SOODIUM NITRATE	JAN-P-362 82-3-228
10	STEEL, CARBON, BARS (GENERAL PURPOSE)	QQ-A-433 82-3-228
11	STEEL, CARBON, SHEET AND STRIP	QQ-S-694 82-3-228
12	WIRE, STEEL, HIGH CARBON SPRING, BRIGHT MUSIC	QQ-W-470 82-3-228
13	TERNE SHEET (LONG TURNS)	QQ-T-19 82-3-228
14	ZINC PLATING (ELECTRODEPOSITED)	QQ-Z-325 82-3-228
15		

THE SPECIFICATION AND STANDARD NUMBERS SHOWN ARE BASIC NUMBERS ONLY. THE REVISED A LETTER IS AFFIXED TO ITS BASIC NUMBER.

LIST OF DRAWINGS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ASSEMBLY	82-3-228		
2	DETAILS	82-3-228		
3	BOX PACKING	82-3-228		
4	PACKING AND MARKING OF BOX	82-3-228		
5	HOLDER CARTRIDGE (ALTERNATIVE)	82-3-228		
6	TUBE ASSEMBLY (ALTERNATIVE)	82-3-228		
7				

SUPERSEDES OLD TRACING 82-3-228 UNDER REVISION DATE OF NOV. 26, 1943.

CHARGE, SPOTTING ASSEMBLY, MIAI, (BLACK POWDER), AND DETAILS FOR MIAI M3 AND M4.

AUGUST 16, 1943

REVISIONS

NO.	DATE	DESCRIPTION
1	8-16-43	
2	8-16-43	
3	8-16-43	
4	8-16-43	
5	8-16-43	
6	8-16-43	

DRG PERTAINS TO

82 3 228

DRONANCE DEPT. U.S.A.

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX E

REPORTS/STUDIES

APPENDIX E

Reports and Studies

Table of Contents

- E-1. INPR, dated 3 July 1991 (B-27)
- E-2. Report on Dedudding, dated 1947 (B-28)
- E-3. Dedudding Report, dated 25 September 1946 (B-29)

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR FORMERLY USED SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY
VICTORVILLE PRECISION BOMBING RANGE NO. 15
BARSTOW, CALIFORNIA
SITE NO. J09CA068100

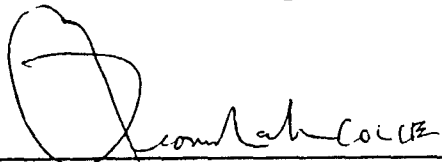
FINDINGS OF FACT

1. On May 20, 1943, the Department of Defense (DOD) acquired a total of 640 acres of Public Domain from the Department of Interior (DOI) through a government agency transfer by means of Public Land Order No. 125.
2. Victorville Precision Bombing Range (PBR) No. 15 was used by the U.S. Army air force as a practice bombing range. This site was used in conjunction with the Victorville Army Air Field (now the George Air Force Base). Site improvements consisted of the light oil on grade target outlines, frame butts appurtenances, fences, and gates. There were no government buildings or auxiliary facilities on-site.
3. On June 22, 1945, DOD declared the Victorville PBR No. 15 site, totaling 640 acres, as surplus to the War Assets Administration (WAA). The WAA authorized the retransfer of the property to DOI on June 22, 1945, and custody was relinquished by letter on October 2, 1945. Public land order No. 422 dated January 30, 1948, partially revoked Public Land order No. 125, thereby allowing DOI to officially assume custody of the property. The site was cleared of explosive ordnance, and all detachable improvements were removed. The oiled target outlines were allowed to deteriorate by weathering. DOD made no provisions for restoration. Currently, the property is maintained by the DOI Bureau of Land Management.

DETERMINATION

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

3 July 91
DATE



FOR ROGER F. YANKOUBE
Brigadier General, U.S. Army
Commanding

SITE SURVEY SUMMARY SHEET
FOR
SITE NO: J09CA068100

SITE NAME: Victorville Precision Bombing Range No. 15

LOCATION: Barstow, California

DESCRIPTION OF PROBLEM: None

SITE HISTORY: The Department of Defense (DOD) acquired the land from the Department of Interior (DOI) through a government agency transfer by means of Public Land Order No. 125 in 1943. The property was relinquished to DOI in 1945. The site is vacant of structures or inhabitants and exists as Public Domain. Trash and numerous tire tracks indicate the area is used for recreational purposes. On-site evidence of DOD activities consists of remnants of practice bombs, however, this debris does not constitute a hazard under normal circumstances. There is no evidence of unsafe debris, hazardous or toxic materials, or unexploded ordnance resulting from DOD use of the site. State, county, and local agencies were contacted and have no records of any hazardous or toxic waste sites that are co-located or adjacent to the Victorville PBR No. 15 site.

AVAILABLE STUDIES AND REPORTS: None

CATEGORY OF HAZARD: Not applicable

BASIS FOR DETERMINATION OF DOD RESPONSIBILITY: Not applicable

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

STATUS: Currently, the property is maintained by the DOI Bureau of Land Management.

DESCRIPTION OF PROPOSED REMEDIAL ACTION: Not applicable

ESTIMATED COST: None.

PROJECT SUMMARY SHEET
FOR
DERP-FUDS OE PROJECT NO. J09CA068100
VICTORVILLE PRECISION BOMB RANGE NO. 15
BARSTOW, CALIFORNIA
SITE NO. J09CA068100

PROJECT DESCRIPTION: The Victorville Precision Bombing Range (PBR) No. 15 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.

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
9800 TSU DETACHMENT NO. 14
BOMB AND SHELL DISPOSAL TEAM

20 October 1947

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

TO: Division Engineer
South Pacific Division
Corps of Engineers, War Dep't.
Oakland Army Base
Oakland 14, California

1. The 9800th TSU-CE Detachment #14, Bomb & Shell Disposal Team, was assigned the clearing of the Victorville Bombing Targets, Victorville, California under Surplus Real Estate Directives, South Pacific Division Numbers: Z-2571-3, X-3019-4, Z-3020-4, X-3021-4 and Los Angeles District Numbers: Z-1264-3, X-1480-4, Z-1481-4, 1482-4. These Directives cover the dedudding of target Numbers: 6, 8, 9, 15, Y, 1-Z and 2-Z, a total of 9,029.35 acres. The dedudding operations of said targets began 7 July 1947 and were completed 18 October 1947.
2. Five laborers, hired through the Los Angeles District Engineers, and the personnel of the Detachment made up the searching party. Two Project Engineers were also furnished by the Los Angeles District Engineers.
3. The total man-hours, including Civilian and Detachment labor, was 8200 hours. The total Civilian field cost (Salary and Per Diem) was \$8166.00.
4. A team made up of one Project Engineer and one Sergeant from the Detachment surveyed and marked the boundaries of each range ahead of the search crew. The other Project Engineer, in conjunction with a Detachment Sergeant, controlled the search crew.
5. Targets 6, Y and 1-Z are located upon dry lake beds. Targets 8, 9, 15 and 2-Z are located on level desert land. Except for immediate center of the targets which have been cleared of vegetation, the areas are covered with a growth of sage, chapparal and other desert grasses and shrubs.

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
9800 TSU DETACHMENT NO. 14
BOMB AND SHELL DISPOSAL TEAM

6. All of the deduded land covered by this report is suitable for grazing and/or mixing only, with the possible exception of targets 8, 9 and 15 which are potential agricultural areas depending on adequate water supply.

7. It is estimated that there is approximately 236 tons of scrap on subject targets. The Los Angeles District Engineers has submitted an estimate for scrap removal on these targets to the Division Engineers for further action.

8. The method of searching was as it was in similar reported jobs. However, the immediate target areas were more heavily impacted and a large percentage of the bombs were buried or partially buried necessitating three passes of the search crew and considerable excavating. The adjacent areas, being slightly impacted and the nature of the terrain, permitted the spacing of the search crew at wider intervals than in previous reported jobs.

9. All blasting was done after the searchers were out of the range or at a latter date. The dud bombs were rid of by placing a sufficient size charge of Composition C-3 on them, so as to explode the bomb or completely demolish it. After detonation the demolition man checked the surrounding area to insure that the object in question had been destroyed.

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

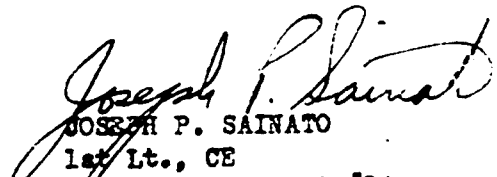
- (a) 2 Bomb, 2,000-pound, Light Case, H. E., AN-M56
- (b) 13 Bomb, 100-pound, H. E.
- (c) 1 Bomb, Flare, Aircraft, Parachute, M26
- (d) 629 Bomb, Practice, M26-A2

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
9800 TSU DETACHMENT NO. 14
BOMB AND SHELL DISPOSAL TEAM

11. I believe the 9,029.35 acres covered by this report to be free from explosive material for the purpose of grazing, mining and/or agricultural purposes.

12. The location of this area is designed by the enclosed map of:

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


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

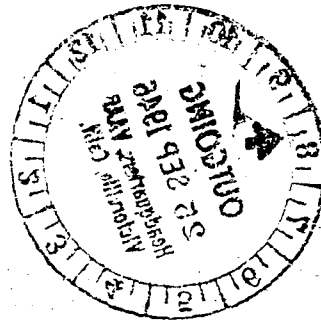
DEDUDDING REPORT ON BOMBING TARGETS FORMERLY ASSIGNED TO
VICTORVILLE ARMY AIR FIELD

1. Victorville Army Air Field
2. Victorville Bombing Targets
3.

Target No. 1 - 160 Acres	Target No. 14 - 640 Acres
Target No. 2 - 640 Acres	Target No. 15 - 640 Acres
Target No. 3 - 640 Acres	Target No. 16 - 640 Acres
Target No. 4 - 640 Acres	Target No. 17 - 640 Acres
Target No. 5 - 640 Acres	Target No. 18 - 640 Acres
Target No. 6 - 640 Acres	Target No. 19 - 640 Acres
Target No. 7 - 640 Acres	Target No. 20 - 640 Acres
Target No. 8 - 640 Acres	Target No. H-1 - 640 Acres
Target No. 9 - 640 Acres	Target No. H-2 - 640 Acres
Target No. 10 - 640 Acres	Target No. H-3 - 640 Acres
Target No. 11 - 640 Acres	Demolition Target Y - 2240 Acres
Target No. 12 - 640 Acres	Demolition Target Z - 4009 Acres
Target No. 13 - 640 Acres	
4. Terrain is flat desert land with sparse vegetation and brush.
5. Period between first March and first December would be most suitable for search and demolition crews. Temperatures of 100 and over will be normal from the middle of June to the middle of September. Rain and cold weather would hamper operations during December, January, and February.
6. Victorville, California is the only town from which the area is readily accessible. Disposal teams could be billeted at Victorville Army Air Field while clearing targets nearest to field. Field camps would be logical for the outlying targets. Distances from Victorville to the Bombing Targets range vary from 10 miles to over 100 miles by road. Reference is made to attached vicinity map.
7. One hundred pound sand filled practice bombs were used on all targets except Demolition Targets Y and Z. Five hundred pound demolition were used on Targets Y and Z.
8. (a) No information is available at this station as to which targets are now in use since all remaining targets were transferred to the Los Angeles District Engineer as surplus. It is believed that some targets were cleared by a detachment from Camp Hahn on orders from Ninth Service Command.

(b) There has been no certificate of clearance submitted to Victorville Army Air Field.
9. Major Paul Bidwell, now located at 610 North Richmond Street, Albuquerque, New Mexico, was Assistant Post Engineer and Range Officer at Victorville Army Air Field during 1944 and 1945.
10. Lt. Robert E. Myers, Air Corps, is now Post Engineer at Victorville Army Air Field.

11. A vicinity map showing Bombing Target locations outlined in red is attached hereto.
12. There are no personnel available at Victorville Army Air Field for search parties.
13. There are no vehicles available at Victorville Army Air Field for transportation of search parties.



ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

Letters/Memorandums/Miscellaneous Items

- F-1. Letter, Potential Occurrence of Endangered Species, dated 19 December 1997 (B-30).
- F-2. Letter, Potential Occurrence of Historical Resources, dated 11 December 1997 (B-31).
- F-3. Letter, Potential Occurrence of Cultural Resources, dated 11 November 1997 (B-32).
- F-4. Letter, Land Acquisition of Bombing Ranges, dated 2 September 1942 (B-33).
- F-5. Letter, Abandonment of Targets, Victorville Army Air Field, dated 11 June 1945 (B-34).
- F-6. Warning Notice, Declaration of Surplus, dated 29 June 1945 (B-35).
- F-7. Letter, Return of Targets to Department of the Interior, dated 2 October 1945 (F-36).
- F-8. Document Excerpt, Denotes Bomb Target was Prepared with Lights for Night Bombing, dated 1 January 1943 - 1 March 1944 (B-37).
- F-9. Historical Excerpt, List of Supplies, dated 1945 (B-38).
- F-10. Historical Excerpt, Target Construction Contract Information, dated 1945 (B-39).
- F-11. Letter, Information Pertaining to Bombing Ranges, dated 13 February 1942 (B-40).
- F-12. Letter, Bombing Targets - Notice of Completion and Release, dated 30 April 1942 (B-41).
- F-13. Letter, Abandonment of Target No. 15, dated 12 April 1945 (B-42).
- F-14. Letter, Reactivation of Bombing Targets at Victorville AAF for use in Proposed Bullion Mountain Gunnery Range, dated 16 January 1947 (B-43).

F-15. Letter, Transfer of Surplus Facilities, dated 11 August 1947 (B-44).

F-16. Memorandum, Funds for Bombing Target Construction, Victorville Airfield, California, dated 31 January 1942 (B-45).



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

December 19, 1997

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

Subject: Species List for the Former Victorville Precision Bombing Range, San Bernardino County, California

Dear Mr. Hale:

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

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

This letter fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act). If the subject project may affect a listed species, the DOA has the responsibility to prepare a biological assessment if the project is a construction project which may require an environmental impact statement^{1/}. If a biological assessment is not required, the DOA still has the responsibility to review its proposed activities and determine whether the listed species will be affected.

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

Richard Hale

2

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

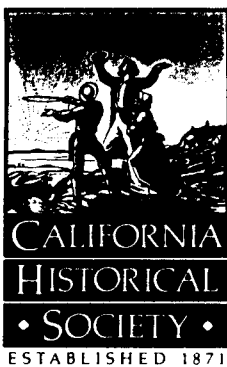
Should you have any questions, please contact Denise Washick of my staff at (805) 644-1766.

Sincerely,



Diane K. Noda
Field Supervisor

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



11 December 1997

President, Board of Trustees
Stephen L. Taber, Esq.

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(818) 449-5450

Mr. Larry M. Dauphin,
Director, DAC
Attn: SIOAC-ESL (DAUPHIN)
3700 Army Depot Road
Savanna, IL 61074-9639

Dear Mr. Dauphin:

Thank you for your October request to the California Historical Society for information about the Victorville Army Airfield in San Bernardino County, California. I apologize for the length of time it has taken for us to address your request. Like many libraries, we are operating with limited staff.

A search of our card and computer catalogs, our photograph catalog and our manuscript collection listing revealed nothing at all about Victorville or the Army Airfield located there.

However, the California Historical Society Quarterly in June 1948 (Vol. 27, No. 2, pp. 113 to 122) carried an article entitled "The Founding of a Mojave Desert Community" by Martha A. Chickering. The article describes the founding by Jim Goulding of Rabbit Springs in the Lucerne Valley of San Bernardino County. In Goulding's own account, which Chickering has transcribed, he describes his travels from Colorado to Rabbit Springs, including the week he spent in Victorville in the spring of 1895.

Notes for this article provide the information that Victorville was named for J. N. Victor who had been superintendent of the California Southern Railway in 1885 when the line was extended from San Bernardino through Cajun Pass to Barstow. (Later this railroad became part of the Sante Fe system.) The notes also refer to two additional sources for information about Victorville:

an article entitled "Early History of Victor Valley" in the Victor Valley Herald News,
December 19, 1930

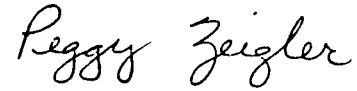
and

a Victorville reference in "Illustrated History of Southern California" (Chicago, 1890), p. 485

I trust this historical information may be of interest to you. If you would like to have a full copy of the CHS Quarterly article above-mentioned, please so indicate on the enclosed form and return it with the proper remittance.

Good luck with your research.

Sincerely yours,

A handwritten signature in cursive script that reads "Peggy Zeigler".

Peggy Zeigler
Library Volunteer

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

1 Estate Directive
Consecutive No. RE-D 1554
Sept. 4, 1942

CE 601.53 (Victorville Fly. School, Calif.) SPELA

2 September 1942

SUBJECT: Land Acquisition, Bombing Ranges for Victorville Army Flying School,
Victorville, California.

TO : The Commanding General of the Services of Supply.

1. There is a military necessity for the acquisition of land indicated under subject above, and described more in detail in paragraph 2, below.

