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# FINAL REPORT

## SITE OT-04 = SWMU 102
## UNEXPLODED ORDNANCE (UXO)
## REMOVAL ACTION
## HOLLOMAN AIR FORCE BASE

JULY 28, 1994

# HUMAN FACTORS APPLICATIONS, INC.
# EXPLOSIVE ORDNANCE DISPOSAL DIVISION

## UNEXPLODED ORDNANCE (UXO) CLEARANCE OPERATIONS

# HOLLOMAN AIR FORCE BASE FINAL REPORT

| | |
|---|---|
| **Contract Number:** | DACA87-92-D-0133 |
| **Delivery Order:** | 0013 |
| **Client Name:** | U.S. Army Corps of Engineers |
| **Prime Contractor:** | Human Factors Applications, Inc. |
| **Project Title:** | Holloman Air Force Base |
| **Project Location:** | Alamagordo, New Mexico |

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# EXECUTIVE SUMMARY

Human Factors Applications, Inc. was contracted by the U.S. Army Corps of Engineers, Huntsville Division (CEHND) to safely locate, identify, and dispose of all surface OEW and OEW related scrap on Site OT-04, Holloman Air Force Base, New Mexico. The Statement of Work (SOW) was later modified to verify that all bottles suspected of containing Picric Acid were removed from the Picric Acid Pit. Site OT-04 (SWMU 102), located in the north base area of Holloman AFB, was originally used as a solid waste disposal site around 1958. Various types of materials, including an empty fuming nitric acid transport trailer, spent rocket motors, waste oxidizers, propellants, and other fuel compounds for rocket and sled tests, were dumped and buried on a one-half acre tract in three drainages of a side channel to an arroyo named Rita's Draw.

During this removal action, HFA surface cleared approximately one acre. HFA cleared approximately 17,300 pounds of OEW related scrap, one Nitric Acid tank trailer, subsurface verified the Picric Acid Pit free of suspected bottles, and constructed a security fence.

# HOLLOMAN AIR FORCE BASE
# FINAL REPORT

## 1 INTRODUCTION

1.1 The Explosive Ordnance Division of Human Factors Applications, Inc. (HFA) was contracted by the U.S. Army Corps of Engineers, Huntsville Division, under contract DACA87-92-D-0133 "Remediation of Various Sites West of the Mississippi." Delivery Order #0013 was issued to remove ordnance related scrap and locate possible picric acid contamination at Site OT-04 (Acid Trailer Burial Site) on Holloman AFB. The Scope of Work (Appendix A) required that all metal scrap was to be removed from the site. Construction of a high security chain link fence around an existing plastic mesh fence was to be sub-contracted locally.

1.2 As shown in Figure 1, Site OT-04, the Acid Trailer Burial Site is located adjacent to an arroyo known as Rita's Draw. The site is a solid waste management unit (SWMU) listed on Table 1 of Holloman's HSWA Permit. The corresponding RCRA name and reference are Acid Trailer Disposal Site, SWMU No. 102. Waste materials were dumped and buried on a one-half acre tract of land along the banks of the arroyo.

1.3 Radian Corporation (Radian), under contract with the U.S. Army Corps of Engineers, Omaha District, conducted a Remedial Investigation (RI) of this site as part of the U.S. Air Force Installation Restoration Program. During this RI, Radian used geophysical techniques to delineate the site boundary and determine locations of buried waste. Following this survey, exploratory pits, shown in Figure 2, were dug to determine and characterize the wastes disposed of at the site. Only one acid trailer was uncovered. Other waste excavated included laboratory equipment, solid rocket boosters, and over 100 amber bottles containing unknown chemical compounds. Of these bottles, seven were either suspected or identified as containing picric acid and were disposed of by the Base EOD Detachment. The remainder of the bottles were disposed of in coordination with the Base Environmental Engineering Department in accordance with state and federal regulations. The acid trailer was confirmed to be empty and in good condition.

1.4 At the end of the investigation, the pits containing no waste were backfilled and staked. The pits containing the solid rocket boosters and the acid tanker were left open. In addition, four monitored wells were installed around the perimeter, shown in Figure 3, to determine if a release to ground water had resulted from the waste disposal activities. The monitoring well network installed was based on groundwater flowing northwest. Radian developed, sampled, and slug tested the wells.

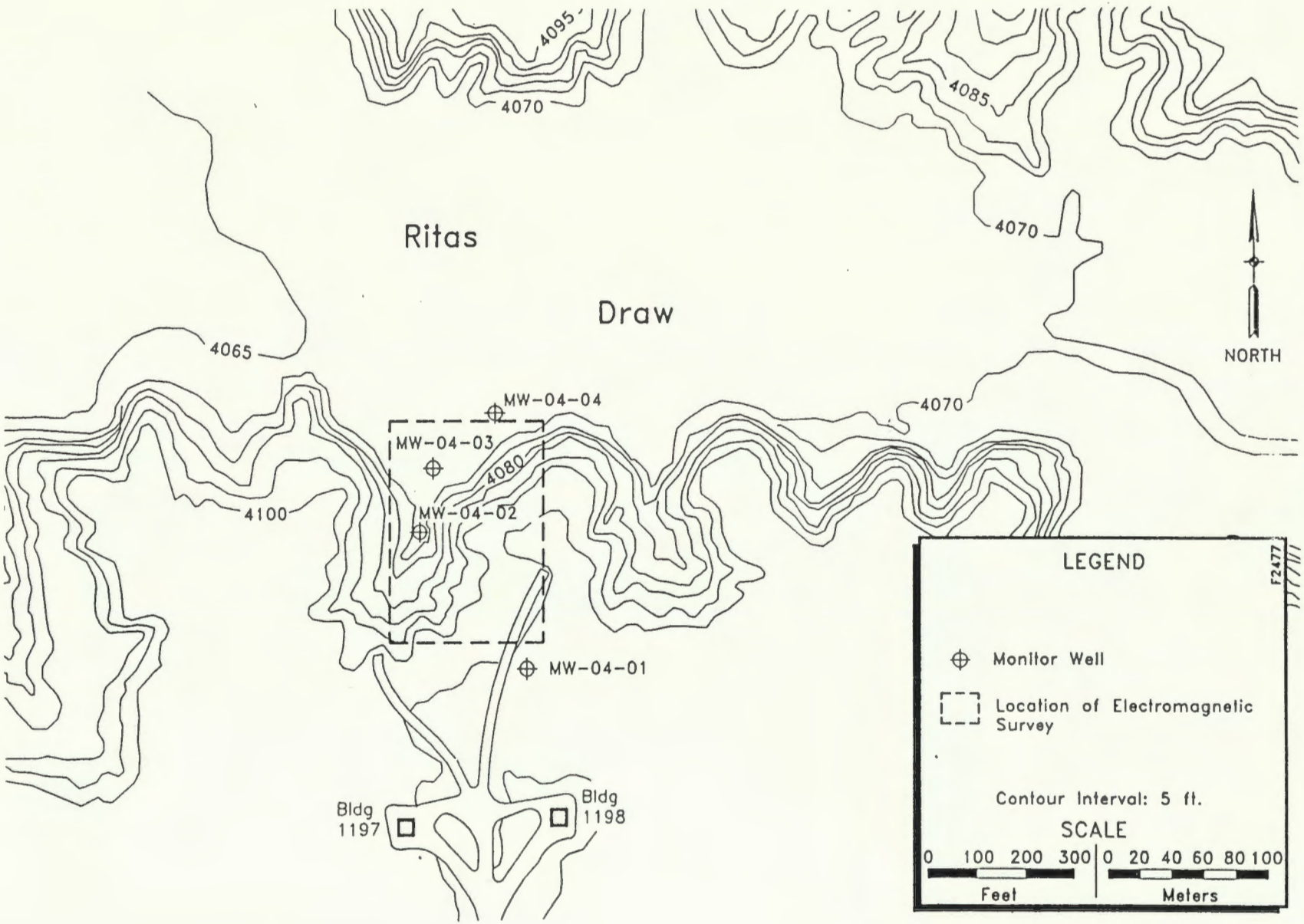
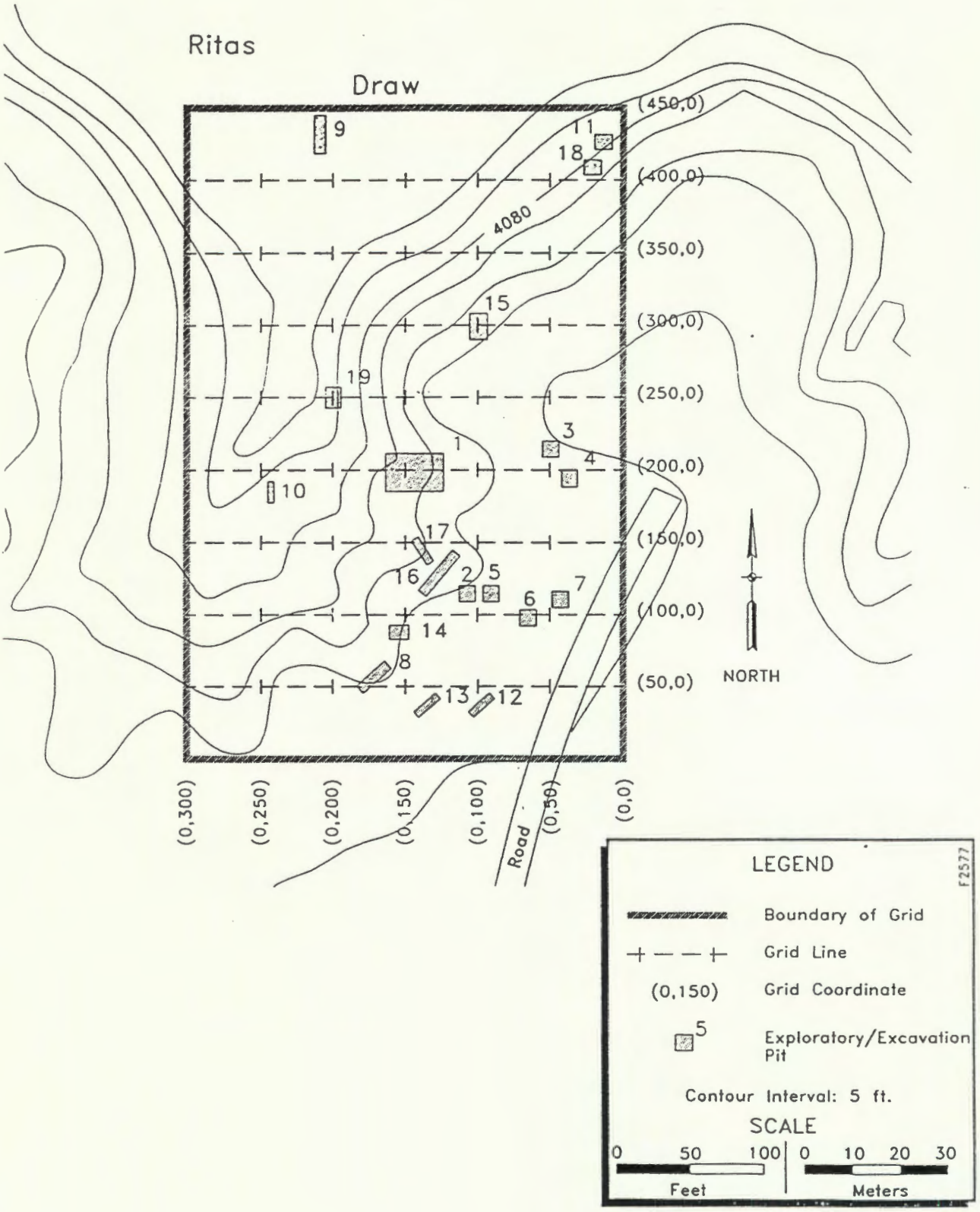