2. Description of land, and other pertinent data, are as follows:

a. BRIEF DESCRIPTION OF LAND: These Targets lie in an east and south-easterly direction from Victorville and about 42 miles north of San Bernardino and about 112 miles in a northeasterly direction from Los Angeles. The bombing sites each contain approximately 640 acres of land and can be located on the attached directive map by Range and Township.

b. PROPOSED USE: Bombing Targets.

c. ACREAGE INVOLVED: Approximately 10,720 acres.

d. ESTIMATED COST \$13,000.

e. METHOD OF ACQUISITION: Acquisition of fee simple title by purchase or condemnation of 2840 acres and the remaining 7880 acres to be withdrawn from public domain by Executive Order and jurisdiction thereof transferred from the Department of Interior to the War Department.

f. REMARKS: It is noted that the Division Real Estate Director recommended acquisition of Sites Nos. 2 to 19 inclusive, however, Site No. 16 is omitted from the Appraisal Report and is marked out on the map. The approval of the Commanding General, Army Air Forces, covers 18 Ranges within this specified area and the elimination of Range No. 1, or substitution of another site, providing that site is within the danger area described in 5th Indorsement dated August 19, 1942. The estimated cost includes Sites 2 to 15 inclusive and Nos. 17, 18, and 19.

3. The determination of a military necessity is based upon the approval of the Commanding General, Army Air Forces, as indicated in attached 5th Indorsement, dated August 19, 1942, and upon construction directive dated February 20, 1942, which has been prepared in this office. The site has been cleared by the Interdepartmental Air Traffic Control Board.

4. Funds for this purpose are contained in Public 528, Project N-25,3,
72th Congress, approved April 28, 1942.

Pacific Region, Laguna Niguel Office

SUBJECT: Land Acquisition, Bombing Ranges for U.S. Army Flying School,
Victorville, California

5. It is recommended that the Under Secretary of War be informed that a military necessity exists for the above-mentioned acquisition and that he be requested to authorize this office to acquire the land necessary for this project.

For the Chief of Engineers:

THOMAS M. ROBINS,
Major General,
Acting Chief of Engineers.

2 Incls.
#1-Ltr. 4/27/42 w/5 Incls. & 1 Incl.
#2-Directive Map.

Pacific Region, Laguna Niguel Office

SUBJECT: Land Acquisition, Bombing Ranges For Victorville Army Flying School,
Victorville, California.

1st Ind.

War Department, Headquarters, Services of Supply,
TO: The Under Secretary of War.

1. The Secretary of War directs that you be informed that a military necessity exists for the acquisition of the land referred to in the basic communication.

For the Commanding General:

W. D. STYER,
Major General, G.S.C.,
Chief of Staff.

2 Incls. n/c

2nd Ind.

Office of the Under Secretary of War,
TO: Chief of Engineers.

2 September 1942

For acquisition of land in accordance with Section VII,
Circular No. 47, W.D. 1942.

By direction of the Under Secretary of War:

2 Incls. n/c

BASIL D. EDWARDS,
Colonel, Infantry
Administrative Office.

WAR DEPARTMENT
HEADQUARTERS OF THE ARMY AIR FORCES
WASHINGTON, D. C.

11 JUN 1945.

AFDIN 3C/4.

SUBJECT: Abandonment of Targets Nos. 6, 9, and 15, and X and Z, Victorville Army Air Field, California.

TO : Commanding General, Army Service Forces, Washington 25, D.C.
Actn: Director of Plans and Operations.

1. There are inclosed communications from the Commanding General, Army Air Forces Training Command, reporting as surplus five targets, enumerated below, at Victorville Army Air Field, California. The designation of the targets and the nature of the interest acquired by the United States are as follows:

a. Target No. 6, comprising 240 acres, acquired in fee, 320 acres of public domain, 80 acres under Lease No. W-04-193-eng-5550.

b. Target No. 9, comprising 640 acres of public domain, transferred to the War Department by Public Land Order No. 125.

c. Target No. 15, comprising 640 acres of public domain, transferred to the War Department by Public Land Order No. 125.

d. Target "Y", situated 50 miles ESE of Victorville Army Air Field, in Sections 24 and 25, TWP 4N, R4E, and Section 19 and Np of Section 30, TWP 4N, Range 5 E, San Bernardino County, California, acreage not known. Land owned in fee by the government.

e. Target "Z", comprising 2,560 acres of public land which has not been withdrawn for use by the War Department, and approximately 1,449.12 acres held under Lease No. W-04-193-eng-4536.

2. The basic communications from the Commanding Officer, Victorville Army Air Field, together with indorsements, set forth the information required by paragraph 12 and 13, Cir. 89, WD, 1945. It is requested that the aforementioned installations be declared surplus in accordance with the referenced circular.

5 Incls.

FOR THE COMMANDING GENERAL:

LUCIUS N. SARGENT, Lt. Col., A.C.,
Ass't Chief, Air Installations Division
Office of Ass't Chief of Air Staff, Materiel and Services.

ARMY SERVICE FORCES

Office of the Commanding General
Washington 25, D. C.

27 Jun 1945.

SFMOG 400.703 (22 Jun 45).

MEMORANDUM FOR THE CHIEF OF ENGINEERS:

SUBJECT: Release of Targets 6, 9, 15, "Y" and "Z", Victorville Army Air Field, Victorville, California.

1. Reference is made to the attached letter from the Commanding General, Army Air Forces, to the Commanding General, Army Service Forces, dated 11 June 45, with five (5) inclosures, in which the subject five target sites are recommended for disposal as excess to the further needs of the Army Air Forces, and inclosing information pursuant to the provisions of War Department Circular Number 306, dated 13 July 1944.

2. The War Department has placed the subject land in the category of surplus effective 22 June 1945.

3. It is therefore, desired that action be taken to dispose of targets 6, 9, 15, "Y" and "Z", Victorville Army Air Field, Victorville, California, as described in the attached correspondence, in accordance with applicable laws, directives and regulations.

Incl:

Ltr frn CGSNAF 65-00,

ASF dtd 11 JUN 45 W/5 Incls.

BY COMMAND OF GENERAL SOERVELL:

DANIEL NOCE

Major General, GSC

Director, Plans & Operations, ASF.

H. R. REISNYDER

Lt. Col., Corps of Engineers

Executive, Command Installation Branch
Mobilization Division, ASF.

28 JUN 1946.

F-5

ARMY SERVICE FORCES
OFFICE OF THE CHIEF OF ENGINEERS
REAL ESTATE

WN #772
DATE 29 June 1945

Victorville

WARNING NOTICE

(Continental United States)

TO: DIRECTOR OF REAL ESTATE, OFFICE OF THE CHIEF OF ENGINEERS
CHIEF, PLANNING BRANCH, ACQUISITION DIVISION, REAL ESTATE, O.C.E.
CHIEF, REALTY CONTROL BRANCH, REQUIREMENTS DIVISION, REAL ESTATE, O.C.E.
CHIEF, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.
CHIEF, MANAGEMENT BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.
CHIEF, DISPOSAL BRANCH, MANAGEMENT AND DISPOSAL DIVISION, REAL ESTATE, O.C.E.
CHIEF, OFFICE SERVICE DIVISION, O.C.E. (Surplus Properties)
DIRECTOR OF MILITARY CONSTRUCTION, O.C.E., Attention: Mr. Lanier
CHIEF, REDISTRIBUTION & SALVAGE DIVISION, READJUSTMENT, O.C.E.,
Attention: Major Walker
CHIEF, MILITARY RESERVATION DIVISION, OFFICE OF JUDGE ADVOCATE GENERAL,
(Surplus Government Owned Properties)
DIVISION ENGINEER, PACIFIC DIVISION, Attention: REAL ESTATE OFFICER.
For information Only

1. Notice was received on 28 June 1945 that, effective

22 June 1945, the following described property has been classified as

INACTIVE _____ STANDBY _____ EXCESS _____ SURPLUS REESTABLISHED _____ REDISTRIBUTED _____

Name of Installation: Victorville Army Air Field (Target Sites)

Location nearest: Victorville (City) _____ (County) Calif. (State)

Acres: Total 8,169 W.D. _____ Public _____ Lesser _____
Owned 2,480 Lands 4,160 Interests _____ Leased 1,529

Entire Installation _____ Portion of Installation

Land Only Land and Improvements _____ Improvements Only _____

Industrial Installation _____ Command Installation

Property Used By AAF For Bombing targets

2. Proposed disposition and remarks: Five target sites, 6, 9, 15 "Y", and "Z".

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

C O P Y

CE 601.52 (Victorville AAF, Calif.-
Targets 9 and 15) SPELT

2 October 1945

Honorable Fred W. Johnson,
Commissioner, General Land Office,
Department of the Interior,
Washington, D. C.

Dear Mr. Commissioner:

The War Department was granted the use of the following described lands in the State of California in connection with the Victorville Army Air Field by Public Land Order No. 125, dated 20 May 1943:

$E\frac{1}{2}$ of $SW\frac{1}{4}$ and $SE\frac{1}{4}$ of Sec. 34 and $W\frac{1}{2}$ of $SW\frac{1}{4}$ of Sec. 35, T6N, R2E, SBB&M and $W\frac{1}{2}$ of $NW\frac{1}{4}$ of Sec. 2, $NE\frac{1}{4}$ and $E\frac{1}{2}$ of $NW\frac{1}{4}$ of Sec. 3, T5N, R2E, SBB&M, containing approximately 640 acres.

$S\frac{1}{2}$ of Sec. 30 and $N\frac{1}{2}$ of Sec. 31 in T4N, R5E, SBB&M, containing approximately 640 acres.

It has now been determined that a military necessity no longer exists for the use of this land.

It is requested that you take the necessary action to return this land to the Department of the Interior.

Your cooperation in this matter is greatly appreciated.

FOR THE CHIEF OF ENGINEERS:

Sincerely yours,

JOHN J. O'BRIEN
Brigadier General, USA
Director of Real Estate

C O N F I D E N T I A L

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

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

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

23. Reminiscence, Capt. Bernard L. Magnusson, Range Officer, VAAF, 28 Jan 1944.
24. Reminiscence, Sgt. O. H. Carrier, Bombardier Range Dept., VAAF, 28 Jan 1944.
25. Reminiscence, Sgt. O. H. Carrier, Bombardier Range Dept., VAAF, 28 Jan 1944.

C O N F I D E N T I A L

The department was also active during the year in other construction projects. A radio station was installed at Lucerne Valley and was used for relaying messages from the Victorville Tower to ships on "C" and "D" series. These series had previously been out of range of the field tower. A five-mile Speed Calibration Course was built at Harpers Lake and was ready for use the early part of June 1943.²⁶

During the latter part of July, Post Engineers took over the actual maintenance of targets, including construction and repair. The Bombardier Range Department continued the maintenance of lighting equipment and cleaning of target areas.²⁷

On 15 February 1943, 1st Lt. Bernard F. Magnusson was appointed Assistant Range Officer.²⁸ He had had no previous experience in this type of work, having been an adjutant in one of the squadrons. Capt. Joseph A. Howard, was relieved as Range Officer on 2 July 1943, and Lt. Magnusson was appointed Range Officer.²⁹

The Range Office was moved to building #755-30 on 15 June 1943, where all supplies were consolidated and housed in the same building. By 31 December 1943, the Department had twenty-two (22) Standard Bullseye Targets; thirteen (13) Battleship Combat Targets (200'x800'); seven (7) Docks and Wharves Combat Targets (125' Circle), and nineteen (19) Bridge and Truck Convoy Combat Targets (50' x 100'). All targets in Series "A",

26. Reminiscence, Capt. Bernard L. Magnusson, Range Officer, VAAF, 28 Jan 1944.
27. Reminiscence, Capt. Bernard L. Magnusson, Range Officer, VAAF, 28 Jan 1944.
28. Par 10, SO 41, Hq VAAF, Victorville, Calif., 15 Feb 1943.
29. Par 2, SO 158, Hq VAAF, Victorville, Calif., 2 Jul 1943.

C O N F I D E N T I A L

"B", "C", and "E" were equipped with electrical night lights.³⁰

Bombardier Photo Section

The Bombardier Photo Section, which had been activated in February 1942, was organized for purpose of maintaining an accurate method of bomb spotting through photography. The problems regarding adequate housing and equipment had been satisfactorily worked out during 1942. By the end of that year, there was a total of eighty-seven (87) type A-4 cameras available for use by the department. One officer and seventeen (17) enlisted men were on duty in the department at the end of the year.³¹

1st Lt. Lloyd M. Harwood had been assigned as Officer in Charge of the Department on 30 December 1942.³² Lt. Harwood had graduated from the Photography Course at Lowry Field with Class 41-F. All of the seventeen (17) enlisted men assigned to the department had had some civilian experience in photography.³³

2nd Lt. Almer N. Brostrom was appointed Assistant Bombardier Photo Officer on 1 June 1943.³⁴ He had had eight years of commercial photographic experience and had received a direct commission at VAAF on 30 May 1943.³⁵ On 4 December 1943, Lt. Harwood was relieved from assignment this

30. Reminiscence, Capt. Bernard L. Magnusson, Range Officer, VAAF, 28 Jan 1944.
31. Reminiscence, 2nd Lt. Almer N. Brostrom, Bombardier Photo Officer, VAAF, 2 Feb 1944; and, Training and Operation Report, Bombardier Photo Office, 31 Dec 1942.
32. Par 9, SO 329, Hq VAAF, Victorville, Calif., 30 Dec 1942.
33. Reminiscence, 2nd Lt. Almer N. Erostrom, Bombardier Photo Officer, VAAF, 2 Feb 1944.
34. Par 7, SO 131, Hq VAAF, Victorville, Calif., 1 June 1943.
35. Par 20, SO 145, War Dept., 25 June 1943.

S E C R E T

Air Corps Supply

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

53

General Supply

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

Ordnance Supply

1. Bombs practice 100 #M38a2; Received 18,000.
2. Bombs chemical 100 #M47a2; Received 10,000.
3. Bombs concrete 100 #M85; Received 18,879. 55
4. Duds reported: .02% . 56
5. Expended 1500 Bombs practice 100 #M38A2. 57
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 44.
57. Certificate of Expenditure, Bombs, Ordnance Office Credit Voucher File, VAAF, Victorville, Calif., Nov and Dec 1944.
58. Ordnance Debit Voucher File, VAAF, Victorville, Calif., Nov and Dec, 1944.
59. Property Issue Slip, Certificate of Expenditure, Ammunition, VAAF, Victorville, Calif., Nov and Dec 1944.

-126-

S E C R E T

F-9

C O N F I D E N T I A L

Contract No. W-509-Eng-2051, Auxiliary Fields No. 3 & 4. ¹⁸

1. Contractor - Basich Brothers, Torrance, California.
2. Construction of 8 runways, four to each field, drainage facilities, fencing and access roads. Aux. #3 located approximately 11 miles East VAAF; Aux. #4 located approximately 15 miles East VAAF.
3. Date of commencement - 7 Feb 1942
Date of completion - 14 Jul 1942
Date of acceptance - 15 Aug 1942
4. Total extensions of 112 days due to unsuitable weather and non-delivery of essential materials.
5. Total cost - \$385,040.00.

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

1. Contractor - George Herz Co., San Bernardino, California.
 2. Targets within radius of 5 to 75 miles from VAAF. Eighteen targets constructed--cleared and grubbed approximately 26.4 acres at each site. Shacks (pyramidal). $24\frac{1}{2}$ miles of access road to connect various targets to existing roads. Fencing.
 3. Date of commencement - 11 Mar 1942
Date of completion - 1 May 1942
Date of acceptance - 1 May 1942
 4. Total Cost - \$73,171.21.
18. Completion Report, Contract No. W-509-Eng-2051. (Contract No. 2051, VAAF Post Engineer Files).
19. Completion Report, Contract No. W-509-Eng-2196. (Contract No. 2196, VAAF Post Engineer Files)

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

February 13, 1942

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

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

1. Reference WC684, letter dated February 9, 1942, subject, Request for Information Pertaining to Bombing and Gunnery Ranges, West Coast Air Corps Training Center, and letter, Office Chief of the Air Corps, dated January 31, 1942, same subject, paragraph 1, a, of the latter, there are no bombing ranges in operation at this station.

2. Reference paragraph 1, b, no bombing target sites have been acquired.

3. Reference paragraph 1, c, all bombing target sites are in the process of being acquired. A plat of each site is inclosed.

- a. The range will be known as the Victorville Bombing Range.
- b. Its location and approximate size are shown on the accompanying map. It is situated east of Victorville, California, and is comprised of a strip approximately twenty (20) miles wide and sixty-five (65) miles long.
- c. The targets will be used for training aerial Bombardiers using one hundred pound (100 lb.), sand loaded, practice bombs.
- d. There are no existing facilities.
- e. Sites are being acquired for eighteen (18) targets to be located as shown on the plats. Plat number sixteen (16) will not be used. The targets will be of the type used for solid ground with wooden pyramids for centers. It is believed that both the photographic and triangulation methods of spotting will be used.
- f. Approximately ten (10) of the targets will be lighted for night bombing.
- g. The range will be used by the ACAFS, Victorville, California.