Figure 1
Boundary Map and Monitor Well Locations for Site 4

Figure 2
Location of Exploratory Pits
at Site 4



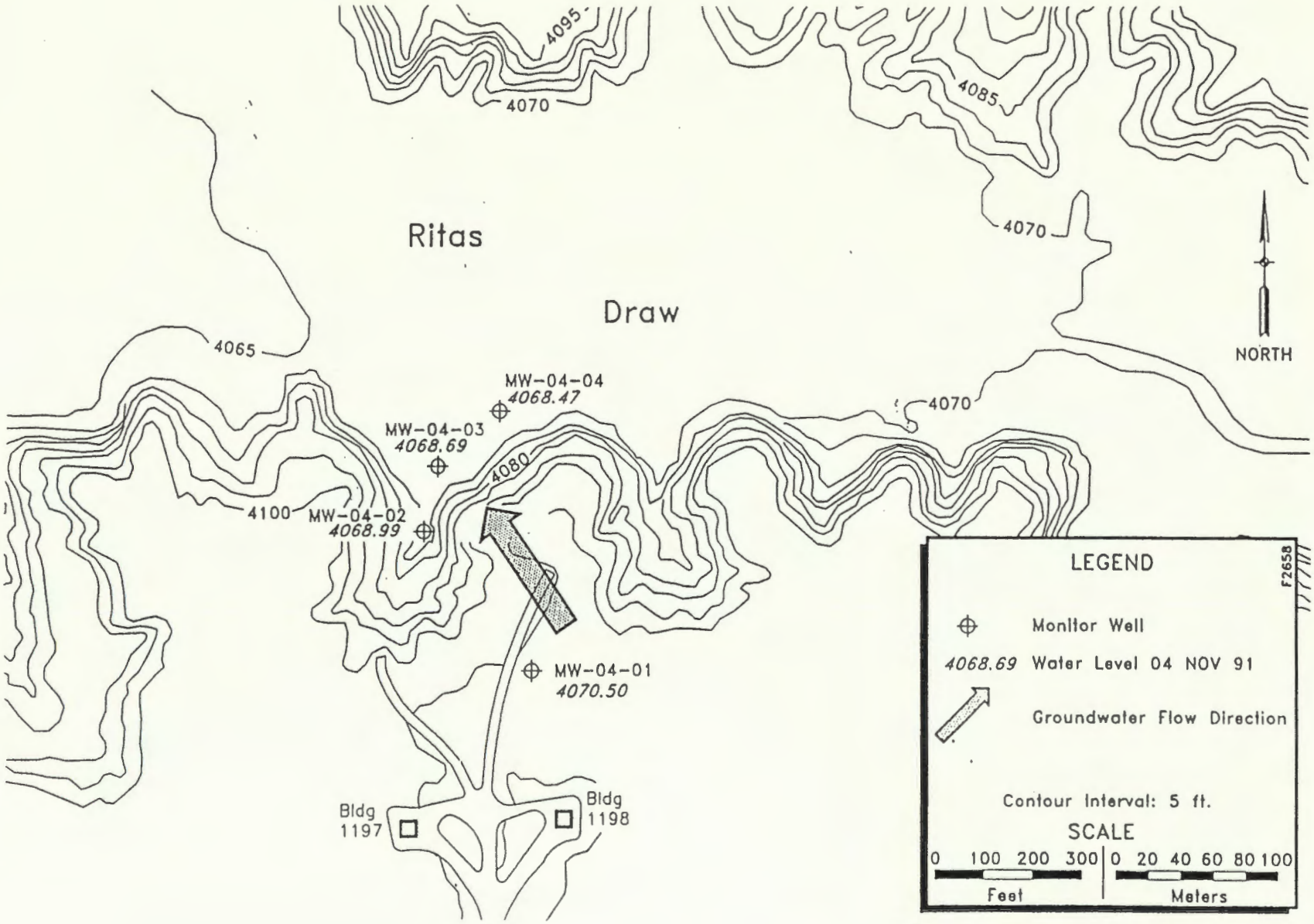



Figure 3
Monitor Well Locations and
Groundwater Flow Direction for Site 4

1.5 Radian's risk assessment indicates an unacceptable risk to the environment from selenium detected in the monitor wells down-gradient of the site. Because of the uncertainty surrounding the source of selenium, Radian recommended that a monitoring well be installed in the Rita's Draw up-gradient of this site. This was done in the Spring of 1993. Subsequent soil samples were taken from the drill cuttings for analysis. Selenium was detected in the soil sample ranging from 0 to 12 ppm, selenium upper tolerance limits for soil is 10 ppm. The groundwater will be retested in focused RFI in the Fall of fiscal year 1995. In addition, Radian recommended the expeditious removal of the explosive threat, to include the Acid Trailer, at the Site. Further information, sample results, conclusions, and recommendations on this RI can be found in the "Remedial Investigation Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, NM" dated October 1992.

## 2 DISCUSSION

### 2.1 Mobilization and Support

2.1.1 Mobilization occurred on March 8, 1994. During this day, vehicles were leased, property inventoried (Government Property Tracking Log at Appendix B), and a site reconnaissance was conducted with the entire team. Due to the isolation of the site and time restraints of the project, no office trailers were leased. All trucks were leased from Alamagordo, New Mexico.

### 2.2 Clearance of Scrap Metal

2.2.1 A total of four grids were established within the site. These grids were established to control the clearance operation and aid in recording the location of UXOs within the site. Grids 1 and 2 were 100' x 160', grid 3 was 60' x 175' and grid 4 was 200' long with its width varying from 0 - 60'. A map of grid layout with location of ordnance/scrap removal is shown at Appendix C.

2.2.2 Scrap found in the area consisted of rocket motors, jato bottles, grenade spoons, missile parts, and an acid tanker. (See photographs at Appendix D.) A water pumping truck from the base was brought in to the site and all ordnance related items were washed with high pressure water prior to

inspection by base EOD. On the 16th of March all scrap was consolidated and hauled to DRMO (Defense Reutilization Management Office). The total weight of all scrap turned into DRMO was 17,300 pounds.

2.2.3 Under this Delivery Order's Statement of Work, all UXO disposal was the responsibility of the Base EOD Detachment. HFA consolidated all UXO within the fenced site and the Environmental Office and EOD Detachment were notified. The EOD Detachment inspected these items in conjunction with their inspection and certification of the UXO scrap prior to HFA's turn-in of the scrap to the DRMO.

2.3 Picric Acid Pit Dig

2.3.1 On 9 March an amber bottle containing a dark substance was found in the spoils from the Picric Acid Pit while removing metal scrap. The bottle was monitored with a radiac and no radiation was found. The bottle was left where found, marked with stakes and caution tape, and the installation notified.

2.3.2 On 10 March the area was set up for digging in the Picric Acid Pit. A hotline was set up at the gate to the area and all personnel were dressed out in Level "C". Two HFA employees dug by hand while one remained on site as a safety observer. The sides of the pit were sloped to prevent a confined space hazard. An area of two feet was excavated in all directions around the pit without finding any further bottles. All personnel then proceeded through the hot line where their boots and masks were decontaminated with detergent and water. The decon water was collected in sample bottles and shipped to GPES Lab to be tested for Picric Acid. All PPE was collected and deposited in an overpak drum along with all possibly contaminated decon equipment. The drums were sealed, labeled, and delivered to the Environmental Office Waste Storage Lot pending laboratory analysis. Laboratory analysis of the rinsate and PPE determined that neither was contaminated with Picric Acid and the Base Environmental Office was notified.

2.4 Fence Construction

2.4.1 The fence construction occurred from March 9-17, 1994. HFA provided UXO avoidance to the fence subcontractor during this time. This support included magnetometer searches of the fence construction area and fence post holes, and escort of the subcontractor personnel while on site.

2.4.2 While conducting this support, HFA personnel observed pieces of rocket propellant, blasting caps, and squibs outside of the Delivery Order site

boundary. The greatest concentration of this UXO was on the eastern side of the fence and extended outwardly about 500 yards. Since this area was outside our Scope of Work, the HFA Project Manager notified the Base Environmental Office, EOD Detachment, and CEHND Safety Specialist of these conditions.

2.5 Surveying

2.5.1 The surveyors arrived on 11 March and located the sites for their markers. HFA personnel monitored these locations with a magnetometer to ensure that no hazards existed prior to marker placement.

2.6 Filling in Pits

2.6.1 After all the scrap was cleared from the area, the existing pits were filled to prevent any fall hazards in front of the front end loader. During this operation three more bottles of unknown substances were uncovered from the spoils of the acid trailer pit. These bottles were marked with stakes and caution tape, and the Environmental Office was notified.

## 3 QUALITY CONTROL

3.1 When magnetometers were used in support of the fence contractors, they were tested daily against a steel bar approximating the size of a 20mm round buried two feet below the surface. This equipment check was accomplished each morning and as needed during the day to ensure magnetometers were in proper working condition.

3.2 Quality Control inspections were performed by the HFA Project Manager. The PM performed visual inspections of all four grids and the acid pit after clearance operations were completed.

3.3 Safety Meeting Reports and Daily Journals are located in Appendices E and F, respectively, of this report.

## 4 SUMMARY

4.1 The tasks required under this delivery order were accomplished during the following dates.

| | |
|---|---|
| Mobilization | 8 Mar, 1994 |
| Scrap Clearance | 8-15 Mar, 1994 |
| Picric Acid Pit Dig | 10 Mar, 1994 |
| Fence Construction | 9-17 Mar, 1994 |
| Surveying | 11 Mar, 1994 |
| Filling in Pits | 16 Mar, 1994 |
| Demobilization | 17 Mar, 1994 |

4.2 A total of 320 man hours were used on site and a total of 655 vehicle miles were driven.

4.3 During this delivery order, all objectives of the SOW were accomplished within schedule and budget. This was due in part to the great support provided by the Holloman Air Force Base Environmental Office representative, who conducted liaison between other Base facilities.

## 5 RECOMMENDATIONS

5.1 Based on the hazards posed by the propellant, blasting caps, and squibs outside the fenced area, HFA recommends that the area outside the fence be surface searched and cleared of UXO. The limit of the clearance should extend until no UXOs are located, rather than be limited to an arbitrary distance from the fence. Because of the inherent dangers these items present, this search should be conducted by either the local EOD Detachment or a qualified EOD company.

## 6 LESSONS LEARNED

6.1 The time frame for this removal operation allowed no margin for unknown site conditions, equipment failure, or mis-communications. If the Base Environmental Office had not been so responsive in providing support, or if the subcontractors did not report on time, this project could not have been completed within the time allotted. There was no margin for error.

6.2 Establishment of off-site communications was a problem that was solved through improvisation. The project radios HFA used would not net with the Base's radio net. Holloman AFB was not able to provide a radio link to the project site for emergency contact. Local cellular telephone companies would not short term lease phones for less than one year. Therefore, HFA established emergency radio contact by placing one of the project radios in the Base Fire Department's office at the airfield. This was an effective solution which provided HFA an emergency communications capability from the site.

6.3 During the conduct of the clearance, HFA was informed by the EOD Detachment that the DRMO probably would not accept the UXO scrap unless it had been washed. This criteria was verified and presented an immediate requirement for an on-site washing capability. The Base Environmental Office rapidly coordinated for a water tanker to be used by HFA to wash off the scrap. Had not the Environmental Office been supportive, the project completion would have been delayed while HFA searched for a source to lease this equipment.

## 7 DOCUMENTATION

7.1 Documentation for this report consisted of:

Holloman Work Plan and Safety, Health and Emergency Response Plan
Color Photographs of Site Operations
Video Tape of Site Operations
Survey Site and Grid Drawings
Equipment Usage Log
Manhours by Cost Code
Log of Scrap/UXOs
Visitors Log
Site Entry Log
Daily Operations Reports

# APPENDIX A

# SCOPE OF WORK

**STATEMENT OF WORK**
**UNEXPLODED ORDNANCE REMOVAL ACTION**
**HOLLOMAN AIR FORCE BASE, ALAMOGORDO, NM**

**4 August 1993**

**1.0 BACKGROUND AND GENERAL STATEMENT OF WORK:** The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR). Ordnance and Explosive Waste (OEW) contamination exist on property presently owned by the Department of the Air Force.

1.1 Explosive ordnance is a safety hazard and constitutes an imminent and substantial endangerment to the populace and site personal. During this action, it is the Government's intent to destroy all OEW encountered. This action will be performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104 and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits are required nor will be obtained.

1.1.1 OEW is not classified as hazardous waste, thus this action does not fall under the provisions of 29 CFR 1910.120.

1.1.2 This project does not require an on-site full time contractor project manager as identified in section C, subsection 3.1.1 of the basic contract.

1.2 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40 hour work week: either five 8-hour days or four 10-hours days. UXO personnel shall not perform UXO-related tasks more than 10 hours a day.

**1.3 General Description:**

1.3.1 Holloman Air Force base is located in the southeastern corner of New Mexico, (See Figure 1). It is in Otero county, approximately 7 miles east of Alamogorado. It borders the eastern side of the White Sands Missile Range. Holloman Air Force base was the site of early rocket and missile motor testing and is now the home base for stealth fighter testing and training. This SOW pertains to Site OT-04 shown more specifically in Figures 2 and 3.

1.3.2 Site OT-04 is located on the north base area of Holloman AFB. It is located adjacent to an arroyo know as Ritas Draw. This site was originally used as a Solid Waste Management Unit (SWMU) (SWMU #102). It was primarily used by the unconventional fuels storage area which used propellants, oxidizers, and other fuel compounds for rocket and sled test conducted on base. It is not

known exactly which contaminates where dumped on site, however the compounds typically stored included laboratory quantities of JP-4 (jet fuel), unsymmetrical dimethlhydrazine (UMDH), inhibited white fuming nitric acid (IWFNA), aniline, inhibited red fuming nitric acid (IRFNA), liquid oxygen (LOX), JPX (1:1 JP-4 and UDMH), and triethylaluminum (TEA).

**2.0 OBJECTIVE:** The contractor shall safely locate, identify, and dispose of all Picric acid and surface OEW located at the above site.

**3.0 DESCRIPTION OF SERVICES:**

3.1 TASK 1: SITE VISIT, WORK PLAN, AND EQUIPMENT PLAN. This task shall be accomplished in accordance with Section C, subsection 3.2.1 of the basic contract.

3.1.1 Site Visit. The site visit team shall not exceed three persons, one of whom shall be a senior UXO specialist, and shall not extend longer than 5 working days. The site visit shall include liaison visits and coordination with the following: base Environmental Office, emergency management personnel, law enforcement, fire department, medical facilities, Explosive Ordnance Disposal unit, and the nearest Defense Reutilization and Marketing Office (DRMO). Additional points of contact will be furnished to the contractor upon award of the delivery order. During the site visit the contractor shall perform a visual inspection of the site and review the records, reports, and other data provided by the contracting officer (CO). No UXO-related activities will be performed during the site visit. The schedule for the site visit shall be coordinated with the USAEDH Project Manager (Mr. Roland Belew, (205) 955-5304) at least 10 days in advance.

3.1.2 Work Plan (WP) The contractor shall prepare and submit a site specific work plan (WP) to the Government for approval prior to beginning any UXO-related activities at the site. The WP shall outline the contractor's proposed method of accomplishing the objective and following tasks. This shall include site specific training, UXO-related procedures and practices, equipment, administrative area and equipment security and accountabilities system, personnel protective equipment, internal and external communications systems, responsibilities of project personnel, resumes of all UXO personnel and key non-UXO personnel, on-site and off-site medical facilities and emergency response actions, daily work schedule, project time line, UXO safety and site general safety. All UXO-related procedures shall comply with *CEHND Safety Concepts and Basic Considerations for UXO*. The WP shall include as a minimum, the following sub-plans. See Section C, subsection 3.2.1 of the basic contract for detailed requirements.

3.1.2.1 UXO Operational Plan.

3.1.2.2 Accident Prevention Plan (See Section J, of basic contract).

3.1.2.3 Equipment Plan.

3.1.2.4 Surveying and Mapping Plan.

3.1.2.5 Environmental Protection Plan (See Section C, subsection 5.0 of the basic contract).

3.1.2.6 Quality Control Plan.

3.1.2.7 Work, Data, and Cost Management Plan.

3.1.2.8 The contractor shall submit a draft WP for review and a final WP for approval in accordance with paragraph 4.1, this SOW.

3.1.2.9 The contractor shall notify the CEHND Project Manager, Identified in paragraph 4.0, this SOW, at least 10 calendar days in advance of mobilization.

3.1.2.10 Equipment Plan (EP). As part of the work plan, the contractor shall prepare and submit a detailed EP describing the equipment to be employed to perform all necessary operations. The EP shall describe and quantify both field equipment (such as trucks etc.) and equipment (such as 2-way radio, camcorder, telephones, etc.) and consumable supplies (both office and field intended to be used. The contractor shall describe in the EP the source and rental/acquisition cost for all field and office equipment and consumable supplies. Three quotes must be obtained and provided in the EP for each piece of field and office equipment and the EP must indicate that the vendor with the lowest price quote was used for rental/acquisition. The contractor shall indicate in the EP when rental cost exceeds acquisition costs for a particular piece of equipment over the life of the project. In these instances, the Contracting Officer (CO) may direct the contractor to purchase that equipment. After CO approval of the Work Plans/Equipment Plan, additional field/office equipment and consumable supplies in excess of $200 may not be rented/acquired without CO approval.

3.2 TASK 2: PERFORM COMMUNITY RELATIONS. The contractor shall when requested assist in the conduct of a public meeting and a "Media Day". This task shall be accomplished in accordance with Section C, subsection 3.2.3, of the basic contract.

3.3 TASK 3: PERFORM LOCATION SURVEYS AND MAPPING

3.3.1 All surveying or mapping crews shall be escorted by an UXO Supervisor. A magnetometer shall be used to survey the location for the establishment of any monuments, markers, hubs or stakes.

3.3.2 The Government will provide mylars of a vicinity map, a base

map, and a map of site OT-04. The contractor shall use these mylars to provide a project vicinity map, a base map showing the project site similar to figure 2 (both to a scale of one inch = 1000 feet), and a topographic map of the project area as identified in Figure 3 to a scale of one inch = 30 feet. A fourth planimetric map will be generated by the contractor and is covered in paragraph 3.7.2.11. The new control points shall be located on the site specific topo map and the planimetric map. The Topo map and all coordinates shall be referenced to the North American Datum of 1983 (NAD83). The final drafted drawings shall be on polyester drawing film (mylar) with is 30" X 42" (standard "F" size drawing).

3.3.3 Wooden hubs or stakes shall be used for all basic control points. A minimum of three concrete monuments with 3-1/4 inch - 3-1/2 inch domed bronze, brass, or aluminum alloy survey markers (caps), and witness posts for each monument shall be set as close to the project limits as possible. The survey markers shall be stamped in sequence as follows:

| | | |
|---|---|---|
| Holloman-1-1993 | Holloman-2-1993 | Holloman-3-1993 |
| USAEDH, HUNTSVILLE | USAEDH, HUNTSVILLE | USAEDH, HUNTSVILLE |

These concrete monuments shall be located as close to the perimeter of the areas being investigated while being 500 feet apart and 25 feet from any road. UXO specialist shall clear areas where monuments are to be placed. Witness posts shall be set within 1 foot of each monument. Horizontal control (1:10,000 and referenced to NAD83) of "Third Order" or better shall be established for each of the monuments. All of the control points recovered and/or established at Site OT-04 (SWMU #102) shall be plotted at the appropriate coordinate point of the drawing, and shall be identified by name or number, final adjusted coordinates, and final adjusted elevations. A tabulated list and a "Description Card" of all control points established or used shall be submitted in accordance with paragraph 3.3.4 of this scope. The Description Card shall show a sketch of each monument, its location relative to reference marks, buildings, roads, towers, etc., a typed description telling how to locate the monument from a known point; the monument's name or number, and the final adjusted coordinates. The description cards shall be 5" x 8" with one description per card, or two descriptions may be submitted on an 8-1/2" X 11" sheet of bond paper. All field notes shall be clearly and precisely recorded in a standard field book or data recorder. There are to be no erasures made in the field books.

3.3.4 The following data and/or items shall be submitted to the CEHND-PM-OT (Roland Belew) 30 days after the field work has been completed.

3.3.4.1 A tabulated list of all control points showing the adjusted coordinates (to the closest one-hundredth of a foot) established and/or used for this survey.

3.3.4.2 Topo Map at a scale of one inch = 30 feet plotted on standard "F" size reproducible (mylar), and two blueline prints shall be submitted showing control points as outlined in paragraph 3.3.3.

3.3.4.3 All original field books, layout sheets, computation sheets, abstracts, and computer printouts. All of the items shall be suitably bound, and clearly marked and identified.

3.3.4.4 A "Report on Establishment of Survey Mark" (Description Card) on each permanent control monument established and/or used for the survey. In addition to the name or I.D. number of the monument, the cards should show the adjusted coordinates, the adjusted elevations (to the closest 0.01 foot), a typed description for locating the monument, and a sketch showing how to locate the monument. As detailed in paragraph 5.2, the description cards shall be submitted on 5" X 8" cards or 8-1/2" X 11" bond paper.

3.4 TASK 4: PERFORM UNEXPLODED ORDNANCE REMOVAL.

3.4.1 The contractor shall furnish all necessary personnel and equipment to perform a surface clearance of all OEW, OEW debris and a sub-surface clearance of the picric acid pit at the project site. This action shall include all UXO related scrap and non-UXO related metallic scrap. In addition, the contractor shall sub-contract for and clear the area for the installation of a 9 gauge 6 foot high chain link security fence with 3 strands of barbed wire on outriggers plus one double swinging 12 foot wide access gate. Fence shall enclose one acre.

3.4.2 All UXO operations shall comply with the U.S. Army Corps of Engineers, CEHND Division, *Safety Concepts and Basic Considerations for Unexploded Explosive Ordnance (UXO)*. Only approved UXO personnel shall perform UXO-related tasks.

3.4.2.1 A planned, systematic approach shall be utilized to search and clear the project site. The proposed methodology shall be outlined in the WP.

3.4.2.2 During sub-surface operations, the contractor shall slope the sides of the picric acid pit and remove any suspect bottles. This action will require sloping the pit to an approximate depth of 2 feet before bottles are encountered. The bottles appear in a layer approximately 2 foot thick. During this operation a magnetometer shall be used to locate anomalies. All anomalies will be investigated and identified. The pit will be cleared for a distance of 2 feet in a 360 degree arc without encountering additional bottles before it is considered cleared. If further excavation is required, the on-site USAEDH Safety Specialist will make that determination.

3.4.2.3 During fencing operations, the contractor shall utilize a magnetometer capable of detecting a 20 MM projectile at a depth of 2 feet. The contractor shall not excavate to identify anomalies, but shall move the fence line to a clear area.

3.4.2.4 Magnetometers shall be field tested daily to ensure they are operating properly. This shall be accomplished by planting a similar magnetic inert item to a depth of 2 feet and determining the standard indication. If a magnetometer does not meet the standard during the daily check, it shall be calibrated/repaired.

3.4.2.5 The contractor shall maintain a detailed accounting of all OEW items/components encountered. This accounting shall include the amounts of OEW, the identification and condition, depth located, disposition and location/mapping by coordinates to the closest one foot (Paragraph 3.7.2.11). This accounting shall be a part of the Removal Report.

3.4.3 All UXO related inert scrap, or unserviceable material shall be collected and turned into the nearest DRMO. All suspect explosives items including suspect picric acid shall be turned over to the base EOD squadron for proper disposal.

3.4.4 Once a live UXO is encountered, 24 hour on-site security shall be implemented. All live UXO items stored on site shall be categorized and stored in accordance with field storage procedures TM 9-1300-206. If a scenario is encountered that precludes moving an item, the on-site USAEDH representative will request EOD support.

3.4.5 The contractor shall furnish the necessary personnel and equipment to video tape the various phases of the removal action. The video tape will comply with the requirements of section C of the basic contract.

3.5 <u>TASK 5: TURN-IN OF RECOVERED INERT UXO AND RELATED SCRAP.</u> This task shall be accomplished as per Section C, subsection 3.2.5 of the basic contract.

3.6 <u>TASK 6: PERFORM QUALITY CONTROL</u>.

3.6.1 The contractor shall administer a Quality Control (QC) Program to manage, control, and document his own and his subcontractor's activities. The methodology to accomplished this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.6.2 The individual performing the UXO QC shall not be involved in the performance of Task 4 above. UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites as outlined in Section C, Subsection 3.2.4.2 of the basic contract.

3.7 TASK 7: PREPARE AND SUBMIT REMOVAL REPORT

3.7.1 The contractor shall accomplish this task in accordance with Section C, subsection 3.2.7, of the basic contract.

3.7.2 The Final Removal Report shall consist of the following:

3.7.2.1 Final submission of surveying and mapping data from Task 3, including vicinity, base and topo maps. Submit Mylar originals to CEHND only with blue line copies as denoted in paragraph 4.0.

3.7.2.2 Detailed accounting by listed area of all UXO and UXO-related materials located and disposed of.

3.7.2.3 A system of daily journals of all activities associated with this SOW.

3.7.2.3.1 A daily journal for each area listed in subsection 1.3 shall be opened with the start of and closed with the completion of each area. Activities endemic to the specific listed area shall be recorded on a daily basis.

3.7.2.3.2 A daily journal for the site shall be opened upon first arrival for field operations and closed after contractor demobilization at the project site. It shall contain a daily record of which listed areas are active and all other activities on site not endemic to any specific area.

3.7.2.4 A recapitulation of exposure data. This shall include total number of man-hours worked on-site, total motor vehicle mileage, total number of flying hours, and number of flights.

3.7.2.5 QC documentation.

3.7.2.6 All DRMO turn-in documentation.

3.7.2.7 A minimum of 20 3" X 5" (10 X 15cm) color photographs shall be included in the report depicting major action items and UXO discoveries. The original, Final Report furnished to CEHND shall include original photographic prints. Photographs contained in draft submissions and copies of final submissions shall be color reproductions.

3.7.2.8 Public meeting written record (if public meeting is required).

3.7.2.9 A financial breakdown by area and task of all costs and labor hours used to perform this SOW.

3.7.2.10 The video tape. This will be furnished only to CEHND-PM-OT in one copy.

3.7.2.11 The contractor shall provide a planimetric map (at a scale of one inch = 30 feet. This map is in addition to vicinity, base and topo maps identified in paragraph 3.3.2. This map shall show location of the search patterns and anomalies and significant findings with respect to all surface features located within the project area and be referenced to NAD83. It shall also show the three control points as identified in paragraph 3.3.

3.8 Personnel Qualifications and Job Descriptions. The contractor shall furnish a staff that is qualified through education, training, and pertinent experience that shall accomplish the objective and task of this SOW. See Section C, subsection 3.2.4.2 of the basic contract.