Copy

February 13, 1942

4. Reference paragraph 1, d, the flying field at the Victorville Military Airport will be used as a base for all bombing operations on the range. Its location is shown on the accompanying map.)

5. No additional Ordnance storage facilities will be required for range operation.

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

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

Cory

BOMBING TARGET SITES

C O P Y

VICTORVILLE MILITARY AIRPORT
SAN BERNARDINO COUNTY

<u>No.</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
1	6N	3W	All of Section 21, S.B.B.&M.
2	5N	3W	All of Section 12. S.B.B.&M.
3	6N	2W	$S\frac{1}{2}SE\frac{1}{4}$ Sec. 28; $S\frac{1}{2}SW\frac{1}{4}$ Sec. 27; $NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$ Sec. 34; $NE\frac{1}{4}$, $N\frac{1}{2}SE\frac{1}{4}$ Sec. 33. S.B.B.&M.
4	4N	2W	$SE\frac{1}{4}$ Sec. 6; $SW\frac{1}{4}$ Sec. 5; $NW\frac{1}{4}$ Sec. 8; $NE\frac{1}{4}$ Sec. 7. S.B.B.&M.
5	6N	1W	All of Sec. 4, S.B.B.&M.,
<u>6</u>	5N	1W	$E\frac{1}{2}SW\frac{1}{2}SE\frac{1}{4}$ Sec. 22; $W\frac{1}{2}SW\frac{1}{4}$ Sec. 23; $W\frac{1}{2}NW\frac{1}{4}$ Sec. 26; $E\frac{1}{2}NW\frac{1}{4}NE\frac{1}{2}$ Sec. 27. S.B.B.&M.
7	5N	1E	$SE\frac{1}{2}$ Sec. 4; $SW\frac{1}{4}$ Sec. 3; $NW\frac{1}{4}$ Sec. 10; $NE\frac{1}{4}$ Sec. 9. S.B.B.&M.
8	4N	1E	$E\frac{1}{2}$ Sec. 21; $W\frac{1}{2}$ Sec. 22. S.B.B.&M.
9	5 & 6N	2E	$E\frac{1}{2}SW\frac{1}{4}SE\frac{1}{4}$ Sec. 34; $W\frac{1}{2}SW\frac{1}{4}$ Sec. 35; $SW\frac{1}{4}NW\frac{1}{4}$ Lot 4 Sec. 2; $S\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}NW$ Lots 1, 2, 3, Sec. 3, S.B.B.&M.
10	4N	2 & 3E	$SE\frac{1}{4}SE\frac{1}{4}$ Sec. 1; $S\frac{1}{2}SW\frac{1}{4}$ Sec. 6; $SW\frac{1}{4}SE\frac{1}{4}$ Sec. 6; $E\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$ Sec. 7; $E\frac{1}{2}NE\frac{1}{2}NE\frac{1}{4}SE\frac{1}{2}$ Sec. 12 S.B.B.&M.
11	6N	3E	$E\frac{1}{2}$ Sec. 35; $W\frac{1}{2}$ Sec. 36. S.B.B.&M.
12	4 & 5N	4E	$S\frac{1}{2}$ Sec. 32; $N\frac{1}{2}$ Sec. 5; S.B.B.&M.
13	3N	4E	All of Section 6 S.B.B.&M.
14	6N	4 & 5 E	$SE\frac{1}{4}$ Sec. 25; $SW\frac{1}{4}$ Sec. 30; $NW\frac{1}{4}$ Sec. 31; $NE\frac{1}{4}$ Sec. 36 S.B.B.&M.
15	4N	5 E	$S\frac{1}{2}$ Sec. 30; $N\frac{1}{2}$ Sec. 31 S.B.B.&M.
16	5N	5 & 6 E	$S\frac{1}{2}SE\frac{1}{4}$ Sec. 12 Lot 3 & 4; $SW\frac{1}{4}$ Sec. 7; $NW\frac{1}{4}$ Sec. 18; $W\frac{1}{2}NE\frac{1}{4}$ Sec. 13 Lot 1 & 2 S.B.B.&M.
17	4N	6E	All of Sec. 29, S.B.B.&M.
18	3N	6 & 7E	$SE\frac{1}{4}$ Sec. 24; $SW\frac{1}{4}$ Sec. 19; $NW\frac{1}{4}$ Sec. 30; $NE\frac{1}{2}$ Sec. 25. S.B.B.&M.
19	2N	6E	$E\frac{1}{2}$ Sec. 27; $W\frac{1}{2}$ Sec. 26. S.B.B.&M.

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

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

0-3

April 30, 1942.

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

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

1. Confirming letter, dated April 15, 1942, from the Area Engineer, you are informed that Bombing Targets Numbered 15, 17, 18 and 19, under the above-numbered contract, have been completed and are hereby released to you for use and maintenance.

2. It is requested, that formal acceptance of the above-mentioned Bombing Targets be submitted to this office in writing.

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

0-3

1st Ind.

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

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

For the Commanding Officer:

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

ARR

F-12

1215.

HEADQUARTERS
VICTORVILLE ARMY FLYING SCHOOL
VICTORVILLE, CALIFORNIA

C13 JPB/eb

In reply
refer to:

12 April 1945

SUBJECT : Abandonment of Target No. 15.

TO : Commanding General, Army Air Forces, Washington 25, D. C.,
(THRU: Commanding General, Army Air Forces Western Flying
Training Command, 1104 West 8th Street, Santa Ana, California).

1. In compliance with War Department Circular No. 306, dated 18 July 1944, Bombing Target No. 15, Victorville Army Air Field is hereby reported as no longer necessary for current requirements.
2. The following information is submitted in accordance with Paragraph 12, War Department Circular 306, dated 18 July 1944.
 - a. Bomb target No. 15 is located approximately 50 miles east by south of Victorville Army Air Field on property located as follows:

S $\frac{1}{2}$ of section 30 and N $\frac{1}{2}$ of section 31, TWP 4N, R5E, San Bernardino Base and Meridian, San Bernardino County, California. This target comprises approximately 640 acres of Public Domain, that has been transferred to the War Department by Public Land Order No. 125.
 - b. The property is desert land and the improvements consist of a three strand barbed wire fence and target outlines marked on the ground with black road-mix. Since the target outlines require periodical maintenance, it is believed that the site can be abandoned without undue loss.
 - c. Site has been used for bombing target, but is no longer required due to a change in training program.
 - d. Surplus status is recommended.
 - e. Property could be used by other Federal Agencies
 - f. Is available for surplus status as of 18 January 1945
 - g. Site is on government land, therefore there are no commitments.
 - h. There are no auxiliary facilities.

Base-Statistical

Basic: Ltr, VAAF, sub: Abandonment of Target No. 15, 12 April 1945

i. There are no commitments to ther Army or Federal Agencies.

For the Commanding Officer:

/s/Robert C. Davidson
ROBERT C. DAVIDSON
Captain, Air Corps
Adjutant

684

(12 Apr 45)

1st Ind.

AGC 9H-LG-AW

HQ AAFWFTC, 1104 W 8, Santa Ana, Calif. 8 May 45.

TO: Commanding General, AAF Training Command, Texas and Pacific Railway
Building, Fort Worth 2, Texas.

1. This headquarters concurs in the declaration of surplus of Bomb Target
Site No. 15 of Victorville AAF.

2. Site No. 15 is located at Lat. $34^{\circ} 24'$, Long. $116^{\circ} 30'$.

For the Commanding General:

/s/ Fred D. Hall
FRED D. HALL,
Maj AC,
Actg. Asst Adjutant General.

Ltr Hq Victorville AAFld, Calif, 12 Apr 45, subj "Abandonment of
Target No 15"

684

2d Ind

HL

Headquarters, AAF Training Command, Fort Worth 2, Texas

19 May 1945

TO: Commanding General, Army Air Forces, Washington 25, D. C.,
ATTENTION: Assistant Chief of Air Staff, Materiel and
Services, Air Installations Division

In compliance with the provisions of Circular 89, War Department,
1945, Demolition Bombing Target No 15, Victorville Army Air Field,
California is reported surplus to the needs of this Command effective
20 April 1945.

FOR THE COMMANDING GENERAL:

/s/ Robert C. Rice
ROBERT C. RICE
Colonel, AGD
Asst. Adj. Gen.

Copies furnished:
CG, AAF, AFACT
CG, AAFWFTC

F-13

ARMY SERVICE FORCES
CORPS OF ENGINEERS
OFFICE OF THE DIVISION ENGINEER
SOUTH PACIFIC DIVISION
351 CALIFORNIA STREET
SAN FRANCISCO 19, CALIFORNIA

LA PSDRR 601.1 (March Field, Calif.-
Proposed Bullion Mt. Air to Air Gun-
nery Range) X 601.1 (Victorville AAF
Calif. - Bombing Targets)

16 January 1947

SUBJECT: Reactivation of Bombing Targets at Victorville AAF
for use in Proposed Bullion Mountain Gunnery Range

TO: Chief of Engineers
War Department
Washington, D. C.

ATTN: Real Estate Directory - ENGLR

1. This office has been requested by the Tactical Air Command to prepare a Real Estate Planning Report on the proposed Bullion Mountain Air to Air Gunnery Range. This report will be completed in approximately two weeks.

2. The attached Drawing #374-M shows the boundaries of the proposed air to air gunnery range outlined in green and the Victorville Bombing Targets in solid red. The bombing targets located within the boundaries of the proposed gunnery range are Nos. 10, 12, 13, 14, 15, 16, 17, 18, 20, 1Y, 1Z and 2Z. Of these, Targets Nos. 15, 1Y, 1Z and 2Z are at present in a surplus status.

3. It is requested that the Commanding General, Army Air Forces be asked to reactivate these four targets until such time as it is determined whether or not the Bullion Mountain Air to Air Gunnery Range will be acquired.

FOR THE DIVISION ENGINEER:

(Signed) F. D. DUNCAN
Chief, Planning Branch
Real Estate Division

1 Incl.
#1-Dwg. 374-M

AFDIN 2D/2
Mr Pieper/amcd/4443
wrtn 7 Aug 47

**SUBJECT: Transfer of Surplus Facilities, Pacific Division No. 4197-3
(Victorville Army Air Field, California)**

AFDIN 2D/2

8th Ind

11 AUG 1947

Hq, Army Air Forces, Washington 25, D. C.

TO: Director of Service, Supply and Procurement, WDGS
ATTN: Services Group

1. It has been determined that Bombing Target Sites Nos. 3, 7, 10, 11, 12, 13, 14, 15, 16, 17, 19 and 20, located near Victorville, California, are no longer required for use of the Army Air Forces. Information required pursuant to Circular 2, War Department 1947, was furnished by 2nd Indorsement dated 15 January 1946 from this headquarters to the Commanding General, Army Service Forces to basic communication dated 7 January 1945 from the Commanding Officer, San Bernardino Air Technical Service Command.

2. In accordance with provisions of above cited circular, it is requested that Target Sites Nos. 3, 7, 10, 11, 12, 13, 14, 15, 16, 17, 19 and 20 be declared surplus and disposed of in accordance with existing laws and regulations.

3. It will be noted that Target Site No. 1 has already been released and that Target Sites Nos. 2, 4, 5 and 18 will remain under the jurisdiction of the Army Air Forces.

FOR THE COMMANDING GENERAL:

[Handwritten signature]
11 AUG 1947
MAIL BRANCH

[Handwritten signature] AFCTG

2 Incls n/c

L. J. ERLER, Col., A. C.
Assistant Chief, Air Installations Division
Assistant Chief of Air Staff-4

cc OCE
TAC
Installations Data
Util Sect, U&A Br
Liaison Officer-5DL22

MEMO FOR RECORD: Action per Maj Steinle, U&A Br
31 July 1947

MEMO FOR FILE: 6th Ind fm Hq AAF to TAC 10/29/46
(AFDIN-2B/1), subj as above

OFFICE SYMBOL	1.	2.	3.	4.	5.
GRADE AND SURNAME OF COORDINATING OFFICERS	AFDIN <i>[Signature]</i>				
	<i>[Signature]</i>				

January 31, 1942

Funds for Bombing Target Construction, Victorville Airfield, California.

The Chief of the Army Air Forces (A-4 Division) and
The Chief of Engineers, IN TURN.

1. Reference is made to radiogram from Moffett Field, dated January 24, 1942 (copy attached) in which is cited the urgency of need for immediate construction of bombing targets at Victorville Airfield, California, and Higley Airfield, Arizona.

2. The Bombardier School at Victorville is scheduled to start operations in the immediate future, and construction of bombing targets at this school is considered urgent.

3. The Bombardier School at Higley is scheduled to begin operations sometime in June, 1942 and target construction is not believed urgent at this School at the present time.

4. It is requested that funds in the amount of \$99,500 be allotted the District Engineer for construction of eighteen (18) targets at Victorville, California, and that the District Engineer be directed to proceed with this construction as soon as necessary land acquisition has been accomplished.

5. Funds are available for this construction in the amount of \$99,500 under Public 353, Item I-34b.

6. It is requested that this office be furnished with a copy of the allotment of these funds.

7. Necessary action pertaining to land acquisition will be taken by separate correspondence.

1 Incl:
Cy. Radio 1/24/42

For the Chief of the Air Corps:

Walter J. Reed,
Colonel, Air Corps,
Chief, Bldgs. & Grounds Div.

TO MAJL & PERS. ROOM

EXECUTIVE

AIR SERV. COMMAND

CIVILIAN PERS

PERSONNEL COMMAND

FISCAL

INSPECTION

INTELLIGENCE

LEGAL

MATERIEL

MEDICAL

MILITARY PERS

OPERATIONS

TRAINING

W. COM. BLDG.

Handwritten notes: TLC/led, \$99,500, TAKE THE, taken by

Handwritten initials: JRC, Jm

Handwritten date: 1/13/42

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX G

REAL ESTATE DOCUMENTS

APPENDIX G

Real Estate Documents

Table of Contents

- G-1. Public Land Order 25, dated 1943 (B-46).
- G-2. Realty Control File, date unknown (B-47).
- G-3. Military Acquisition Project Report, dated 1947 (B-48).
- G-4. Assessor's Map, dated 1981 (B-49).
- G-5. Real Property Disposal Report, dated 1948 (B-50).
- G-6. Plat Map of Township 4 North, Range 5 East, dated 1992, (B-51).
- G-7. San Bernardino Parcel List, dated 1997 (B-52).

CALIFORNIA

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

By virtue of the authority vested in the President and pursuant to Executive Order No. 9337 of April 24, 1943: *It is ordered*, As follows:

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

SAN BERNARDINO MERIDIAN

- T. 5 N., R. 1 W.,
Sec. 22, E $\frac{1}{2}$ SW $\frac{1}{4}$ and SE $\frac{1}{4}$;
Sec. 23, W $\frac{1}{2}$ SW $\frac{1}{4}$;
Sec. 26, W $\frac{1}{2}$ NW $\frac{1}{4}$;
Sec. 27, NE $\frac{1}{4}$ and E $\frac{1}{2}$ NW $\frac{1}{4}$.
- T. 6 N., R. 1 W., sec. 4.
T. 4 N., R. 2 W.,
Sec. 5, SW $\frac{1}{4}$;
Sec. 6, SE $\frac{1}{4}$;
Sec. 7, NE $\frac{1}{4}$;
Sec. 8, NW $\frac{1}{4}$.
- T. 6 N., R. 2 W.,
Sec. 27, S $\frac{1}{2}$ SW $\frac{1}{4}$;
Sec. 28, S $\frac{1}{2}$ SE $\frac{1}{4}$;
Sec. 33, NE $\frac{1}{4}$ and N $\frac{1}{2}$ SE $\frac{1}{4}$;
Sec. 34, NW $\frac{1}{4}$ and N $\frac{1}{2}$ SW $\frac{1}{4}$.
- T. 5 N., R. 3 W., sec. 12.
T. 6 N., R. 3 W., sec. 21.
T. 4 N., R. 1 E.,
Sec. 21, E $\frac{1}{2}$;
Sec. 22, W $\frac{1}{2}$.
- T. 5 N., R. 1 E.,
Sec. 3, SW $\frac{1}{4}$;
Sec. 4, SE $\frac{1}{4}$;
Sec. 9, NE $\frac{1}{4}$;
Sec. 10, NW $\frac{1}{4}$.
- T. 4 N., R. 2 E.,
Sec. 1, SE $\frac{1}{4}$ SE $\frac{1}{4}$;
Sec. 12, E $\frac{1}{2}$ NE $\frac{1}{4}$ and NE $\frac{1}{4}$ SE $\frac{1}{4}$.
- T. 5 N., R. 2 E.,
Sec. 2, lot 4, SW $\frac{1}{4}$ NW $\frac{1}{4}$;
Sec. 3, lots 1, 2, 3, S $\frac{1}{2}$ NE $\frac{1}{4}$, and SE $\frac{1}{4}$ NW $\frac{1}{4}$.
- T. 6 N., R. 2 E.,
Sec. 34, E $\frac{1}{2}$ SW $\frac{1}{4}$ and SE $\frac{1}{4}$;
Sec. 35, W $\frac{1}{2}$ SW $\frac{1}{4}$.
- T. 4 N., R. 3 E.,
Sec. 6, S $\frac{1}{2}$ SW $\frac{1}{4}$ and SW $\frac{1}{4}$ SE $\frac{1}{4}$;
Sec. 7, W $\frac{1}{2}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, and
NW $\frac{1}{4}$ SE $\frac{1}{4}$.
- T. 6 N., R. 3 E.,
Sec. 35, E $\frac{1}{2}$;
Sec. 36, W $\frac{1}{2}$.
- T. 3 N., R. 4 E., sec. 6.
T. 4 N., R. 4 E., sec. 5, N $\frac{1}{2}$.
T. 5 N., R. 4 E., sec. 32, S $\frac{1}{2}$.
T. 4 N., R. 5 E.,
Sec. 30, S $\frac{1}{2}$, unsurveyed.
Sec. 31, N $\frac{1}{2}$, unsurveyed.
- T. 6 N., R. 5 E., sec. 30.
T. 2 N., R. 6 E.,
Sec. 26, W $\frac{1}{2}$;
Sec. 27, E $\frac{1}{2}$.
- T. 4 N., R. 6 E., sec. 29.
T. 3 N., R. 6 E.,
Sec. 24, SE $\frac{1}{4}$;
Sec. 25, NE $\frac{1}{4}$.