4.0 SUBMITTALS. The contractor shall furnish copies of the plans, maps, and reports as identified in paragraph 3.7 to each addressee listed below in the quantities indicated. All originals of the location survey and mapping task (Task 3) shall be submitted to CEHND-PM-OT. The contractor shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of their review shall be incorporated.

| ADDRESSEE | COPIES |
|---|---|
| US Army Engineer Division, Huntsville<br>ATTN: CEHND-PM-OT (Mr. Roland Belew)<br>106 Wynn Drive<br>Huntsville, Alabama 35805-1957 | 5 |
| US Air Force<br>49 CES/CEV (Mr. Warren Neff)<br>550 Tabosa Ave<br>Holloman AFB,NM. 88330-5000 | 3 |
| US Army Engineer Division<br>ATTN: CEMRO-ED-GS (Mr. Mark Mercier)<br>215 North, 17th Street<br>Omaha, Nebraska 68102-4978 | 2 |

4.1 Submittals and Due Dates

| SUBMITTAL | DUE DATES (calendar days) (after contract award) |
|---|---|
| Draft Work Plan | 30 |
| Final Work Plan | 60 |
| Location Survey and Mapping<br>All deliverables under<br>Paragraph 3.3.4 | 30 days after completion of all survey field work |
| Draft Removal Report | 30 days after completion of all field activities |
| Final Removal Report<br>reciept of draft comments | 30 days after receipt of draft comments |

4.2 Status Report and Telephone/Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE
ATTN: CEHND-PM-OT ( Mr. Belew)
106 Wynn Drive
Huntsville, Al 35805-1957

5.0 APPLICABLE REGULATIONS. See Section C, subsection 3.2.4.4, of the basic contract.

5.1 The following publication also applies:

5.1.1 AR 385-40 with USACE Supplements, Accident Reporting and Records.

6.0 GOVERNMENT FURNISHED

6.1 Right of Entry

6.2 Pertinent UXO Technical publications as required.

6.3 Availability of government furnished equipment shall be coordinated through Mr. Pete Stillson, Property Manager, CEHND-ED-SY Safety, phone (205) 955-5858.

7.0 SPECIAL INSTRUCTIONS

7.1 29 CFR 1926.1009(a) requires personnel to wear protective helmets in areas where there is a possible danger of head injury from impact, or from falling or flying objects, or from electrical shock or burns. During field activities on ordnance projects, hard-hats need not be worn unless a head injury threat is present.

7.2 If a UXO is located within a grid during the final UXO QA search, the contractor will be required to, again, search the entire grid.

**STATEMENT OF WORK**
**UNEXPLODED ORDNANCE REMOVAL ACTION**
**HOLLOMAN AIR FORCE BASE, ALAMOGORDO, NM**

* **29 October 1993** *
**Rev 1**

**1.0 BACKGROUND AND GENERAL STATEMENT OF WORK:** The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program (DERP) - Installation Restoration (IR). Ordnance and Explosive Waste (OEW) contamination exist on property presently owned by the Department of the Air Force.

1.1 Explosive ordnance is a safety hazard and constitutes an imminent and substantial endangerment to the populace and site personal. During this action, it is the Government's intent to destroy all OEW encountered. This action will be performed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104 and the National Contingency Plan, Sections 300.120(c) and 300.400(e). In accordance with the above, no Federal, State, or Local permits are required nor will be obtained.

1.1.1 OEW is not classified as hazardous waste, thus this action does not fall under the provisions of 29 CFR 1910.120.

1.1.2 This project does not require an on-site full time contractor project manager as identified in section C, subsection 3.1.1 of the basic contract.

1.2 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40 hour work week: either five 8-hour days or four 10-hours days. UXO personnel shall not perform UXO-related tasks more than 10 hours a day.

**1.3 General Description:**

1.3.1 Holloman Air Force base is located in the southeastern corner of New Mexico, (See Figure 1). It is in Otero county, approximately 7 miles east of Alamogorado. It borders the eastern side of the White Sands Missile Range. Holloman Air Force base was the site of early rocket and missile motor testing and is now the home base for stealth fighter testing and training. This SOW pertains to Site OT-04 shown more specifically in Figures 2 and 3.

1.3.2 Site OT-04 is located on the north base area of Holloman AFB. It is located adjacent to an arroyo know as Ritas Draw. This site was originally used as a Solid Waste Management Unit (SWMU) (SWMU #102). It was primarily used by the unconventional fuels storage area which used propellants, oxidizers, and other fuel compounds for rocket and sled test conducted on base. It is not

| ADDRESSEE | COPIES |
|---|---|
| US Army Engineer Division, Huntsville<br>ATTN: CEHND-PM-OT (Mr. Roland Belew)<br>106 Wynn Drive<br>Huntsville, Alabama 35805-1957 | 5 |
| US Air Force<br>49 CES/CEV (Mr. Warren Neff)<br>550 Tabosa Ave<br>Holloman AFB,NM. 88330-5000 | 3 |
| US Army Engineer Division<br>ATTN: CEMRO-ED-GS (Mr. Mark Mercier)<br>215 North, 17th Street<br>Omaha, Nebraska 68102-4978 | 2 |

* 4.1 Submittals and Due Dates

| SUBMITTAL | DUE DATES (calendar days) (Commencing on 1 November 1993) * |
|---|---|
| Draft Work Plan | 30 |
| Final Work Plan | 60 |
| Location Survey and Mapping All deliverables under Paragraph 3.3.4 | 30 days after completion of all survey field work |
| Draft Removal Report | 30 days after completion of all field activities |
| Final Removal Report reciept of draft comments | 30 days after receipt of draft comments |

4.2 Status Report and Telephone/Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE
ATTN: CEHND-PM-OT ( Mr. Belew)
106 Wynn Drive
Huntsville, Al 35805-1957

5.0 APPLICABLE REGULATIONS. See Section C, subsection 3.2.4.4, of the basic contract.

# APPENDIX B

# GOVERNMENT PROPERTY TRACKING LOG

GOVERNMENT PROPERTY TRACKING LOG

Contract Number: DACA87-92-D-0133 Delivery Order Number: 0013 Location: HOLLOMAN

Contractor Property Manager: JACK A. CARSON Site Supervisor: JACK A. CARSON Date: 8MAR. 1994

| Line No | Description of Item Nomenclature & Manufacturer | Model Number | Serial Number | P.O. Number | Name of Supplier | Unit Price | Date Rcd On Site | Classification Exp. | Classification Non-Exp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | SCHONSTEDT | | 334 | | COE | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | SCHONSTEDT | | 340 | | COE | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | CAMERA, VIDEO | | | | COE | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | RADIAC | | | | COE | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | RADIO & CHARGER | MOTOROLA HT-1000 | 434 | | COE | | | | X | FROM ~~PANTEX~~ COE TO ~~AMARILLO POLICE~~ TO HUNTSV. COE |
| | RADIO & CHARGER | MOTOROLA HT-1000 | 435 | | COE | | | | X | FROM ~~PANTEX~~ COE TO ~~AMARILLO POLICE~~ TO HUNTSVI. COE |
| | RADIO & CHARGER | MOTOROLA HT-1000 | 436 | | COE | | | | X | FROM ~~PANTEX~~ COE TO ~~AMARILLO POLICE~~ TO HUNTSVI. COE |
| | RADIO & CHARGER | MOTOROLA HT-1000 | 438 | | COE | | | | X | ~~FROM PANTEX~~ FROM COE TO ~~AMARILLO POLICE~~ TO HUNTSV. COE |
| | TYVEK 1 BX | | | | | | | X | | FROM PANTEX RETURN PANTEX |
| | TYVEK 1 BX | | | | SAFECO | 115.00 | | X | | FROM EXPENDED |
| | TYVEK HOODS 1 BX | | | | | | | X | | FROM PANTEX RETURN PANTEX |
| | GLOVES NITRILE INNER 1 BX | | | | | | | X | | FROM PANTEX RETURN PANTEX |
| | BATTERIES 12 EA | | | | | | | X | | FROM PANTEX EXPENDED |
| | RESPIRATOR FILTER 14 EA | ~~HT~~ | | | | | | X | | FROM PANTEX RETURN PANTEX |

Page 1 of 4

GOVERNMENT PROPERTY TRACKING LOG

Contract Number: DACA87-92-D-0133 Delivery Order Number: 0013 Location: HOLLOMAN

Contractor Property Manager: JACK A. CARSON Site Supervisor: JACK A. CARSON Date: 3MAR. 1994

| Line No | Description of Item Nomenclature & Manufacturer | Model Number | Serial Number | P.O. Number | Name of Supplier | Unit Price | Date Rcd On Site | Classification Exp. | Classification Non-Exp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | PRE FILTER 1 BX | | | | | | 7MAR | X | | FROM PANTEX RETURN PANTEX |
| | WORK GLOVES 10 PR | | | | | | 7MAR | X | | FROM PANTEX EXPENDED |
| | NITRILE OUTER GLOVES 6 DZ PR. | | | | SAFECO | 1.00 | 7MAR | X | | TO PANTEX |
| | YELLOW BOOTIES 10 PR | | | | | | 7MAR | X | | FROM PANTEX RETURN PANTEX |
| | ROPE 200 FT | | | | | | 7MAR | X | | FROM PANTEX EXPENDED |
| | CAUTION TAPE 1 RL | | | | | | 7MAR | X | | FROM PANTEX EXPENDED |
| | DUCT TAPE 2 RL | | | | FORESTRY | 6.51 | 7MAR | X | | EXPENDED |
| | CAUTION TAPE 1 RL | | | | FORESTRY | 13.84 | 7MAR | X | | EXPENDED |
| | LIQUINOX 1 GAL | | | | FORESTRY | 22.13 | 7MAR | X | | EXPENDED |
| | COVERALL 6 EA | | | | GEMPLERS | 34.95 | 7MAR | X | | RETAINED BY EMPLOYEES |
| | RESPIRATOR CLEANER/DISINFECTANT 1 BX | | | | SAFECO | 29.00 | 8MAR | X | | EXPENDED |
| | SHOVELS 4 EA | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | SHOVELS 4 EA | | | | FORESTRY | 11.42 | 7MAR | | X | TO PANTEX |
| | RESPIRATOR FULL FACE 6 EA | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |

Page 2 of 4

GOVERNMENT PROPERTY TRACKING LOG

Contract Number: DACA 87-92-D-0133 Delivery Order Number: 0013 Location: HOLLOMAN
Contractor Property Manager: JACK A. CARSON Site Supervisor: JACK A. CARSON Date: 8MAR 94

| Line No | Description of Item Nomenclature & Manufacturer | Model Number | Serial Number | P.O. Number | Name of Supplier | Unit Price | Date Rcd On Site | Classification Exp. | Classification Non-Exp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | TABLE, FOLDING 1EA | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | CHAIR, FOLDING 1EA | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | TRASH CAN 55 GAL 2EA | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | FOXTAIL 1EA | | | | | | 7MAR | X | | FROM PANTEX EXTENDED WTPE |
| | 200' MEASURING TAPE | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | SLEDGE HAMMER | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | MATTOCK | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | 5GAL PLASTIC BUCKET 2EA | | | | | | 7MAR | X | | FROM PANTEX RETURN PANTEX |
| | 5GAL COOLER 1EA. | | | | | | 7MAR | | X | FROM PANTEX RETURN PANTEX |
| | FIRE EXTINGUISHER 1EA | | | | FORESTRY | 23.38 | 7MAR | | X | TO PANTEX |
| | PRESSURE SPRAYER 1EA | | | | FORESTRY | 23.89 | 7MAR | | X | TO PANTEX |
| | MATTOCK 2EA | | | | FORESTRY | 15.94 | 7MAR | | X | TO PANTEX |
| | COME-ALONG 1EA | | | | FORESTRY | 109.07 | 7MAR | | X | TO PANTEX |
| | 6GAL. WATER CAN 2EA. | | | | FORESTRY | 10.14 | 7MAR | | X | TO PANTEX |



GOVERNMENT PROPERTY TRACKING LOG

Contract Number: DACA 87-92-D-0133 Delivery Order Number: 0013 Location: HOLLOMAN
Contractor Property Manager: JACK A. CARSON Site Supervisor: JACK A. CARSON Date: 8MAR 94

| Line No | Description of Item Nomenclature & Manufacturer | Model Number | Serial Number | P.O. Number | Name of Supplier | Unit Price | Date Rcd On Site | Classification Exp. | Classification Non-Exp | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 GAL COOLER 1EA | | | | FORESTRY | 24.79 | 7MAR 94 | X | | ~~7MAR 94~~ TO PANTEX |
| | FUNNEL | | | | WALLMART | .96 | 8MAR | X | | TO PANTEX |
| | UTILITY PAN | | | | WALLMART | 2.17 | 8MAR | X | | EXPENDED W/ PPE. |
| | FOAM DRINK CUPS 6L | | | | WALLMART | .97 | 8MAR | X | | EXPENDED |
| | DRAIN PANS 2EA | | | | WALLMART | 11.56 | 9MAR | X | | TO PANTEX |
| | BRAKE FLUID 1 PT | | | | AFFES | 2.45 | 9MAR | X | | EXPENDED |
| | PHOTO DEVELOPMENT | | | | BOOKS GALORE + MORE | 13.45 | 13MAR | X | | PHOTOS FOR FUTURE USE EXPENDED |
| | CHAIN W/HOOKS 2EA. | | | | FOXWORTH | 112.77 | 15MAR | | X | TO PANTEX |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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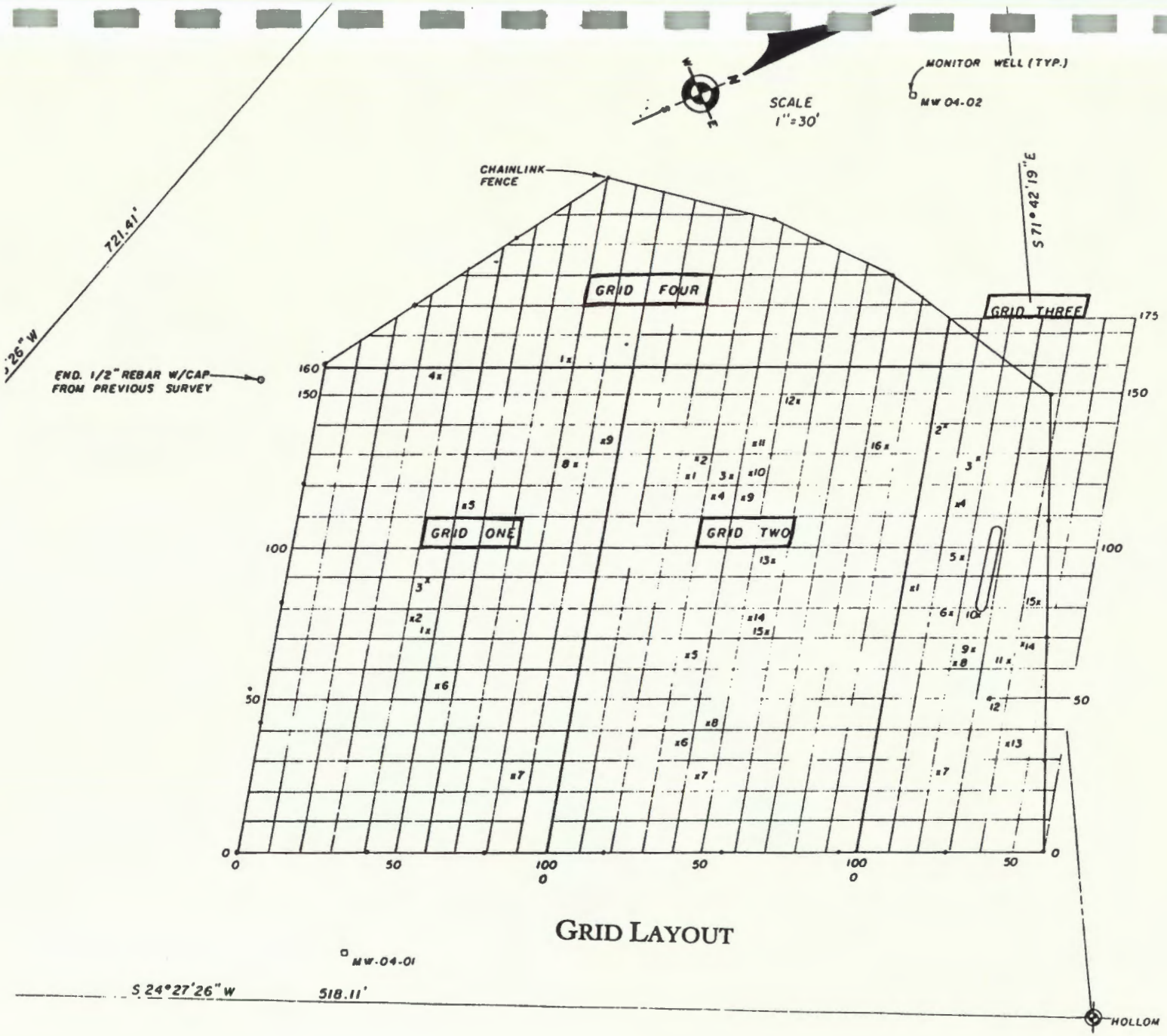
| | | | | | | | | | | |

# Appendix C

# Grid Layout Map


MONITOR WELL (TYP.)
MW 04-02
SCALE
1" = 30'
CHAINLINK FENCE
S 71°42'19" E
721.41'
END. 1/2" REBAR W/CAP FROM PREVIOUS SURVEY
GRID FOUR
GRID THREE
GRID ONE
GRID TWO
MW-04-01
S 24°27'26" W
518.11'
HOLLOW

GRID LAYOUT

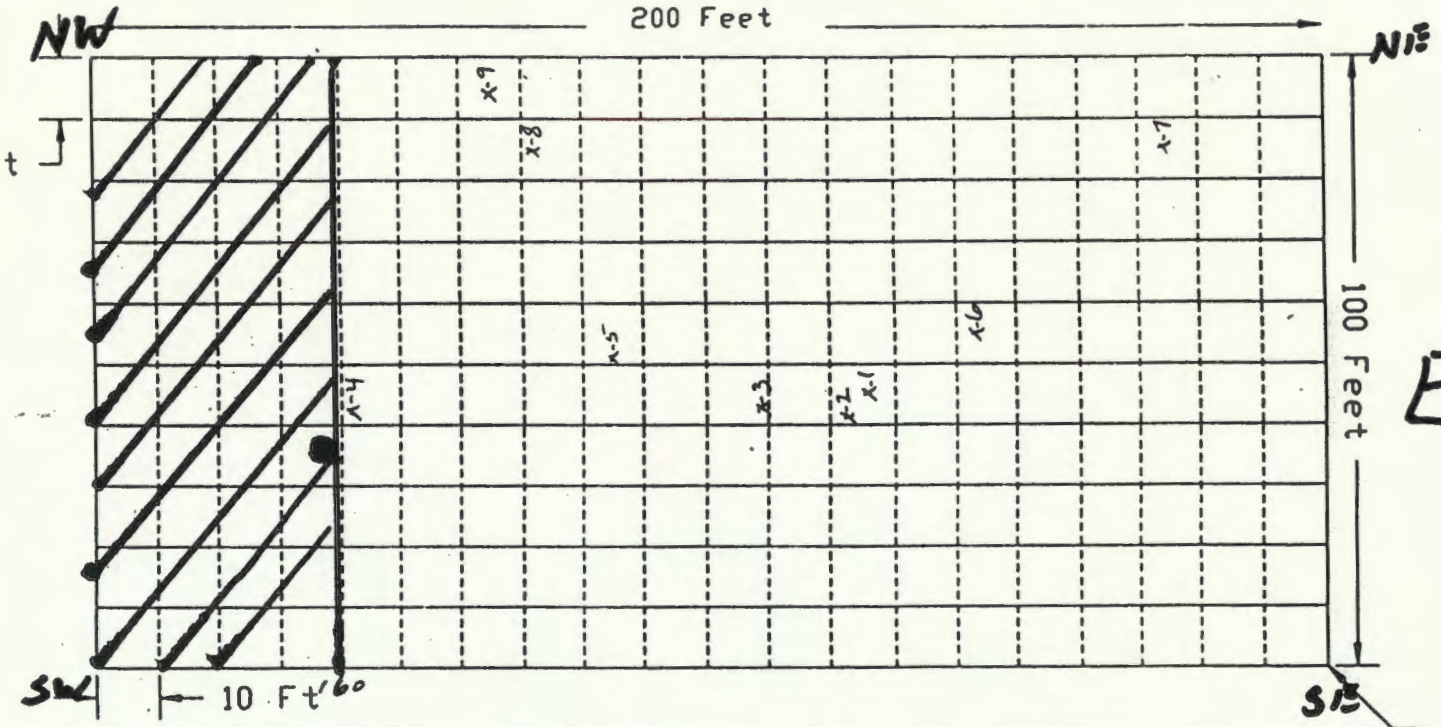
Job: Holloman, N.M. Grid Ref. No. 1 SITE 01-04

Plotter: Tucker Sheet 1 of 4.

Date: 3-8-94

(Note heading if other than North)

NORTH




1. FLARE COMP (1)
2. GRENADE SPOONS (5)
3. GRENADE SPOONS (2)
4. GRENADE SPOON (1)
5. RKT-FUEL TUBING
6. RKT-FUEL TUBING
7. RKT-FUEL TUBING
8. GRENADE SPOON RING (2)
9. GRENADE SPOONS (2)
10.
11.
12.
13.
14.
15.

Plot all UXOs from the Northeast corner. Plot Feet South & Feet West.

PLOT & IDENTIFY EACH UXO: Each UXO will be located within the grid by placing an "X" at its location and numbered consecutively. The plot will be measured from the Northeast corner of the grid and will be measured in feet South from the Northeast corner and in feet West from the Northeast corner.

SOUTH

W

HFA STANDARD FORM 100/200

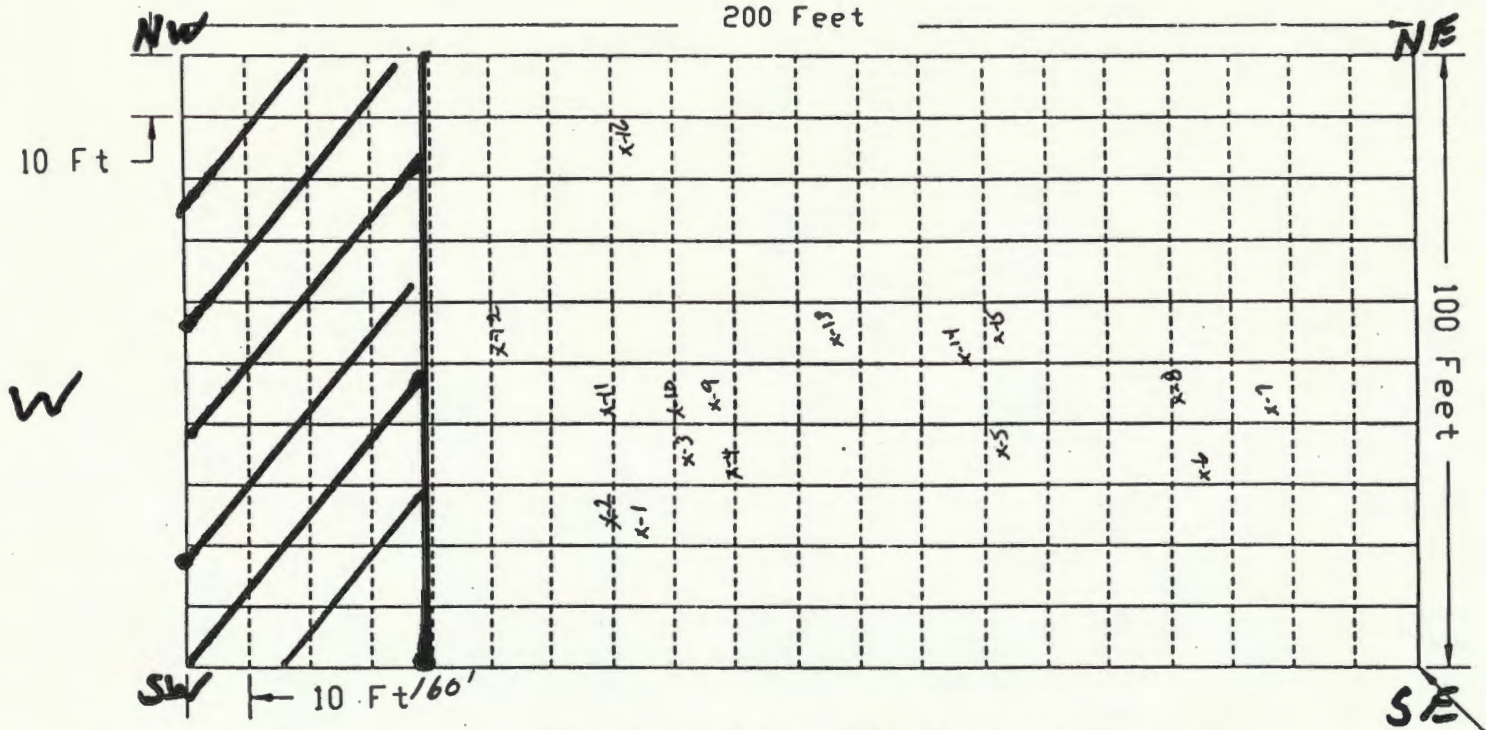
Job: HOLLOMAN NM Grid Ref. No. 2 SITE-01-04

Plotter: TITCOMB Sheet 2 of 4.