T. 3 N., R. 7 E.,
Sec. 19, SW $\frac{1}{4}$;
Sec. 30, NW $\frac{1}{4}$.

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

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

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

ABE FORTAS,

Acting Secretary of the Interior.

MAY 20, 1943.

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

REALTY CONTROL FILE SUMMARY
(Land Acquisitions and Disposals Subsequent to July 1940)

RESERVATION NAME: 1882
Victorville Precision Bombing Range No. 15, California

OFFICIALLY DESIGNATED BY:

LOCATION:
In San Bernardino County, 48 miles East of Victorville

TYPE:
Auxiliary to Victorville Army Air Field

LAND OWNERSHIP AND COST DATA

ACQUISITION ACTIONS

Exhibits "A"

NET AREA

640.00 acres, total area acquired
640.00 acres **
0.00

DISPOSAL ACTIONS

Exhibits "B"

GROSS COST

*

JURISDICTION

RELOCATIONS

FINAL PROJECT MAP:

Exhibit "F"

MISCELLANEOUS PAPERS:

REMARKS:

- * Public Land Order No. 125, dated 5-20-43.
- ** Relinquished to Dept, of Interior by letter dated 10-2-45.
P. L. O. No. 125 Revoked by P. L. O. No. 442 dated 1-30-48.

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Pacific Region, Laguna Niguel Office

MILITARY ACQUISITION SUBJECT REPORT		DATE OF REPORT	REPORTS CONTROL SYMBOL ENGLC-2 (R1)			
TO WAR DEPARTMENT, OFFICE OF THE CHIEF OF ENGINEERS, REAL ESTATE, REALTY REQUIREMENTS DIVISION, REALTY CONTROL BRANCH, WASHINGTON 25, D.C.		14 November 1941		FROM (DIVISION) South Pacific		
PROJECT NAME Victorville Precision Bombing Range No. 15		DIRECTIVE DATE 22 September 1942	DIRECTIVE NUMBER RE-D 1554			
PURPOSE Auxiliary to Victorville A.A.F.		COUNTY San Bernardino	STATE California			
FINAL REPORT	CURRENT PERIOD			PROGRESS TO DATE		
	TRACTS	ACRES	DOLLARS	TRACTS	ACRES	DOLLARS
GENERAL						
1. TOTAL AUTHORIZED FOR ACQUISITION				1	640	-
a. Fee				-	-	-
b. Easements & Lesser Interests				-	-	-
c. Public Lands				*1	640	-
d. Leased to U.S.				-	-	-
ACQUISITION OF FEE, EASEMENTS AND LESSER INT.						
2. TOTAL (Items 1a & 1b)						
3. TRACT OWNERSHIP DATA COMPLETED						
4. TRACT MAPS COMPLETED						
5. APPRAISALS APPROVED						
6. TITLE EVIDENCE ORDERED						
7. TITLE EVIDENCE RECEIVED						
PURCHASE (Including Donations)						
8. OPTIONS OBTAINED						
9. OPTIONS ACCEPTED						
10. TITLE EVIDENCE SUBMITTED						
11. PRELIMINARY TITLE APPROVED						
12. PAYMENTS AND CLOSINGS COMPLETED						
13. FINAL TITLE PAPERS SUBMITTED						
CONDEMNATION (Including Declarations of Taking)						
14. ASSEMBLIES SUBMITTED						
15. CONDEMNATION PETITION FILED						
16. ORDER OF POSSESSION ENTERED						
17. TITLE EVIDENCE TO U.S. ATTORNEY						
18. DECLARATION OF TAKING FILED						
19. STIPULATIONS AND AWARDS APPROVED						
20. AWARDS AND DEFICIENCIES DEPOSITED						
21. PARTIAL DISBURSEMENTS						
22. FINAL DISBURSEMENTS						
PROJECT MANAGER (Name) <i>John M. Keller</i> 48 JOHN M. KELLER Chief, Real Estate Division		OFFICE ADDRESS SOUTH PACIFIC DIVISION Oakland Army Base Oakland 14, California				

(SEE INSTRUCTIONS ON REVERSE SIDE)

INSTRUCTIONS

- a. REPORTS WILL BE PREPARED QUARTERLY AS OF 15 MARCH, 15 JUNE, 15 SEPTEMBER, AND 15 DECEMBER.
- b. REPORTS WILL BE PREPARED IN QUADRUPLICATE FOR THE FOLLOWING DISTRIBUTION: Forward original and one copy in sufficient time to reach the Office, Chief of Engineers on or before the 22nd of the month in which the report is prepared. One copy forwarded to the Division Office and one copy retained in the project office.
- c. SUBMISSION OF REPORTS WILL BEGIN AS SOON AS NOTICE OF ISSUANCE OF A DIRECTIVE IS RECEIVED AND CONTINUED UNTIL ALL ACTION HAS BEEN COMPLETED, INCLUDING DISTRIBUTION OF FUNDS DEPOSITED ON EXCESS AWARDS.
- d. RECORDS WILL BE MAINTAINED ON A FRACTIONAL ACREAGE AND DOLLAR BASIS: Totals thereof however will be rounded to the nearest acre or dollar in preparing this report (.50 acre will be reported as an additional acre; 50 cents will be reported as an additional dollar).
- e. THE NUMBER OF TRACTS, ACRES, AND AMOUNT OF MONEY SHOWN IN ITEM 1 OF THE INITIAL REPORT WILL BE AS RECITED IN THE DIRECTIVE. The number of tracts and acres will be revised as the preparation of tract ownership data and tract maps progresses. The amount of money will remain constant under item 1 unless changed by a subsequent Directive.
- f. THIS REPORT WILL COVER ALL TYPES OF ACQUISITION OF REAL ESTATE OR INTERESTS THEREIN:
 1. Tracts involving Public Domain, State owned land not being acquired, or land to be leased will NOT be reported in six columns of report but will be reported under remarks below. Tracts under lease will be identified by contract number, tract number and acreage.
 2. Completed transactions not involving condemnation which do not follow regular acquisition procedure steps (such as easements, licenses, and donations) will for report purposes be reflected in all purchase steps (items 8-13) and will be identified by appropriate footnote showing interest acquired and number of tracts. Where no actual acreage is involved as in the case of informal agreements to top trees, only "tract" and dollar" data will be reported.
- g. ALL TRACTS TRANSFERRED FROM "PURCHASE" TO "DECLARATION OF TAKING" SHOULD BE DEDUCTED FROM ALL "PURCHASE" STEPS AFFECTED AND REPORTED UNDER "DECLARATION OF TAKING".
- h. ALL TRACTS TRANSFERRED FROM "CONDEMNATION" TO "PURCHASE" SHOULD BE DEDUCTED FROM ALL "CONDEMNATION" STEPS AFFECTED AND REPORTED UNDER THE "PURCHASE" STEPS.
- i. WHERE TWO OR MORE "REAL ESTATE DIRECTIVES" HAVE BEEN ISSUED IN CONNECTION WITH THE SAME PROJECT, A SEPARATE REPORT WILL BE SUBMITTED FOR EACH DIRECTIVE. "GENERAL DIRECTIVES" WILL BE REPORTED WITH THE "REAL ESTATE DIRECTIVE TO WHICH EACH RELATES.

ADDITIONAL TRACTS: DURING THE CURRENT PERIOD, _____ TRACTS, IDENTIFIED AS TRACTS NUMBERS _____ WERE ADDED UNDER THE FOLLOWING AUTHORITY _____ AND FOR THE FOLLOWING REASONS: _____

TRACT REDUCTIONS. DURING THE CURRENT PERIOD, _____ TRACTS, IDENTIFIED AS TRACTS NUMBERS _____ WERE DROPPED UNDER THE FOLLOWING AUTHORITY _____ AND FOR THE FOLLOWING REASONS: _____

REMARKS *640 acres Public Domain transferred from Department of Interior by P.L.O. #125 dated 5/20/43.

ENG Form 1019
1 Sep 46

Office of the Chief of Engineers
Real Estate Division

TRACT REGISTER

PRELIMINARY
 FINAL

(Separate Register to be prepared for each Real Estate Directive)

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Pacific Region, Laguna Miguel Office

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

PROJECT (Official Name)		PURPOSE (As Set Forth in Directive)			DATE OF DIRECTIVE	DIRECTIVE NUMBER
Victoryville Precision Bombing Range No. 15		Auxiliary to Victoryville AAF			2 September 1947	RE-D 3554
TRACT NUMBER	LANDOWNER'S NAME	ACREAGE	PRICE	ESTATE METHOD 1/ 2/	LAST ACTION TAKEN	REMARKS (Including Contract No. of Leases)
A	Department of Interior	640.00	---	-	T	Public Law No. 425, dated 12/20/43
1	TOTAL	640.00	---	1/	*F* Fee; *LE* Leasehold; *L* License; *PE* Permit; *E* Easement. *P* Purchase; *D/T* Declaration of Taking; *WPA* War Powers Act Condemn.; *U* Unnegotiated; *T* Transfer; *D* Donation; *SC* Straight Condemn.; *L* Lease; *WVPA* War Powers Action.	
DIVISION SOUTH PACIFIC		DATE PREPARED 14 November 1947				

AUDITED
11/14/1947
B. Goldbeck

92-9032-404

TO: CHIEF OF ENGINEERS
ATTENTION: ENGR
WASHINGTON 25, D.C.

FROM (DIVISION)
South Pacific

PART I Audit #1882

INSTALLATION: Victorville Precision Bombing Range #15
LOCATION: 44 miles southeast of Barstow

MILITARY <input checked="" type="checkbox"/> COMMAND <input type="checkbox"/> INDUSTRIAL	CIVIL <input type="checkbox"/> FLOOD CONTROL <input type="checkbox"/> RIVERS AND HARBORS	COUNTY San Bernardino	STATE California
ACREAGE OF ENTIRE INSTALLATION	W.D. OWNED --	PUBLIC LAND 640	LEASED --
		LESSER INT. --	LAST USING SERVICE Victorville AAF

PART II

DATE	CLASSIFICATION	E OR P	WAR DEPT. OWNED (ACRES) (1)	PUBLIC LANDS (ACRES) (2)	LEASED (ACRES) (3)	LESSER INT. (ACRES) (4)	NATURE OF FACILITIES	COST TO GOVT. (DOLLARS)	CUSTODY BY C.E. (DATE)
A. 6/22/45	Surplus	E	--	640	--	--	Bombing Rge	4500 (Approx)	7/17/45
B.									
C.									
D.									
E.									
F.									

PART III

TEMPORARY USE GRANTS

REF.	IN PROCESS			GRANTED			PURPOSE
	No.	Acres	Consideration (\$)	No.	Acres	Consideration (\$)	

DECLARATION TO WAR ASSETS ADMINISTRATION (GIVE DATES)

REF.	FORM 1005 REQUESTED	FORM 1005 TO C.C.E.	DECLARED TO WAA	LTR OF ACCEPT.	CUSTODY ASSUMED

TRANSFER OR RETRANSFER TO OTHER GOVERNMENT AGENCIES

REF.	DATE AUTHORIZED	RECEIVING AGENCY	DATE OF LETTER FROM WAR DEPT.	RESTORATION OR RLDG. DISP. COMPLETED (DATE)	DATE CUSTODY ASSUMED
A-2	6/22/45	Dept. of Interior	--	--	1/30/48

LEASE CANCELLATIONS

REF.	IN PROCESS OF DISPOSAL			CANCELLED		
	No.	Acres	Rental (Dollars)	No.	Acres	Rental (Dollars)

OTHER WAR DEPARTMENT DISPOSALS

REF.	DATE AUTHORIZED	DATE NEGOTIATIONS INITIATED	DATE OFFER ACCEPTED	CONSIDERATION (DOLLARS)	DATE COMPLETED OR CUSTODY ASSUMED

SIGNATURE

John M. Keller
JOHN M. KELLER

TITLE
Chief, Real Estate Div.

ADDRESS
Oakland Army Base
Oakland 14, Calif.

INSTRUCTIONS

ALL NUMBERS ROUNDED TO THE NEAREST DOLLAR OR ACRES IN PREPARING THIS REPORT

- a. REPORTS WILL BE PREPARED MONTHLY AS OF THE 15TH DAY OF EACH MONTH.
- b. REPORTS WILL BE PREPARED IN QUADRUPPLICATE FOR THE FOLLOWING DISTRIBUTION: Forward original, and one copy in sufficient time to reach the Office, Chief of Engineers on or before the 23rd day of the month in which the report is prepared. One copy forwarded to the Division Office and one copy retained in the preparing office.
- c. WHEN REQUIRED: Reports will be required commencing with the month in which the installation or any portion thereof is classified as Standby, Inactive or Surplus and continued until surplus property is disposed of by transfer, sale, termination of leases, or otherwise; but if another portion of the installation is classified at a later date and the report resumed, all previous actions will be reflected; where the installation or portion thereof is classified Inactive or Standby, the report may be suspended when the granting of temporary use of facilities made available for such purposes shall have been completed or definite information shall have been received that temporary use of facilities at installations or portions thereof in Standby or Inactive status cannot be granted.
- d. PART I will identify the installation as to name, location and type, set forth the entire acreage either acquired or being acquired, and name the last using service. The acreage will be divided to show War Department owned, Public Lands (Public Domain and Lands transferred from other Government Agencies), Leased, and Lessor interests. If an installation is part industrial and part Command the acreages of these parts similarly broken down will be reflected in "Remarks". State, county, or municipally owned lands will not be shown as Public Lands.
- e. PART II will reflect information as to areas which have been classified "Standby", "Inactive" or "Surplus". A separate line will be used for each report of classification, but subsequent withdrawals or adjustments affecting a classified area will be reflected by net figures and an explanation under "Remarks". The date will be that on which the appropriate Authority approved the classification. A symbol P or E will be used to denote whether "Classified area" is a portion of or the entire installation. The acreage will be divided as explained in PART I above but will cover only the actual area or areas classified. The nature or use of the area will be reflected under "Nature of facilities", i.e. Housing Area, Warehouse Area, Modification Center #2, POW Camp, etc. and if the installation is comprised of both command and industrial portions the symbol I (Industrial) or C (Command) will be used to indicate to which portion the area belongs. The cost of both land and construction will be shown under "Cost to Government". If the Corps of Engineers assumed custody the date will be shown, otherwise "00" will be entered in the last column.
- f. PART III will reflect management or disposal actions taken in connection with areas classified under PART II. The reference column will indicate the area by referring to the line on which it is listed under PART II (A, B, C, etc.) and the appropriate column (1), (2), (3), or (4). An area or portions of areas which required separate classification reports will be combined in a single line under PART III however, it may be necessary to use several lines under PART III to reflect separate actions taken in connection with an area listed on a single line under PART II. The latter occurrence will be explained under "Remarks" and if necessary a further division of acreage recited.
1. TEMPORARY USE GRANTS will be reported by cumulative figures showing the number of instruments, acres involved, and annual consideration. When right of entry has been given but a formal instrument not executed and delivered it will be reported "in process", with appropriate footnote under "Remarks" including date right of entry granted. After delivery of the instrument it will be reported "granted". "Purpose" will reflect type of interest (L for Lease, LI for License) and the proposed use of the area, such as agriculture, industrial, etc. Elaboration where necessary will be indicated under "Remarks".
2. DECLARATIONS TO WAR ASSETS ADMINISTRATION. The date of the following will be recorded: Letter from OCE requesting WAA Form 1005, Letter transmitting WAA Form 1005 to OCE, the declaration to WAA, the letter of acceptability from WAA, and the assumption of custody by the disposal agency. The symbol or abbreviation of the disposal agency will also be shown under "Custody Assumed".
3. TRANSFER OR RETRANSFER TO OTHER GOVERNMENT AGENCIES. Entries in the second, third, and fourth columns will be made from information or informational copies of documents received from OCE being required only to complete Division and lower echelon records. The date restoration or building disposal (if required) is completed will be shown, otherwise the entry "none" will be used. The last column will reflect the date of written acceptance either from a field or departmental level with appropriate notation in "Remarks".
4. LEASE CANCELLATIONS will show the total number of leases, acreage and annual rental "in process of disposal" and "Cancelled" for each "area" of Classification.
5. OTHER WAR DEPARTMENT DISPOSAL entries involving EPF contracts, assessments, licenses, etc. will be recorded under this section of report using entries most nearly applicable to the circumstances and making entries under "Remarks" to explain unusual disposal actions.