Date: 3-9-94

(Note heading if other than North)

NORTH




1. JATO MOTOR (1)
2. JATO MOTOR (1)
3. JATO MOTOR (2)
4. RKT-MOTOR (1)
5. JATO MOTOR (1)
6. RKT-MOTOR RING (1)
7. RKT-MOTOR RING (1)
8. RKT-MOTOR BLIST UNIT
9. RKT-MOTOR (4)
10. JATO-MOTOR (1)
11. PANEL BOX (1)
12. RKT-MOTOR WIRING
13. RKT-MOTOR WIRING
14. RKT-MOTOR (1)
15. RKT-MOTOR SKIN
16. RKT-MOTOR (1)

Plot all UXOs from the Northeast corner. Plot Feet South & Feet West.

PLOT & IDENTIFY EACH UXO: Each UXO will be located within the grid by placing an "X" at its location and numbered consecutively. The plot will be measured from the Northeast corner of the grid and will be measured in feet South from the Northeast corner and in feet West from the Northeast corner.

SOUTH

HFA STANDARD FORM 100/200

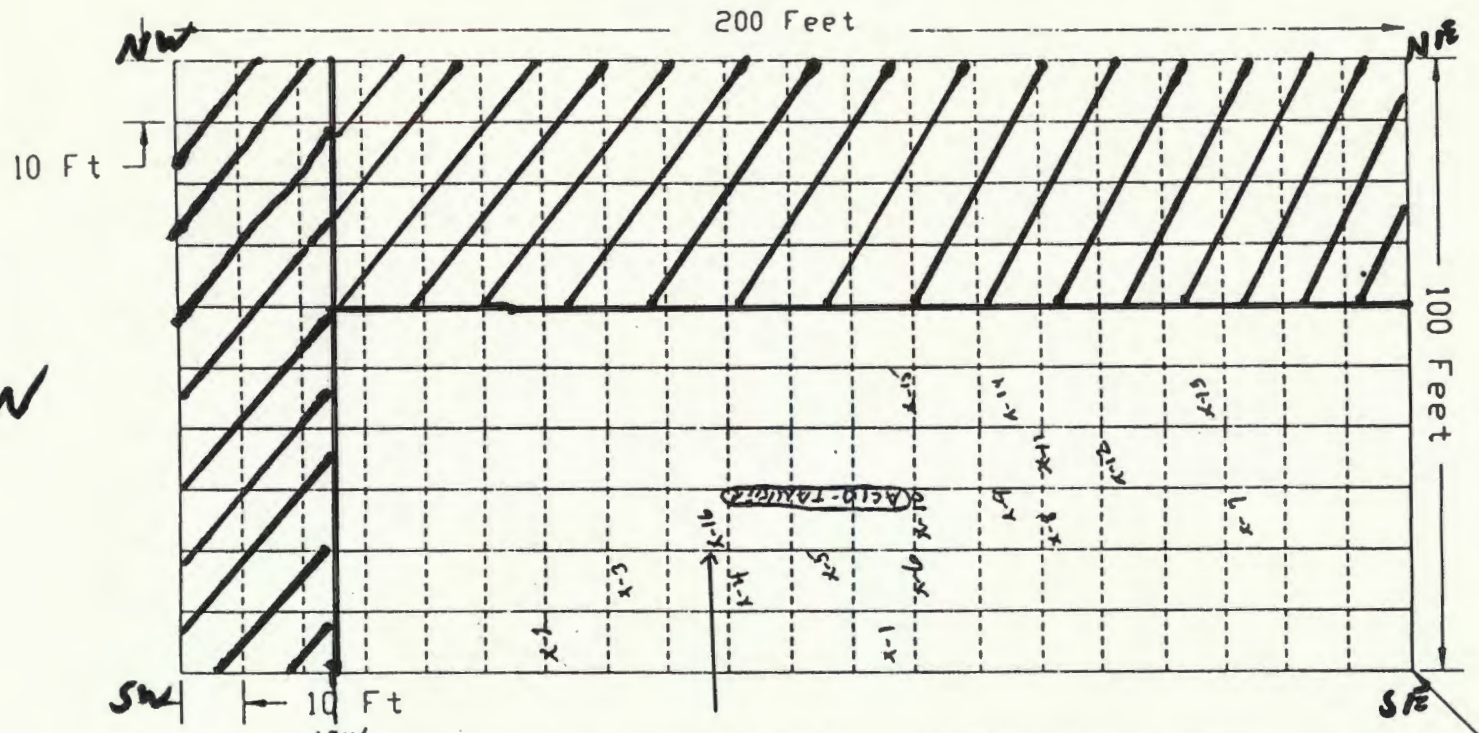
Job: HOLLOMAN N.M. Grid Ref. No. 3 SITE-OT-04

Plotter: TITCOMB Sheet 3 of 4.

Date: 3-10-94

(Note heading if other than North)

NORTH




1. RICT-FUEL TANK (1)
2. RICT-MOTOR (1)
3. RICT-MOTOR PART (1)
4. RICT-MOTOR (2)
5. FUEL TANK SKIN (1)
6. GUIDANCE WIRE
7. RICT-MOTOR (1)
8. RICT-MOTOR (2)
9. FUEL TANK SKIN (2)
10. ACID TANKER. (1)
11. ELECTRONIC COMPONENT
12. ROCKET-MOTOR (1)
13. RICT-MOTOR (1)
14. ELECTRONIC COMPONENT
15. MISSILE BODY (1)
16. RICT-MOTOR (1)

Plot all UXOs from the Northeast corner. Plot Feet South & Feet West.

PLOT & IDENTIFY EACH UXO: Each UXO will be located within the grid by placing an "X" at its location and numbered consecutively. The plot will be measured from the Northeast corner of the grid and will be measured in feet South from the Northeast corner and in feet West from the Northeast corner.

SOUTH

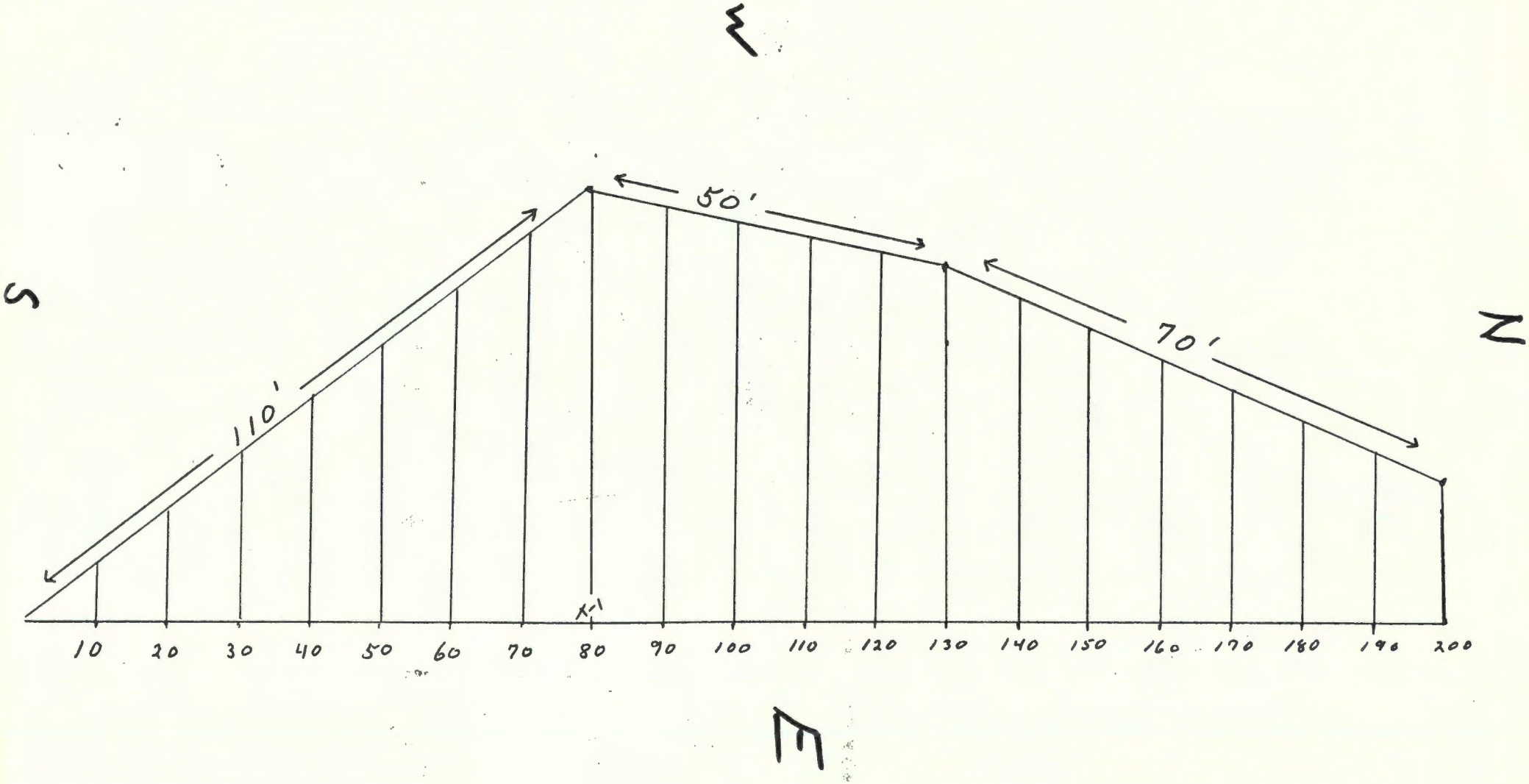
ROCKET MOTOR FOUND BURRIED UNDER SAND WHILE DIGGING OUT BACK OF ACID-TANKER FOR REMOVEL

HFA STANDARD FORM 100/200

JOB - HOLLOMAN, N.M
PLOTTER, TITCOMB
DATE, 3-10-94

GRID REF NO. 4 SITE, OT-04
SHEET, 4-OF-4

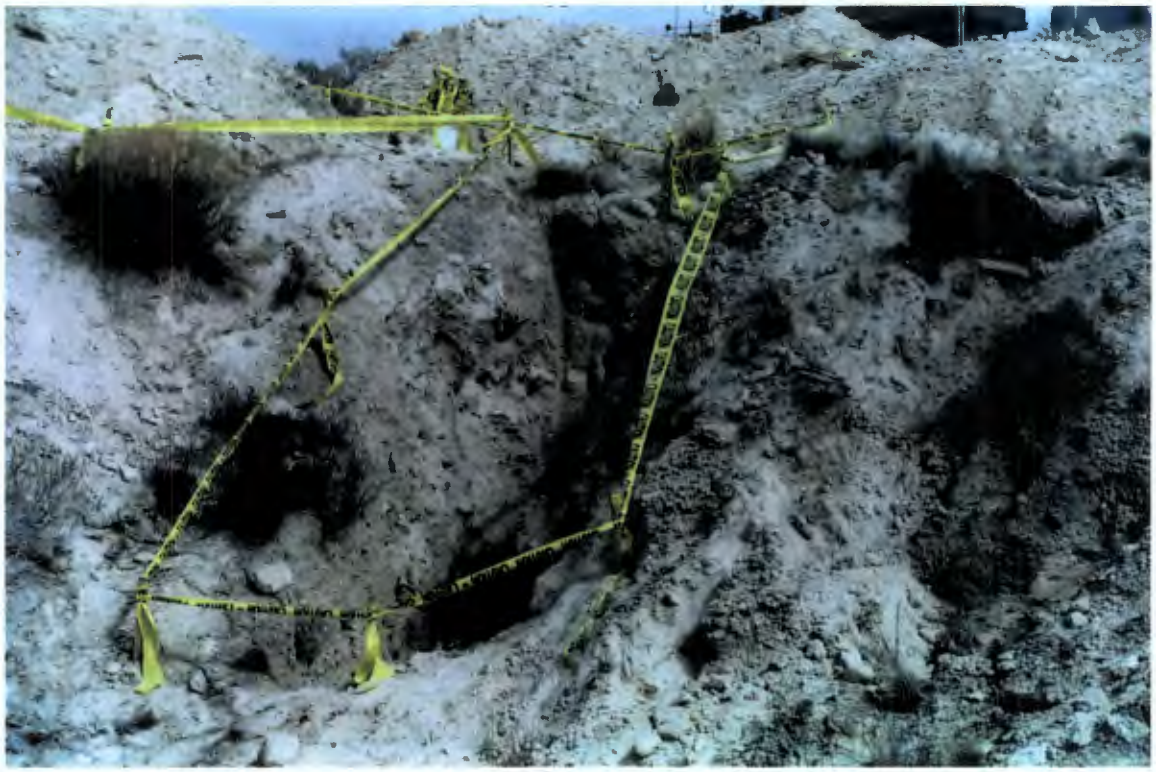
X-1 FLARE CAN (2)



# Appendix D

# Site Photographs

Laying out grids



Acid pit prior to dig

Monitoring with radiac during digging operation

Digging in acid pit dressed in level "C"

Hotline procedures

Hotline procedures

Bottle from spoils of acid pit

Bottle from spoils of acid pit being tested by CEHND Safety Representative with radiac