REMARKS

PART II

<u>Ref</u>	<u>Authority</u>	<u>P.L.</u>	<u>Cost to Govt.</u>
A-2	WN 772	640 acres	\$ 4500 (Approx)

PART III

Retransfer to Other Govt. Agency

A-2	PLO #125 revoked by PLO #442 1/30/48	640 acres	\$ 4500 (Approx)
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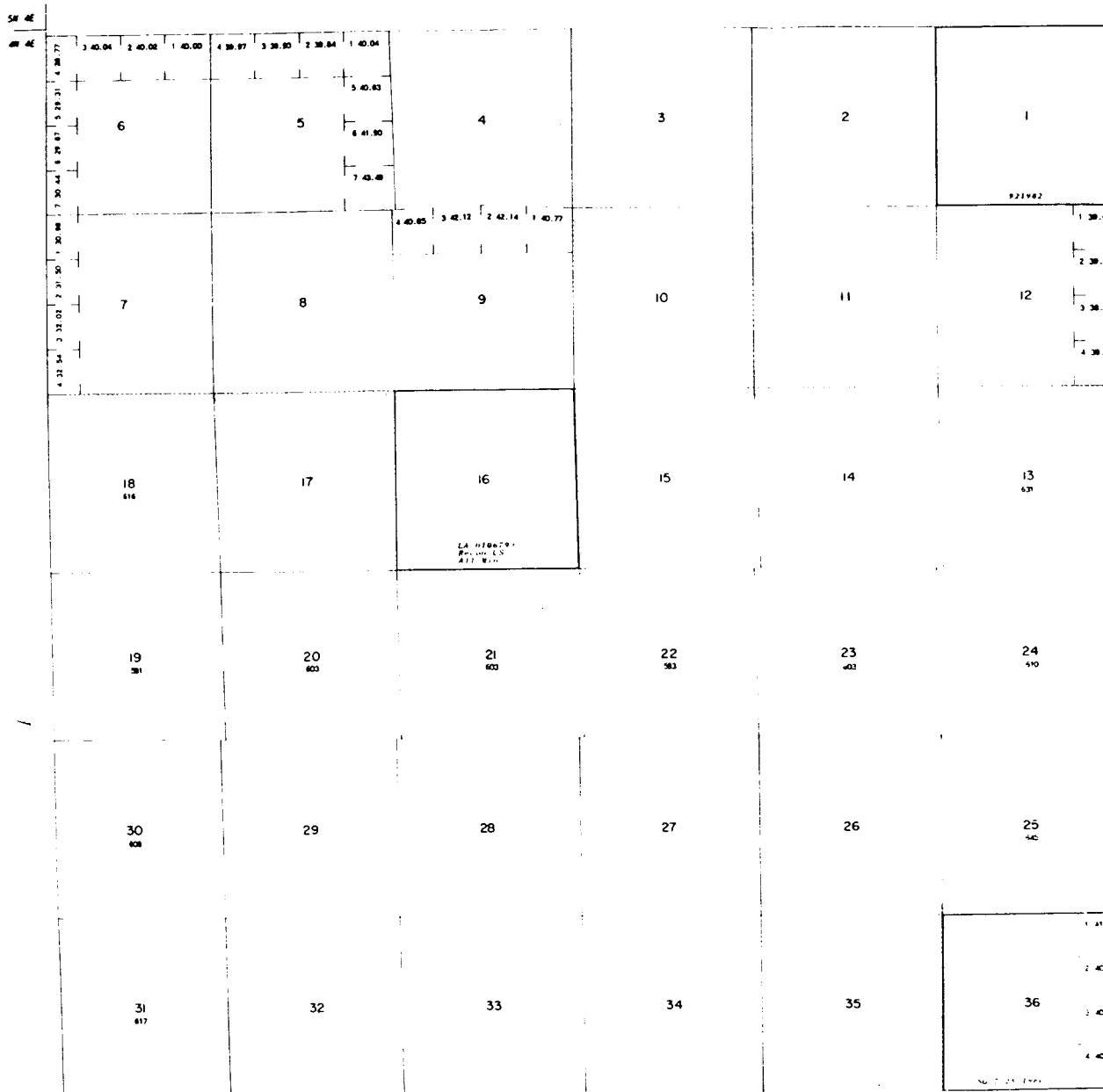
PARTIALLY SURVEYED TOWNSHIP 4 NORTH RANGE 5 EAST OF THE SAN BERNARDINO MERIDIAN, CALIFORNIA

Protraction Diagram No. 35 Officially Filed 8/16/1911

SAN BERNARDINO COUNTY
CALIFORNIA DESERT DIST. SEC. 15
T4R5T0W RA

STATUS OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

MT PLAT



RE-SURVEY TRACT NO.	ORIGINAL SURVEY			SUBDIVISION
	T	R	SEC.	

All Tr. within designated California Desert Conserv. Area Act of Cong. 10/21/1976

... of the ... of the ...

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS REFER TO INDEX OF MISCELLANEOUS DOCUMENTS

CURRENT TO	CURRENT TO
USE PLATS	

WARNING STATEMENT
This plat in the Bureau's Record of Title and should be read only as a graphic display of the township survey data. Boundaries shown do not reflect title changes which may have been effected by lateral movements of fences or other factors of a similar nature.

SCALE in Chains

G-6

DATAQUICK
INFORMATION SYSTEMS

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SAN BERNARDINO COUNTY PARCEL LIST BY PARCEL NUMBER

1998 EDITION

PARCEL	OWNERS NAME(S) MAILING ADDRESS SITUS ADDRESS PROPERTY DESCRIPTION	PHONE ZIP PROPERTY TYPE LEGAL DESCRIPTION	TRACT	USE CODE YB LOT	HT/AC PARK POOL	BR BA RC ST	SQ FT LOT SZ RUM ROOF	1ST TD 2ND TD TAXES FP	LAND VAL IMPR VAL ASSD VL VIEW	REC DATE DOC NO TFR VAL EX
0454-481-08	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 26 TP 4N R 5E								
0454-481-09	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 27 TP 4N R 5E								
0454-481-10	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 28 TP 4N R 5E								
0454-481-11	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 29 TP 4N R 5E								
0454-481-12	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 30 TP 4N R 5E								
0454-481-13	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 31 TP 4N R 5E								
0454-481-14	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 32 TP 4N R 5E								
0454-481-15	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 33 TP 4N R 5E								
0454-481-16	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 34 TP 4N R 5E								
0454-481-17	GOVERNMENT LAND #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 35 TP 4N R 5E								
0454-481-18	STATE OF CALIFOR #FILE* --VACANT--			000						NOSTRAN
		INSTITUTE/ANNUAL EXMPT SEC 36 TP 4N R 5E								
0454-481-08		F 1 6								*** F16 ***

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX H

NEWSPAPERS/JOURNALS

NOT USED

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
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APPENDIX I

INTERVIEWS

APPENDIX I

Interviews

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

CONVERSATION RECORD	TIME 0930 PST	DATE 22 January 1998
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TYPE

VISIT CONFERENCE

TELEPHONE
INCOMING
OUTGOING

NAME OF PERSON CONTACT WITH Bill Myers Bob Hall	ORGANIZATION San Bernardino Sheriff's Department	TELEPHONE NO. (909) 387-3598
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SUBJECT Victorville Precision Bombing Ranges

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

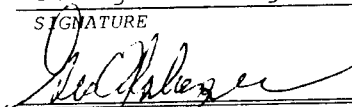
Mr. Myers stated that a 5-inch rocket had been recovered in the vicinity of bomb target 6, 7 or 8. He was unable to identify which target contained the rocket, but he recalled seeing a number of fins sticking out of the ground.

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

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

CONVERSATION RECORD	TIME 8:00	DATE 23 Jan 98
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TYPE		
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		<input type="checkbox"/> INCOMING
		<input type="checkbox"/> OUTGOING

NAME OF PERSON CONTACT WITH Jerry Bronson	ORGANIZATION BLM, Barstow Field Office	TELEPHONE NO. (760) 252-6075
---	--	--

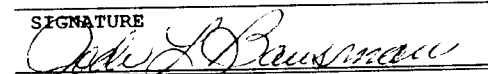
SUBJECT Former Victorville Bombing Ranges.

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

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

ACTION REQUIRED
NONE

ACTION TAKEN
NONE

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

CONVERSATION RECORD	TIME 0930	DATE Wed 28 Jan 1998
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TYPE

VISIT CONFERENCE

TELEPHONE
 INCOMING
 OUTGOING

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

SUBJECT
Victorville Precision Bomb Targets

SUMMARY

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

ACTION REQUIRED

ACTION TAKEN

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

CONVERSATION RECORD	TIME 0845	DATE Thu 29 Jan 1998
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TYPE

VISIT CONFERENCE

TELEPHONE
INCOMING
OUTGOING

NAME OF PERSON CONTACT WITH MSGT Hepner TSGT Glinka	ORGANIZATION 95 th CEG/CED Edwards AFB, CA	TELEPHONE NO. (805) 277-2162
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SUBJECT
Victorville Precision Bomb Targets

SUMMARY

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

ACTION REQUIRED

ACTION TAKEN

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

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

SUMMARY:

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

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

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

ACTION REQUIRED
None

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

CONVERSATION RECORD	TIME 1:00 PM	DATE 4 March 1998
----------------------------	------------------------	-----------------------------

TYPE		
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		<input type="checkbox"/> INCOMING
		<input checked="" type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED Owen Cooper	ORGANIZATION Former Bombardier Cadet	TELEPHONE NO. (410) 747-5991

SUBJECT Victorville PBRs

SUMMARY:

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

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

ACTION REQUIRED
None

NAME OF PERSON DOCUMENTING CONVERSATION Ronald Plante	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 782-1481
SIGNATURE <i>Ronald Plante</i>	TITLE QASAS	DATE 4 March 1998

ORDNANCE AND EXPLOSIVES PROJECT
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FOR
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BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX J

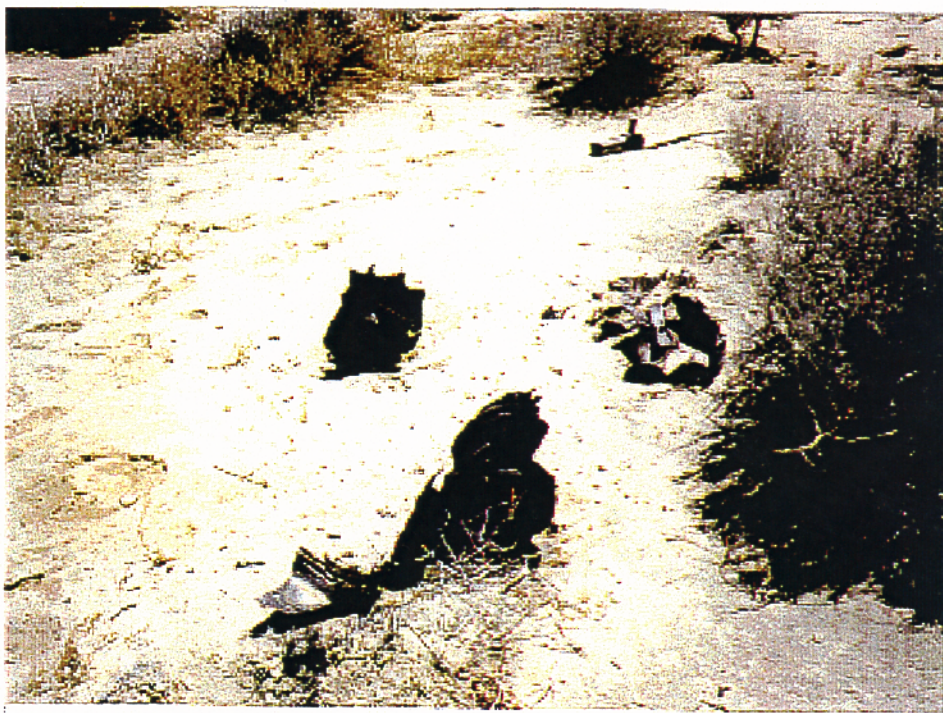
PRESENT SITE PHOTOGRAPHS

APPENDIX J

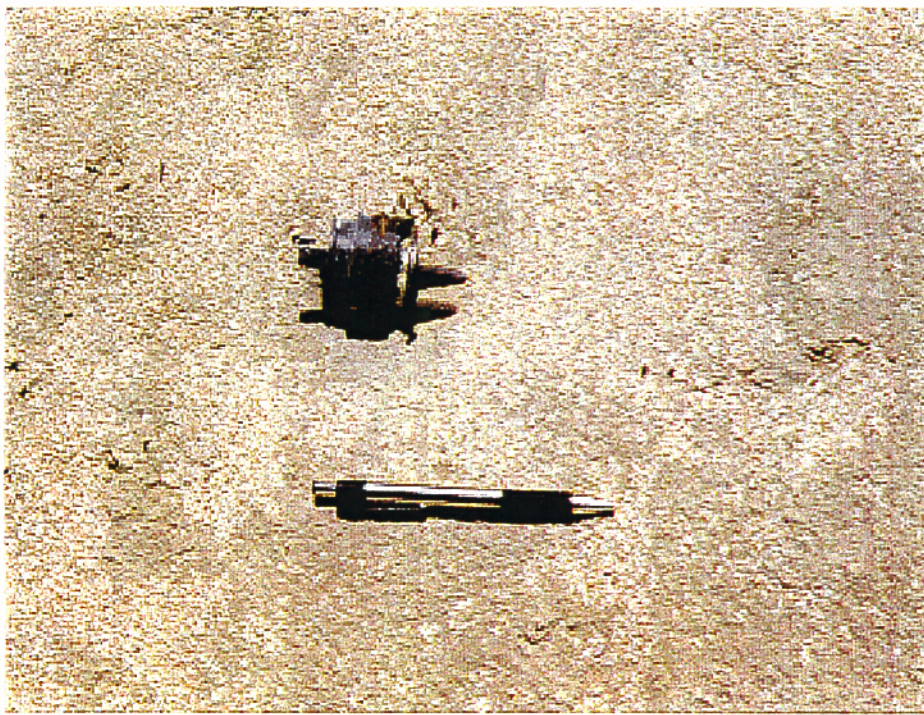
PRESENT SITE PHOTOGRAPHS

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- J-1. (Area A) M38A2 practice bomb debris.
- J-2. (Area A) Vane cup for tail fuze.
- J-3. (Area A) Looking east of target showing terrain and roads used by Off-Highway Vehicles for recreation.
- J-4. (Area A) M38A2 practice bomb debris found east of target area.
- J-5. (Area A) M38A2 practice bomb debris found east of target area.
- J-6. (Area A) Mr. Bausman pointing out metal debris from a M38A2 practice bomb east of target.
- J-7. (Area A) Possible remains of wooden target east of bomb target.
- J-8. (Area A) Looking southeast of target area.
- J-9. (Area A) Looking south of target area.
- J-10. (Area A) Mr. Ofslager surveying southwest of bomb target near another possible wooden target.
- J-11. (Area A) Looking south southeast of target, depicting Off-Highway Vehicle tracks.
- J-12. (Area A) The bomb target area crisscrossed with trails made by Off-Highway Vehicles.
- J-13. (Area A) Mr. Ofslager showing remains of a possible wooden target on the southwest portion of bomb target.
- J-14. (Area A) Metal debris found southwest of target area.



J-1 M38 Practice bomb debris located in the north central portion of the bombing range.



J-2 Vane cup for tail fuze, possible M100 series.



J-3 East of target showing terrain and roads used by Off-Highway Vehicles for recreation.



J-4 M38A2 practice bomb debris found east of target area.



J-5 M38A2 practice bomb debris found east of the bombing target.



J-6 Mr. Bausman pointing out metal debris from M38A2 practice bomb east of target.



J-7 Possible remains of wooden target east of bomb target.



J-8 Looking southeast from target area.



J-9 Looking south southeast of target.



J-10 Mr. Ofslager surveying southwest of bomb target near another possible wooden target.



J-11 Looking south southeast of target, depicting Off-Highway Vehicle tracks.



J-12 The bomb target area is crisscrossed with trails made by Off-Highway Vehicles.



J-13 Mr. Ofslager standing near the remains of a possible wooden target in the southwest portion of the target area.



J-14 Metal debris found southwest of target area.

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APPENDIX K

HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

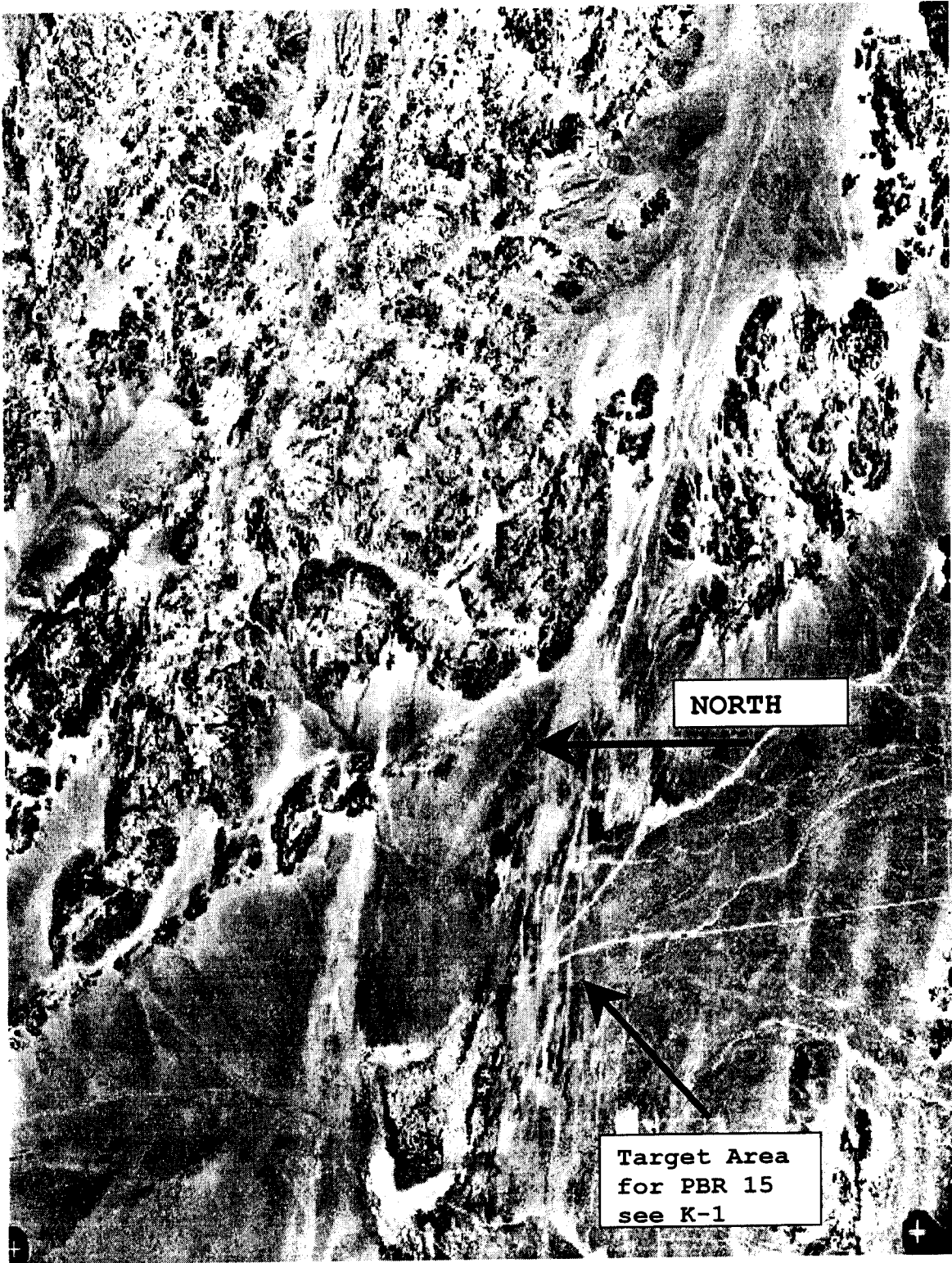
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- K-1. Aerial photograph of Victorville PBR 15, dated 1989.
Enlargement of target area of K-2 (B-53).
- K-2. Aerial photograph of Victorville PBR 15, dated 1989
(B-53).



Oblique aerial taken on 25 July 1989 of Victorville PBR 15

K-1



Oblique aerial of PBR 15, dated 25 July 1989

ORDNANCE AND EXPLOSIVES PROJECT
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APPENDIX L

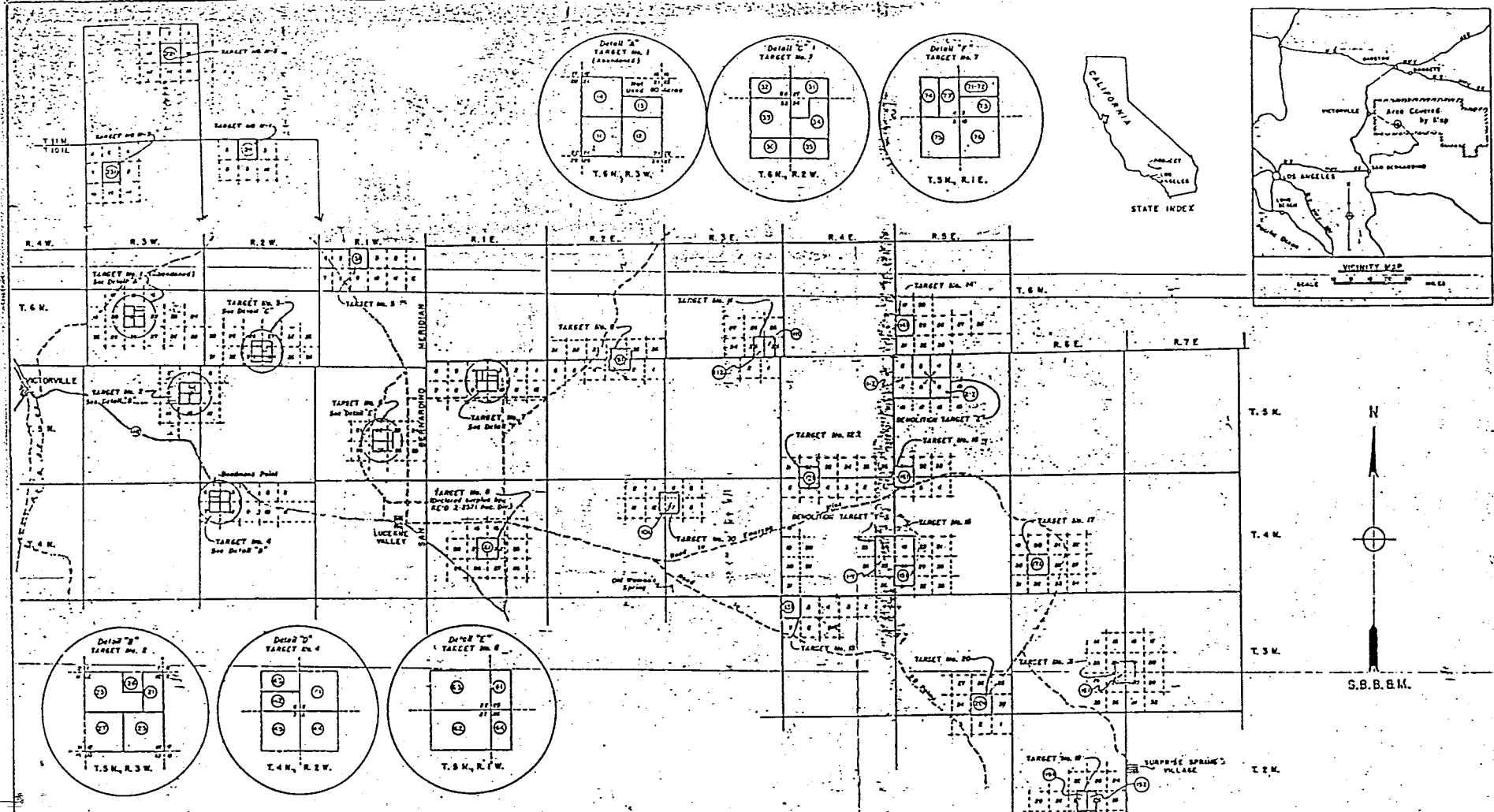
REFERENCE MAPS/DRAWINGS

APPENDIX L

REFERENCE MAPS/DRAWINGS

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- L-3. Map, 1944, Grid Map of Local Flying Area - Victorville Army Air Field (B-56).
- L-4. Map, 1943, Victorville Flying Training Area and Danger Area (B-57).
- L-5. Map, 1943, Bombing Targets - Victorville Army Air Field (B-58).



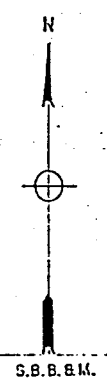
FINAL PROJECT OWNERSHIP MAP
 STATE: CALIFORNIA
 COUNTY: SAN BERNARDINO
 DIVISION: PACIFIC
 DISTRICT: LOS ANGELES
 SERVICE COMMAND: NINTH
 USING AGENCY: 5-55 MILES E. OF VICTORVILLE
 18-45 MILES S. OF BARSTOW

TRANSPORTATION FACILITIES:
 A. T. B. S. F. RAILROAD
 18 STATE ROAD
 66 FEDERAL ROAD
 AIRLINE

LAND AREA
 ACRES OWNED BY W.D. _____
 ACRES LEASED BY W.D. _____
 ACRES LEASED FROM W.D. _____
 ACRES TRANSFERRED TO W.D. _____
 ACRES DONATED TO W.D. _____

DISPOSALS
 ACRES SOLD _____
 ACRES TRANSFERRED _____
 ACRES EXCHANGED _____
 ACRES OTHERWISE _____

- LEGEND
- BOUNDARY LINE
 - STATE OR PROVINCE LINE
 - COUNTY LINE
 - CIVIL DISTRICT PRECINCT
 - LAND-GRANT LINE
 - CITY, VILLAGE OR BOROUGH
 - CEMETERY, SMALL PARK, ETC.
 - TOWNSHIP LINE
 - SECTION LINE



TRACT NO.	TARGET NO.	VENDOR/LESSOR	ACREAGE	RECORD DATA / LEASE NO.
1	1	CARMY SITES	150	Public Land Order No. 123 dated 10 May 1943
2	2	ROBERT C. WINGGROVE ET UX	150	Public Land Order No. 123 dated 10 May 1943
3	3	WILLIAM L. HARRARD ET UX	150	Public Land Order No. 123 dated 10 May 1943
4	4	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
5	5	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
6	6	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
7	7	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
8	8	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
9	9	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
10	10	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
11	11	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
12	12	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
13	13	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
14	14	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
15	15	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
16	16	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
17	17	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
18	18	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
19	19	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943
20	20	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943

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20	20	FRANK J. CHARLTON ET UX	150	Public Land Order No. 123 dated 10 May 1943

TRANSFER DATA

Without prejudice to the public domain, the State and County Roads and Highways, as to those in the 43-45, 62-64, 65-67, 68-70, 71-73, 74-76, 77-79, 80-82, 83-85, 86-88, 89-91, 92-94, 95-97, 98-100, 101-103, 104-106, 107-109, 110-112, 113-115, 116-118, 119-121, 122-124, 125-127, 128-130, 131-133, 134-136, 137-139, 140-142, 143-145, 146-148, 149-151, 152-154, 155-157, 158-160, 161-163, 164-166, 167-169, 170-172, 173-175, 176-178, 179-181, 182-184, 185-187, 188-190, 191-193, 194-196, 197-199, 200-202, 203-205, 206-208, 209-211, 212-214, 215-217, 218-220, 221-223, 224-226, 227-229, 230-232, 233-235, 236-238, 239-241, 242-244, 245-247, 248-250, 251-253, 254-256, 257-259, 260-262, 263-265, 266-268, 269-271, 272-274, 275-277, 278-280, 281-283, 284-286, 287-289, 290-292, 293-295, 296-298, 299-301, 302-304, 305-307, 308-310, 311-313, 314-316, 317-319, 320-322, 323-325, 326-328, 329-331, 332-334, 335-337, 338-340, 341-343, 344-346, 347-349, 350-352, 353-355, 356-358, 359-361, 362-364, 365-367, 368-370, 371-373, 374-376, 377-379, 380-382, 383-385, 386-388, 389-391, 392-394, 395-397, 398-400, 401-403, 404-406, 407-409, 410-412, 413-415, 416-418, 419-421, 422-424, 425-427, 428-430, 431-433, 434-436, 437-439, 440-442, 443-445, 446-448, 449-451, 452-454, 455-457, 458-460, 461-463, 464-466, 467-469, 470-472, 473-475, 476-478, 479-481, 482-484, 485-487, 488-490, 491-493, 494-496, 497-499, 500-502, 503-505, 506-508, 509-511, 512-514, 515-517, 518-520, 521-523, 524-526, 527-529, 530-532, 533-535, 536-538, 539-541, 542-544, 545-547, 548-550, 551-553, 554-556, 557-559, 560-562, 563-565, 566-568, 569-571, 572-574, 575-577, 578-580, 581-583, 584-586, 587-589, 590-592, 593-595, 596-598, 599-601, 602-604, 605-607, 608-610, 611-613, 614-616, 617-619, 620-622, 623-625, 626-628, 629-631, 632-634, 635-637, 638-640, 641-643, 644-646, 647-649, 650-652, 653-655, 656-658, 659-661, 662-664, 665-667, 668-670, 671-673, 674-676, 677-679, 680-682, 683-685, 686-688, 689-691, 692-694, 695-697, 698-700, 701-703, 704-706, 707-709, 710-712, 713-715, 716-718, 719-721, 722-724, 725-727, 728-730, 731-733, 734-736, 737-739, 740-742, 743-745, 746-748, 749-751, 752-754, 755-757, 758-760, 761-763, 764-766, 767-769, 770-772, 773-775, 776-778, 779-781, 782-784, 785-787, 788-790, 791-793, 794-796, 797-799, 800-802, 803-805, 806-808, 809-811, 812-814, 815-817, 818-820, 821-823, 824-826, 827-829, 830-832, 833-835, 836-838, 839-841, 842-844, 845-847, 848-850, 851-853, 854-856, 857-859, 860-862, 863-865, 866-868, 869-871, 872-874, 875-877, 878-880, 881-883, 884-886, 887-889, 890-892, 893-895, 896-898, 899-901, 902-904, 905-907, 908-910, 911-913, 914-916, 917-919, 920-922, 923-925, 926-928, 929-931, 932-934, 935-937, 938-940, 941-943, 944-946, 947-949, 950-952, 953-955, 956-958, 959-961, 962-964, 965-967, 968-970, 971-973, 974-976, 977-979, 980-982, 983-985, 986-988, 989-991, 992-994, 995-997, 998-1000.

Department of the Interior, Bureau of Land Management, Pacific Southwest Region

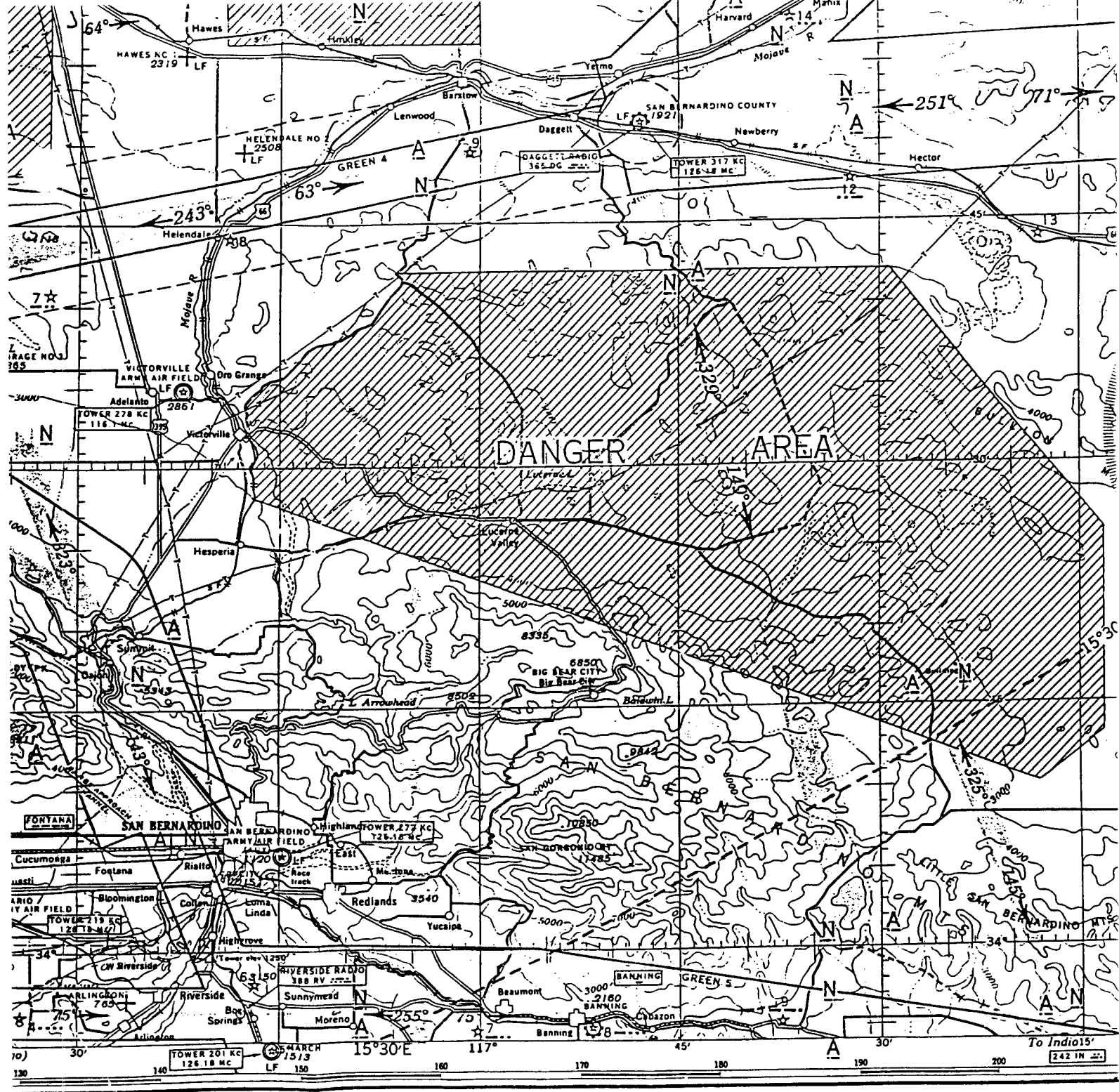
WAR DEPARTMENT, O.C.E.
 CONSTRUCTION DIVISION
 REAL ESTATE
 VICTORVILLE ARMY AIR FIELD
 BOMBING RANGES
 MILITARY RESERVATION

RECOMMENDED: [Signature] DATE: [Date]
 APPROVED: [Signature] DATE: [Date]

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DATE	BY	REVISIONS	APPROVED






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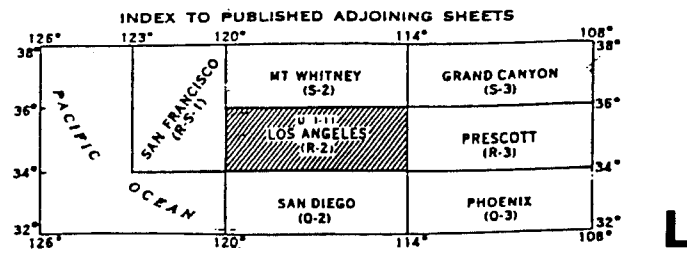
LOS ANGELES (R-2)

N3400-W114 00/200X600

SECTIONAL AERONAUTICAL CHART

- Hazard Areas in the United States**
-  **Caution Area-Visible Hazard**
(avoid if practicable)
 -  **Danger Area-Invisible Hazard**
(specific authority required for flight within area)
 -  **Prohibited Area**
(aircraft prohibited unless engaged in defense mission)
 -  **Tunnel Area**
(thru traffic restricted to altitudes as shown)
 -  **Range Approach Channel**
(showing local flying & airport control areas)

Consult Civil Aeronautics Administration
Notices for changes occurring in aeronautical
data on this chart after



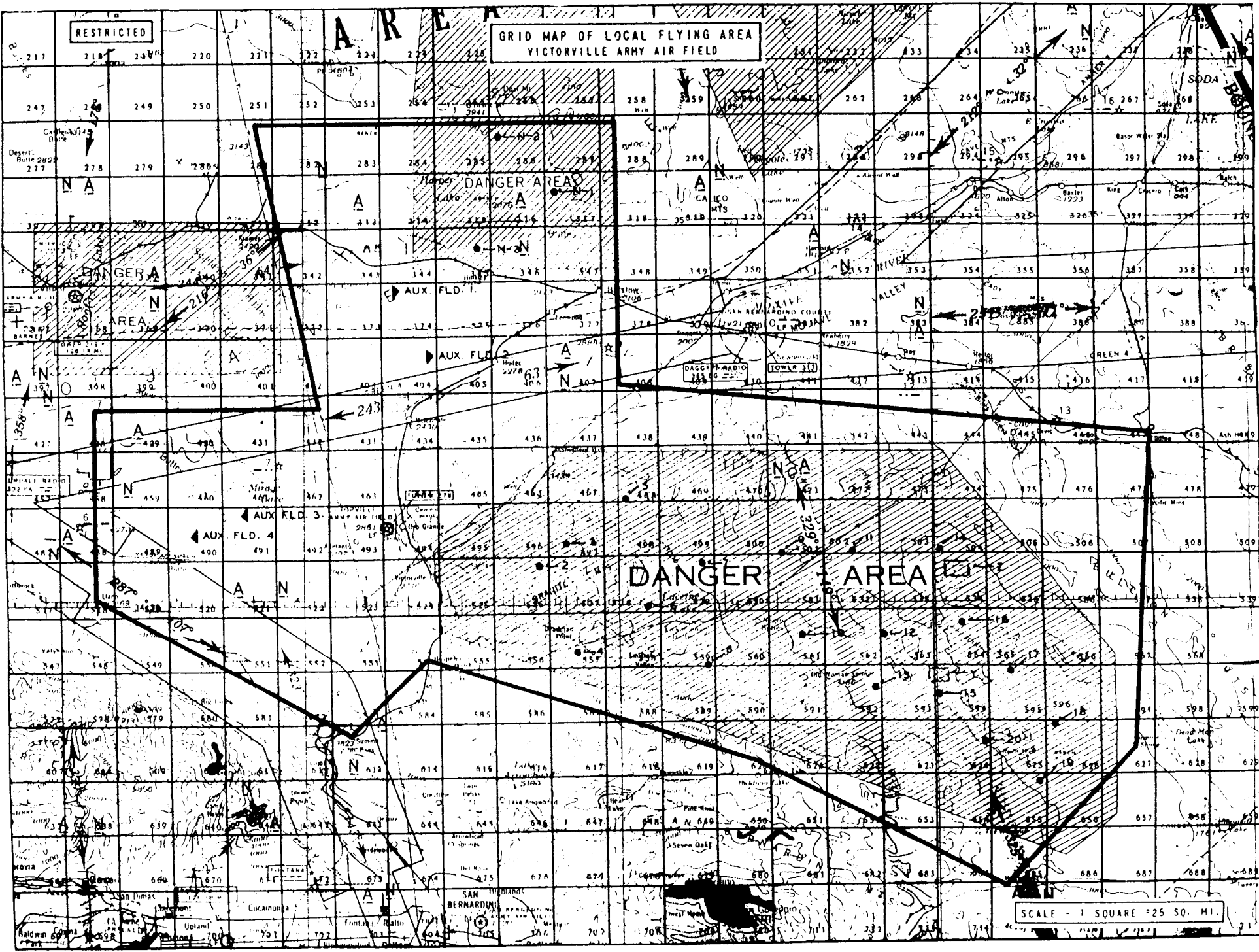
International Map of the World Index: I-11, Upper half
Letters and numerals following chart name thus: SEATTLE (X-1) refer
only to Sectional Aeronautical Chart index of the United States

AUG. 10, 1944

L-2

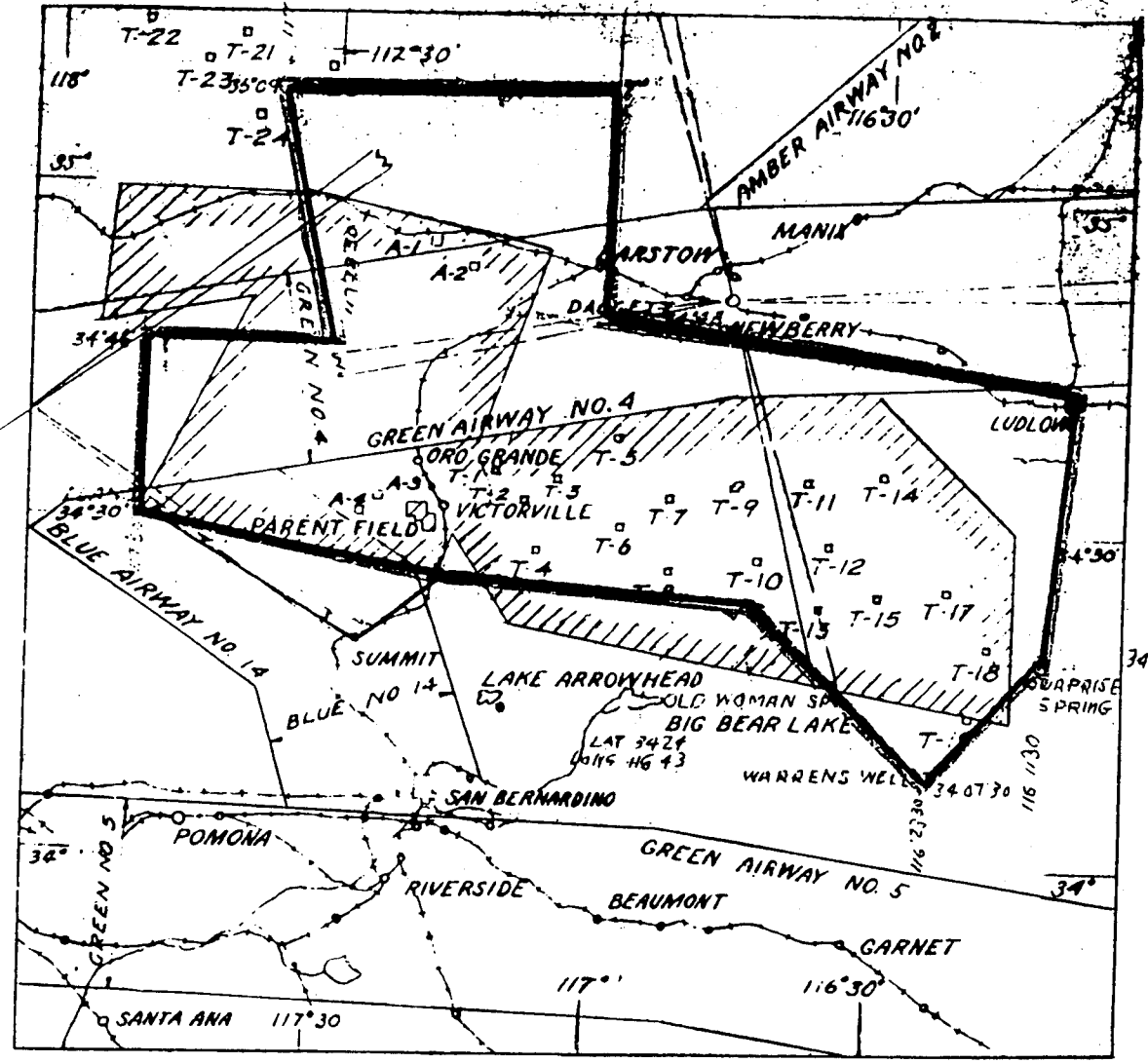
RESTRICTED

GRID MAP OF LOCAL FLYING AREA VICTORVILLE ARMY AIR FIELD



L-3

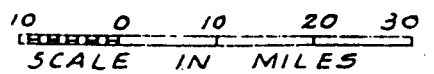
VICTORVILLE



FLYING TRAINING AREA AND DANGER AREA

11 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 D. Butler

Date May 25, 1943

RESTRICTED

BOMBING TARGETS

EAST RANGE
VICTORVILLE ARMY AIR FIELD

RESTRICTED

VICTORVILLE
ARMY AIR
FIELD

FIELD ALTITUDE

TARGET ALT.	2861'
2	2940'
3	3210
4	3080
5	3265
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

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

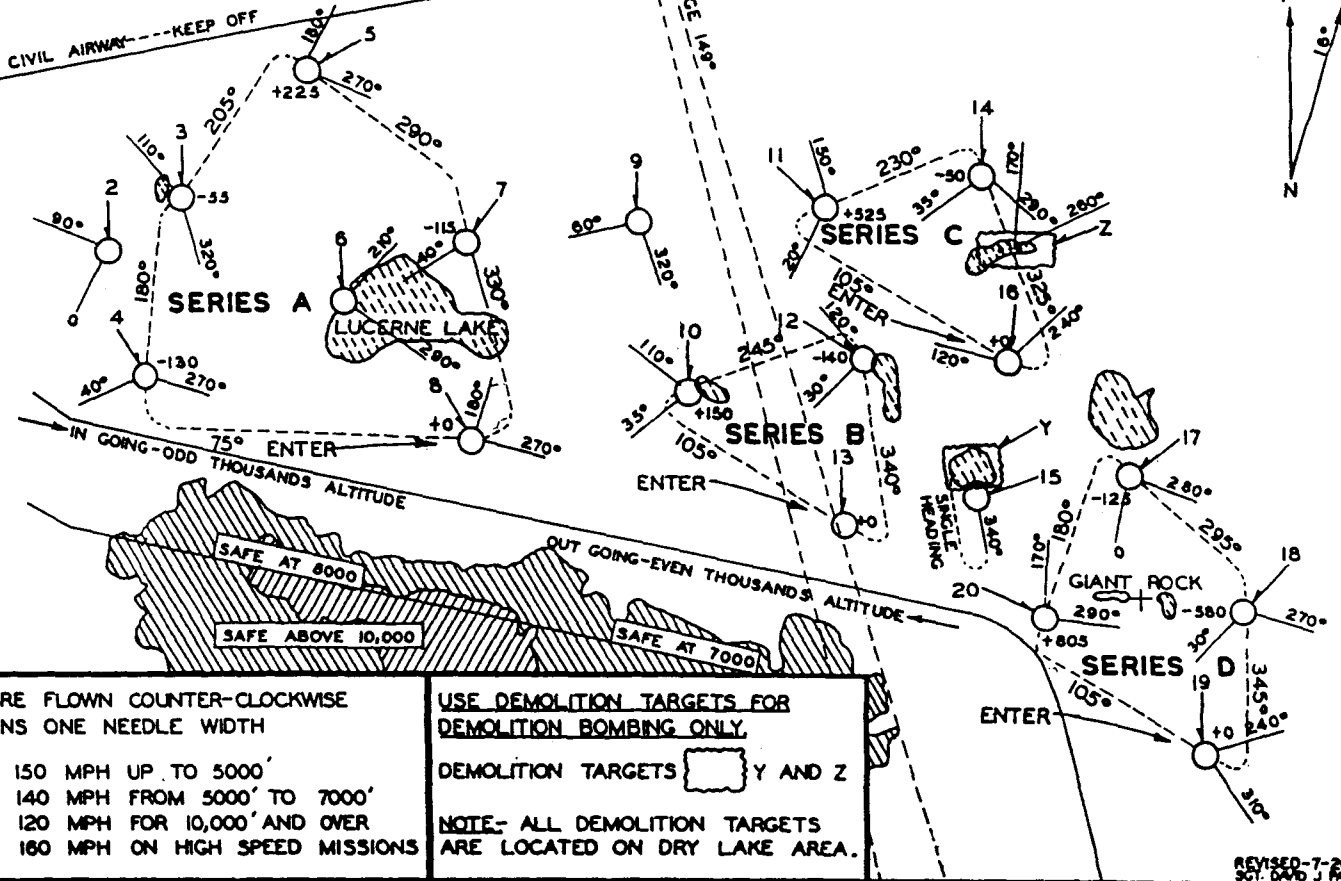
USE DEMOLITION TARGETS FOR
DEMOLITION BOMBING ONLY.

DEMOLITION TARGETS Y AND Z

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

CIVIL AIRWAY---KEEP OFF

ONCETTI RANGE 148°
365, K.C.



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

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX M

ARCHIVE SEARCH REPORT CORRESPONDENCE

NOT USED

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX N

PROJECT AREA BIBLIOGRAPHY

APPENDIX N
PROJECT AREA BIBLIOGRAPHY

Project Area(s)	OE Classification	Document Name	Document Date	Document Source	Description and Comments
A	Confirmed	Report on Dedudding	20-Oct-47	NARA - Pacific Region	E-2: Certifies the area to be explosive free.
B	Potential	Report on Dedudding	20-Oct-47	NARA - Pacific Region	E-2: Certifies the area to be explosive free.
A	Confirmed	Dedudding Report	25-Sep-46	NPRC	E-3: Statement that only practice bombs were used.
B	Potential	Dedudding Report	25-Sep-46	NPRC	E-3: Statement that only practice bombs were used.
A	Confirmed	Abandonment of Target No. 15	12-Apr-45	NARA - Archives II	F-13: States that site has been used for bombing target.
B	Potential	Abandonment of Target No. 15	12-Apr-45	NARA - Archives II	F-13: States that site has been used for bombing target.
A	Confirmed	Site Photographs	23-Jan-98	Visual Inspection	J-1 to J-14: Photographs of target area and bomb debris.
A	Confirmed	Aerial Photograph	25-Jul-89	U.S. Geological Survey	K-1 & K-2: Photographs of Target Area
B	Potential	Aerial Photograph	25-Jul-89	U.S. Geological Survey	K-1 & K-2: Photographs of Target Area

ORDNANCE AND EXPLOSIVES PROJECT
ARCHIVES SEARCH REPORT
FOR
FORMER VICTORVILLE PRECISION
BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

APPENDIX O

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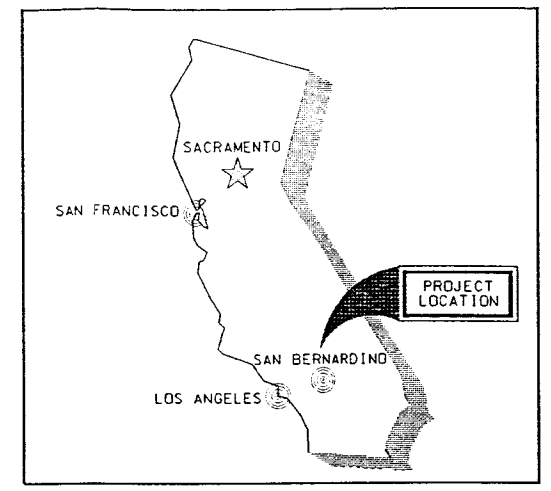
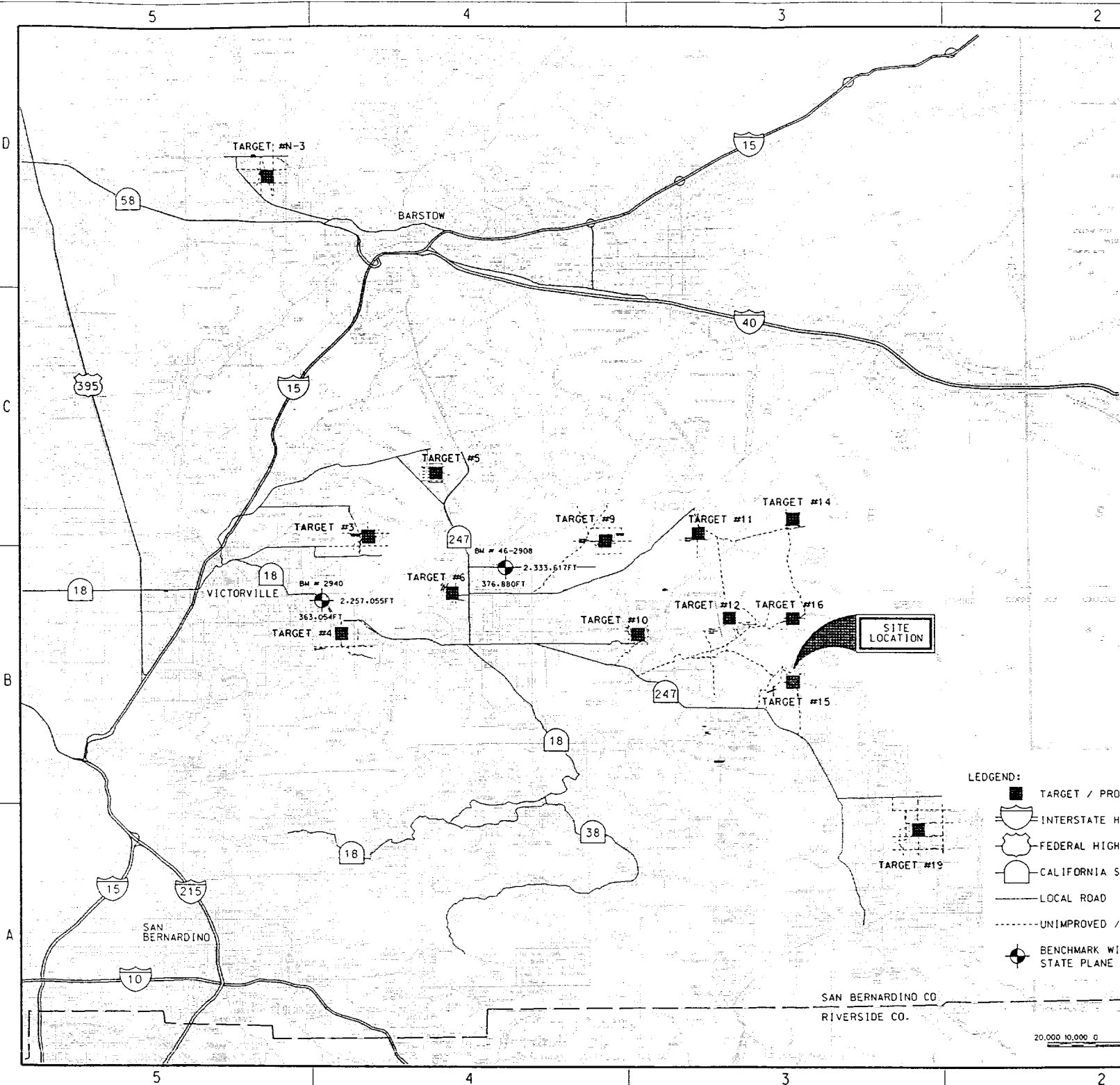
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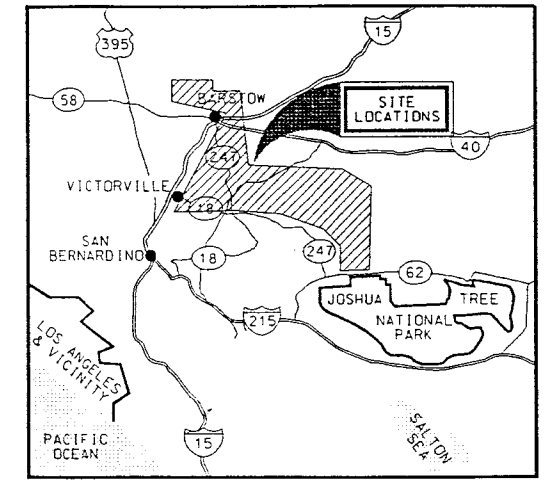
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FOR
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BOMBING RANGE (PBR) NO. 15
VICTORVILLE, CALIFORNIA
PROJECT NUMBER J09CA068101

PLATES



STATE MAP OF CALIFORNIA



VICINITY MAP

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

Revisions		
Symbol	Description	Date Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS		
Designed by: E. A. AUBREY		VICTORVILLE PBR NO. 15 VICTORVILLE, CA
Drawn by: T. L. GEERLINGS		
Checked by: N. A. IAIENNARO		SITE MAP
Reviewed by: R. E. HOFFMAN		
Approved by: J. V. MUDD, COL., CE	Scale: 20,000 10,000 0 20,000FT 40,000FT	Project Number: JO9CA068101
	Date: 	Sheet Reference Number:
	Drawing Code: 	

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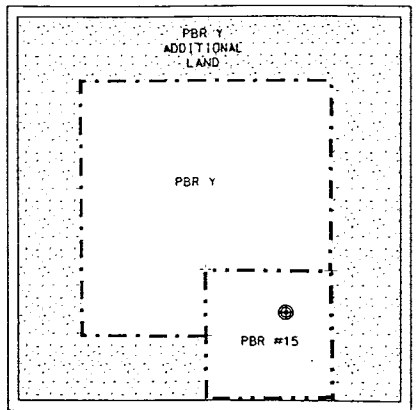
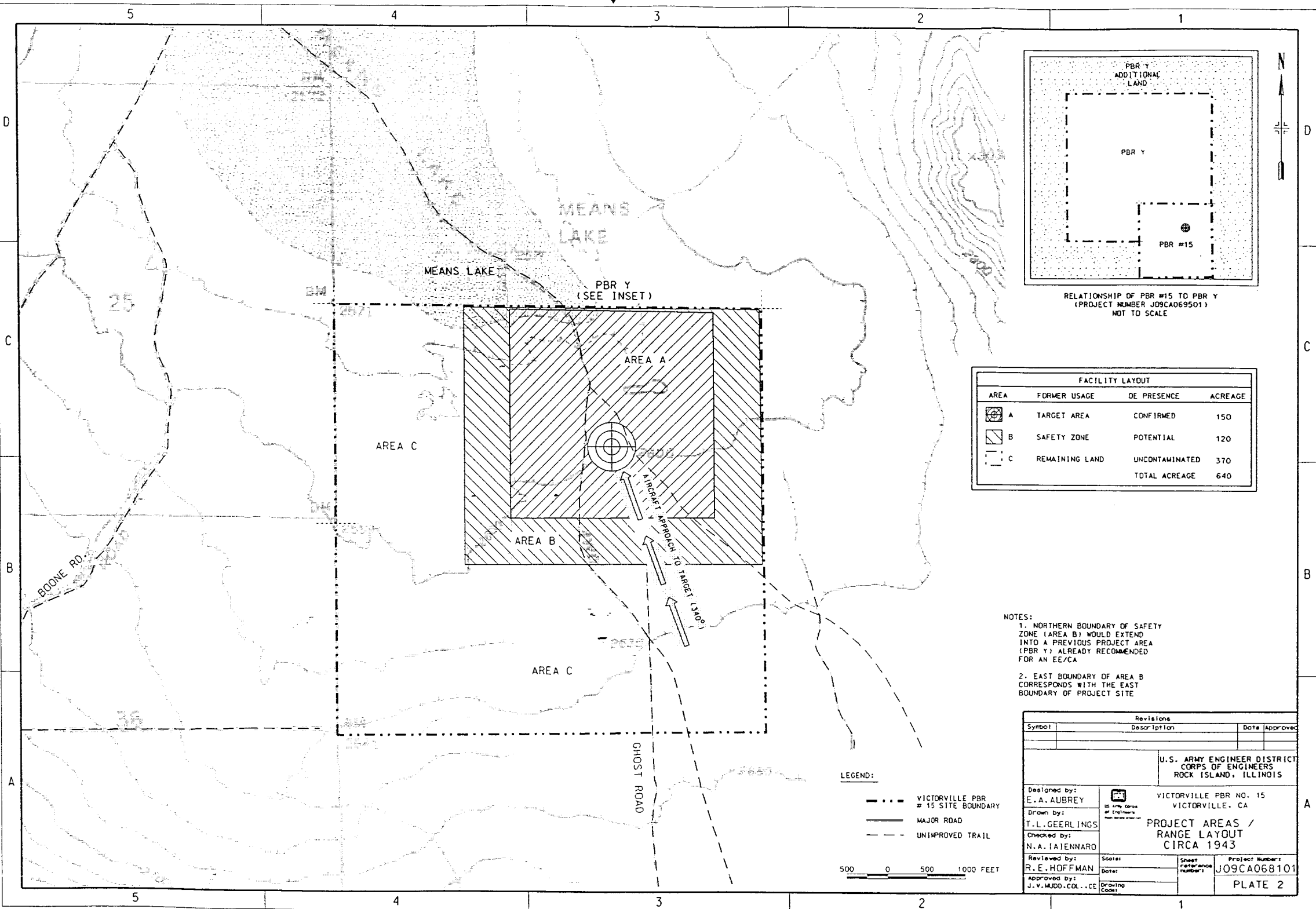
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4

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2

1



RELATIONSHIP OF PBR #15 TO PBR Y
(PROJECT NUMBER J09CA069501)
NOT TO SCALE

FACILITY LAYOUT			
AREA	FORMER USAGE	DE PRESENCE	ACREAGE
	A TARGET AREA	CONFIRMED	150
	B SAFETY ZONE	POTENTIAL	120
	C REMAINING LAND	UNCONTAMINATED	370
			TOTAL ACREAGE 640

- NOTES:
1. NORTHERN BOUNDARY OF SAFETY ZONE (AREA B) WOULD EXTEND INTO A PREVIOUS PROJECT AREA (PBR Y) ALREADY RECOMMENDED FOR AN EE/CA
 2. EAST BOUNDARY OF AREA B CORRESPONDS WITH THE EAST BOUNDARY OF PROJECT SITE

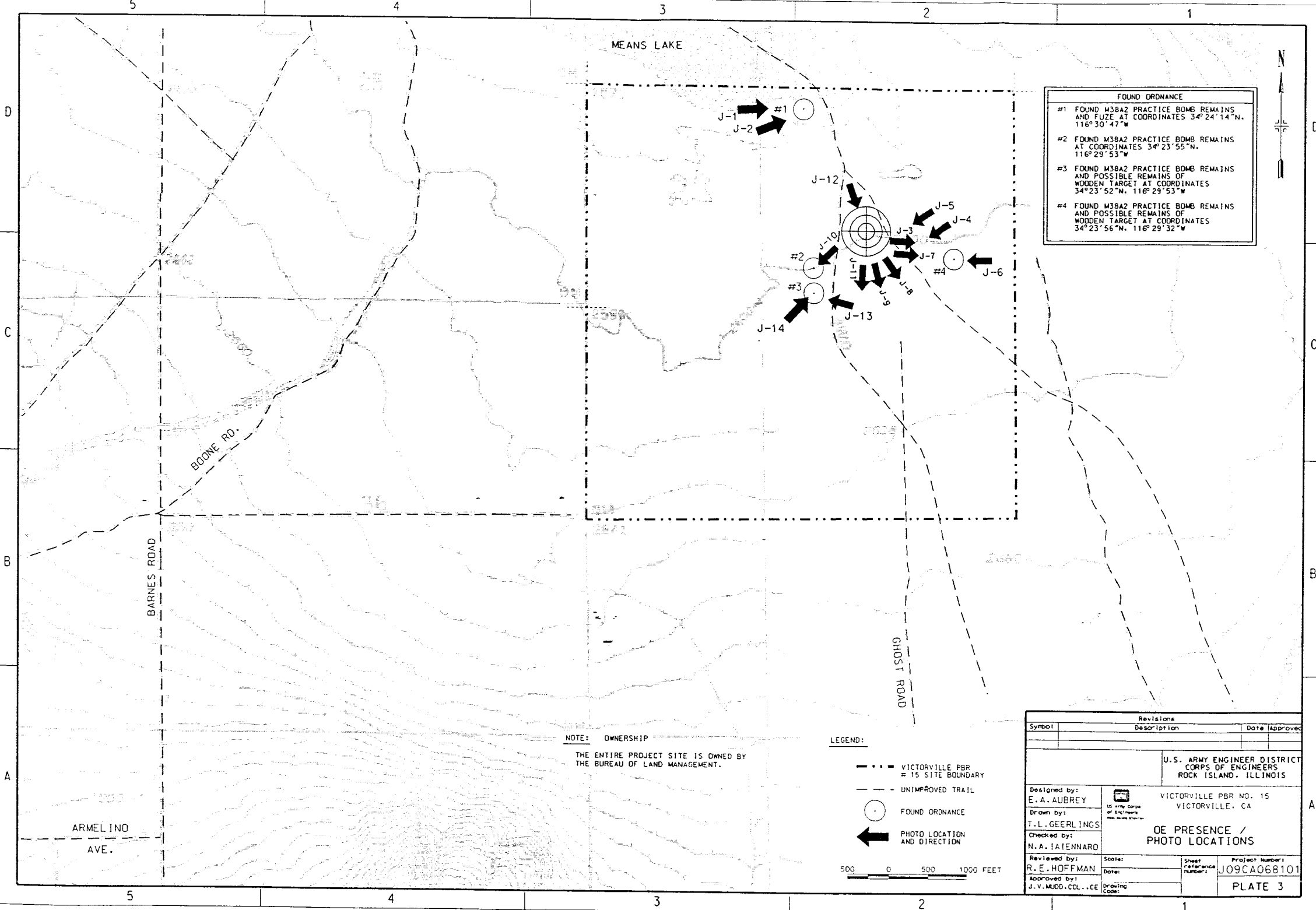
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Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: E. A. AUBREY		VICTORVILLE PBR NO. 15 VICTORVILLE, CA	
Drawn by: T. L. GEERLINGS		PROJECT AREAS / RANGE LAYOUT CIRCA 1943	
Checked by: N. A. LAIENNARD	Scale:		
Reviewed by: R. E. HOFFMAN	Date:		J09CA068101
Approved by: J. V. MUDD, COL., CE	Drawing Code:		PLATE 2

LEGEND:

- VICTORVILLE PBR # 15 SITE BOUNDARY
- MAJOR ROAD
- UNIMPROVED TRAIL

500 0 500 1000 FEET

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FOUND ORDNANCE	
#1	FOUND M38A2 PRACTICE BOMB REMAINS AND FUZE AT COORDINATES 34°24'14"N. 116°30'47"W
#2	FOUND M38A2 PRACTICE BOMB REMAINS AT COORDINATES 34°23'55"N. 116°29'53"W
#3	FOUND M38A2 PRACTICE BOMB REMAINS AND POSSIBLE REMAINS OF WOODEN TARGET AT COORDINATES 34°23'52"N. 116°29'53"W
#4	FOUND M38A2 PRACTICE BOMB REMAINS AND POSSIBLE REMAINS OF WOODEN TARGET AT COORDINATES 34°23'56"N. 116°29'32"W

NOTE: OWNERSHIP
 THE ENTIRE PROJECT SITE IS OWNED BY THE BUREAU OF LAND MANAGEMENT.

LEGEND:

- VICTORVILLE PBR # 15 SITE BOUNDARY
- - - UNIMPROVED TRAIL
- FOUND ORDNANCE
- ➔ PHOTO LOCATION AND DIRECTION

500 0 500 1000 FEET

Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: E. A. AUBREY	 U.S. Army Corps of Engineers Rock Island District	VICTORVILLE PBR NO. 15 VICTORVILLE, CA	
Drawn by: T. L. GEERLINGS		OE PRESENCE / PHOTO LOCATIONS	
Checked by: N. A. IATENNARD	Reviewed by: R. E. HOFFMAN	Scale: Date:	Project Number: J09CA068101
Approved by: J. V. MIDD. COL. . . CE	Drawing Code:	Sheet Reference Number:	PLATE 3

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