Pick-up and logging of scrap by grid

Scrap pick-up

Removal of rocket motor

Accumulated rocket motors and scrap

Rocket motor with possible propellant

Suspected rocket propellant

High pressure wash of scrap

High pressure wash out of rocket motors
and scrap

Acid tanker prior to removal

Digging out end of acid tanker

Removal of acid tanker

Scrap being loaded for DRMO

Bottles of unknown substance

Completed fence, with gate

# Appendix E

# Quality Control and Safety Meeting Reports

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB NO: 0013

DATE: 8 MAR 94 TIME: 0710 LOCATION: TOOL STORAGE

REASON FOR MEETING: (check all that apply)

- [x] Initial site safety briefing.
- [] Beginning of new task. Task: _____
- [] Periodic safety meeting.
- [] New site procedures.
- [] New site information.
- [] Review of site incident.
- [] Other (explain) _____

MEETING ATTENDEES:

| | Name | Affiliation |
|---|---|---|
| 1. | FRONEBERGER, JAMES | HFA |
| 2. | CARSON, JACK | HFA |
| 3. | TITCOMB, THOMAS | HFA |
| 4. | RAESEMAN, ROBERT | HFA |
| 5. | HARRIS, EDWARD | HFA |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| 10. | | |

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB No: 0013

DATE: 8MAR 94 TIME: 0710 LOCATION: TOOL STORAGE

SAFETY TOPICS PRESENTED:

- [✓] Site Safety Personnel
- [✓] Site Description
- [✓] Work Area Description
- [] Site Characterization
- [] Work Area Characterization
- [✓] Chemical Hazard Evaluation
- [✓] Physical Hazard Evaluation
- [✓] Toxicological Review
- [] Heat Stress
- [] Cold Stress
- [✓] Site Layout and Control Measures
- [] Work Zones
- [] Personnel Protective Equipment
- [] Air Monitoring
- [✓] Safe Work Practices - General
- [] Decontamination Procedures
- [] Emergency Response Plan
- [] Emergency Response Personnel
- [✓] On-site Emergency
- [] Off-site Emergencies
- [] Site Evacuation Procedures
- [] Work Area Evacuation Procedures
- [] Places of Refuge
- [] Emergency Decontamination
- [] Emergency Equipment
- [] Emergency Telephone Numbers
- [✓] Directions to Hospital
- [] Medical Monitoring
- [] Training
- [✓] Safe Work Practices - Task

Other Topics or Notes: _____

NAME OF PRESENTER: CARSON, JACK A.

TITLE OF PRESENTER: SENIOR UXO SUP / SAFETY

SIGNATURE: Jack A. Carson DATE: 8MAR 94

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB NO: 0013

DATE: 9 MAR, 1994 TIME: 0730 LOCATION: TOOL STORAGE

REASON FOR MEETING: (check all that apply)

[] Initial site safety briefing.
[✓] Beginning of new task. Task: INTRUSIVE IN PICRIC SITE
[] Periodic safety meeting.
[] New site procedures.
[] New site information.
[] Review of site incident.
[] Other (explain) _____

MEETING ATTENDEES:

| | Name | Affiliation |
|---|---|---|
| 1. | FRONEBERGER, JAMES | HFA |
| 2. | CARSON, JACK | HFA |
| 3. | TITCOMB, TOM | HFA |
| 4. | RAESEMAN, ROBERT | HFA |
| 5. | HARRIS, EDWARD | HFA |
| 6. | KING, RANDY | ARMY CORP |
| 7. | | |
| 8. | | |
| 9. | | |
| 10. | | |

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB No: 0013

DATE: 9MAR 94 TIME: 0730 LOCATION: TOOL STORAGE

SAFETY TOPICS PRESENTED:

[] Site Safety Personnel
[] Site Description
[] Work Area Description
[] Site Characterization
[] Work Area Characterization
[✓] Chemical Hazard Evaluation
[✓] Physical Hazard Evaluation
[✓] Toxicological Review
[] Heat Stress
[] Cold Stress
[✓] Site Layout and Control Measures
[✓] Work Zones
[✓] Personnel Protective Equipment
[] Air Monitoring
[✓] Safe Work Practices - General
[✓] Decontamination Procedures
[] Emergency Response Plan
[] Emergency Response Personnel
[✓] On-site Emergency
[] Off-site Emergencies
[] Site Evacuation Procedures
[] Work Area Evacuation Procedures
[] Places of Refuge
[✓] Emergency Decontamination
[] Emergency Equipment
[] Emergency Telephone Numbers
[✓] Directions to Hospital
[] Medical Monitoring
[] Training
[✓] Safe Work Practices - Task

Other Topics or Notes: _____

NAME OF PRESENTER: JACK CARSON

TITLE OF PRESENTER: SENIOR UXO SUP

SIGNATURE: Jack A. Carson DATE: 9 MAR 94

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB NO: 0013

DATE: 10 MAR TIME: 0730 LOCATION: TOOL STORAGE

REASON FOR MEETING: (check all that apply)

[] Initial site safety briefing.
[] Beginning of new task. Task: _____
[✓] Periodic safety meeting.
[] New site procedures.
[] New site information.
[] Review of site incident.
[] Other (explain) _____

MEETING ATTENDEES:

| | Name | Affiliation |
|---|---|---|
| 1. | FRONEBERGER, JAMES | HFA |
| 2. | CARSON, JACK | HFA |
| 3. | TITCOMB, THOMAS | HFA |
| 4. | RAESEMAN, ROBERT | HFA |
| 5. | HARRIS, EDWARD | HFA |
| 6. | | |
| 7. | | |
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| 10. | | |

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB No: 0013

DATE: 10 MAR 94 TIME: 0730 LOCATION: TOOL STORAGE

SAFETY TOPICS PRESENTED:

- [] Site Safety Personnel
- [] Site Description
- [] Work Area Description
- [] Site Characterization
- [] Work Area Characterization
- [✓] Chemical Hazard Evaluation
- [] Physical Hazard Evaluation
- [] Toxicological Review
- [] Heat Stress
- [] Cold Stress
- [✓] Site Layout and Control Measures
- [] Work Zones
- [] Personnel Protective Equipment
- [] Air Monitoring
- [] Safe Work Practices - General
- [✓] Decontamination Procedures
- [✓] Emergency Response Plan
- [] Emergency Response Personnel
- [✓] On-site Emergency
- [] Off-site Emergencies
- [✓] Site Evacuation Procedures
- [] Work Area Evacuation Procedures
- [] Places of Refuge
- [✓] Emergency Decontamination
- [] Emergency Equipment
- [] Emergency Telephone Numbers
- [] Directions to Hospital
- [✓] Medical Monitoring
- [] Training
- [] Safe Work Practices - Task

Other Topics or Notes: _____

NAME OF PRESENTER: J. CARSON

TITLE OF PRESENTER: SENIOR UXO SUPERVISOR

SIGNATURE: [signature] DATE: 10 MAR 94

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB NO: 0013

DATE: 14MAR 94 TIME: 0730 LOCATION: TOOL STORAGE

REASON FOR MEETING: (check all that apply)

[] Initial site safety briefing.
[✓] Beginning of new task. Task: USING FRONT END LOADER
[] Periodic safety meeting.
[] New site procedures.
[] New site information.
[] Review of site incident.
[] Other (explain) _____

MEETING ATTENDEES:

| | Name | Affiliation |
|---|---|---|
| 1. | FRONEBERGER, JAMES | HFA |
| 2. | CARSON, JACK | HFA |
| 3. | TITCOMB, THOMAS | HFA |
| 4. | RAESMAN, ROBERT | HFA |
| 5. | HARRIS, EDWARD | HFA |
| 6. | | |
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| 10. | | |

# ON-SITE SAFETY MEETING RECORD



PROJECT NAME: HOLLOMAN JOB No: 0013

DATE: 14 MAR 94 TIME: 0730 LOCATION: TOOL STORAGE

SAFETY TOPICS PRESENTED:

[] Site Safety Personnel
[] Site Description
[] Work Area Description
[] Site Characterization
[] Work Area Characterization
[] Chemical Hazard Evaluation
[✓] Physical Hazard Evaluation
[] Toxicological Review
[] Heat Stress
[] Cold Stress
[] Site Layout and Control Measures
[] Work Zones
[✓] Personnel Protective Equipment
[] Air Monitoring
[✓] Safe Work Practices - General
[] Decontamination Procedures
[] Emergency Response Plan
[] Emergency Response Personnel
[✓] On-site Emergency
[] Off-site Emergencies
[] Site Evacuation Procedures
[] Work Area Evacuation Procedures
[] Places of Refuge
[] Emergency Decontamination
[] Emergency Equipment
[] Emergency Telephone Numbers
[] Directions to Hospital
[✓] Medical Monitoring
[] Training
[✓] Safe Work Practices - Task

Other Topics or Notes: SAFETY AROUND HEAVY EQUIPMENT

NAME OF PRESENTER: J. CARSON

TITLE OF PRESENTER: SENIOR UXO SUPERVISOR

SIGNATURE: [signature] DATE: 14 MAR 94

# HFA, INC.
# QUALITY CONTROL LOG
# OEW OPERATIONS

DATE: 3-17-94 | CONTRACT #: 0133 DO#: 0013

LOCATION: Holloman AFB

WEATHER CONDITIONS: Clear High 80°

MAGNETOMETER SETTINGS: 3/4

I AREAS INSPECTED: *(List by grid number, equipment used, coordinates, or description)*

Acid Tank Pit and Grid 43. Also walked entire area again Inspected Fence.

II UNSATISFACTORY RESULTS: NONE

III CORRECTIVE ACTIONS RECOMMENDED: NONE

IV REINSPECTION RESULTS: NONE

V SIGNATURES:

Quality Control Inspector

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Sr. UXO Supervisor/Project Manager

# HFA, INC.
# QUALITY CONTROL LOG
# OEW OPERATIONS

DATE: 3-13-94 | CONTRACT #: 0133 DO#: 0013

LOCATION: Holloman AFB

WEATHER CONDITIONS: Clear High 70.

MAGNETOMETER SETTINGS: 3/4

I AREAS INSPECTED: *(List by grid number, equipment used, coordinates, or description)*

Picric Acid Pit and Grid #2.

II UNSATISFACTORY RESULTS: NONE

III CORRECTIVE ACTIONS RECOMMENDED: NONE

IV REINSPECTION RESULTS: NONE

V SIGNATURES:

Quality Control Inspector

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Sr. UXO Supervisor/Project Manager

# HFA, INC.
# QUALITY CONTROL LOG
# OEW OPERATIONS

DATE: 3-9-94 | CONTRACT #: 0133 DO#: 0013

LOCATION: Holloman AFB.

WEATHER CONDITIONS: Partly Cloudy High 58°

MAGNETOMETER SETTINGS: 3/4

I AREAS INSPECTED: *(List by grid number, equipment used, coordinates, or description)*

Visual inspection of Grid #1 and 4.
No metal or ordnance located.

II UNSATISFACTORY RESULTS: NONE

III CORRECTIVE ACTIONS RECOMMENDED: NONE

IV REINSPECTION RESULTS: NONE

V SIGNATURES:

Quality Control Inspector

I acknowledge that I have been briefed on the results of this inspection and will take corrective actions (if necessary).

Sr. UXO Supervisor/Project Manager

# Appendix F

# Daily Journals

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

DATE: 8 MAR, 1994

CONTRACT NUMBER: DACA87-92-D-0133 DELIVERY ORDER # 0013

LOCATION: HOLLOMAN

WEATHER CONDITIONS: RAIN + WINDY

FISHER SETTINGS: SHOENSTEDT SETTINGS:

EAGLE II SETTINGS: MK26 SETTINGS:

I. WORK SUMMARY:

a. WORK PLANNED: EXCAVATION OF PICRIC ACID PIT DRESSED IN LEVEL C. LIASON WITH SURVEYING CONTRACTOR AND FENCE CONTRACTOR.

b. WORK ACCOMPLISHED: MOBILIZATION WITH EQUIPMENT INVENTORY, GRID LAYOUT AT SITE WITH VIDEO AND 35MM FILMING. BEGAN PICK-UP OF SMALL SCRAP ITEM AND SEGREGATION OF ORDNANCE AND NON ORDNANCE RELATED SCRAP.

c. EXPLANATION OF DISCREPANCY: RADIOS NOT RECIEVED FROM ARMY CORP FOR SITE COMMUNICATIONS.

d. INSPECTION RESULTS:

II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

EMPTY ROCKET MOTORS - 13, JATO BOTTLES - 6, ROCKET FUEL TANKS - 2, GRENADE SPOONS - 11, FLARE BODY - 1 MISC METAL SCRAP
TOTAL WT 2500 LBS

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | | 16 |
| UXO Supervisor | | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | |
| GPR | | |
| *Other Equipment (List)* | | |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP:

~~PROJECT MANAGER:~~ DATE: 8 MAR 94

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

DATE: 9 MAR 94

CONTRACT NUMBER: DACA 87-92-D-0133 DELIVERY ORDER # 0013

LOCATION: HOLLOMAN

WEATHER CONDITIONS: CLOUDY

FISHER SETTINGS: SHOENSTEDT SETTINGS:

EAGLE II SETTINGS: MK26 SETTINGS:

I. WORK SUMMARY:

a. WORK PLANNED: INTRUSIVE WORK IN PICRIC ACID PIT.

b. WORK ACCOMPLISHED: REMOVED MORE METAL SCRAP AND ORDNANCE RELATED ITEMS FROM THE SITE. LIASON WITH THE SURVEYING CONTRACTOR. THE FENCE CONTRACTOR BEGAN WORK. ONE BOTTLE OF AN UNKNOWN SUBSTANCE WAS LOCATED IN THE SPOILS FROM THE PICRIC ACID SITE.

c. EXPLANATION OF DISCREPANCY: RADIOS HAD NOT ARRIVED ~~YET~~ IN TIME TO BEGIN INTRUSIVE WORK.

d. INSPECTION RESULTS:

II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

MISC METAL SCRAP 1500 LBS.

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
| RADIAC | 1 | .25 |
| VIDEO CAMERA | 1 | .50 |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP

~~PROJECT MANAGER~~: DATE: 9MAR 94

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

DATE: 10 MAR, 1994

CONTRACT NUMBER: DACA 87-92-D-0133 DELIVERY ORDER # 0013

LOCATION: HOLLOMAN

WEATHER CONDITIONS: SUNNY

FISHER SETTINGS: SHOENSTEDT SETTINGS: SET TO 20MM TEST PIT

EAGLE II SETTINGS: MK26 SETTINGS:

I. WORK SUMMARY:

a. WORK PLANNED: INTRUSIVE IN PICRIC ACID PIT. CONTINUE CLEARING SCRAP. SUPPORT THE FENCE CONTRACTOR

b. WORK ACCOMPLISHED: DUG OUT THE PICRIC ACID PIT DRESSED IN LEVEL C PROTECTION. NO NEW BOTTLES WERE ENCOUNTERED AND NO RADIATION WAS DETECTED. PROVIDED SUPPORT FOR THE FENCE CONTRACTOR AND CONTINUED WITH SCRAP CLEAN UP ON THE SITE NO LIVE ORDNANCE WAS ENCOUNTERED. AN ATTEMPT WAS MADE TO USE SHOENSTEDT'S TO ANGLE THE BANK OF THE PIT BUT THE BANK WAS TOO CONTAMINATED.

c. EXPLANATION OF DISCREPANCY:

d. INSPECTION RESULTS:

II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

MISC METAL SCRAP 1000 LBS

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
| SCHOENSTADT | 2 | 1 |
| RADIAC | 1 | 1 |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP:

~~PROJECT MANAGER:~~ DATE: 10 MAR 94

Jack A. Conn

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**DATE:** 11 MAR 1994

**CONTRACT NUMBER:** DACA 87-92-D-0133 **DELIVERY ORDER #** 0013

**LOCATION:** HOLLOMAN

**WEATHER CONDITIONS:** FAIR + WINDY

**FISHER SETTINGS:** **SHOENSTEDT SETTINGS:**

**EAGLE II SETTINGS:** **MK26 SETTINGS:**

**I. WORK SUMMARY:**

**a. WORK PLANNED:** CONTINUE REMOVAL OF SCRAP FROM SITE AND SUPPORT OF FENCE AND SURVEYING CONTRACTORS.

**b. WORK ACCOMPLISHED:** SUPPORTED FENCE AND SURVEYING CONTRACTORS AND CONTINUED REMOVING SCRAP FROM SITE. FOUND ONE ROCKET MOTOR WITH APROXIMATELY 100LBS OF POSSIBLE PROPELLANT. EOD WAS NOTIFIED AND THEY RESPONDED. THEY WILL SEND EXPERTS TO IDENTIFY MATERIAL ON 14MAR. EOD STATED THAT THEY WILL NOT CERTIFY ANY ORDINANCE RELATED ITEMS SAFE FOR TURN IN TO DRMO UNTIL STEAM CLEANED BY THE ROCKET SLED UNIT.

**c. EXPLANATION OF DISCREPANCY:**

**d. INSPECTION RESULTS:**

**II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):**

COE. REPRESENTATIVE CALLED HOME OFFICE ABOUT TURN IN OF ORDNANCE RELATED SCRAP. AWAITING ANSWER.

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| ROCKET MOTOR W/PROPELLANT | 1 | GRID 3 N END OF ACID TRLR. | LEFT FOR EOD |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

11 EMPTY ROCKET MOTORS & MISC METAL SCRAP
700 LBS

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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HFA, INC.
OEW OPERATIONS
DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP:

~~PROJECT MANAGER:~~ DATE: 11 MAR 94

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**DATE:** 14 MAR 1994

**CONTRACT NUMBER:** DACA 87-92-D-0133 **DELIVERY ORDER #** 0013

**LOCATION:** HOLLOMAN

**WEATHER CONDITIONS:**

**FISHER SETTINGS:** **SHOENSTEDT SETTINGS:**

**EAGLE II SETTINGS:** **MK26 SETTINGS:**

**I. WORK SUMMARY:**

**a. WORK PLANNED:** REMOVAL OF ACID TANKER AND CONTINUED SCRAP REMOVAL. SUPPORT OF FENCE CONTRACTOR.

**b. WORK ACCOMPLISHED:** THE ACID TANKER WAS REMOVED FROM THE SITE WITH A FRONTEND LOADER. STOOD BY FOR THE FENCE CONTRACTOR AND REMOVED SCRAP METAL AND ROCKET MOTORS FROM THE SITE. AWAITING A MODIFICATION TO THE SCOPE OF WORK TO HIGH PRESSURE WASH OR STEAM CLEAN ROCKET MOTORS PRIOR TO TURN IN TO DRMO. FOUND A 1/LB INCEDIARY OUTSIDE OF FENCED AREA.

**c. EXPLANATION OF DISCREPANCY:**

**d. INSPECTION RESULTS:**

**II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):**

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**IV UXO SUMMARY**

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
|---|---|---|---|
| | | | |

b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
|---|---|
| | |

c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

ACID TRAILER 10,000 LBS MISC SCRAP + EMPTY ROCKET MOTORS 1600 LBS.

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

| V PERSONNEL/EQUIPMENT UTILIZATION | | |
|---|---|---|
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| a. PERSONNEL ON-SITE | | |
| | | |
| **DESCRIPTION** | **NUMBER** | **MAN-HOURS** |
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
| FRONT END LOADER (550) | 1 | 8 |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP

~~PROJECT MANAGER~~: DATE: 14 MAR 94

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**DATE:** 15 MAR 1994

**CONTRACT NUMBER:** DACA 87-92-D-0133 **DELIVERY ORDER #** 0013

**LOCATION:** HELLCMAN

**WEATHER CONDITIONS:** FAIR

**FISHER SETTINGS:** **SHOENSTEDT SETTINGS:**

**EAGLE II SETTINGS:** **MK26 SETTINGS:**

**I. WORK SUMMARY:**

**a. WORK PLANNED:** CONTINUE SCRAP REMOVAL AND SUPPORT OF FENCE CONTRACTOR.

**b. WORK ACCOMPLISHED:** CONTINUED SCRAP REMOVAL. FOUND A BOTTLE OF UNKNOWN CONTENTS WHILE FILLING IN PITS. THE BOTTLE WAS MARKED BY STAKES AN CAUTION TAPE. PROPELLENT (BALLISTITE) WAS FOUND OUTSIDE THE FENCE OF SITE OT-04. WASHED OUT ROCKET MOTORS FOR BLD INSPECTION. FOUND AN ELECTRIC BLASTING CAP OUTSIDE OF FENCED AREA.

**c. EXPLANATION OF DISCREPANCY:**

**d. INSPECTION RESULTS:**

**II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):**

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**IV UXO SUMMARY**

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | ~~2~~ | ~~16~~ |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
| FRONT END LOADER 950F | 1 | 8 |
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VI COMMENTS/CONCERNS

VII SIGNATURE(S)/DATE:

SENIOR UXO SUP

PROJECT MANAGER: DATE: 15MAR 94

Jack A. [illegible]

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**DATE:** 16 MAR 1994

**CONTRACT NUMBER:** DACA 87-92-D-0133 **DELIVERY ORDER #** 0013

**LOCATION:** HOLLOMAN

**WEATHER CONDITIONS:** FAIR + WARM

**FISHER SETTINGS:** **SHOENSTEDT SETTINGS:**

**EAGLE II SETTINGS:** **MK26 SETTINGS:**

**I. WORK SUMMARY:**

**a. WORK PLANNED:** FILL IN HOLES AND TURN SCRAP IN TO DRMO.

**b. WORK ACCOMPLISHED:** FILLED IN HOLES AND TURNED SCRAP IN TO DRMO. FOUND MORE BOTTLES OF UNKNOWN SUBSTANCE. THE BOTTLES WERE MARKED BY CAUTION TAPE. FOUND MORE PROPELLANT OUTSIDE OF FENCED AREA.

**c. EXPLANATION OF DISCREPANCY:**

**d. INSPECTION RESULTS:**

**II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):**

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

| V PERSONNEL/EQUIPMENT UTILIZATION | | |
|---|---|---|
| | | |
| a. PERSONNEL ON-SITE | | |
| | | |
| **DESCRIPTION** | **NUMBER** | **MAN-HOURS** |
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | 1 | 8 |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | 1 | 8 |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | 2 | 16 |
| UXO Supervisor | 1 | 8 |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**b. EQUIPMENT UTILIZATION**

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | 2 | 16 |
| GPR | | |
| *Other Equipment (List)* | | |
| FRONT END LOADER | 1 | 8 |
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**VI COMMENTS/CONCERNS**

**VII SIGNATURE(S)/DATE:**

PROJECT MANAGER: DATE:

GOVERNMENT REPRESENTATIVE: DATE:

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**DATE:** 17 MAR 1991

**CONTRACT NUMBER:** DACA 87-92-D-0133 **DELIVERY ORDER #** 0013

**LOCATION:** HOLLOMAN

**WEATHER CONDITIONS:** FAIR & WARM

**FISHER SETTINGS:** **SHOENSTEDT SETTINGS:**

**EAGLE II SETTINGS:** **MK26 SETTINGS:**

**I. WORK SUMMARY:**

**a. WORK PLANNED:** DEMOBILIZATION

**b. WORK ACCOMPLISHED:** DEMOBILIZATION AND PACK OUT OF EQUIPMENT.

**c. EXPLANATION OF DISCREPANCY:**

**d. INSPECTION RESULTS:**

**II INSTRUCTIONS RECEIVED FROM GOVERNMENT REPRESENTATIVE(S):**

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

**IV UXO SUMMARY**

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

IV UXO SUMMARY *(continued)*

a. UXO LOCATED

| TYPE | QUANTITY | LOCATION | DISPOSITION |
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b. DEMOLITION SUPPLIES EXPENDED

| TYPE | QUANTITY |
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c. SCRAP GENERATION/DISPOSITION: (TYPE/WEIGHT/QUANTITY)

Continuation Page

# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

V PERSONNEL/EQUIPMENT UTILIZATION

a. PERSONNEL ON-SITE

| DESCRIPTION | NUMBER | MAN-HOURS |
|---|---|---|
| Civil Engineer | | |
| Environmental Engineer | | |
| First Aid Specialist | | |
| Heavy Equipment Operator | | |
| Helper | | |
| Magnetometer Operator | | |
| Project Manager | | |
| Quality Control Specialist | | |
| Rodman | | |
| Safety Engineer | | |
| Secretary | | |
| Security Guard | | |
| Senior UXO Supervisor | | |
| Site Safety Officer | | |
| Surveyor | | |
| Technical Writer | | |
| Truck Driver (Heavy) | | |
| Truck Driver (Light) | | |
| Typist | | |
| UXO Assistant | | |
| UXO Specialist | | |
| UXO Supervisor | | |
| Unskilled Labor | | |
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| *Sub-Contractor Personnel (List by category)* | | |
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# HFA, INC.
# OEW OPERATIONS
# DAILY OPERATIONS JOURNAL

b. EQUIPMENT UTILIZATION

| DESCRIPTION | QUANTITY | HOURS |
|---|---|---|
| Backhoe, Wheeled | | |
| Backhoe, Tracked | | |
| Car (Sedan) | | |
| Dozer | | |
| Magnetometers: | | |
| Shoenstedt | | |
| Fisher | | |
| MK26 | | |
| Eagle II | | |
| Radio, Handheld | | |
| Truck, Heavy | | |
| Truck, Light | | |
| GPR | | |
| *Other Equipment (List)* | | |
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**VI COMMENTS/CONCERNS**

**VII SIGNATURE(S)/DATE:**

PROJECT MANAGER: DATE:

GOVERNMENT REPRESENTATIVE: DATE:

**TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT**