ABANDONED MINES SURVEY

MAGDALENA MINING DISTRICT

SOCORRO COUNTY

NEW MEXICO

FINAL REPORT

VOLUME I

Prepared for:

ABANDONED MINE LAND BUREAU

Energy and Minerals Department

525 Camino de los Marquez

Santa Fe, New Mexico 87501

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28 June 1986

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

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June 19, 1986

Mr. Alan Hall
Energy and Minerals Department
525 Camino de los Marquez
Santa Fe, NM 87501

Dear Mr. Hall:

The New Mexico Bureau of Mines and Mineral Resources is pleased to submit this report on the findings of our Abandoned Mines Survey in the Magdalena Mining District.

We are providing you with a reproducible copy of the text (Vol I), photographs of each site (Vol II), data sheets (Vol III), and map plates (Vol. IV). In addition we are providing two blueline copies of each map photo. We are placing a duplicate copy of the report on open-file at the New Mexico Bureau of Mines so that the data are readily available to the public.

It has been a pleasure working on this very interesting project in one of the state's most historic hard rock mining districts. If you have any questions regarding the report please call me.

Sincerely,

Gary Johnpeer
Engineering Geologist

Danny Bobrow
Project Geologist

GJ/dg

xc: Files

ABANDONED MINES SURVEY

MAGDALENA MINING DISTRICT

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1.0 INTRODUCTION

The purpose of this study was to survey inactive and abandoned mines in the Magdalena mining district (Fig. 1) and to document their present-day conditions. The work was conducted in accordance with Contract No. 1-74-48 for the Energy and Minerals Department. The nature and details of the work correspond to guidelines prepared by Mr. Alan Hall of the New Mexico Abandoned Mine Land Bureau (Section 12.0). The numbering system and field methodology were reviewed and the general boundaries of the survey area were provided by Mr. Hall during his site visit on February 20 and 21, 1986.

Sixty-two man-days were expended on field surveys and 60 man-days were expended for data compilation and report writing during February through June 1986. Details of daily activities are provided in the weekly reports (Section 11.0). The field work and report preparation were primarily conducted by Danny Bobrow and Gary Johnpeer. With verbal approval from Mr. Hall, Glenn Osburn assisted with field and office work during times when Gary Johnpeer was not available. Others who assisted with the field surveys or report writing were John Hawley, David Love, Robert Eveleth, Stewart Smith, Sylveen Cook, Robert North, and Kevin Cook. James Robertson and Michael Gobla assisted with project administration and, in addition to those listed above, reviewed the final report.

The report is divided into four (4) volumes. Volume I consists of the text, bibliography, and other project documentation including weekly

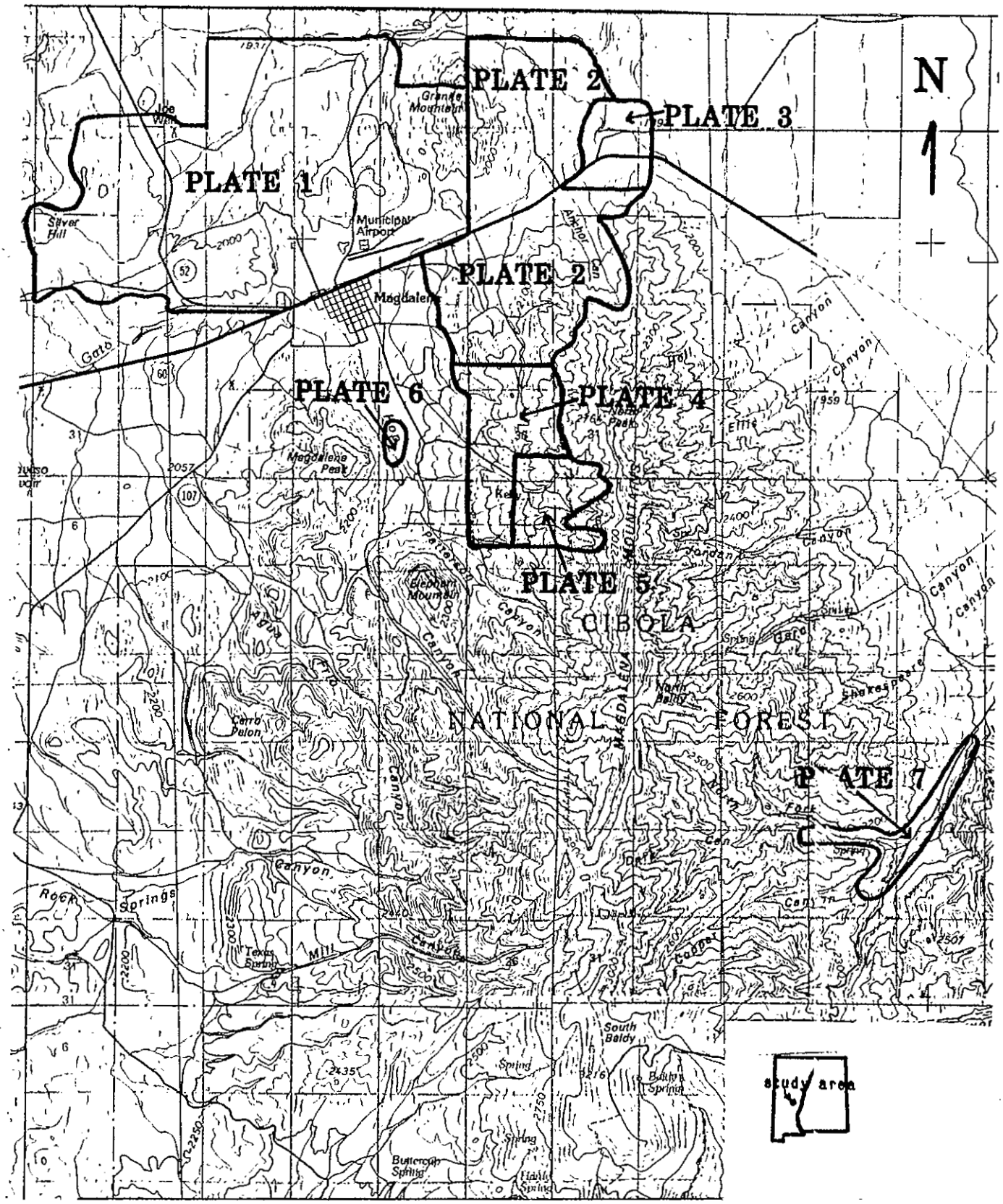

Figure 1. Map showing location of plates in Volume IV.

Base from U.S. Geological Survey, 1979.

reports and correspondence with mine owners. Volume II is an album of photographs documenting current conditions of surveyed items. Volume III contains data sheets pertaining to each of the 372 items surveyed. Volume IV (map tube) contains detailed location maps (plates) of each surveyed site. Provided are reproducible maps and two paper copies of each map.

The numbering system used to identify sites on the photographs, data sheets, and maps consists of a site area number such as AMS-3, followed by a letter that corresponds to a specific item (such as a shaft, adit, or stope) at that site. A given site area may have a number of items identified (e.g., AMS-3A, AMS-3B, AMS-3C, etc.).

The field data sheets document site parameters (e.g., location, distance from Magdalena, closest public facility), and contain photographic data (top of sheet). They also describe mining-related items (Section A) and give a detailed description of the condition of the observed mining-related item (Section B). Recommendations or comments, where relevant, are given at the bottom of each sheet.

We have attempted to identify all major mines and minirg-related features in the study area. There is a high degree of assurance that all significant mines were located, photographed, and described. However, time constraints, poor access, and in some places, vegetative cover may have resulted in the omission of some mines.

2.0 BACKGROUND

The Magdalena mining district is located on the western side of the Magdalena mountains. The range is a north-south trending, west-dipping fault block bounded on both sides by north-trending normal faults. Rocks within the district not only dip to the west but are downdropped to the west by the western range-bounding faults.

Progressively exposed from east to west in the range and the district are: Precambrian granite and metamorphic rocks; Mississippian and Pennsylvanian limestones, shales, and sandstone; Permian sandstones, shales and limestones; and a sequence of Tertiary volcanic rocks ranging from rhyolite to basalt. This section is intruded by Tertiary monzonitic to granitic stocks and rhyolitic, monzonitic, and mafic dikes.

Mineral deposits in the Magdalena district are thought to be related to mid-Tertiary intrusive rocks that are currently exposed in some areas and buried in others. These deposits are represented by replacement deposits in Paleozoic limestones (particularly the Mississippian Kelly Limestone), by quartz veins containing gold and silver along with the base metals (i.e., copper-lead-zinc) such as those found cutting carbonate rocks high in the Magdalena range, and by skarn deposits containing lead and zinc along with some silver in limestones adjacent to the intrusive stocks. Additionally, considerable exploration has been done along altered white rhyolite dikes, which commonly host some gold mineralization.

The first recorded shipment of ore left the Magdalena district in 1872. Within little more than a decade such properties as the Kelly and Graphic brought the district into the forefront as New Mexico's premier lead-silver camp. Soon after the turn of the century, C. T. Brown discovered that the brown worthless-looking rock, previously thought to be iron-stained limestone and thrown on the dumps for years, was actually the variety of smithsonite known as "dry bone ore." This discovery led to the re-emergence of the district, this time as a premier zinc producer.

3.0 FIELD METHODS

The Abandoned Mines Survey field work involved visiting inactive and abandoned mining sites in the Magdalena, New Mexico, area. The location and limits of the Magdalena area surveyed were delineated on February 21, 1986, by Alan Hall (Fig. 2). Using Loughlin and Koschmann (1942), files at the New Mexico Bureau of Mines, and Reineck (1932), it was determined which mining claims were patented. The addresses of current owners of the patented mining claims were obtained at the Socorro City Hall by examining Magdalena school district tax records. Each patented mining claim owner was mailed a letter requesting access to his patented property (Section 12.0). Only one owner denied access to his mine (H. Dobson, owner of the Graphic mine, Plate 4, Vol. IV).

After the areas to be surveyed were delineated, appropriate base maps were selected and the scales enlarged. Sites of past mining activity

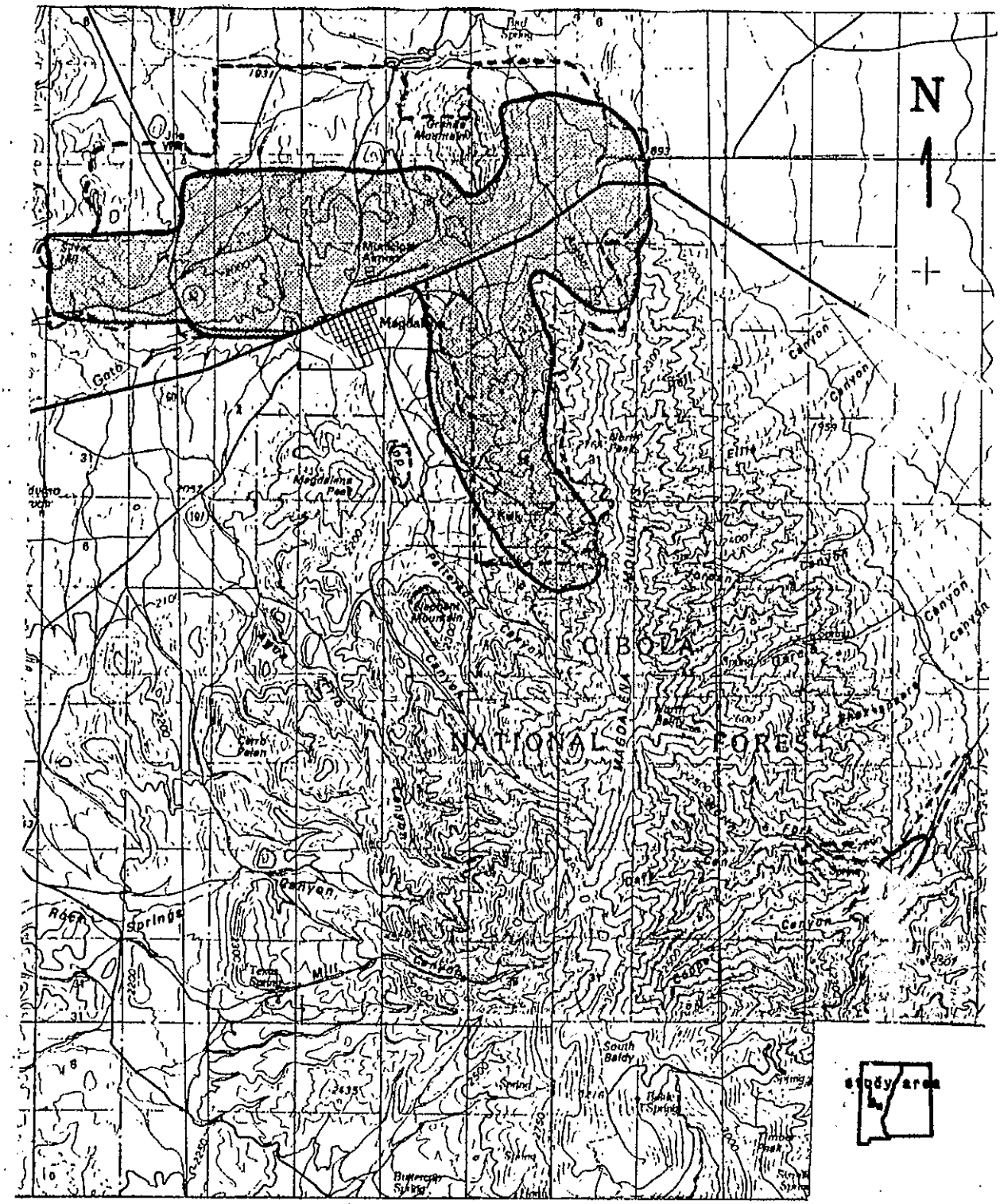

Figure 2. Requested area of detail survey-- ▒ (Alan Hall, personal communication).

Surveyed area this study--dashed line.

Base from U.S. Geological Survey, 1979.

in the Magdalena area were identified (Reineck, 1932) and a field examination schedule was planned. In the 25 mile^2 study area it was obvious there were many post-1932 mining sites not shown on existing maps. As a result, stereo aerial photographs (black and white and color IR at scales of 1:31,680, 1:58,000, and 1:80,000) were examined and possible mining sites were delineated and plotted on base maps (Vol. IV). The photo interpretations were then field checked.

Mines outside the Magdalena mining district (Reineck, 1932) were also located from existing literature, aerial photograph interpretation and field checking. Simon (1973) was used for the Silver Hill-Arroyo Landavaso area (Vol. IV, Plate 1). For the Water Canyon area sources included: Osburn (1978), J. W. Hawley and R. A. Bieberman (personal communication 1986), and U.S. Geological Survey (1985). Only major mines within easy access of campgrounds and picnic areas were surveyed in the Water Canyon area.

Each week D. Bobrow and G. Johnpeer selected a specific area to survey and subdivided that area into several days of field work. In general, each specific mining claim area was examined during a single field day. In the field the mining sites were located and the condition of observed mining items was described on the field data sheets (Vol. III). The locations of additional mining items and roads were plotted on the base maps as accurately as possible using topographic contour lines and estimated distances and directions from known points. Also noted on the data sheets were accessibility of mining sites, evidence of recent visitation, and

whether the item was posted and fenced. The numbering system used is synchronized on the photographs (Vol. II), field data sheets (Vol. III), and plates (Vol. IV). Each abandoned mine site located has been outlined on a plate. Within each mine site, individual mining-related items were photographed, described, and located. Occasionally, a mine could not be located although a mine symbol was shown on the existing base map. On Plates 1-6 (Vol. IV), the mine symbol was labeled "not located." Where an investigated area had no mines and no mine symbol was shown on the existing base map, the the label used was "no mines found." Table 1 and Figure 3 summarize the number and type of mining features examined during the survey.

Due to the funnel-shaped area at the entrances to most shafts, inclines, and stopes, their depths were determined in most cases by pitching a rock into the opening. In cases where a tape measure could be used, the pitching method was "calibrated" and found to be reasonably accurate.

4.0 DISCUSSION

During the field survey, 92 adits, 16 inclines, 141 shafts, 12 open cuts, and 6 stoped areas were found. A total of 105 other mining items, such as buildings, trash dumps, and mine dumps were located and described. Of these items, the 163 shafts, inclines, and stopes are perhaps the most hazardous. This is due in large part to the funnel-shaped area around their entrances, lack of posting, lack of adequate fences, access, depth,

Table 1. Summary of mining items located in the AMS study area.

LOCATION	ITEM											
	SHAFT	ADIT	INCLINE	TRACK (TRESTLE)	OPEN PIT/CUT	LOADING BIN	BUILDING/SHACK	STOPE	MINE DUMP*	TAILINGS	TRASH DUMP	BUILDING/SHACK (HEADFRAME)
AMS- 1		1				1			2			
AMS- 2	4	4				1	1	1	2		1	
AMS- 3		4						2				
AMS- 4		2					1		3			
AMS- 5	1	4										
AMS- 6	4	2						1	3			
AMS- 7	4	4				2			4			
AMS- 8	1	4					2	1	1		1	
AMS- 9	4	2							1			1
AMS-10	8	2										
AMS-11	10	3			2		2		4			2
AMS-12	7	4		1			2		2			2
AMS-13	11								9			
AMS-14	2	2	1						3			
AMS-15	2	4				2	3		3	1		2
AMS-16	2	2	1						1			
AMS-17	11								8			
AMS-18	11	3	2						8			
AMS-19	1	2			1	1	1		1			
AMS-20	3	3	2						1			
AMS-21	5	14	2		2				3			
AMS-22	2	2	1			1			2			1
AMS-23	2					1				1		1
AMS-24	1	7	1									
AMS-25	4	3			3	1			2			
AMS-26	8	3				1			1			
AMS-27	6											
AMS-28	6	1	2									
AMS-29	7	7	3		1				1			
AMS-30	8	1			1				1			1
AMS-31	4				2				2			
AMS-32	2	2	1					1				
TOTALS	141	92	16	1	12	11	12	6	67	2	2	10

*Only 67 mine dumps and 2 tailings dumps were identified by location although all were described on the field data sheets (Vol. III).

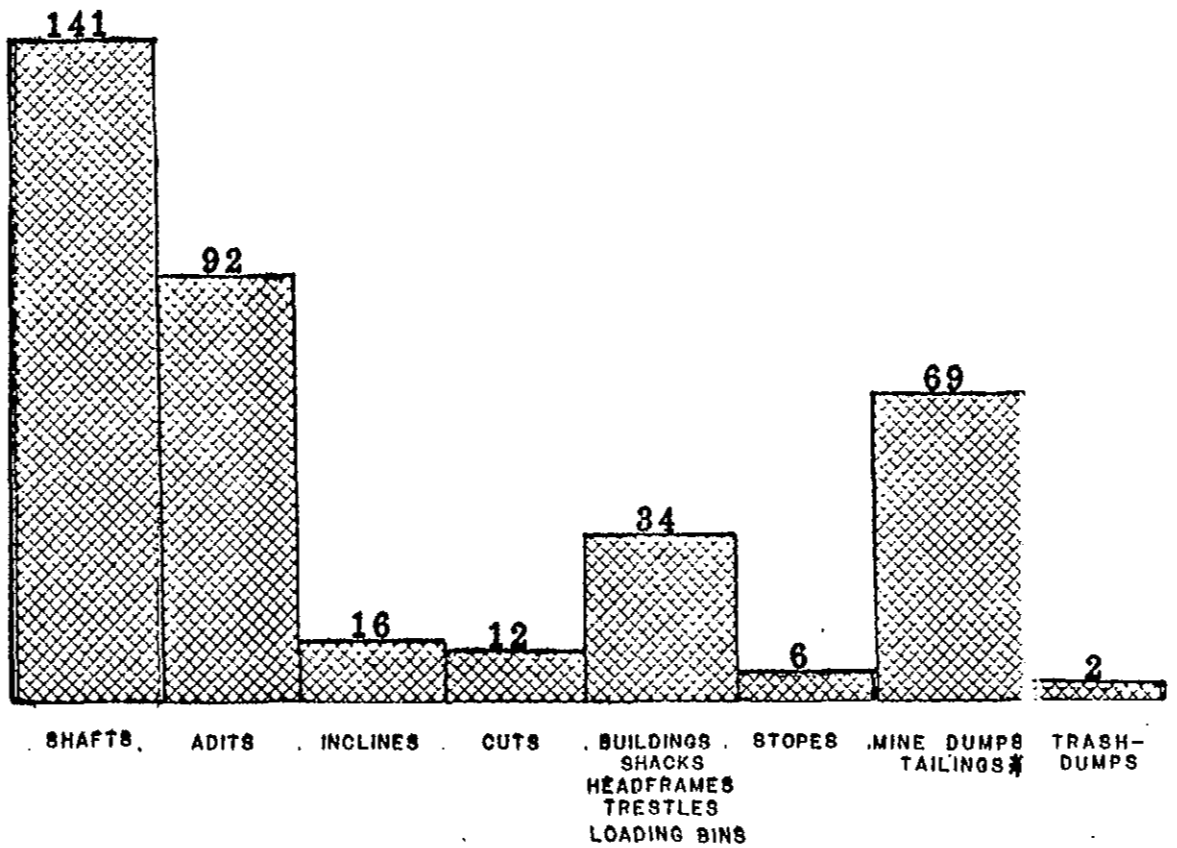

Figure 8. Histogram of mining items located in the Magdalena study area.

* **Only 67 mine dumps and 2 tailings dumps were identified by location although all were described on the field data sheets (Vol. III).**

and rotted wooden covers common to many of these features. Due to this inherent hazard, we did not measure their depths exactly; therefore, depths recorded on the field data sheets are estimates in most cases. Forty-five of the combined number of shafts, inclines, and stopes have an estimated depth of less than 20 feet, eighty-six are 20-50 feet deep, sixteen are 50-100 feet deep, and fourteen are estimated to be 100-200 feet deep. Two shafts, the Traylor and Paschal (AMS-15A and AMS-15I) are estimated to be greater than 200 feet deep.

Adits were not entered more than a few feet. The horizontal distance of these features could only be estimated. The entrances to adits are generally in good condition and are standing well. The timbering in many cases has deteriorated where exposed to moisture. Some adits have caved sections visible from the entrance (e.g., AMS-21"O"). Some sloughing of loose talus above the entrances has occurred at most adits. Few are fenced or posted and access is generally good. Other mining-related items such as loading bins, mine dumps, buildings, etc. generally represent only a minor hazard in comparison to the open shafts and inclines.

5.0 FUTURE MINING POTENTIAL

Mines in Magdalena were productive for more than 50 virtually uninterrupted years (about 1885-1945). This contributed directly to much of the infrastructure in the Socorro area today (such as the Institute of Mining and Technology). The mining district is credited with base and

precious metal production totalling about $45 million. Magdalena, along with nearly every other base-metal district nationwide, is currently a victim of the so-called metals market depression. This phenomenon is, however, cyclical and will improve with time and technological change. Extreme care should be taken that "corrective" measures contemplated today are not considered imprudent in the future.

For the present there is a healthy demand for precious metals bearing silica flux. Many of the quartz-vein deposits such as those high up in the Magdalena Range and others in Hop Canyon, Mill Canyon, and the north Magdalena district have the potential to satisfy a portion of this demand; currently the gold potential of the quartz-vein deposits is being assessed. The workings on these veins are generally small but still yield important insight to the exploration geologist. They are particularly attractive targets for the small miner or company but only so long as the workings remain open for examination.

For the future, the Magdalena district offers excellent targets for lead-zinc skarn deposits. Although these kinds of deposits are not currently economic, they could easily become so in the near future, particularly if metallurgical research achieves a breakthrough in the processing of sulfide ores (sphalerite, galena, and associated minerals). Metallurgy, like much of science, is evolving rapidly, especially in the field of biological extraction. The discovery of just a few of the right bacteria could suddenly make zinc deposits extremely attractive targets, most particularly those that are accessible.

Currently the United States imports more than half of the zinc needed to meet demand. The U.S. Geological Survey has estimated (see, for example, Guilbert and Park, 1986, tables 1-4, p. 11) that there are not enough identified zinc or lead resources to meet world demand through the year 2000. On the other hand, they estimate that there are substantial undiscovered or perhaps unrecognized resources of zinc and lead and that research on these deposits should focus on geologic theory and exploration methods that will lead to the discovery and development of these metals. This research can better be done with a three-dimensional look at the deposits and with access to the ores.

From the standpoint of the exploration and research geologist, the permanent closure of hard rock mine workings is ill-advised. Closing workings deprives the geologist of the all-important third dimension of geology. Even an orebody that appears to be mined out can give clues to the observant scientist as to how it formed. After 200 years geology is a science still in its infancy with new ideas and concepts being developed constantly. Orebodies are a part of the geologic record that are not well understood. Geologists need the advantage of a three-dimensional look into these phenomena, and armed with ever-changing ideas and methods, they hope to elucidate the origin of ores. The Magdalena mining district will doubtless contribute to this knowledge.

Alternative techniques to mine back-filling as a method of assuring safety should be investigated thoroughly. Specifically, techniques of closing mine workings with engineered barriers such as welded-steel

bulkheads, grates, caps, and covers should be investigated. Regular (at least annually) inspection of closed mines could be implemented. Fencing may be appropriate in certain localities but that would require regular inspection because of potential vandalism. No fences were found to be intact during the survey. The objective of any closure program should be to balance the concerns of safety with the scientific rescurce that open hard-rock workings represent.

6.0 ENVIRONMENTAL CONCERNS

Once hazardous conditions are identified at abandoned-mine sites, environmentally sound mitigating measures will be proposed by agencies responsible for assuring future safety at those sites. Remedial strategies must be developed that do not place a strain on already scarce soil and water resources or fragile ecosystems of this semiarid and mountainous terrain. The availability (or lack) of surficial earth materials and water in the Magdalena area will certainly be a major factor in selection of remedial measures that can reasonably be taken to assure future safety at hazardous mine sites identified in this study.

During the course of this investigation, the Environmental Geology Section of the New Mexico Bureau of Mines and Mineral Resources reviewed existing data (published and unpublished) on unconsolidated surficial deposits, soils, terrain features, and water resources of the Magdalena area. Soil surveys covering the area have been completed by the U.S.

Forest Service (USFS, Cibola National Forest and enclosed private lands) and the Soil Conservation Service (SCS) and/or the Bureau of Land Management (BLM, state and private lands). Because these soil surveys have not yet been published, open-file maps and reports were obtained from the SCS and the Forest Service for our records, and soil scientists (Forest Service and BLM) familiar with these soil surveys were interviewed. Groundwater reports pertinent to the Magdalena area (Clark and Summers, 1971; Anderholm, 1983; Gross and Wilcox, 1983) were also reviewed and are cited in Section 9.0. This review of information on surficial materials, terrain features, and water resources is also part of an ongoing study (since 1978) of the Quaternary and surficial geology of New Mexico done in cooperation with the Central Regional Geology Branch of the U.S. Geological Survey.

While this review is preliminary, and additional input by watershed, vegetation, and soils specialists is needed, it is clear that soil and water resources of the Magdalena study area are very limited. Historically, precipitation-runoff, soil-moisture, and ground-water availability have not proved adequate to support the various economic activities undertaken in the area. Soils and other unconsolidated surficial deposits are thin and slopes are steep and complex in much of the area. Textures of unconsolidated surficial materials range from gravel to clay, but tend to have a large percentage of coarse fragments (up to 10-15 inches in diameter). The semiarid grassland, mixed forest-grassland, and forest ecosystems associated with the relatively dry soil-moisture regimes are

also very fragile. Future disturbance of natural soils, vegetation, or existing mine spoil (much of which has some vegetative cover) is therefore not recommended. Moreover, water supplies are barely adequate to meet the normal demands of the local population; and water is certainly not available for special back-filling techniques that have been used in other mining districts.

7.0 SUMMARY

Documentation of abandoned mines and their present-day status was completed for the areas shown on Plates 1-6 (Vol. IV). A total of 371 items was located, photographed, and described. The effort required 62 man-days of field work and 60 man-days for office compilation and report writing. Information gathered for each site includes general site parameters (e.g., location, access, geologic unit), and a detailed description of mine or mining-related items. Each mining site is located accurately on the plates of Volume IV.

Future mining potential is dependent upon a number of conditions (Section 5.0). Backfilling of mines in the Magdalena mining district would have a detrimental impact on future mining potential. In many cases, road access to mined areas is very limited. Equipment required to backfill the mines may adversely affect the environment. Availability of suitable backfill material also needs to be thoroughly assessed (Section 5.0).

Concerns such as these need to be addressed before any closures are attempted. Alternative means of sealing the mines such as engineered

welded caps, covers, and bulkheads or improved methods of fencing should be explored.

8.0 ACKNOWLEDGMENTS

The authors wish to acknowledge the assistance of the numerous land owners who allowed us to document mines in the study area. Robert North, Robert Eveleth and the authors wrote section 5.0 and John Hawley wrote section 6.0 of the report. Mickey Wooldridge and Irene Rae assisted with the graphics; Annette Carroll typed the report; and Theresa Lopez typed the data sheets. Robert Chamberlin provided access to the Waldo mine area. Mike Gobla prepared the bibliography (Section 10.0). The final report was edited by Deborah Shaw.

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The following contains preliminary documentations of unpublished maps that are held in NMBM&MR's collections of unpublished maps but that are not yet entered into the computer data base of the IR&SC. Final copies will be available in the near future.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3. C7 Linchburg 1975, No9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT Colored

COUNTY: Socorro

SCALE: 1: 360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1975

PUBLISHER: Unpublished. Hydro Nuclear Corp. Collection

ACTLOC: EO-MCR-3

KEYWORDS:

TITLE: Linchburg Mine

AUTHOR: Allen, P.

COMMENTS:

Mine map showing the geology of the Linchburg Mine; shown are rock types and mineralogy with descriptions, faults, timbered sections of mine, dikes, contacts between rock types and strikes and dips. Map is colored. From 7300E - 7900E, 4500 N - 5700N

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3:C5 LINCHBUR 1975.H9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT Colored.

COUNTY: Socorro

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1975

PUBLISHER: Unpublished - Hydro Nuclear Corp. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Linchburg Mine
Mine Composite, Sheet 4

AUTHOR:
Allen, P., NEG, RAH

COMMENTS:
Mine map showing the underground plan and Geology of the Linchburg Mine. Also shown is mineralogy, and rock types, fractures, faults, strikes and dips, spot elevations, ore passes, caved-in areas, inclines, description of rock types. Map is Colored. From 7300E - 7900E, 5300N, 6000N

M1:	M2:	ID#:
MAP	MINE	G432357 ; 2m3 SHAFTDIA

MAPTYPE:

	MANUSCRIPT		TRACING	1 PHOTOCOPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: V: 1" = 100'
H: 1" = 300'

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: JUNE 1918

PUBLISHER: UNPUBLISHED

ACTLOC: EO MAG DIST MISC

KEYWORDS: NITT, WALDO, PASCHAL, TRAYLOR, WINZE, CONTACT SHAFTS.

TITLE: SHAFT DIAGRAM of the OZARK SMELTING & MINING CO

AUTHOR: PHILIP ARGALL & SONS

COMMENTS:

M1:	M2:	ID#:
MAP	GEOL	G4323, S7: 2M3. C5 BUCKEYE 1945, B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:240

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945 est.

PUBLISHER: unpublished NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Buckeye Mine - Block Diagram

AUTHOR: Berliner, M.H.; Fay, V.F.; Pierce, J.

COMMENTS:

Map showing the geology of the Buckeye Mine in block form, shows rock types (with symbols), fault planes with direction of slip, fault traces, mine workings (drift, gob and shafts). has legend, original map in color.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1.1893.S9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat Xerographic Reproduction

COUNTY: Socorro

SCALE: 1:31680

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1893

PUBLISHER: unpublished Surveyor General Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Magdalena Mining District, Township No. 2 South, Range No. 4 West of the New Mexico Principal Meridian

AUTHOR: Brown, L.M.

COMMENTS: Mine map showing the patented mining claim line boundaries and survey boundaries in Sections 2, 3, 10, 11, 16, 17, 18, 19, 20, 21, 24, 25, 26, 33 and 36 of T2S, R4W. Also shown are mineral surveys.

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3.H2 .1946 .N4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished - A. S. + R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
American Smelting and Refining Co. Magdalena Unit
Raskob Tailings
File No. M-7-2C

AUTHOR:
P. J. C.

COMMENTS:
General map showing the plan of the Raskob tailings plant as of Aug 10, 1946, including the mill building, mill water tank, thickener tank, the tailing discharge line, as well as the location of the magnetic iron tailings, present tailings, and ash pile. Cross section lines A thru O are shown (trending NW).

M1:	M2:	ID#:
MAP	CLAIM	G4323.S7.2H3.H1.KELLY 1900.WB

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:2400

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1900

PUBLISHER: unpublished - Helene V Billing Wurlitzer foundation Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Map of the Kelly Group, Kelly New Mexico

AUTHOR: Chase, E.E.

COMMENTS:

Map showing claim line boundaries along with claim name and lode names, shafts, Cuts, Discovery Vein, Cimarron Vein, inclines and levels of the Kelly Group of Mines. Also shown are houses, roads and above ground workings offices, and the town of Kelly. Map covers T2S R3W, R4W, T3S R3W, R4W.

M1:	M2:	ID#:
MAP	MINE	G4323.S7: 2M3. H2 KELLY. 1900. W8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:480

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1900

PUBLISHER: unpublished - Helene V. Billing Worlitzer foundation

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Plan Map of the Kelly Mine, Kelly N.M.

AUTHOR: Chase; E.E.

COMMENTS:
Mine map showing underground workings, tunnels, air shafts, stopes, cross cuts, levels, geology (dykes, lodes) and inclines of the Kelly Mine. Has legend describing symbols used. Top left map shows the workings on the discovery vein connecting No. 3 level with Big 20 stope. Lower right hand map shows the cross section through No. 1 incline and Disc. Shaft looking South; also shows the geology and mineralogy, faults, and veins and levels of mine — Scale is 1" = 80 ft (1:960).

M1:	M2:	ID#:
MAP	MINE	G432357:2m3 NITT mine ?

MAPTYPE:

	MANUSCRIPT		TRACING	PHOTOCOPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1: 1"=30 ft

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE:

GEOGRAPHICAL PLACE NAME:

YEAR: ?

PUBLISHER: UNPUBLISHED

ACTLOC: EO NITT

KEYWORDS: CROSS SECTIONS

TITLE: NITT mine

AUTHOR: E.E. CHASE

COMMENTS:

CROSS SECTIONS of NITT mine

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3, H1 LINCHBUR 1975, M9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:240

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1975

PUBLISHER: Unpublished - Hydro Nuclear Corp. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
Linchburg Mine
Sheet 2

AUTHOR:
Colpitts, R.M.

COMMENTS:
General mine map showing the tunnels of the Linchburg Mine, along with the stations, stopes, inclines, and shafts. Sheet 2 of 2.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3:HI LINCHBUR 1975:1

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:240

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1975

PUBLISHER: unpublished - Hydro Nuclear Corp Collection

ACTLOC: ED- MCB

KEYWORDS:

TITLE:
Linchburg Mine
Sheet 1

AUTHOR:
Colpitts, R.M.

COMMENTS:
General mine map showing the main tunnel and adit, along with stations 1 through 11, the exhaust fan, the battery charge station for train and the Madera Fault Breccia. Sheet 1 of 2

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.112. KELLY 1947. A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished - American Smelting and Refining Co. Collection.

ACTLOC: ED- MCB-3

KEYWORDS:

TITLE:
Kelly Mine, Magdalena Mining District, Socorro Co. N. Mex
Cross Section W-42.00.
File No. M-152G-24D

AUTHOR:
Chamberlin, P. J.

COMMENTS:
Map of the Kelly Mine based on data taken from U.S.G.S. Professional Paper 200, Plate 2 and Fig. 15. Shows the Traylor Shaft, the Tunnel on the 10th Level (shows the Sandia formation), tunnel on 7th level, shaft from 10th to 12th level, and indicates where the levels 7 thru 12 are. Also shown is the geology and rock types in area. Strike of section N79°E thru 12425 N, 10000E. No legend.

40

M1:	M2:	ID#:
MAP	GEOL	G4323. S7: 2M3. C5 KELLY 1945, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:6000

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: Unpublished - A. S. + R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: A. S. + R. Co. Magdalena Mining District, Socorro Co., N. Mex. Silicified Kelly Limestone

AUTHOR: Chapman, L. H., and Desvaux, J. V.

COMMENTS: Map based on data taken from USGS Professional Paper 200 Plate 2 showing the geology and rock types of Magdalena unit including the silicified Kelly L.S. Also shown are the claim line boundaries and claim names. Map has legend.

M1:	M2:	ID#:
MAP	MISC.	G4323.S7:2M3, CS.1883.S9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat, Xerographic Reproduction

COUNTY: Socorro

SCALE: 1: 31680

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1883

PUBLISHER: unpublished Surveyor General Collection

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE: Township No. 2 South, Range No. 4 West of the Principal Meridian, New Mexico

AUTHOR: Curtis, J.A.

COMMENTS:

Topographic map showing mountains, springs, corrals, roads, and arroyos. Sections are numbered (1-36) and acreage is shown for the dotted areas in the individual sections. No contour interval; hachures instead, spot elevations.

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3, H2 1946, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished - A.S. + R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
American Smelting + Refining Co. Magdalena Unit.
Raskob Tailings
File No. M-7-1-C

AUTHOR:
J.V.D.

COMMENTS:
General map showing the plan of the Raskob tailings plant as of 7-7-[illegible] including the mill building, the thickener tank, the tailing discharge line, the location of the present tailings, magnetic iron tailings and the ash pile. Also shown on map are the results of an assay for percentages of silver, lead, copper and zinc.

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3.H1.1938.S9.

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat, Xerographic Reproduction

COUNTY: Socorro

SCALE: 1: 4752

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1938

PUBLISHER: Unpublished. Surveyor General Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Township No. 2 South, Range No. 4 West of the New Mexico Principal Meridian in New Mexico, Supplemental Plat of Section 26.

AUTHOR: Devendorf, C.W.

COMMENTS: General resurvey of the boundaries of Section 26, T2S, R4W in the Magdalena Mining District, showing the claim line boundaries, claim names, and survey boundaries. Mineral survey of land and areas of adjoining non-mineral land.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 GRANDLE 1947.M4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished - A.S.+R.Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: A.S.+R.Co, Magdalena Mining District, Socorro Co., N.Mex. Grand Ledge Area, Section F

AUTHOR: Desvaux, J.V.

COMMENTS:
Map showing geology, mineralogy and Grand Ledge fault, also strike of section N35°E through 3249 N, 1500 E, looking northerly. No legend.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 GRAND LE 1947. A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished - American Smelting + Refining Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Grand Ledge Area, Section "B"
File No. M-153E-2D

AUTHOR:
Desvaux, J.V.

COMMENTS:
Map showing the geology and mineralogy of the Grand Ledge Area Strike of section N85°E, thru 4150N., 1500E, looking Northerly. Also shown are 3 drill holes (GL.1, GL2, GL3) and the results of Core Assays on GL1 for metals (Au, Ag, Pb, Cu, Zn).

M1:	M2:	ID#:
MAP	GEOL.	G4323.S7:2M3.C5 GRAND LE 1947.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished - American Smelting + Refining Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: A.S.+R Co. Magdalena Mining District. Socorro Co. N. Mex. Areal Geology, Grand Ledge Area
File No. M-6G-1DE

AUTHOR:

Desvaux, J.V.

COMMENTS:
Map showing the geology, rock types, faults, dikes, and caverns in the Grand Ledge Area. Contour interval is 10 feet. Also shown are the section lines A, B, C and D. (See corresponding maps - File No. M153E-1D). Claim line boundaries and claim numbers are shown. Map has legend - for rock names.

M1:	M2:	ID#:
MAP	MINE	G4323.S7 :2M3JOHNTORR 1929

MAPTYPE:

	MANUSCRIPT		TRACING	1/ PHOTO COPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1" = 300'
1:

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: JAN 1929

PUBLISHER: UNPUBLISHED

ACTLOC: EO BLACK CLOUD

KEYWORDS: ~~KELLY TORRES~~ITE CLAIMS:
ADITS:

TITLE: JOHN TORRES PROPERTY MAGDALENA DISTRICT. SOCORRO NM

AUTHOR: J F DULING (L.A.CA)

COMMENTS:

CLAIMS: SILVERWAVE, FORESTER, FORESTER EXT, BIRTHDAY, UTICA 1, 3, HELEN CROSS, APEX, LAST CHANCE FRAC ENTERPRISE, TREASURE, VENUS, LION, JUPITER SATURN, CAPRICORN.

ADITS: MILL TUNNEL, (MISTLETOE), SKUNK, Linchburg

~~SEC. 1.6~~ SEC. 6 T3S R4W

M1:	M2:	ID#:
MAP	GEOL	G4323, S7:2M3:C5, 1944, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: Unpublished - A.S. R+Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: A.S.+R.Co. Magdalena Unit, Magdalena, N. Mex. Sections Thru Low Grade Ore Body

AUTHOR: L.P.E (Entwistle, L.P. -?)

COMMENTS:
Mine map showing the cross-section along line A-A' looking northerly - shows the geology, rock types, the silver pipe, faults, and tunnels on the 11th thru 14th level, including the low grade ore body
Longitudinal projection along line B-B' looking easterly shows the low grade ore body in relation to the 11th thru 13th levels, inclines, stopes. Also shown is a table showing samples + tonnage of Ag, Cu, Pb, Zn.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.M2 1944, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
|	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: Unpublished
A.S.+R.Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Plan of Low Grade Ore Body. Magdalena Unit - Magdalena. N. Mex.

AUTHOR: L.P.E. (Entwistle L.P.-?)

COMMENTS:
General mine map showing the plan of the low grade ore body on levels 11, 12, 13 and 14, along with sublevels in the Magdalena unit. Also shown is No. 2 incline, cross section A-A' (which trends NE), ... Diamond Drill Hole W37-38-39, longitudinal projection B-B' (trends NW-SE), and the property line between A.S.+R. Co and Tri-Bullion Co.

M1: MAP

M2: GEOL

ID#: G4323.57:2M3.C5 JUANITA.1943.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: unpublished - NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, N.Mex. Geologic Section J-1
File No: M-152E-9B

AUTHOR: Entwistle, L.P.

COMMENTS: Mine map showing geology, rock types, mineralogy, faults with slip direction and silver pipe alay with strikes and dips in the Juanita Extension Mine. No legend.

M1:	M2:	ID#:
MAP	GEOL	G4323. S7:2M3 .C5 JUAN:TA 1943 .B3

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magalena Mining District

YEAR: 1943

PUBLISHER: unpublished - NM BMMR

ACTLOC: ED - MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, N Mex. Geologic Section J-2
File No. M-152E-10B.

AUTHOR: Entwistle, L. P.

COMMENTS:
Mine map of the Juanita Extension Mine showing the geology, rock types, mineralogy. Kelly-Graphic fault along with other faults, dykes, silver pipe, underground levels, adit, cross cuts and dumps. Also shown are the cross section lines J-1 and J-2.
No legend.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2 M3.C5 JUANITA 1943.B3

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, N. Mex. Geologic Section J-3. File No. M-152E-11.B.

AUTHOR: Entwistle, L. P.

COMMENTS: Mine map showing the geology, rock types, mineralogy, faults, Kelly-Graphic Fault, silver pipe, cross cuts and cross-section lines J-3 and J-4. No legend.

M1:	M2:	ID#:
MAP	GEOL	G4823.S7:2M3.C5 JUANITA 1943.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: unpublished NMBMMR

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, NM. Geologic Section J-4
File No. 152E-12B

AUTHOR: Entwistle, L.P.

COMMENTS:
Mine map showing geology, rock types, mineralogy, fault, silver pipe and cross-section line J-5.
No legend.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.M2 WALDO 1944, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: unpublished - A.S.+R. Co. Collection

ACTLOC: ED - MCB-3

KEYWORDS:

TITLE: Waldo Mine, Magdalena Mining District, N. Mex Longitudinal Projection on Eastern Ore Body Contact Between Kelly Limestone and Greenstone. File No. M-151E-1

AUTHOR: Entwistle, L.P.

COMMENTS:

Mine map, showing the 6th through 11th levels in the Waldo; caved in areas, stopes, raises shown. Also, mineralogy and Waldo Fault, intersection Ida Hill Fault with Greenstone. Map colored.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 LITTLE L.)1944, B8:

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944est.

PUBLISHER: Unpublished NMBMMR

ACTLOC: ED- MCB-3

KEYWORDS:

TITLE:
Magdalena Mining District, Socorro Co., N. Mex
Little Loella Mine, Section L-1
File No. M-152E-1A

AUTHOR:
Entwistle, L. P.

COMMENTS:
Small mine map of the Little Loella Mine showing the geology, mineralogy, faults with slip direction, dikes and the silver pipe. Has legend showing symbols used for the rock types. Strike of section N64°E looking N.W. Thru 11416N, 15600E.

M1:	M2:	ID#:
MAP	GEOL	G4323 .S7:2M3 .C5 LITTLEL, 1941. B.8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	(	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944 est

PUBLISHER: unpublished - NMBMMR

ACTLOC: EO - MCB-3.

KEYWORDS:

TITLE:
Magdalena Mining District, Socorro Co. N. Mex.
Little Loella Mine, Section L-2
File No: M-152E-2A.

AUTHOR:
Entwistle, L. P.

COMMENTS:
Small ozalid map of the Little Loella Mine showing the geology and mineralogy, faults. No legend, but symbols the same as on map File No. M-152E-1A. Strike of section N64°E looking N.W. thru 11583 N, 15600 E.

M1:	M2:	ID#:
MAP	MINE	G 4323 .S1: 2M3 . 112 CIMARRON . 1944u . A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: Unpublished - American Smelting and Refining Co. Collection

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE:
Cimarron Mine, Magdalena Mining District, New Mexico, Section W-23.00
File No. 152E-3D

AUTHOR:
Entwistle, L. P.

COMMENTS:
Mine map showing underground workings, geology, mineralogy, stopes and shafts of the Cimarron Mine. Strike of Section W-23.00 is N79°E through 14752 N, 12000E, looking northerly.

M1:	M2:	ID#: G 4323, .S7 I ZM3, .M2
MAP	MINE	MITCHEL-CIMARRON, 1944?, AA:

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: Unpublished - American Smelting + Refining Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Mitchell and Cimarron Mine, Magdalena Mining District, New Mexico, Geologic Plan.
File No. M-15DE-1

AUTHOR:
Entwistle, L.P.; Desvaux, J.V.

COMMENTS:
Mine map showing the claim line boundaries, mine shafts, underground workings, geology and mineralogy of the Mitchell and Cimarron Mine. Also has two cross-sections location lines - Section W 20.0, Section W 23.0

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.H2 SAMPSON 1945.14

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: Unpublished - American Smelting + Refining Co. Collection

ACTLOC: EO-MCB-2.

KEYWORDS:

TITLE: Sampson Mine, Magdalena Mining District, N. Mex. Section W-20.00. File No. M-152E-4D.

AUTHOR: Entwistle, L.P.

COMMENTS: Mine map showing rock types, mineralogy, the silver pipe and faults in the Sampson Mine.

M1:	M2:	ID#: G4323 .S7:2M3 .H2 MITCHELL .1945u .A4
MAP	MINE	

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: unpublished - American Smelting + Refining Co. Collection

ACTLOC: ED - MCB-3

KEYWORDS:

TITLE:
Mitchell Mine, Magdalena Mining District, New Mexico,
Section W-20.00
File No. M-152E-2D

AUTHOR:
Entwistle, L.P.; Desvaux, J.V.

COMMENTS:
Mine map showing underground workings, geology, mineralogy, Mitchell Fault and Sampson Fault of Cross-section Line W. 20.00 of the Mitchell Mine, Strike of section N.79°E through 15057 N, 12000E, looking northerly

M1:	M2:	ID#:
MAP	MINE	G4323.S7 : 2M3 EL TIGREM 1942

MAPTYPE:

	MANUSCRIPT		TRACING	1 NEG. PHOTOCOPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 10.5" = 1500' 1" = 142.86' 1: 1714.3

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: JUNE 18, 1942

PUBLISHER: UNPUBLISHED

ACTLOC: EO EL TIGRE FILE

KEYWORDS:
LONGITUDINAL SECT. EL TIGRE
CROSS SECT BLACK WOLF

TITLE: SKETCH EL TIGRE MINE

AUTHOR: GRANT BF

COMMENTS:

M1:	M2:	ID#:
MAP	MINE	G4323.S7;2M3.H1 WALDO 1960.69

MAPTYPE:

	MANUSCRIPT		TRACING	1 Paper Original
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Waldo Mine

AUTHOR: Griswold, G.B.

COMMENTS:
Mine map showing the level plans for levels 1100 through 1500 of the Waldo Mine, showing shafts and faults. Also shown is the diamond drill hole data for 4 drill holes.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 WALDO 1960.68

MAPTYPE:

	MANUSCRIPT		TRACING	1 Paper original
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:240

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Waldo Mine

AUTHOR: Griswold, G.B.

COMMENTS:
Map showing the plan of the Waldo Mine (drifts, shafts, hoists), the diamond drill hole locations and data, the geology and mineralogy. Lower right hand map shows the drift, cross-cut, stope and raise, along with the geology; symbols on map for different rock types. Map has legend.

[illegible]

M1:	M2:	ID#:
MAP	MINE	G4323 S7:2M3 MORNING G 1942

MAPTYPE:

	MANUSCRIPT		TRACING	1 PHOTOCOPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1: —

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: 1942 / JUNE

PUBLISHER: UNPUBLISHED

ACTLOC: EO MORNINGGLORY

KEYWORDS: SHAFT
ADIT.

TITLE: MORNING GLORY & NORTH STAR MINES

AUTHOR: GRANT, B.F.

COMMENTS:

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3.H1 1918.S9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat, Xerographic Reproduction

COUNTY: Socorro

SCALE: 1:7920

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1918

PUBLISHER: unpublished - Surveyor General Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Plat showing Segration Survey No. 37 in Section 24, Township No. 2 South, Range No. 4 West of the New Mexico Principal Meridian, New Mexico

AUTHOR: Harrington, G. P.

COMMENTS: Segregation survey of section 24, T2S, R4W showing survey boundaries and Vindicator locks.

M1:	M2:	ID#:
MAP	MINE	G 4323 S7 : 2M3 YOUNGAME ?

MAPTYPE:

	MANUSCRIPT		TRACING	1 PHOTO COPY
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1" = 200'
1:

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: ?

PUBLISHER: UNPUBLISHED

ACTLOC: EO Lynchburg FILE

KEYWORDS: CLAIMS ELEVATIONS
WORKINGS GEOLOGY

TITLE: GEOLOGIC MAP OF THE YOUNG AMERICA GROUP

AUTHOR: ~~E~~ C.L. HERRICK

COMMENTS:
CLAIMS: ENTERPRISE, YOUNG AMERICA.
WORKINGS: #3, COMPRIMISE TUNNEL, #4, RUSSELLTUNNEL
WAGON ROAD, CABIN, TRAM, Geology

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1 1909.J6

MAPTYPE:

	MANUSCRIPT		TRACING	1 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: Top: 1:6000, Bottom: 1:2400

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: Unpublished Fayette A. Jones Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Copper Ridge Group of Mining Claims, Magdalena, New Mexico

AUTHOR: Jones, F.A.

COMMENTS: Top map is a mine map showing claim line boundaries with claim names along with a quartz dike. The bottom map is an enlargement of two claims showing the relative position of the tunnels and shafts and the quartz dike in the claim boundaries. Magnetic variation is also given.

12

M1:	M2:	ID#:
MAP	MINE	G4323 .S7:2M3 .M1 1909 .J6

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Xerox

COUNTY: Socorro

SCALE: Top : 1:6000, Bottom : 1:2400

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: Unpublished Faye He A. Jones Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Copper Ridge Group of Mining Claims, Magdalena, New Mexico

AUTHOR: Jones, F. A.

COMMENTS: Top map is a mine map showing claim line boundaries with claim names along with a quartz dike. The bottom map is an enlargement of two claims showing the relative position of the tunnels and shafts and the quartz dike to the claim boundaries. Magnetic variation is also given.

M1:	M2:	ID#:
MAP	MINE	G4323 .S7:2M3 . H1 . 1909 . J6

MAPTYPE:

	MANUSCRIPT		TRACING	2 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: Map1: 1:6000, Map2: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: unpublished
Fayette A. Jones collection

ACTLOC: ED - MCR-3

KEYWORDS:

TITLE: Map of Oak Spring and Black Hawk Claims, Magdalena, New Mexico.

AUTHOR: Jones, F. A.

COMMENTS: Map 1: is a mine map showing claim line boundaries geology and mineralogy of section 30, T2S, R3W. Also shows a composite section of the geology of the area, rock types, faults and -faulting dikes.

Map 2: shows the relative position of tunnels and the underground workings to the Oak Spring and Black Hawk No. 2 Lodes, along with claim boundaries

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.111.1909 J6

MAPTYPE:

	MANUSCRIPT		TRACING	1 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:7200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: Unpublished
Fayette A. Jones Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Cripple Creek Group of Mining Claims, Magdalena, New Mexico

AUTHOR: Jones, F. A.

COMMENTS: Small mine map showing claim boundaries in Section 19 of T2S, R3W and Section 24 of T2S, R4W, along with the geology and mineralogy within the claim boundaries. Magnetic variation is also given.

M1:	M2:	ID#:
MAP	MINE	G4323.S7: ZM3: H1 1909.J6

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Xerox

COUNTY: Socorro

SCALE: 1:6000

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: unpublished, Fayette A. Jones Collection

ACTLOC: ED-MCO-3

KEYWORDS:

TITLE: Red Cross Group of Claims, Magdalena Mining District, Magdalena, New Mexico

AUTHOR: Jones, F. A.

COMMENTS: Small mine map showing claim boundaries within Sections 2 and 3 of T1S, R4W and in section 34 and 35 of T2S, R4W, along with the veins and shafts that occur within these claim boundaries. Magnetic variation is also given.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.111.1909.J6

MAPTYPE:

	MANUSCRIPT		TRACING	1 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:3600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1909

PUBLISHER: unpublished:
Fayette A. Jones Collection

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE: Boston Group of Claims, Magdalena Mining District, Magdalena, New Mexico

AUTHOR: Jones, F. A.

COMMENTS: Small mine map showing claim lines and boundaries for Boston No. 1 and Boston No. 2. Also shows a vein and shaft within the claim boundaries. Magnetic Variation is also given

M1:	M2:	ID#:
MAP	MISC.	G4323. S7:2M3. H1. 1934. S9 :

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat. Xerographic Reproduction

COUNTY: Socorro

SCALE: 1: 4752

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1934

PUBLISHER: unpublished - Surveyor General Collection

ACTLOC: EO - MCB-3.

KEYWORDS:

TITLE: Township No. 2 South, Range No. 4 West of the New Mexico Principal Meridian in New Mexico, Supplemental Plat of Section 25;

AUTHOR: Kimmell, E. H.

COMMENTS: General resurvey of the boundaries of Section 25 in T2S, R4W showing the claim line boundaries, claim names, survey boundaries, Mineral survey classified land as mineral bearing.

M1:	M2:	ID#:
MAP	MISC	G4323.S7 2M3.H1 1945 .A14

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:480

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: unpublished - A.S.+R. Co. Collection

ACTLOC: ED - MCB-3

KEYWORDS:

TITLE:
A.S.+R. Co. Magdalena Unit, Socorro Co., N. Mex
Plan of Dwellings and Well

AUTHOR:
Mathews, J.W., and Chamberlin, P.J.

COMMENTS:
Surface map showing the plan of the dwellings, fire hose station and No. 1 Well; also shown is location of barbed wire fences, wire fences, telephone poles, pipe lines and power poles and lines. Map has legend

M2

M1:	M2:	ID#:
MAP	~~[redacted]~~ MINE	G4323.S7:2M3.JUANITA 1904.

MAPTYPE:

	MANUSCRIPT		TRACING	1C	PHOTO COPY
	CANVAS BACK		TRANSPARENCY		
	MANILA		MYLAR/SEPIA		
	LINEN		NEGATIVE		
	HAND DRAWN		BLUELINE/BLUEPRINT		

COUNTY: SOCORRO

SCALE: 30' = 1" ORIGINAL MAP
1: COPY NOT TO SCALE

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: NOV. 1904

PUBLISHER: UNPUBLISHED

ACTLOC: EO - JUANITA FOLDER

KEYWORDS: MINE WORKINGS CROSS-SECTIONS

TITLE: MAP OF JUANITA EXTENSION NO. 1 SOUTH, KELLY, NEW MEXICO, SHOWING PLAN AND VERTICAL SECTION OF UNDERGROUND WORKINGS

AUTHOR: PAUL, W. A.

COMMENTS:

3 CROSS SECTIONS AND A PLAN VIEW SHOWING MINE WORKINGS

M1:	M2:	ID#:
MAP	GEOL.	G4323. S7. 2M3. C5 MISTLETOE. 1946. A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished - A.S.+R. Co Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
Mistletoe Mine, Magdalena Mining District, Socorro Co NM.
Cross Section A
File No. M153G-1D

AUTHOR:
Radabaugh, R. E.

COMMENTS:
Mine map of the Mistletoe Mine showing the geology, rock types (Pre Cambrian Greenstone, Kelly L.S., Sandia Fm, Madera L.S.), mineralogy, faults (Linchburg-Mistletoe, Madera, and others), the Mistletoe Tunnel. Strike of section S74°30'E thru 9854 N, 15000 E. For position of section see Areal Geology - Black Cloud File No. M66-9E.

M1:	M2:	ID#:
MAP	GEOL	G4323 . S7:2M3 . C5 UTICA 1946 . AH

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	/	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946 (revised)

PUBLISHER: Unpublished - American Smelting & Refining Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
Utica No. 1 Mine, Magdalena Min. District, Socorro Co. N.M.
Cross Section C.
File No. M-153G-2D.

AUTHOR:
Radabaugh, R.E.

COMMENTS:
Mine map of the Utica No. 1 Mine showing the geology, rock types (pre-Cambrian Greenstone, Kelly Limestone, Sandia Fm, Madera L.S., Latite porphyry), mineralogy, faults (Utica No. 1, Linchburg-Mistletoe, South Mistletoe), the Utica No. 1 Tunnel. No legend. For areal geology - see Black Cloud File No M6G-9E. A.M.I.R. Co
Strike of section S70°E thru 8830N, 15200E

M1:	M2:	ID#:
TOPO	MISC.	N3403.2-W10710.8/6.3x2.8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
Z	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:12000

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District, Magdalena Range

YEAR: 1948 (reprint)

PUBLISHER: USGS, NMBMMR

ACTLOC: ED - MCE-3

KEYWORDS:

TITLE: New Mexico (Socorro County) Magdalena District

AUTHOR: Reineck, R.H.

COMMENTS: Topographic map of the Magdalena Mining District showing the Magdalena Range, canyons, rivers and streams, the town of Kelly, railroads, mines, tunnels, shafts, smelters, ovens and gulches. The contour interval is 25 ft.

M1:	M2:	ID#:
MAP	GEOL.	G4323.S7:2M13.C5 GERMANY 1943:A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1: 600

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished - American Smelting and Refining Company Collection

ACTLOC: EJ-MCB-3

KEYWORDS:

TITLE: Germany Mine, Magdalena Mining District, Socorro, NM. Geologic Plan - No 1 Adit

AUTHOR: Samoyloff, V.

COMMENTS: Mine map showing the geologic plan, rock types, mineralogy, strikes and dips, and the silver pipe in the No. 1 Adit of the Germany Mine.

M1:	M2:	ID#:
MAP	GEOL	G4323.S72M3.C5 G[illegible] 1943.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:[illegible]

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished M.S. I.R. Co. Collection

ACTLOC: [illegible]

KEYWORDS:

TITLE:
A.S.I.R. Co.
Germany Group, Magdalena Mining Dist, Socorro Co. N. Mex.
Geologic Plan Alhambra Adit.

AUTHOR:
Samoyloff, V.

COMMENTS:
Mine map showing the rock types, mineralogy and the silver pipe in the Germany Mine. Also shown are caved in areas of the mines, shafts, tunnels, and stopes and dips in the tunnels.

M1:	M2:	ID#:
MAP	GEOL	G4323. S7: 2MB;CS GERMANY 1943i.1

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: unpublished
A.S.&R. Co Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Magdalena Mining District, Socorro, N. Mex. Geologic plan Germany No. 1 Adit.

AUTHOR: Samoyloff, V.

COMMENTS: Mine map showing the geology, rock types and mineralogy in the No. 1 Adit of the Germany mine. Also shown are strikes and dips, the silver pipe, raises, tunnels and faults. No legend; map done in colored ink.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3:111GERMANY/1945.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945 est

PUBLISHER: unpublished
A.S.+R. Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Germany No. 2 Adit.
Adit Level.

AUTHOR:
Samoyloff, V. N.

COMMENTS:
Mine map showing part of the No. 2 Adit of the Germany Mine

M1:	M2:	ID#:
MAP	mine	G432357 : 2m3 MAGDALEN 1905

MAPTYPE:

	MANUSCRIPT		TRACING	1 PHOTOCOPY
	CANVAS BACK		TRANSPARENCY	NRG
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1" = 1200'
1:

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE:
GEOGRAPHICAL PLACE NAME:

YEAR: JUNE 1905

PUBLISHER: UNPUBLISHED

ACTLOC: EO MAGDALENA DIST MISC.

KEYWORDS:
CLAIMS: TOWNSITE
ROADS:

TITLE: THE MAGDALENA MINING DISTRICT.

AUTHOR: B.A. STATZ

COMMENTS:
CLAIMS A/O 1905

84

M1:	M2:	ID#:
MAP	MINE	G 4323. S7:2M3. M1. 1912. B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1440

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1912

PUBLISHER: Unpublished - U.S.B.M

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: The Magdalena Mining District, Socorro County, New Mexico

File No. 13.101

AUTHOR: Statz, B.A.

COMMENTS:
Mine map showing all the claim line boundaries along with the claim names, the placers and names thereof, roads, railroads, smelters, mill sits, ranches, and the towns of Kelly and Magdalena.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.112 KELLY.1900.W8.

MAPTYPE:

	MANUSCRIPT		TRACING	1 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:480 ; inset map 1:120

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1900 est

PUBLISHER: unpublished - Helene V. Billing, Wurlitzer Foundation

ACTLOC: EO-MCB-3.

KEYWORDS:

TITLE: Plan Showing Kelly Tunnel No. 4 and Graphic Slope with Reference to Compromise Line

AUTHOR: unknown

COMMENTS: Mine map showing the Tunnel No. 4 of the Kelly Mine showing inclines, upraises, drift, cross cut tunnel to shaft, the Billing shaft, and the Graphic Slope. In the inset map is shown the Graphic Slope, station numbers and distance (in feet) from station # 38 to the stope and the compromise line

80

M1:	M2:	ID#:
MAP	MINE	54323, ST. 2M3. CS. KELLY. 1900. WB

MAPTYPE:

	MANUSCRIPT		TRACING	1 Xerox
	CANVAS BACK		TRANSPARENCY	
	MANILA		MYLAR/SEPIA	
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: Socorro

SCALE: 1:480

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1900 est

PUBLISHER: Unpublished - Helene V. Dilling Wurlitzer Foundation Collection

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE: Cross-Section through Kelly North End Line

AUTHOR: Unknown

COMMENTS:

Small map showing the cross section showing the No. 4 tunnel cross cut, contacts, faults, dykes (geology) of the Kelly North End Line.

87

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.C5.KELLY/.1901.W8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	1	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:480

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1901

PUBLISHER: unpublished – Helene V. Billingsley Found. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Cross Section through Kelly Mine.

AUTHOR: Unknown

COMMENTS:
Map showing cross-section A-B showing the ore body, contacts, dykes, faults (with throw) and tunnel No. 4 of the Kelly Mine. Also shown are cross cuts, inclines and the Graphic Slope.

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3,111 1907.S9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat xerographic reproduction MISC

COUNTY: SOCORRO

SCALE: 1: 31680

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1907

PUBLISHER: Unpublished Surveyor General Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Supplemental Plat of Sec 36, Township No. 2 South, Range No. 4 West of the New Mexico Principal Meridian

AUTHOR: Unknown

COMMENTS:

General mineral survey map showing claim line boundaries in section 36, T2S, R4W in the Magdalena Mining District

S9

M1:	M2:	ID#:
MAP	MINE	G4023, S7: 2M3: 111. JUANITA 1910, BB

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1: 360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1910 est.

PUBLISHER: Unpublished NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Juanita South Plan.

AUTHOR: Unknown.

COMMENTS:

General mine map showing the different levels of the Juanita South Mine, along with adits and shafts. No legend given.

M1:	M2:	ID#:
MAP	MINE	G4323, S7:2M3: H1 LITTLE L 1910. B3

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1: 360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1910 est

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED. - MCB - 3

KEYWORDS:

TITLE: Little Loella Mine, Magdalena District

AUTHOR: Unknown.

COMMENTS:
General mine map showing; turinels, portals, stopes and shafts of the Little Loella Mine. Spot elevations given, no legend on map.

M1:	M2:	ID#:
MAP	MISC	G4323.S7.2M3.1911.T9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat. Xerographic reproduction of survey

COUNTY: SOCORRO

SCALE: 1: 15840

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1914

PUBLISHER: unpublished - Surveyor General Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Amended Plat of Sections 19 and 20, Township No. 2 South Range No. 4 West of the New Mexico Principal Meridian in New Mexico

AUTHOR: Unknown

COMMENTS: General mineral survey showing survey monuments and stating that the land was restored to public domain

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M3.1921.S9

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:7920

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1921

PUBLISHER: unpublished - Surveyor General Collection

ACTLOC: LO-MCR-3

KEYWORDS:

TITLE: Supplemental Plat showing Section 24 in Township 2 South, Range 4 West of the New Mexico Principal Meridian in New Mexico

AUTHOR: Unknown

COMMENTS:
General, mineral survey showing survey boundaries and Vindicator lodes. No mining claims made on this land as of July 12, 1919.

M1:	M2:	ID#:
MAP	MISC	G4323.S7.2M3,111,1922.S9.

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Township Plat
Photographic
Reproduction
Mineral Survey

COUNTY: Socorro

SCALE: 1: 1920

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1922

PUBLISHER: unpublished - Surveyor General Collection

ACTLOC: EO - MCB - 3

KEYWORDS:

TITLE: Supplemental Plat Showing Section 21, T2S, R4W of the New Mexico Principal Meridian in New Mexico

AUTHOR: Unknown

COMMENTS:
General mineral survey in section 21, T2S, R4W showing survey boundaries, names and numbers of 2 surveys (Vanadium Friend No. 1, Survey 1508; Pueblo Spring Survey 208).

M1:	M2:	ID#:
MAP	MISC	G4323. S7:2M3. M1 1945s A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:4800

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945 c.

PUBLISHER: Unpublished
A.S.+R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
American Smelting + Refining Company. Magdalena Unit. Magdalena N. Mex.
Conflict of North Property Line Near Spray Pond

AUTHOR:
Unknown

COMMENTS:
Surface map showing the conflict of property near the north line. Map shows that the Cook property overlaps the land line near the spray pond. Map also shows an aerial tram and roads + railroads.

M1:	M2:	ID#:
MAP	MINE	64323, S7; 2M3:112 WALDO MINE, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945 est

PUBLISHER: Unpublished
A.S.+R. Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Waldo Mine - Workings in Madera Limestone

AUTHOR: unknown.

COMMENTS:
Mine map showing the underground workings in the Madera limestone and the approximate maximum boundary of the ore zone. Also shown are the Waldo shaft, levels 9, 13, and 14, the old lead carbonate stope, and the zinc-lead assay ratio

M1:	M2:	ID#:
MAP #342	GEOL	G4323.S7 2M3.C6 1945.A14

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:2400

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena

YEAR: 1945 est.

PUBLISHER: Unpublished
A.S. + K. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Cross-Sections Kelly-Graphic Fault

AUTHOR: Unknown

COMMENTS: Three separate maps - first shows the claim line boundaries; the Kelly-Graphic Fault, Walker fault, and Madera fault in plan view - also has contour lines (CI: 20 ft). Second and third maps show the intersection of the Kelly-Graphic cross fault and section, also the Madera Fault, and the Kelly Limestone in cross-section; also shown are levels 6 and 14.

M1:	M2:	ID#:
MAP	GEOL.	G4323, S7;2M3 C5 WALDO 1946u14

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished - A. S. + R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Waldo Mine, Magdalena Mining Dist. N. Mex. Low Grade Kelsey Ore Body.

AUTHOR: unknown.

COMMENTS: Map of the Low grade Kelsey ore body in relation to Levels 12 and 13 of the Waldo, the Enterprise Fault, Incline No. 2 and the shafts. Also shown are cross section lines W-6.75, W-7.00, W-7.50, W-7.80. The cross sections show the geology, the silver pipe, and the Enterprise fault in relation to the tunnels + shafts. Also on the map are the results of Core Assays on Diamond drill holes.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2113.112 WALDO 1945.M4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District.

YEAR: 1945

PUBLISHER: Unpublished - A.S. + P.Co Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Waldo Mine, Mag. Min. Distr., Socorro Co., N. Mex, Longitudinal Vertical Projection Mine Workings File No. M-101G-2D

AUTHOR: unknown

COMMENTS: Mine map, showing the underground workings of the Waldo mine on levels 6 through 16. Shows adits, winzes, shafts, inclines, raises, the Kelly Ore Bodies (Western, Middle, Outside + Eastern) and the Madera Ore body. Map has legend. Direction of projection N 11° W, looking easterly.

M1:	M2:	ID#:
MAP	MINE	G4323. S7 C43, HZWALDO 1945. M4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: Unpublished - A. S. + R. Co. Collection

ACTLOC: ED-MCG-3

KEYWORDS:

TITLE:
Waldo Mine, Magdalena Mining District, Socorro County, New Mexico
Longitudinal Vertical Projection
Mine Workings
File No. M-101G-1D.

AUTHOR:
Unknown

COMMENTS:
Mine map showing underground workings on levels 6 through 1450. Shows adits, shafts, winzes, inclines, approximate boundaries to the Eastern + outside Ore Shoot, the Middle Ore Shoot and the Western Ore Shoot, and the ore bodies. No legend. Direction of projection N 11° E, looking easterly.

100

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3 .111 WALDO 1945 A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: Unpublished - A.S. & R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE:
A.S. & R. Co.
Waldo Mine - Magdalena Mining District, Socorro Co. New Mex
Plan Mine Workings
File No M-100 G-TE

AUTHOR:
Unknown.

COMMENTS:
General mine map showing the plan workings, inclines the levels of the Waldo, adits, caved in workings, shafts, spot elevations. Also shown are claim line boundaries with claim names. Legend given.

M1: MAP

M2: MINE

ID#: G4323.S7:2M3.M1 WALDO 1945.A4.

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945

PUBLISHER: Unpublished - Am. Smelting + Refining Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: A.S + R. Co
Waldo Mine, Magdalena Mining District. Socorro Co NMex
Plan Mine Workings
File No. M-100G-2E

AUTHOR:
Unknown.

COMMENTS:
Mine map showing claim line boundaries and claim names, adits, shafts, spot elevations, levels of the Waldo Mine. Has legend showing symbols for property boundary, claim lines, claim corners located, claim corners unlocated; also shows level with corresponding average rail elevation. Progress thru 1945

102

M1:	M2:	ID#:
MAP	MINE	G4323.S7.2M3.H1 1945, #4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:3692

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1945 est.

PUBLISHER: Unpublished A.S.+R.Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Cross section and longitudinal section of mine in Magdalena Mining District.

AUTHOR: unknown

COMMENTS:
Top map is a mine map showing the 9th and 10th levels, North 2nd level, stopes and raises in the cross-section view looking North.
Bottom map shows the same levels, stopes, and raises, but in longitudinal section looking West.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3. M1, WALDO 1946, NM

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished
A.S.+R.Co. Collection

ACTLOC: CO-MCB-3

KEYWORDS:

TITLE:
Waldo Mine
Plan Mine Workings
File No. M-100-3E

AUTHOR:
Unknown

COMMENTS:
Mine map showing the underground workings of levels 3 through 14; shafts, adits, cross-cuts, winzes, inclines, drifts, spot elevations shown. Claim line boundaries and claim names are also given. Map has legend and shows the level with the corresponding average rail elevation.

M1:	M2:	ID#:
MAP	MINE	G4323.S7: 2113.H2. WALDO 1946, A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946

PUBLISHER: Unpublished. A.S.+R. Co. Collection

ACTLOC: CO-MCB-3

KEYWORDS:

TITLE:
Waldo Mine
Longitudinal Vertical Projection Mine Workings.
File No. M-101-3D.

AUTHOR:
Unknown

COMMENTS:
Mine map showing underground workings on levels 3 through 16; adits, shafts, winzes, raises and inclines are shown, along with the Kelly Ore Bodies and the Madera Ore Body. Direction of projection N 11°W looking easterly. Map has legend.

M1:	M2:	ID#:
MAP	MISC	G4323.S7:2M13,H1 1946 .M4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
2	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1946 est.

PUBLISHER: Unpublished
A.S. + R. Co. Collection

ACTLOC: ED-MCR-3

KEYWORDS:

TITLE: Calculation of Tonnage of Raskob Tailings

AUTHOR: Unknown

COMMENTS: Diagram showing the tonnage of Raskob tailings in Sections A through O (Volume in cubic feet) Also indicates the total volume.

M1: MAP

M2: MINE

ID#: G4323.S7:2M3.112.WALDO 1947.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished. A.S.+R. Co. Collection

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Waldo Mine, Magdalena Mining District, Socorro Co, N. Mex. Longitudinal Vertical Projection, Mine Workings.
File No. M-101-4D

AUTHOR: unknown.

COMMENTS: Mine map showing the underground workings on levels 3 through 16 in the Waldo. Adits, shafts, winzes, and inclines are shown. Also shown are the different Kelly ore bodies (the Western Ore Body, Middle Ore Body, and Outside + Eastern Ore Body) and the Madera Ore Body. (These are shown by symbols.) Legend is given.

M1:	M2:	ID#:
MAP	GEOL	64323.S7:2M13.C5 GRAND LE 1947:A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 600

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947 est.

PUBLISHER: Unpublished. A.S.I.R. Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Grand Ledge Area, Section C.
File No. M-153E-30

AUTHOR:
Unknown

COMMENTS:
Map showing the strike of the vein, strike N85°E. thru 3950 N, 1570 E7 looking Northerly

M1:	M2:	ID#:
MAP	GEDL	G4323.S7:2M3.C5 GRAND LE 1947.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947 est

PUBLISHER: Unpublished - American Smelting & Refining Co. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Grand Ledge Area, Section D
File No. M-153E-4D.

AUTHOR:
Unknown.

COMMENTS:
Mine map showing the geology, mineralogy, rock types, faults and GL4 shaft of the Grand Ledge Area, Strike of section N85°E thru 3750 N, 15100 E looking Northerly.

M1:	M2:	ID#:
MAP	GEDL	G4323.S7:2M3.C5 GRAND LE 1947.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947 est.

PUBLISHER: Unpublished - American Smelting & Refining Co. Collection

ACTLOC: EO-MCB-3.

KEYWORDS:

TITLE:
Grand Ledge Area, Section A.
File No. M-153E-1D

AUTHOR:
Unknown.

COMMENTS:
Map showing the geology, rock types (Pre Cambrian, Kelly Limestone, Sandia Fm. and Madera LS) and the Grand Ledge Fault of Section A in Grand Ledge Area. Strike of section S73°E thru 4407 N., 1500 E, looking Northerly.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1, WALDO, 1947u. AH

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
|	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1947

PUBLISHER: Unpublished - American Smelting & Refining Co. Collection

ACTLOC: EO - MRC - 3

KEYWORDS:

TITLE:
Waldo Mine, Magdalena Mining District, Socorro, New Mexico, Plan Mine Workings
File No. M-100-4E

AUTHOR:
UNKNOWN

COMMENTS:
Mine map showing claim line boundaries, adits, shafts, drift, spot elevation and levels of the Waldo Mine. Also has legend showing property boundaries, claim lines, claim corners located and claim corners unlocated; also levels with the corresponding average rail elevation. Progress through 1947.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3, HI WALDO 1950.M4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1: 2400

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1/50 est

PUBLISHER: Unpublished
A.S.+R. Co Collection

ACTLOC: C-MCP-3

KEYWORDS:

TITLE: Plan of Workings of a portion of the Waldo Mine. Magdalena Min Dist., Socorro Co., N. Mex

AUTHOR: unknown

COMMENTS: General mine map showing the plan of the workings in the Waldo Mine on the 700, 800, 900 and 1000 level; inclines and portals are shown. Also shown are claim boundaries and claim names.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2N3.H1 WALDO 1952.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
1	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:2400

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1952 est

PUBLISHER: Unpublished.
A.S.+R.Co. Collection

ACTLOC: ED-MCD-3

KEYWORDS:

TITLE:
Plan of 900 Level
Waldo Mine
Magdalena Min Dist, Socorro Co., N MEX ...

AUTHOR:
Unknown.

COMMENTS:
General mine map showing the plan of the 900 level along with the current working places as of March 12, 1952. Also shown is part of the NITT 3rd level; also claim line boundaries and claim names.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1 LINCHBURG 1959.119

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Xerographic Reproduction

COUNTY: Socorro

SCALE: 1: 30'

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1959

PUBLISHER: Unpublished - Hydro Nuclear Corp. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Linchburg Mine
Mine Composite, Sheet 4

AUTHOR:
unknown

COMMENTS:
Mine map showing the underground mine plan, inclines, ore passes, caved-in areas and spot elevations. No legend. From 7300E - 7900E, 5500N - 6600N.

114

M1:	M2:	ID#:
TOPO	15	N3400 - W10700 /15

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN	3	BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:62500

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena

YEAR: 1959

PUBLISHER: USGS - AMS 4552 II - Series V781

ACTLOC: ED - MC6 - 3

KEYWORDS:

TITLE: Magdalena Quadrangle, New Mexico - Socorro Co. 15 minute Series (Topographic)

AUTHOR: U.S.G.S.

COMMENTS:
Topographic map of the Magdalena Quadrangle showing the Magdalena Mountains, ranches in the area, road classification, rivers, forest boundaries, and the town of Magdalena, has legend, scale, declination. Contour interval is 40 feet.

M1:	M2:	ID#:
MAP	MINE	G423.23, S7:2M13, H1 IDA HILL 1960.88

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (series of 12)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished - NMBMMR

ACTLOC: EO-MCO-3

KEYWORDS:

TITLE: Ida Hill, Eleventh Level

AUTHOR: unknown

COMMENTS:
Mine map showing the plan of the eleventh level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3, H1 ID^ HILL 1960. EB

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (Series of 4 a)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Ida Hill, Tenth Level

AUTHOR: Unknown

COMMENTS:
Mine map showing the plan of the tenth level of the Ida Hill Mine.

M1: MAP

M2: MINE

ID#: G4323.S7:2M3, H1 IDA HILL 1960, 88

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (Series of '10)

COUNTY: Socorro

SCALE: 1: 1200

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished - NMBMMR

ACTLOC: EO - MCK-3

KEYWORDS:

TITLE: Ida Hill, Ninth Level

AUTHOR: Unknown

COMMENTS: Mine map showing the plan of the ninth level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4823.S7:2M3.H1 IDA HILL 1960,08

MAPTYPE:

	MANUSCRIPT		TRACING	
	CANVAS BACK		TRANSPARENCY	1 Albanene
	MANILA		MYLAR/SEPIA	(Series of 10)
	LINEN		NEGATIVE	
	HAND DRAWN		BLUELINE/BLUEPRINT	

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: unpublished - NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Ida Hill, Eighth Level

AUTHOR: Unknown

COMMENTS: Mine map showing the plan of the eighth level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7: 2M3. H1 IDA HILL, 1960. B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

Albanene (Socorro)

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: unpublished - NMBMMR

ACTLOC: EO.-MCB 3

KEYWORDS:

TITLE: Ida Hill, Seventh Level

AUTHOR: unknown

COMMENTS: Mine map showing the plan of the seventh level of the Ida Hill Mine.

1200

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.M1 IDA HILL 1960.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (Series of 10)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Ida Hill, Sixth Level

AUTHOR: Unknown

COMMENTS:

Mine map showing the plan of the sixth level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.M1 IDA HILL.1960.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

| Albanene (Series of 10)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished - NM BMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Ida Hill, Fifth Level.

AUTHOR: unknown

COMMENTS: Mine map showing the plan of the fifth level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1 IDA HILL 1960.68

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (Series of 10).

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District.

YEAR: 1960 est.

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Ida Hill Mine Plan, Third Level.

AUTHOR: unknown

COMMENTS: Mine map showing the mine plan of the third level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3, H1 IDA HILL 1960, B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanene (Series of 10)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished - NMBMMR

ACTLOC: ED-MCK-3

KEYWORDS:

TITLE: Ida Hill, Mine Plan

AUTHOR: unknown

COMMENTS: Mine map showing the general mine plan of the first level of the Ida Hill Mine.

M1:	M2:	ID#:
MAP	MINE	G4323.S7:2M3.H1 NITT 1960.68

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Albanerc (Series of 10)

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: unpublished - NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Nitt Mine Plan.

AUTHOR: unknown

COMMENTS:
Mine map showing the mine plan of the Nitt 2nd and 3rd levels.

M1:	M2:	ID#:
MAP	CLAIM	G,4323.S7:2M3.M1.1960..68

MAPTYPE:

	MANUSCRIPT	1	TRACING PAPER
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:12000

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est.

PUBLISHER: Unpublished NMBMMR.

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Ts 2+3 S, Rs 3+4W, Magdalena Mining District. Map #42-A, B.

AUTHOR: Unknown.

COMMENTS: Compilation map showing all patented mining claims with boundaries and claim numbers in the Magdalena District (T2S, R3W, S 7, 18, 19, 30, 31, 32, T 2S. R4W, Sec 24, 25, 36, T3S. R3W, Sect 6, 7, T2S, R4W, Sec 1 and 12). Also shows mill sites

M1:	M2:	ID#:
TOPO	GEOL	G4323.S7 2M3.C5 19[illegible], 89

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN	/	NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 3600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished - NMBMMR

ACTLOC: EO - MCB - 3

KEYWORDS:

TITLE: Topographic map of the Waldo - Graphic Area.

AUTHOR: unknown

COMMENTS: Topo map of the Waldo Graphic Area showing the Graphic, Martin, Greyhound, Mitchell, Ida Hill, and Waldo Tunnel; the Nitt and Waldo Shaft. Also shown is the North Camp and other shafts. Contour interval is 25 feet.

27

M1:	M2:	ID#:
TOPO	GEOL	G4323.S7:2M3.C5 1960.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Photo enlargement from negative

COUNTY: Socorro

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: unpublished - NMBMMR

ACTLOC: LO-MCR-3

KEYWORDS:

TITLE: Topographic map of the Waldo-Graphic Area.

AUTHOR: Unknown

COMMENTS:
Topo map of the Waldo-Graphic Area showing the Graphic, Martin, Greyhound, Mitchell, Ida Hill and Waldo Tunnel; the Witt and Waldo shaft. Also shown is the North Camp and other shafts. Contour interval is 25 feet. This is a photo enlargement of a negative

M1:	M2:	ID#:
MAP	CLAIM	G4323.S7:2M3.M1960 no.3

MAPTYPE:

	MANUSCRIPT	1	TRACING PAPER
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:4800

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Magdalena Min. District, T3S, R3+4W. Map #42-D

AUTHOR: Unknown

COMMENTS: Map of patented claims showing claim boundaries and numbers in sections 13 and 24 of T3S, R4W and in sections 18 and 19 of T3S, R3W.

M1:	M2:	ID#:
MAP	CLAIM	G4323.S7:P13.111 1960.83

MAPTYPE:

	MANUSCRIPT	1	TRACING PAPER
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 9600

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 ca

PUBLISHER: Unpublished NMBMMR

ACTLOC: ED. MCB-3

KEYWORDS:

TITLE: Magdalena Mining District, Ts 2 + 3S, R4W Map #42-E

AUTHOR: unknown

COMMENTS: Map of patented claims showing claim boundaries and numbers in Sections 16, 21, 19, 20 and [illegible] of 33 in T2S, R4W and in Section 4 of T3S, R4W.

130

M1:	M2:	ID#:
MAP	CLAIM	G4323.S7:2M3.H1.1960.B8

MAPTYPE:

	MANUSCRIPT	/	TRACING PAPER
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:12000

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1960 est

PUBLISHER: Unpublished NMBMMR

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: T 2S, R4W, Magdalena Mining District. Map #42-C.

AUTHOR: unknown

COMMENTS: Map of known patented claims showing boundaries and numbers in Sections 3, 10, 16, 18, 19, 20 and 21 of T2S, R4W.

M1:	M2:	ID#:
MAP	GEDL	G4323.S7:2M3.C5 JUAN1M 1943.BB

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: unpublished
NMBMMR

ACTLOC: EO - MCB - 3

KEYWORDS:

TITLE:
Juanita Extension Mine, Magdalena Mining District, N. Mex
Geologic Plan - 2nd Level.
File No. M-15DE-5C.

AUTHOR:
Walker, Jr., G.P.

COMMENTS:
Mine map showing the geology, rock types, mineralogy, faults (Kelly-Graphic fault in Ludlow), strikes and dips, spot elevations, tunnel on 2nd level, stopes, and dikes. No legend.

132

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 JUANITA 1943 .B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	2	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished - NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, N. Mex. Geologic Plan - 1st. Level. File No M-150E-4C

AUTHOR: Walker, Jr., G.P.

COMMENTS: Mine map showing the geology, rock types, mineralogy, Kelly-Graphic Fault and other faults, the silver pipe, strikes and dips, stopes, shafts, tunnel (1st level). Spot elevations, cross-section lines J-1, J-2 and J-3. No legend.

35

M1:	M2:	ID#:
MAP	GEOL	G4323.S7: 2M3.C5 JUANITA 1943, B3

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished - NMBMMR

ACTLOC: EO - MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Min. District, NMex. Geologic Plan - 3rd Level. File No. M-150E-2A

AUTHOR: Walker, Jr., G.P.

COMMENTS: Small mine map showing the geology, rock types, mineralogy, strikes and dips, and shafts on Level 3 of the Juanita Mine. No legend.

(34)

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3.C5 JUANITA 1943.68

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	/	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: unpublished- NMBMMR

ACTLOC: EO-MCB-3

KEYWORDS:

TITLE: Juanita Extension Mine, Magdalena Mining District, N. Mex. Geologic Plan- Adit Level.
File No. M-150E-3C

AUTHOR: Walker, Jr., G.P.

COMMENTS: Mine map showing the geology, rock types, mineralogy, Kelly-Graphic fault and other faults, the silver pipe, strikes and dips, stopes, and shafts. Also shown are cross-section lines J-1, J-2 and J-3. Spot elevations in some areas. No legend.

135

M1:	M2:	ID#:
MAP	GEOL	G4323 .S1:2M3 .C1. LITTLE L 1943,BB

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	/	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943

PUBLISHER: Unpublished NMBMMR

ACTLOC: ED-MCC-2

KEYWORDS:

TITLE: Little Loella Mine, Magdalena Mining District NM Geologic Plan - 1st Level and Lower Adit File No. M-15DE-1C

AUTHOR: Walker, Jr., G. P.; Entwistle, L. P.

COMMENTS: Mine map of the Little Loella Mine showing the geology, mineralogy, underground workings (stopes, shafts, portals), strikes and dips of the rock types. Map has legend showing symbols used for rock types. Also shown are cross section lines L-1 and L-2.

M1:	M2:	ID#:
MAP	GEOL	G4323.S7:2M3:C5 LITTLE L 1943.B8

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1:360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1943est

PUBLISHER: Unpublished. NMBMMR

ACTLOC: ED-MB-3

KEYWORDS:

TITLE: Little Loella Mine, Magdalena Mining District N.M. Geologic Plan - 2nd Level File No: M-150E-2C

AUTHOR: Walker, Jr, G.P., Entwistle, L.P. (?).

COMMENTS: Mine map showing stope and portal in the Little Loella Mine.

15

M1:	M2:	ID#:
MAP	GEOL	G 4323 .S7:2M3 . C5 LINCHBU 1960.M9

MAPTYPE:

	MANUSCRIPT	1	TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:1200

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Distric

YEAR: 1960

PUBLISHER: unpublished- Hydro Nuclear Corp. Collection

ACTLOC: EO-NICB-3

KEYWORDS:

TITLE: The Linchburg Mine, Geologic Map Showing Proposed Drill Holes.

File No. KB-412

AUTHOR: W.E.G.

COMMENTS:
Small geologic map of the Linchburg Mine showing the proposed drill holes into the ore bodies. Map not very clear- hard to read and interpret.

M1:	M2:	ID#:
MAP	MINE	G 1323.S7:2M3.111 LINCHBUR 1975.119

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA		MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

1 Xerographic Reproduction

COUNTY: Socorro

SCALE: 1:356

LOCATION:
PHYSIOGRAPHIC PROVINCE CODE: 11
GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1975

PUBLISHER: Unpublished
Hydro Nuclear Corp. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE:
Linchburg Mine
Mine Composite, Sheet 2

AUTHOR:
WEG, RAH, RC.

COMMENTS:
Mine Map showing the underground mine plan; shown are tunnels, ore passes, inclines, and caved-in areas. No legend. From 7200E - 7800E, 6600N - 7700N.

M1:	M2:	ID#:
MAP	CLAIM	G4323. S7: 2M3. M1 1944, AM.

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944

PUBLISHER: Unpublished - A.S.+R. Co Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: A.S.+R.Co Magdalena Unit, Socorro Co. New Mexico Surface Map of Property Line Between A.S.+R.Co. and Tri-Bullion Corp. File No. M-5-1C.

AUTHOR: White, J.A., Entwistle, L.P., and Desvaux, J.V.

COMMENTS: Map showing claim line boundaries and names, also shows conflicting claim lines. Map has legend (remarks) and description of corners.

M1: MAP

M2: MINE

ID#: G4323.S7:2M3.H1 1941.A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	1	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: Socorro

SCALE: 1: 360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE: 11

GEOGRAPHICAL PLACE NAME: Magdalena Mining District

YEAR: 1944 est.

PUBLISHER: Unpublished - A. S. + R. Co. Collection

ACTLOC: ED - MCB-3

KEYWORDS:

TITLE: Magdalena Unit, Socorro Co. Mine Workings on and Adjacent to Property Line Between A. S. + R. Co. and Tri-Bullion Corp. File No M-100-20.

AUTHOR: White, J. A., and Desvaux, J. V.

COMMENTS: Mine map showing claim line boundaries and claim names, different levels of the mine, caved-in areas, stopes, shafts, raises, and station numbers. No legend given.

M1:	M2:	ID#:
MAP	CLAIM	G4323.S7:2M3. H1 1944. A4

MAPTYPE:

	MANUSCRIPT		TRACING
	CANVAS BACK		TRANSPARENCY
	MANILA	\	MYLAR/SEPIA
	LINEN		NEGATIVE
	HAND DRAWN		BLUELINE/BLUEPRINT

COUNTY: SOCORRO

SCALE: 1:360

LOCATION:

PHYSIOGRAPHIC PROVINCE CODE:

GEOGRAPHICAL PLACE NAME:

YEAR: 1944

PUBLISHER: Unpublished- A.S.+R.Co. and Tri-Bullion Corp. Collection

ACTLOC: ED-MCB-3

KEYWORDS:

TITLE: Mine Workings on and Adjacent to Property Line Between A.S.+R. Co. and Tri-Bullion Corp.
File No: M-100-1C

AUTHOR: White, J.A., and Desvaux, J.V.

COMMENTS: Mine map showing claim line boundaries and names, drifts and cross cuts, levels of the mine, stopes, shafts, raises, caved in areas, and cross sections - (A-A', B-B', C-C', G-G', H-H', J-J' looking North; D-D', E-E', F-F' looking westward). Map has explanation of symbols used.

Abandoned Mine Survey (AMS)
Weekly Report 1
January 24-31, 1986

This week's activities included an organizational meeting, defining the area in the Magdalena Mining District to be studied, ordering topographic maps of the Magdalena Mining District, collecting, studying, and ordering aerial photographs, researching mining claims of the Magdalena District, and office work relating to the project.

On Friday, January 24, Frank Kottlowski, Orin Anderson, Jamie Robertson, Bob Osburn, Gary Johnpeer, Dave Love, and Mike Gobla attended an organizational meeting for the Abandoned Mine Land Surveys by the Bureau of Mines and Mineral Resources. Discussed were: how to staff the project, and the work elements that will be produced. On Tuesday, January 25, Gary distributed a memo summarizing the January 24 meeting (see attached).

This week, the extent of the Magdalena Mining District to be studied was outlined by Danny Bobrow, Bob Eveleth, Gary Johnpeer, and Bob Osburn. In the Magdalena District the work effort is located on the 1:12,000 geologic map (plate 2) of USGS professional paper 200 (Loughlin and Koschmann, 1942).

On Tuesday, January 28, a photographic negative of the 1:12,000 Magdalena Mining District map (Reineck, 1932) was sent to Reliable Reproductions in Albuquerque. Reliable Reproductions will photograph and enlarge the map scale to approximately 1:6,000.

Gary Johnpeer and Danny Bobrow collected the aerial photographs of the Magdalena, NM area archived at the NMBM&MR. Gary briefly examined the aerial photographs of the Magdalena area. In addition, 1:38,000 color aerial photographs and 1:58,000 infra-red aerial photographs of the Magdalena area were ordered.

Danny began researching the patented mining claims of the Magdalena District. The owners of the patented mining claims will be sent a letter requesting access to their land.

AMS Bureau of Mines personnel conducted office work relating to the project including; preliminary work on the bibliography, orgarizational meetings, and a literature search.

Bureau personnel engaged in the project this week were: Danny Bobrow, Gary Johnpeer, Mike Gobla, Bob Eveleth, and Jamie Robertson.

Danny J. Bobrow
Geologist
February 2, 1986

xc: Jamie Robertson

1/4/1

11.0 WEEKLY REPORTS

The weekly reports that follow are a chronological account of the AMS project. The reports summarize the field and office activities carried out by the New Mexico Bureau of Mines and Mineral Resources from January 24-June 19, 1986.

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

nation: 505/835-5420
ations: 505/835-5410

MEMORANDUM

TO: Frank Kottlowski, Jamie Robertson

FROM: Gary Johnpeer

DATE: January 28, 1986

SUBJECT: Abandoned Mine Survey (AMS)

The following is my concept of the AMS project we discussed last Friday. It is based on those discussions and scope Item D in contract number 1-74-48.

The work will be mainly done by Danny Bobrow with key support by Dave Love, Bob Osburn and me. The help of a student may be required. I will be ultimately responsible for the work products of this project (see below). Mike Gobla and Bob Eveleth will compile a comprehensive bibliography of publications, MIM reports, etc., for each mining district. (Jamie says we should start with Magdalena district. We will concentrate on work in the Magdalena District, New Mexico 1:12,000 topographic map by R. H. Reineck, 1932.) The area is discussed in detail in USGS Professional Paper 200. The bibliography should be presented in standard "Bureau format." Key articles should be identified and given to Danny by February 14, 1986, so the field team can study them and plan field activities. Jamie Robertson agreed to "oversee" the complete AMS project and keep appropriate records.

The work products will include: 1) comprehensive bibliography (for each mining district), 2) maps at 1:24,000 scale with symbols depicting locations and types of mine hazards and areas of environmental degradation, 3) representative photographs (black and white) keyed to number 2 above, 4) data sheets describing and assessing observed mine hazards, and 5) a survey report (by mining district). The main contents of the report will be the above four work products. In addition, it will contain a discussion of the hazards, the methodology and techniques followed and a ranking of the most significant hazards.

The survey report will be completed and delivered by June 30, 1986 (5:00 p.m.). The following is a tentative schedule for the AMS project. Due to the short schedule, number of work products required, work loads of those involved, and the desire for a quality survey report, it is important that we stick to this schedule.

1/15

AMS SCHEDULE

February 1	Start-up date, begin bibliographic compilation
February 14	Key literature identified and given to Danny Bobrow
February 28	Complete bibliographic compilation (send to typing)
March 1	Begin field checking
May 16	Field checking completed (at least 40 man-days)
May 23	Figures and maps to drafting
June 6	First draft of report available for review by AMS staff, F. Kottlowski, J. Robertson and J. Hawley
June 12	Review comments completed and given to D. Bobrow and G. Johnpeer
June 25	Final typing and copying (10 copies) completed

*Field "kickoff" with AML staff sometime last week of February. Mike Gobla to schedule this.

GJ:agc

Distribution: Danny Bobrow
Lois Devlin
Bob Eveleth
Mike Gobla
John Hawley
Gary Johnpeer
Frank Kottlowski
Dave Love
Bob Osburn
Jamie Robertson
Mickey Wooldridge

Abandoned Mine Survey (AMS)
Weekly Report 2
February 3-7, 1986

This week's activities included researching mining claims of the Magdalena Mining District, office work relating to the project, and meetings.

Danny Bobrow continued researching the patented mining claims of the Magdalena District. This work consisted of: 1) identifying the patented mining claims, 2) identifying the current mine owners and their addresses, and 3) checking if taxes, on the mining claim, have been paid within the past three years. The latter two steps were accomplished at the Socorro County Courthouse.

AMS Bureau of Mines personnel conducted office work relating to the project including; preliminary work on the bibliography, literature search, and meetings.

On Friday, February 7, Jamie Robertson, Danny Bobrow, Mike Gobla, and Bob Eveleth of the Bureau of Mines attended a meeting with Allen Hall and Cynthia Black of the AML Bureau in the Bureau of Mines conference room. Discussed were: 1) the scope and schedule of the AMS project, 2) the work element that will be produced, 3) the need for a letter requesting access to patented mining claims, and 4) possible mitigative measures that can be used in sealing off hazardous mine openings.

Bureau Personnel engaged in the project this week were: Danny Bobrow, Gary Johnpeer, Mike Gobla, Bob Eveleth, and Jamie Robertson.

Danny J. Bobrow
Geologist
February 10, 1986

xc: Jamie Robertson

Abandoned Mine Survey (AMS)
Weekly Report #3
February 10-14, 1986

This weeks activities included drafting a letter requesting access to patented mining claims, making reproductions of the Magdalena Mining District map (Reineck, 1932), and office work relating to the project.

On Tuesday, February 11, D. Bobrow drafted and mailed letters to the owners of patented mining claims in the Magdalena Mining District requesting access to their patented mining claims. The purpose of the AMS was explained briefly in the letters (see attached).

The Bureau of Mines Drafting Department completed mylar copies (1:6,000 and 1:12,000) from photographic negatives of the 1:12,000 Magdalena Mining District map (Reineck, 1932).

AMS Bureau of Mines personnel conducted office work relating to the project. This included literature searches and meetings. On Tuesday, February 11, D. Bobrow, G. Johnpeer and J. Robertson met to discuss: 1) the format of the permission letter to be sent to owners of patented mining claims, 2) the scope of the field effort, and 3) the scope of the final report.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, J. Robertson, A. Carroll, and the Drafting Department.

Danny J. Bobrow
Geologist
February 16, 1986

DJB:agc

Attachment

cc: Gary Johnpeer
James Robertson

1-18

Abandoned Mine Survey (AMS)
Weekly Report #4
February 17-21, 1986

The activities this week included field checking mining related hazards at the Juanita Mine Group, a reconnaissance field inventory of mines to be studied in the Magdalena District, and office work relating to the project.

On Tuesday, February 19, D. Bobrow, G. Johnpeer, J. Hawley, and B. Eveleth field checked mine hazards at the Juanita Mine Group in the Magdalena Mining District (see attachment 1). On Wednesday, February 19, Gary revised the AMS field data sheet based on the field work done on Tuesday.

On Thursday and Friday, February 20 and 21, G. Johnpeer, D. Bobrow, M. Gobla, and A. Hall (EMD) field checked mine hazards at the Juanita Mine Group, field checked open mining shafts with Mr. Sommer on his property (approximately 1 mile southeast of Magdalena), and did a reconnaissance field inventory of mining related hazards in the Magdalena Mining District. This week a total of 6 days were spent field checking mine hazards in the Magdalena Mining District.

On Friday, Allen Hall outlined the field area to be studied in the Magdalena District (see attachment 2). Also on Friday, Allen discussed, with G. Johnpeer and D. Bobrow, the changes he will make in the AMS guidelines document.

AMS Bureau of Mines personnel conducted office work relating to the project. THis included: reproducing the 1:6,000 and 1:12,000-scale Magdalena Mining District map (Reineck, 1932), and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, J. Hawley, M. Gobla, B. Eveleth, the Drafting Department, and support staff.

Danny J. Bobrow
Geologist
February 23, 1986

DJB:agc

Attachments

cc: Gary Johnpeer
James Robertson

MS FIELD DATA SHEET

Site: AMS-3 Date: 7/20/86 Evaluator(s): GJ/DC/MG/AH Page 1 of 1
Mine Name: Ivanita Group
Location: (SW) 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena 4 mi
Closest Public Facility Kelly Road
Geologic unit Argillite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
2	19,20,21	A / 7810	S	Entrance to Ivanita adit
2	22,23	B,C / 7815	N	Stopes
2	24	D / 7860	S	Adit
2	25	E / 7875	S	Adit along ledge rock
2	26	E / 7900	S	Adit
		/		

A. (X) if present at site and describe below:

1.( )shaft	6.( )quarry	11.(X)storm	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track	13.( )tailings	17.( )blowing dust
4.( )incline	9.( )building/shack	14.( )mine dump	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence		

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Access via: 4WD road from main Ivanita adit
C. Recent visitation evidence (Y/N) D. Fenced (Y/N) Posted (Y/N)
E. Description of items checked in A above

M/I*	Description
A/3	South Ivanita adit, 6'H x 7'W, extends indefinable horizontal distance, drift to north, some caving 1-2 m back approximately 15' into adit, not timbered, entrance looks stable, see AMS-2 for description of mine dump
/_	
/_	(AMS-2 lower adit at south side Ivanita cut)
B/11	Stope, 3'x3' vertical, open to unknown depth, sloughing, oil and mine dump material
C/11	Stope, 4'x4' vertical to approx. 12' visible depth, area at surface unstable, sloughing
D/3	Adit, 5'H x 10'W, narrows to small opening 20' back, looks stable, approx. 5' diameter vertical hole just inside the entrance
E/3	Adit, triangular opening 4' wide at base x 2' high, open to unknown horiz. distance, entrance looks stable, widens further in
E/3	Adit, entrance looks partially backfilled but has sloughed to reveal 1'x1' adit, a 10'x5'x6' deep mine dump located on hillside at adit entrance, a small associated stope 2'x2'x10' deep located 5' west of entrance is very
/_	unstable, a smaller adit 2'x2'x2' horiz. back filled in-
/_	location is 10' south of main adit

Recommendations or comments:
- Stake posted above South Ivanita adit = 3A
- Fence and post signs at south adit
- Truck owner from Montana in parking area of main adit all day
- Metal pipe cemented into ledge rock has "102" stamped onit
- Modern "petroglyph" at entrance - "3" and "7U" chiseled into ledge rock

*Map location/Item number (see field completion map)

150

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Outline of study Area in
Magdalena Mining District

107° 15' 30"
34° 07' 30"

Abandoned Mine Survey (AMS)
Weekly Report #5
February 24-28, 1986

The activities this week included: field checking mining-related hazards, making reproductions of the Magdalena Mining District map (Reineck, 1932), and office work relating to the project.

On Wednesday, February 26, D. Bobrow and G. Johnpeer field checked mine hazards at the Germany (AMS-4) and "Double O" (AMS-5) mining areas, and on Friday, February 28, they field checked mine hazards on Mr. George Sommer's property (AMS-6) and at the South Juanita Mine (AMS-7) in the Magdalena Mining District. This week a total of 4 "man"-days were spent checking mine hazards in the Magdalena Mining District.

On Wednesday, copies of the 1:12,000 Magdalena Mining District map (Reineck, 1932), the 1:24,000 Silver Hill quadrangle map, and the 1:24,000 NW Magdalena quadrangle map were sent to Reliable Reproductions in Albuquerque. Reliable Reproductions will photograph and enlarge areas of the 1:24,000 maps (to 1:12,000) and enlarge specific areas of the Reineck map (to 1:3,000).

Office work conducted by AMS Bureau of Mines personnel relating to the project included: finalizing AMS field data sheets 1-5, outlining the area north of NM-60 in Magdalena to be field checked, preliminary examination of the newly acquired 1:58,000 infra-red aerial photographs of the Magdalena area (these photographs were ordered earlier from U.S. Department of the Interior), and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, L. McNeill, A. Carroll, and the Drafting Department.

Danny J. Bobrow
Geologist
March 2, 1986

DJB:agc

cc: Gary Johnpeer
James Robertson

Abandoned Mine Survey (AMS)
Weekly Report #6
March 3-7, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Tuesday, March 4, D. Bobrow and S. Smith field-checked mine hazards at the Mistletoe Mine and in the Mistletoe Gulch area (AMS-8) and on Thursday, March 6, D. Bobrow and B. Osburn field-checked mine hazards at the South Juanita Mine and in the Chihuahua Gulch area (AMS-7) of the Magdalena Mining District. This week a total of four "man"-days were spent checking mine hazards in the Magdalena Mining District.

Office work conducted by AMS Bureau of Mines personnel relating to the project included: finalizing AMS field data sheets 6-8, assembling a photo album to document mine hazards, preliminary examination of the newly acquired 1:31,680 color [redacted] and 1:80,000 black and white aerial photographs (ordered earlier from the U.S. Department of the Interior), preparing the 1:3,000- and 1:12,000-scale maps for blue-line copying, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, S. Smith, A. Carroll, and the Drafting Department.

Danny J. Bobrow
Geologist
March 9, 1986

DJB:agc

cc: Gary Johnpeer
James Robertson

Abandoned Mine Survey (AMS)
Weekly Report #7
March 10-14, 1986

The activities this week included office work relating to the project.

Office Work conducted by AMS Bureau of Mines personnel relating to the project included: detailed examination of the 1:31,680 color and 1:58,000 color infra-red aerial photographs of the Magdalena area, making blueline reproductions of the 1:3,000- and 1:12,000-scale maps of Magdalena, updating the AMS photograph album, and conducting literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, and A. Carroll.

Problems

1. Rain, snow, and wind prevented field-checking of mine hazards this week.

Danny J. Bobrow
Geologist

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mine Survey (AMS)
Weekly Report #8
March 17-21, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Monday, March 17, 1986, D. Bobrow and G. Johnpeer field-checked mine hazards in the Hardscrabble Camp area (AMS-9). On Tuesday, March 18, D. Bobrow and S. Smith field-checked mine hazards in the area north of US-60 (AMS-10) and on Thursday, March 20, D. Bobrow and S. Robinson field-checked mine hazards in the Jack Frost Mine area (AMS-11). This week a total of six "people-days" were spent checking mine hazards in the Magdalena Mining District. The AMS project was charged for only 5 of the "people-days" while the Bureau of Mines was charged for 1 "people-day."

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field data sheets 9 and 11, plotting field-checked mine-hazard locations on the office copies of the mine hazards' maps, detailed examination of the 1:31,680 color and 1:56,000 color infra-red aerial photographs, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, S. Smith, S. Robinson, and A. Carroll.

Problems

1. William Dobson (P.O. Box 104, Magdalena, NM) will not permit the field-checking of mine hazards on his properties (personal communication, M. Gobla); these include the Graphic, Silver Bell, Little Giant, Woodland, and Little Hazel mines.

Danny J. Bobrow
Geologist
March 23, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mine Survey (AMS)
Weekly Report #9
March 24-27, 1986

The activities this week included: field-checking mine hazards, making enlargements of 1:24,000 quadrangle maps, and office work relating to the project.

On Monday, March 24, D. Bobrow and B. Osburn field-checked mine hazards in the Hards crabble camp and Mockingbird Mine areas (AMS-12). On Tuesday, March 25, D. Bobrow and S. Smith field-checked mine hazards in the Arroyo Landavaso and Silver Hill areas (AMS-13). On Thursday, March 27, D. Bobrow and G. Johnpeer field-checked mine hazards in the Hermit Mine and Vindicator Mine areas (AMS-14). This week a total of six "people-days" were spent checking mine hazards in the Magdalena Mining District. The AMS project was charged for four days and the Bureau of Mines was charged for two.

On Monday, copies of the 1:24,000 Water Canyon quadrangle map, the 1:24,000 Silver Hill quadrangle map, and the 1:24,000 Arroyo Landavaso quadrangle map were sent to Reliable Reproductions in Albuquerque. Reliable Reproductions will photograph and enlarge specific areas of these three maps (to 1:12,000).

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field data sheets 12 and 13, plotting field-checked mine hazard locations on the office copies of the mine hazards maps, examination of D. B. Simon's (1973) geologic map of the Silver Hill and Arroyo Landavaso areas for mine locations, updating the AMS photo album, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, S. Smith, and A. Carroll.

Danny J. Bobrow
Geologist
March 30, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mine Survey (AMS)
Weekly Report #10
March 31 - April 3, 1986

The activities this week included: field-checking mine hazards, and office work relating to the project.

On Tuesday, April 1, D. Bobrow and D. Love field-checked mine hazards in the Kelly Mine area (AMS-15). On Wednesday, April 2, D. Bobrow and K. Cook field-checked mine hazards in the Kelly mining area and the town of Kelly (AMS-16). On Thursday, April 3, D. Bobrow and K. Cook field-checked mine hazards in the Arroyo Landavaso and Silver Hill areas (AMS-17). This week a total of six "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for three days and the Bureau of Mines was charged for three.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field data sheets 14 and 15, plotting field-checked mine hazard locations on the office copies of the mine hazards maps, updating the AMS photo album, making blueline reproductions of the 1:12,000 scale maps received from Reliable Reproductions of the Water Canyon, Arroyo Landavaso, and Silver Hill quadrangles, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, K. Cook, D. Love, and A. Carroll.

Danny J. Bobrow
Geologist
April 6, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #11
April 7-11, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Wednesday, April 9, 1986, D. Bobrow and S. Robinson field-checked mine hazards in the area north of US-60 (AMS-18). On Thursday, April 10, D. Bobrow and G. Johnpeer field-checked mine hazards in the Hardscrabble Mine area (AMS-19). On Friday, April 11, D. Bobrow and B. Osburn field-checked mine hazards in the areas surrounding the Anchor Canyon Mine and northeast of the Vindicator Mine (AMS-20). This week a total of six "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for four days and the Bureau of Mines was charged for two.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field data sheets 16 and 17, plotting field-checked mine hazard locations on the office copies of the mine hazard maps, updating the AMS photo album, a meeting with Dr. George Griswold (Mining-Engineering Department, New Mexico Tech) regarding access to the Waldo Mine, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, S. Robinson, and A. Carroll.

Danny J. Bobrow
Geologist
April 13, 1986

DJB:agc
cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #12
April 14-17, 1986

The activities this week included: field-checking mine hazards, making composite enlargements of 1:24,000 quadrangle maps, and office work relating to the project.

On Tuesday, April 15, 1986, D. Bobrow and G. Johnpeer field-checked mine hazards in the Ida Hill-Greyhound-Mitchell-Cimarron Mine areas (AMS-21). On Thursday, April 17, D. Bobrow and G. Johnpeer field-checked mine hazards in the Waldo Mine area (AMS-22) and the Mill site area (AMS-23). Robert Chamberlin (manager of the Waldo Mine) located the hazards at the Mill site area. This week a total of four "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for the four days.

Copies of the 1:24,000 Silver Hill quadrangle map and Arroyo Landavaso quadrangle map were sent to Reliable Reproductions in Albuquerque. Reliable Reproductions will photograph, make topographic and cultural composite maps, and enlarge specific areas of the maps (to 1:12,000).

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field data sheets 18-21, plotting field-checked mine hazard locations on the office copies of the mine hazard maps, updating the AMS photo album, a meeting in the Bureau conference room, and literature searches. On Monday, April 14, D. Bobrow, G. Johnpeer, J. Robertson, B. Osburn, and M. Gobla met to discuss: 1) the progress of the AMS project, 2) the contents of the final report, and 3) the bibliography.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, J. Robertson, M. Gobla, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
April 20, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

160

Abondoned Mine Survey (AMS)
Weekly Report #13
April 21-25, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Wednesday, April 23, 1986, D. Bobrow and B. Osburn field-checked mine hazards in the Stendel Ridge-Baxter Peak area (AMS-24). On Thursday, April 24, D. Bobrow and G. Johnpeer field-checked mine hazards in the northeast area of the district and the area east of the town of Kelly (AMS-25). This week a total of four "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for three days and the Bureau of Mines was charged for one day.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field-data sheets 22 and 23, plotting field-checked mine-hazard locations on office copies of the mine-hazard maps, updating the AMS photo album, proofreading typed copies of the AMS field-data sheets, working on the introduction of the final report, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
April 27, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #14
April 28 - May 2, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Tuesday, April 29, and Thursday, May 1, D. Bobrow and G. Johnpeer field-checked mine hazards in the following areas: 1) north of US-60 and east of Granite Mountain, 2) between the Hardscrabble Camp and US-60, and 3) east of the town of Kelly (AMS 26-28). On Friday, May 2, D. Bobrow and B. Osburn field-checked mine hazards in the area owned by Mr. Spears (just west of Granite Mountain and north of US-60; AMS-29). This week a total of six "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for five days and the Bureau of Mines was charged for one day.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field-data sheets 24-27, plotting field-checked mine-hazard locations on office copies of the mine-hazard maps, updating the AMS photo album, proofreading typed copies of the AMS field-data sheets, and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
May 4, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abondoned Mines Survey (AMS)
Weekly Report #15
May 5-9, 1986

The activities this week included: field-checking mine hazards and office work relating to the project.

On Monday, May 5, and Thursday, May 8, D. Bobrow and G. Johnpeer field-checked mine hazards in the Silver Hill-Arroyo Landavaso area (AMS-30 and 31). This week a total of four "people-days" were spent checking mine hazards in the Magdalena area. The AMS project was charged for all four of the field days.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field-data sheets 28-31, typing and proofreading the typed copies of the field-data sheets, plotting field-checked mine-hazard locations on office copies of the mine-hazards maps, updating the AMS photo album, and making a green-line mylar reproduction of the composite 1:12,000-scale map of the Silver Hill-Arroyo Landavaso area. In addition, the office work included: examining in detail aerial photographs of the Silver Hill-Arroyo Landavaso and Granite Mountain areas, plotting the locations of mine hazards in the Water Canyon area (sources included: B. Osburn's 1978 thesis map and a map of the Buckeye Mines), and literature searches.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
May 11, 1986

DJB:agc
cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #16
May 12-16, 1986

The activities this week included: field-checking mine hazards, office work relating to the project, and working on the final report.

On Wednesday, May 14, D. Bobrow and G. Johnpeer field-checked mine hazards in the Water Canyon area (AMS-32). The field survey phase of the project is now complete.

This week a total of two "people-days" were spent field-checking mine hazards in the Water Canyon area. The AMS project was charged for two days. Through May 18 a total of 98.5 days have been spent on the AMS project (Attachment).

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: finalizing AMS field-data sheet 32, typing and proofreading typed copies of the field-data sheets, updating the AMS photo album, and a meeting in the Bureau conference room. The meeting on May 12, (D. Bobrow, G. Johnpeer, and B. Osburn) was to discuss the format of the graphics for the final report.

On Tuesday, Thursday, and Friday, D. Bobrow worked on the graphics for the final report. The work involved: drafting symbols for field-checked mine-hazard sites onto 1:3,000 and 1:6,000 scale mylar base maps and drafting an explanation of symbols to be used on each map.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
May 18, 1986

DJB:agc

Attachment

cc: Gary Johnpeer
Frank Kottlowski
James Robertson
Mike Gobla

ATTACHMENT 1

The following are the hours (through May 18) that we have been working on the AMS project.

Staff Member	Field Hours*	office Hours*	Month
D. Bobrow	40	80	February
G. Johnpeer	40	12	February
B. Eveleth	8		February
J. Hawley	8		February
M. Gobla	16		February
D. Bobrow	64	72	March
G. Johnpeer	16		March
B. Osburn	16		March
S. Smith	24		March
S. Robinson-Cook	8		March
D. Bobrow	88	72	April
G. Johnpeer	40		April
B. Osburn	16		April
S. Robinson-Cook	8		April
K. Cook	16		April
D. Love	8		April
D. Bobrow	40	56	May
G. Johnpeer	32		May
B. Osburn	8		May
Total Hours/Days	496/62	292/36.5	

*8 hours is the equivalent of 1 day.

ABANDONED MINES SURVEY

MAGDALENA MINING DISTRICT

NEW MEXICO

FINAL REPORT

VOLUME 1

Prepared for:

Energy and Minerals Department

525 Camino de los Marquez

Santa Fe, New Mexico 87501

Prepared by:

Danny J. Bobrow, Gary D. Johnpeer and

Glen Osburn

New Mexico Bureau of Mines and Mineral Resources

Socorro, New Mexico 87801

28 June 1986

ABANDONED MINES SURVEY

MAGDALENA MINING DISTRICT

NEW MEXICO

VOLUME 1

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VOLUME II

Photographs

VOLUME III

Data Sheets

VOLUME IV

Maps

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New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

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May 19, 1986

MEMO

TO: Frank Kottlowski, James Robertson, Bob Eveleth, Bob Osburn, John Hawley, Dave Love, Danny Bobrow, Mike Gobla

FROM: Gary Johnpeer

SUBJECT: AMS report and schedule

Field study for the AMS project is done and Danny Bobrow is working on final graphics (maps). The brief text which must accompany the final report will be commenced this week.

Would you please make any changes, if needed, to the attached preliminary Table of Contents. I would like them by this Thursday.

Volume I will be written and circulated to you for comments within the next two weeks. I will keep Vols. 2,3, and 4 in my office. They are too bulky to reproduce for circulation. Please see me if you want to look at them. I will compile your Volume I comments the week of June 9.

We are producing two reproducible reports. One will go to Alan Hall at AML and the other will be open-filed here at the Bureau.

I have been given no indication that the Bibliography (Section 7.0) has been started. This section, which was due February 28 by Mike Gobla, must be given priority over other Information Center work if we expect to include it in the final report.

Abandoned Mine Survey (AMS)
Weekly Report #17
May 19-23, 1986

The activities this week included: office work relating to the project, scribing a new map, and working on the final report.

Office work conducted by AMS Bureau of Mines personnel relating to the project involved: typing and proofreading typed copies of the field-data sheets and completion of the AMS photo album.

This week the Bureau of Mines graphics department scribed a new composite map of the Arroyo Landavaso-Silver Hill-northwest Magdalena areas. This composite map will be Plate 1 in the final report.

Work conducted on the final report involved: a meeting and graphics. On Monday, May 19, G. Johnpeer and D. Bobrow met to plan the format of the final report. On Monday through Friday, D. Bobrow worked on the graphics for the final report. The drafting of symbols for field-checked mine-hazards sites onto Plates 2, 3, 4, and 5 has now been completed.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
May 26, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #18
May 27-39, 1986

The activities this week consisted of working on the final report.

On Tuesday and Wednesday, May 27-28, D. Bobrow worked on the graphics for the final report; the drafting of symbols for field-checked mine-hazard sites onto Plate 1 was completed. On Wednesday and Thursday, May 28-29, G. Johnpeer and D. Bobrow wrote a first draft of Sections 1,3,5,6,7 and 8 of Volume I for the final report.

On Friday, May 30, D. Bobrow and G. Johnpeer proofread and compiled corrections on a typed first draft of Volume I. Also on Friday, B. Osburn, B. North, and B. Eveleth wrote a first draft of Sections 2 and 4 of Volume I for the final report.

Bureau personnel engaged in the project this week were: D. Bobrow, G. Johnpeer, B. Osburn, B. North, B. Eveleth, A. Carroll, and T. Lopez.

Danny J. Bobrow
Geologist
June 1, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
James Robertson
Mike Gobla

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Abandoned Mines Survey (AMS)
Weekly Report #19
June 2-6, 1986

The activities this week included: field-checking mine hazards and working on the final report.

On Thursday, June 5, D. Bobrow and G. Johnpeer field-checked mine hazards in the mill-site area (AMS-23).

Monday through Friday, June 2-6, D. Bobrow and G. Johnpeer wrote a second draft of the final report. On Friday, J. Hawley wrote Section 5 of the final report "Environmental Concerns." The report was sent out for review to F. Kottlowski, J. Robertson, B. Eveleth, B. North, J. Hawley, B. Osburn, and D. Love.

On Friday, D. Bobrow proofread typed copies of the Field Data Sheets, and completed the graphics for the final report. The graphics effort included finalizing the plates (Vol. IV) and drafting an explanation for the plates.

Danny J. Bobrow
Geologist
June 8, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
James Robertson
Mike Gobla

Abandoned Mines Survey (AMS)
Weekly Report #20
June 9-13, 1986

The activities this week consisted of working on the final report.

On Monday through Wednesday, June 9-11, and Friday, June 13, D. Bobrow and G. Johnpeer worked on the final report. The work consisted of: compiling reviewer's comments, editing the second draft of the report, drafting figures and tables, and finalizing and making sepia-mylar reproductions of the plates.

Danny J. Bobrow
Geologist
June 16, 1986

DJB:agc

cc: Gary Johnpeer
Frank Kottlowski
Jamie Robertson
Mike Gobla

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

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June 28, 1986

Mr. Alan Hall
Energy and Minerals Department
525 Camino de los Marquez
Santa Fe, NM 87501

Dear Mr. Hall:

The New Mexico Bureau of Mines and Mineral Resources is pleased to submit this report on the findings of an Abandoned Mines Survey in the Magdalena Mining District.

We are providing you with a reproducible copy of the text, data sheets and maps. In addition we are providing two blueline copies of each field map. We are placing a duplicate copy of the report on open-file at the New Mexico Bureau of Mines so that the data are readily available to the public.

It has been a pleasure working on this very interesting project in one of the state's most historic mining areas. If you have any questions regarding the report please call me.

Sincerely,

Gary Johnpeer
Engineering Geologist

GJ/ld

12.0 LETTERS OF PERMISSION

The following are copies of the letters that each patented mining claim owner was mailed prior to the field-checking phase of the AMS project. Also included are copies of the two letters of reply received from patented claim owners.

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

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February 11, 1986

Asarco Inc.
Post Office Box 5747
Tucson, AZ 85703

Dear Sir:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditiors which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

New Mexico Bureau of Mines & Mineral Resources
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February 11, 1986

Mr. Thomas B. Catron III
and Mr. John Seatron
c/o Catron, Catron, and Sawtell
Post Office Box 788
Santa Fe, NM 87501

Dear Messrs. Catron and Seatron:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Robert J. Chamberlin
Box 448
Magdalena, NM 87825

Dear Mr. Chamberlin:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Companion Company Inc.
Paula Eaton
Post Office Box 1766
Socorro, NM 87801

Dear Ms. Eaton:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Cobb Nuclear Corporation
313 Washington S.E.
Albuquerque, NM 87108

Dear Sir:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandored mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

William L. Dobson
Post Office Box 104
Magdalena, NM 87825

Dear Mr. Dobson:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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New Mexico Bureau of Mines & Mineral Resources
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February 11, 1986

Robert C. Dunlap
Post Office Box 465
Magdalena, NM 87825

Dear Mr. Dunlap:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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New Mexico Bureau of Mines & Mineral Resources
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February 11, 1986

Mr. Al French
16332 Flallon St.
Norwalk, CA 90650

Dear Mr. French:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Estate of Allen G. Graham
c/o Aubry L. Graham
305 N. Oak St.
Falls Church, VA 22046

Dear Ms. Graham:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandored mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Travis M. Hausler
4721 Sierra Madre Dr.
El Paso, TX 79904

Dear Mr. Hausler:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditiors which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

B. L. Henderson
Box 286
Socorro, NM 87801

Dear Mr. Henderson:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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February 11, 1986

Marin L. and Leva Kempton
1201 Apache Drive
Socorro, NM 87801

Dear Mr. and Mrs. Kempton:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

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February 11, 1986

Diana La Tasa, Delzon L. Torres,
and Sophie C. Torres
c/o Edward E. Torres
403 Highway 85
Socorro, NM 87801

Dear Sir and Mmes.:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

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New Mexico Bureau of Mines & Mineral Resources
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I [illegible]tion: 505/835-5420
Pu[illegible]ions: 505/835-5410

February 11, 1986

Cameron J. Mactavish and
Andrew H. Mactavish
2144 Mallard Circle
Winter Park, FL 32789

Dear Messrs. Mactavish:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

If we do not hear from you by February 27, 1986, we will assume that we can enter your patented mining claim for this project. Thank you for your cooperation. If you have any questions regarding this project, feel free to contact either of us or the Director.

Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

188

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

ation: 505/835-5420
tions: 505/835-5410

February 11, 1986

New Jersey Zinc Co.
c/o Gulf & Western Ind. Inc.
Post Office Box 5105
Norwalk, CT 06856

Dear Sir:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

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Socorro, NM 87801

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In[illegible]tion: 505/835-5420
Pu[illegible]ions: 505/835-5410

February 11, 1986

Resources America, Inc.
Post Office Box 1483
Winter Park, FL 32790

Dear Sir:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandored mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

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Socorro, NM 87801

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NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

[illegible]ation: 505/835-5420
P[illegible]ions: 505/835-5410

February 11, 1986

George E. Seely
c/o Clarence Pierson
General Delivery
Mimbres, NM 88049

Dear Mr. Seely:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditiors which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

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Sincerely,

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Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Information: 505/835-5420
Publications: 505/835-5410

February 11, 1986

Charlotte L. Stendel and
Charlotta E. Stendel
Post Office Box 451
Socorro, NM 87801

Dear Mmes. Stendel:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

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Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

A DIVISION OF
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

I ation: 505/835-5420
Pu ions: 505/835-5410

February 11, 1986

Mr. P. Vincent Stuppi
2125 Geri Lane
Hillsborough, CA 94010

Dear Mr. Stuppi:

The New Mexico Bureau of Mines and Mineral Resources has begun work on a federally funded abandoned mine-lands project. The purpose of the project is to make on-site visits, beginning March 1, 1986, to abandoned mine areas in the Magdalena Mining District. The work involves photographing, describing, and in some cases, measuring features or conditions which may constitute a safety or health hazard. Generally, we will observe conditions at the ground surface and do not need to enter the mine.

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Sincerely,

Danny J. Bobrow
Geologist

Gary Johnpeer
Engineering Geologist

DJB:GJ:agc

xc: Frank E. Kottlowski, Director
James M. Robertson, Acting Deputy Director

ASARCO

Southwestern Mining Department
T. E. Scartaccini
General Manager

February 21, 1986

Mr. Danny J. Bobrow
Geologist
New Mexico Bureau of Mines
& Mineral Resources
Socorro, NM 87801

Dear Sir:

This office is in receipt of your letter of February 11, 1986.

The property to which you refer is not an abandoned mine, but is being utilized as a school mine by the New Mexico Institute of Mining and Technology. Therefore it does not qualify as per your description and permission is not granted for entrance on this project.

Very truly yours,

T. E. Scartaccini

TES/mck

ASARCO Incorporated P. O. Box 5747 Tucson, Az 85703-0747
1150 North 7th Avenue (602) 792-3010

Post Office Box 451
Socorro, NM 87801

February 18, 1986

Mr. Danny J. Bobrow, Geologist
Mr. Gary Johnpeer, Enginerring Geologist
New Mexico Bureau of Mines & Mineral Resources
Socorro, NM 87801

Dear sirs:

In reference to your letter dated February 11, 1986, I would like to state that my patented property has not been abandoned. It is completely fenced in and is a NON-PRODUCTIVE PATENTED MINING CLAIM and the house on it is still a residence at the present time.

A number of years ago I was instructed by the State Land Office in Santa Fe to file my yearly tax assessment on this non-productive patented mining claim with the Socorro County Assessor's Office at the Socorro County Courthouse.

With all this in view and because I do not favor extra Federal funding for any special projects which would increase our national debt or create more problems, I am not interested in getting involved in your present project.

Sincerely yours,

Charlotte L. Stendel

Charlotte L. Stendel

13.0 PROJECT GUIDELINES

The following are project guidelines prepared by Mr. Alan Hall of the New Mexico Abandoned Mine Lands Bureau.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
525 Camino de los Marquez
Santa Fe, New Mexico
87501

TONEY ANAYA
GOVERNOR

February 24, 1986

Mike Gobla
Information, Resource, and Service Center
Bureau of Mines and Mineral Resources
New Mexico Institute of Mining and Technology
Socorro, NM 87801

File: Information, Resource, and Service Center

Dear Mr. Gobla:

As you know, item D in the Scope of Work of the current contract requires the Bureau of Mines and Mineral Resources to devote at least 60 working days of a professional geologist or mining engineer to surveys of abandoned mines. The surveys, and reports of the surveys, are to correspond to guidelines that will be produced by the AML Bureau. These guidelines are enclosed.

The contract states that the AML Bureau will specify the areas to be surveyed. Last week, when I was in Socorro, Gary Johnpeer and Dan Bobrow (who will do the actual field work and report preparation) and you and I agreed on an area that should be surveyed around Magdalena. In general, the more accessible area around Kelly, extending north through the foothills of the Magdalena Mountains to U.S. 60, and an area north of the town, should be surveyed intensively. Outlying areas higher in the Magadlena Mountains should be surveyed selectively, concentrating on mines shown on USGS maps and areas along roads. Shafts near recreation sites in Water Canyon, on the east side of the mountains, should also be surveyed.

Surveying this area will very likely take all of the 60 working days provided in the contract. If any extra time is left over, we can decide later where it might be applied.

Sincerely,

Alan Hall

Alan Hall
NM AML Bureau

AH:jg

Enclosure

Guidelines for Abandoned Mine Land Surveys by the Bureau of Mines and Mineral Resources

February 24, 1986

New Mexico
Abandoned Mine Land Bureau

Introduction

The Abandoned Mine Land Bureau is essentially a creation of the federal Surface Mining Control and Reclamation Act of 1977, P.L.95-87. Title IV of this act requires coal producers to pay a fee on their production (35¢ per ton of surface-mined coal, and 15¢ per ton of underground-mined coal) into a "reclamation fund". This fund is used to finance state and federal abandoned mine land programs. These programs are charged with eliminating or reducing problems associated with abandoned or inactive mines. All problems that threaten human health or safety are to be addressed first, while problems involving only environmental degradation that does not threaten human health are to be a lesser priority.

The New Mexico AML Bureau has, for both legal and political reasons, concentrated its efforts until now on abandoned coal mines. We have now reduced the supply of hazardous old coal mines, however, to a point where it is now appropriate to consider projects involving hazardous inactive non-coal mines. In order to do this, we need enough information to be able to make intelligent choices about which non-coal mine problems should be addressed first.

We are interested in any sort of problem that is caused by past mining, or that is exacerbated by past mining. The most common sorts of threats to human health or safety will probably be open shafts, adits with unstable roofs, and dilapidated headframes, loadouts, and other mine structures. But the list of possible hazards is endless: unstable dams and tailings ponds, radioactivity, any sort of contamination to drinking water supplies, dust blowing from tailings that contain high concentrations of lead or other toxic heavy metals, and so forth. Problems involving only environmental degradation are also of interest, even though the AML Bureau may not be able to address them for several years.

Background Research

The first step in each survey should be an examination of any materials that the IRSC may have on the area to be surveyed. Very often this information will include references to individual sites that are not currently well marked in the field. All of the information that the IRSC can provide should be perused carefully.

Scope of the Field Work

The surveyors will need to exercise considerable judgment regarding the boundaries of the survey areas, and the intensity with which the ground will be examined.

The AML Bureau will establish boundaries of areas that are to be surveyed. The boundaries, however, must be regarded as being only general and preliminary. Obviously the Bureau cannot predict exactly where each hazard might be before a certain amount of field work is done. The man in the field should look at the area specified by the AML Bureau, and then exercise reasonable discretion in looking outside that area.

The surveyor will similarly need to exercise judgment in deciding how thoroughly to examine a given area. In general, a survey should be conducted so that the AML Bureau can be reasonably confident that all major hazards have been located. This does not mean, though, that the surveyor should squander all of his time on an exhaustive search. The AML Bureau recognizes that it is virtually impossible to guarantee identification of every potential hazard in an area, especially if the hazards include small diameter shafts.

Documentation of the Field Work

1. Numbering. Each site (adit, shaft, tailings pond, subsidence hole, mine structure, etc.) should be numbered separately. (But where features occupy the same spot on the landscape, such as a dilapidated headframe over an open shaft, the site should be given only one number.) The numbering system needn't correspond to any particular convention, but, within a given area, every site must be given a discrete number. Each site should be marked in the field with a 1" x 2" wooden stake, numbered on opposite sides with a felt-tip marker, or with a aluminum-covered cardboard tag attached to the stake. Each number should be proceeded with "AML"; that is AML 1, AML 2, AML 5b, etc. Each wooden stake should be marked with a piece of brightly colored plastic ribbon. However, the sites need not be marked in the field if the Bureau of Mines and Mineral Resources does not have the permission of the landowner, and if the sites can be well differentiated by suitable mapping and other documentation.

2. Photographs. At least two photographs should be taken of each site. The photos should be taken from different angles, and at least one of the photos should show some amount of the background. The photos should be color, 3½" x 5" prints, with the area name and site number printed on the back of each print. We suggest including a poster or sheet of paper bearing the site number in at least one photo of each site, but this is not mandatory.

3. Site Descriptions. A concise description should be written of each site. The length and nature of the description will of course vary, depending on the site. However, for adits and shafts the description should include the approximate dimensions (shaft depths should be measured by lowering a weight on a tape or line), the condition of the collar or back, and the amount of fill in the dump.

4. Maps. The sites within each area should be mapped with sufficient care so that an experienced field person who hasn't been to the area can find each site without difficulty. The preferred scale is 1" = 500', but if the sites are rather sparse, 1" = 2000' will do. A scale smaller than 1" = 2000' is generally not very useful, while a scale larger than 1" = 500' is generally too cumbersome for field use. (However, if some sites are closely packed in a small area, a large scale detail map of that particular area could be very useful.) Topo maps are preferred. If other map bases are used, they should be unusually well detailed.

5. Accessibility for Equipment. In order to address the problems at each location, some sort of equipment will have to be brought to the site. This may vary from heavy equipment of all sorts to a pick and a shovel. Very often the problems in getting equipment to the sites are considerable. (It should be kept in mind that the AML Bureau is relatively "environmentally aware", and that it is reluctant to cause any more disturbance than is strictly necessary, and is obligated to reclaim any disturbance that it does cause.) As such, information concerning potential routes is very pertinent. The location and condition of existing roads should be described, and they should be shown on the maps.

6. Hazardousness or Amount of Environmental Degradation. In some cases, a straightforward description of a site will, by itself, suffice to describe the relative seriousness of the problems associated with the site. In most situations, though, some discussion of what makes a site a problem (or not a problem) should be included in the field notes. There is no need to rank the sites according to any particular system of "hazardousness evaluation". Rather, a simple narrative of the facts is most appropriate. Some items to be considered are:

   (a) The inherent hazardousness of the site; that is, the degree of harm that could befall the unwary visitor. A huge teetering headframe that could collapse and crush someone is obviously more dangerous than a teetering shack.

   (b) The degree to which a hazard is disguised. All other factors being equal, an open, obvious shaft is less dangerous than a shaft covered by a sheet of particle board. A drift that may contain poisonous gases may be more dangerous than one with good air and a bad roof.

   (c) The site's accessibility and attractiveness to the public, and especially to children. How close is the site to residences, schools, roads, recreation areas, and so forth? How visible is it to passersby? Is there evidence of frequent visitation? Is the site fenced and posted? Is access otherwise controlled? (A fence and "no trespassing" or warning signs are often not very effective in keeping people away from a site, but their presence or absence is a factor that should be noted in any case. The placement of a locked gate or fence is often very important. If John Q. Public cannot see a site from a locked and posted gate, he may just turn around and drive away. If he can see something interesting from the gate, though, it may not be a sufficient psychological barrier.)

7. Recommendations. The surveyor should feel free to make any recommendations he wishes regarding additional survey work, ways to deal with site problems, or whatever.

Reports

A report should be made on each area that is surveyed, or on logical subdivisions of an area. The report should include a concise

recapitulation of the field documentation, two copies of maps showing the boundaries of the surveyed areas and the location of each site, and the photographs. The photographs should be mounted on sheets, labelled, and bound in 3-ring binders. Care should be taken to make the maps clean and accurate.

The surveyor should include in the report any supplementary information that he believes may be useful to the AML Bureau. Such information could include land ownership, mine histories, local contacts, distinguishing features of sites, sketches, drawings, the likelihood of future mining, potential borrow areas, and so forth. The report should be accompanied by copies of any particularly useful or pertinent documents obtained by the IRSC (especially mine maps).

The report need not conform to any particular format, but it should be neat and clear. It should include all information that the surveyor thinks is appropriate, but it should not contain any generic filler or redunancies. It should not contain an abstract. The surveyor should feel free to write a lot if there is a lot to write about, but should not feel any obligation to embellish anything just because it seems a little short. The AML Bureau is interested in useful, accurate information, not in the total number of words or pages. We would, in fact, prefer a concise, simple format. In general, the surveyor should strive to maximize his time in the field, and minimize his time at the office.

VOLUME II

PHOTOGRAPHS


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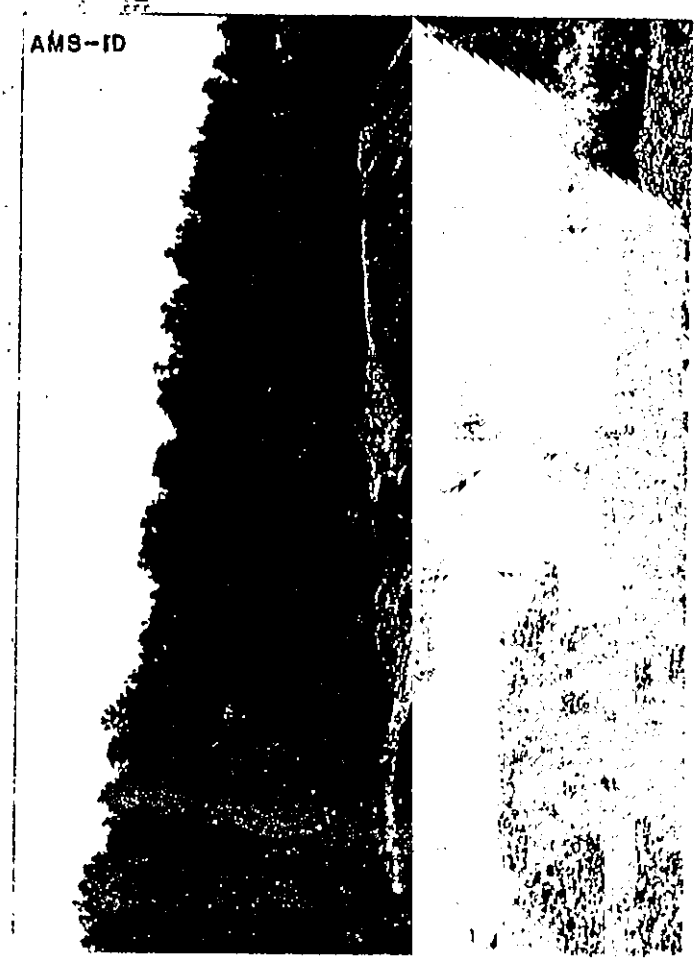
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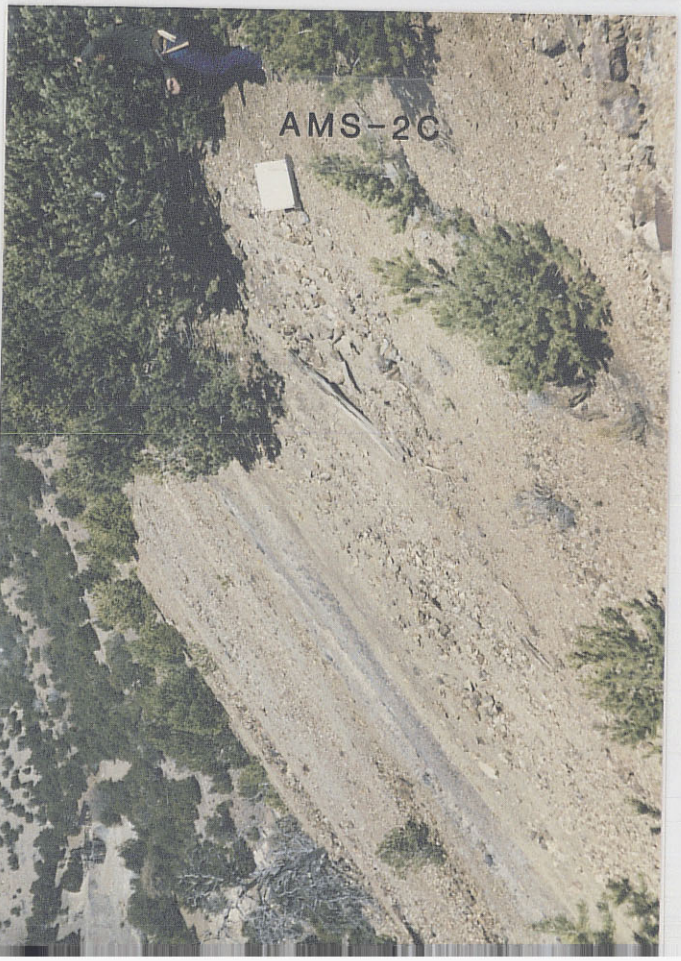
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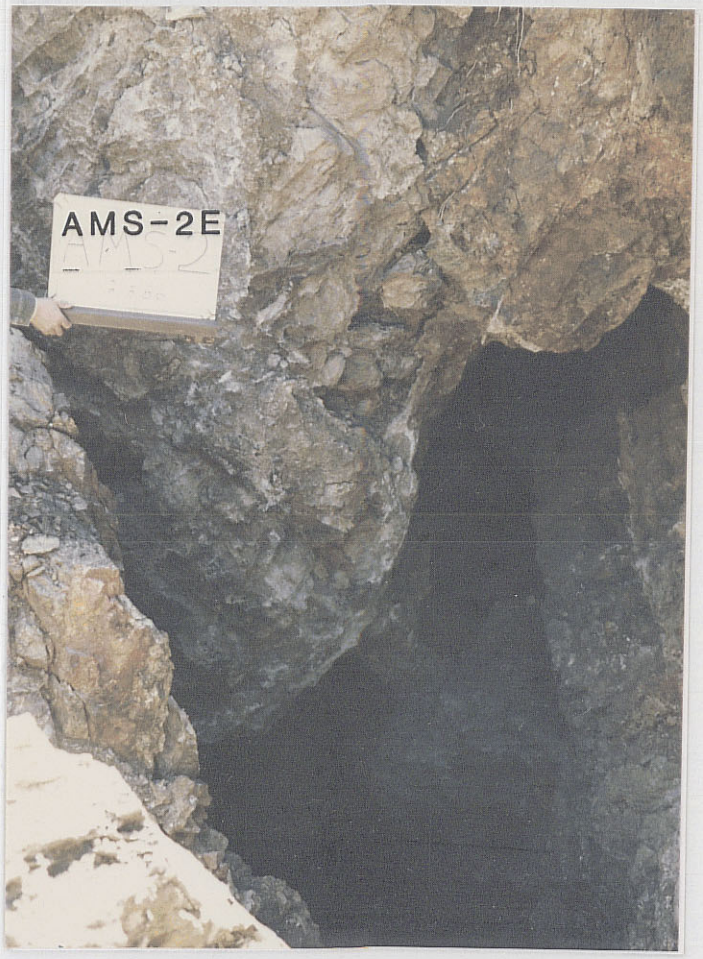
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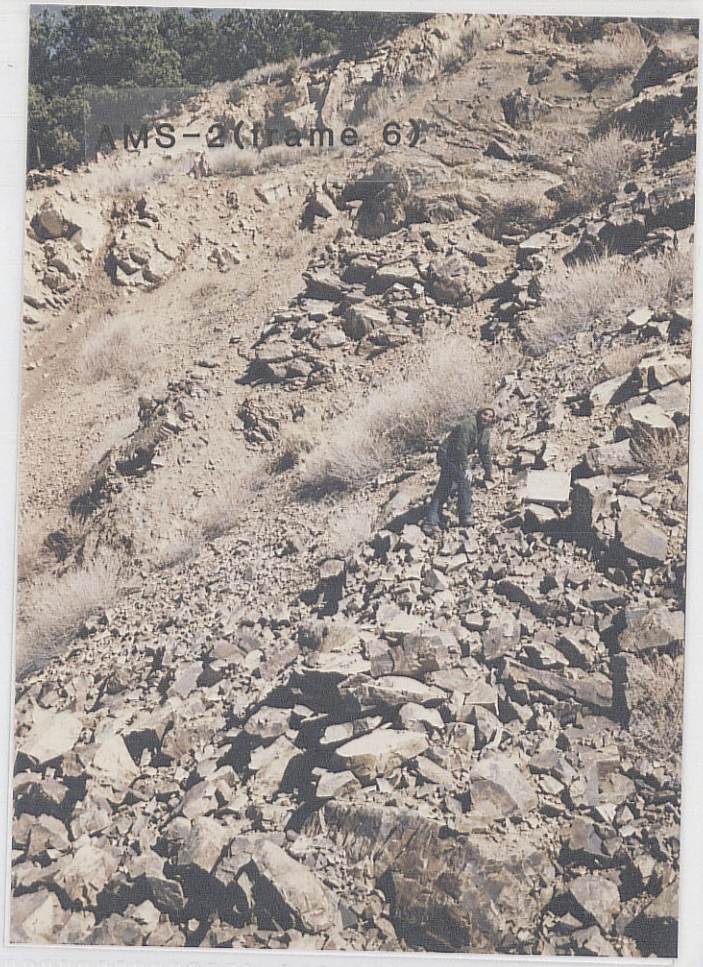
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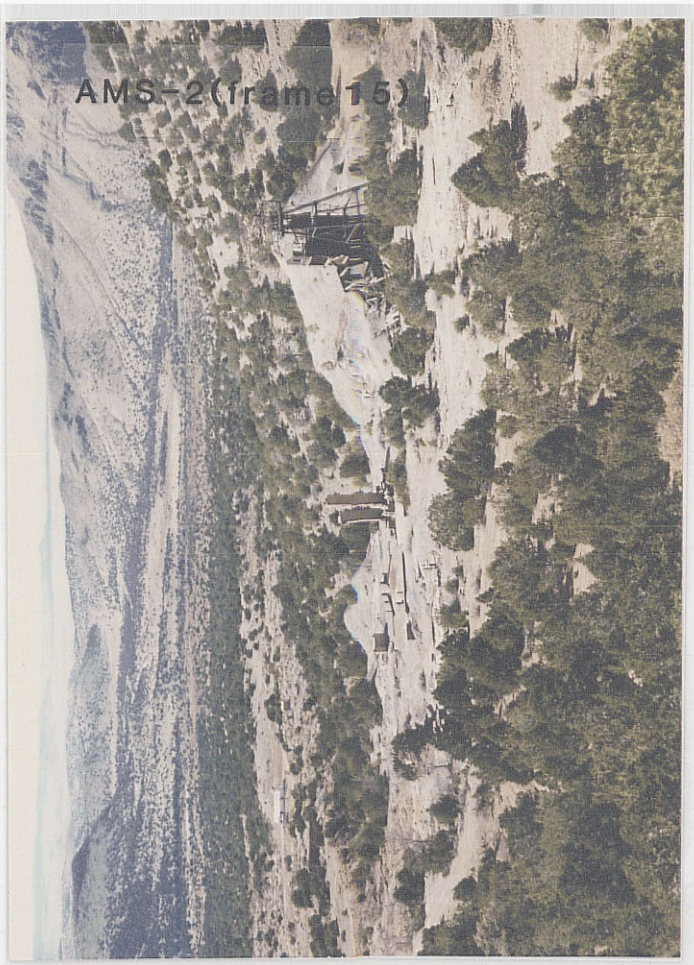
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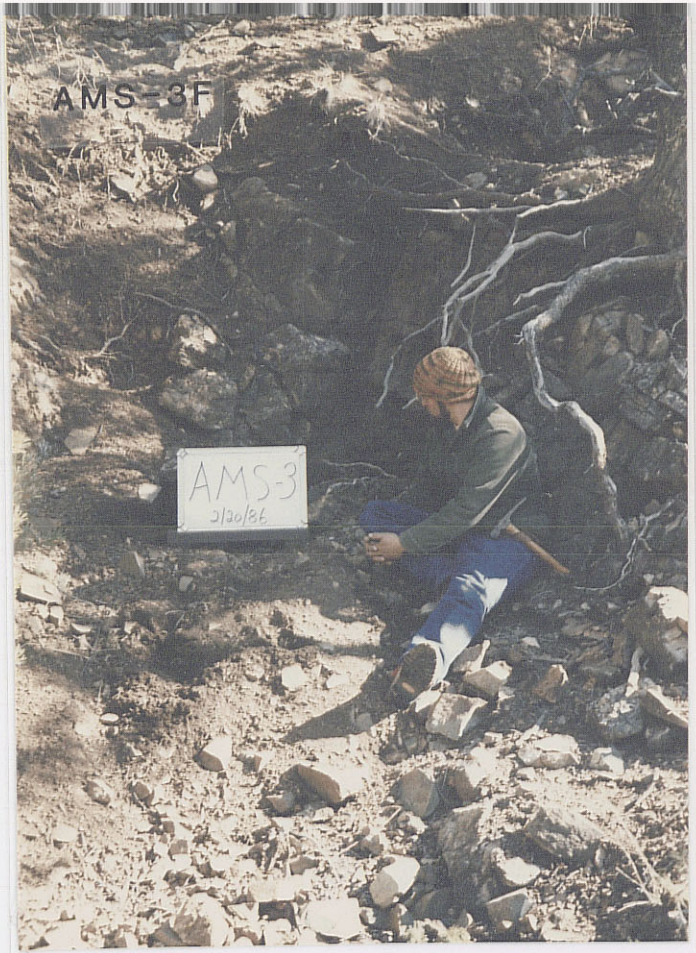
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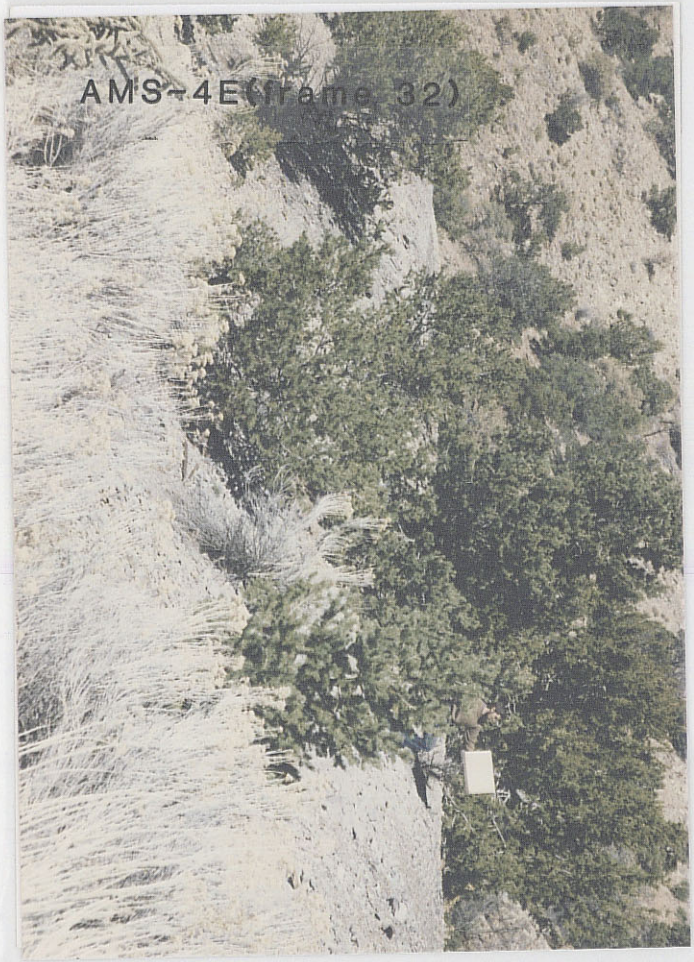
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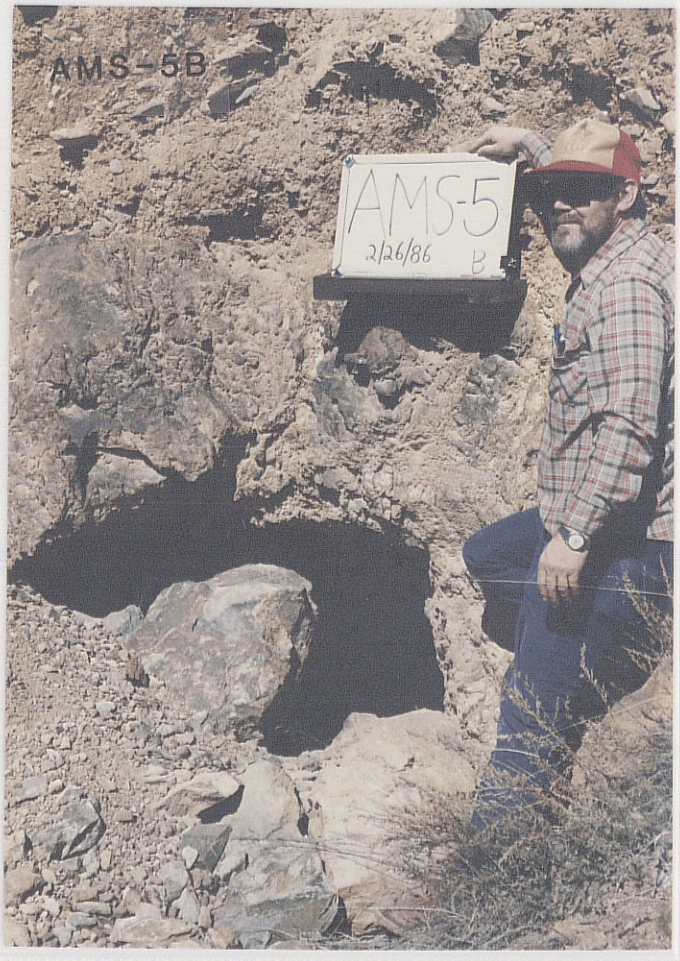
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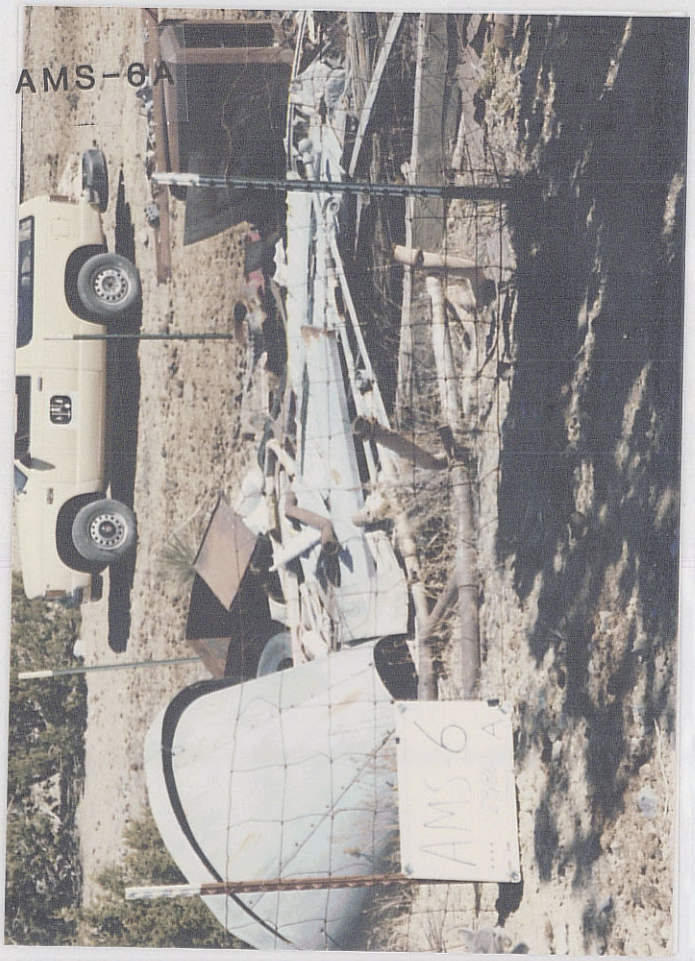
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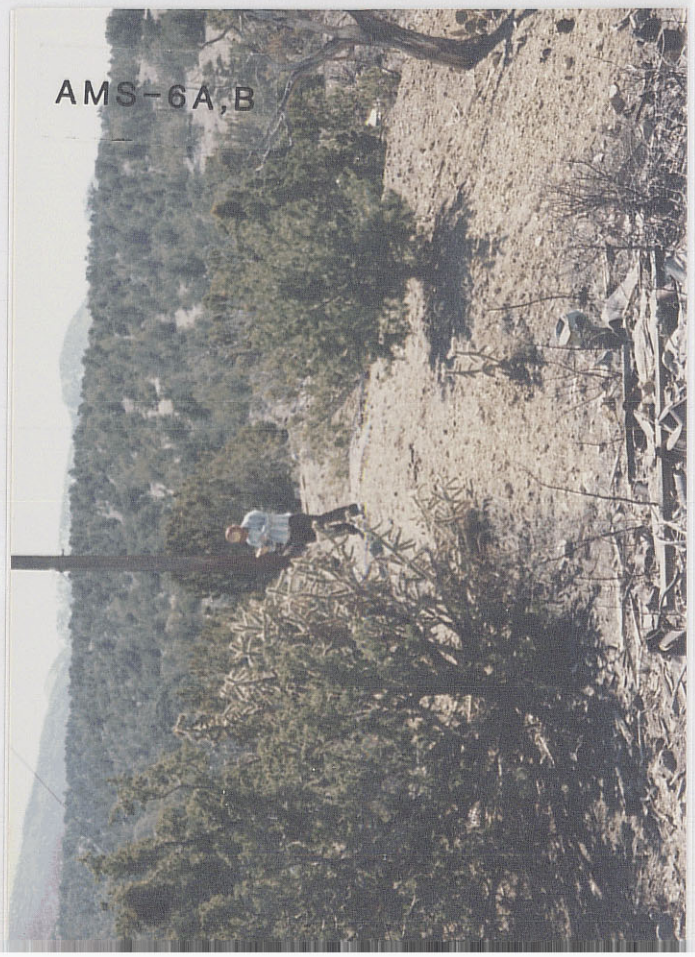
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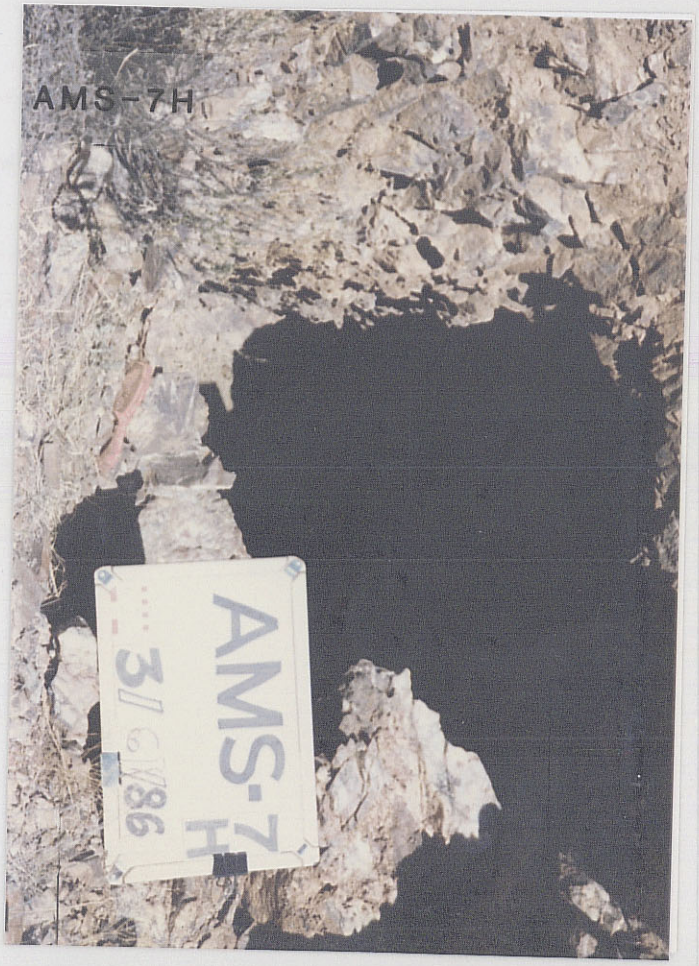

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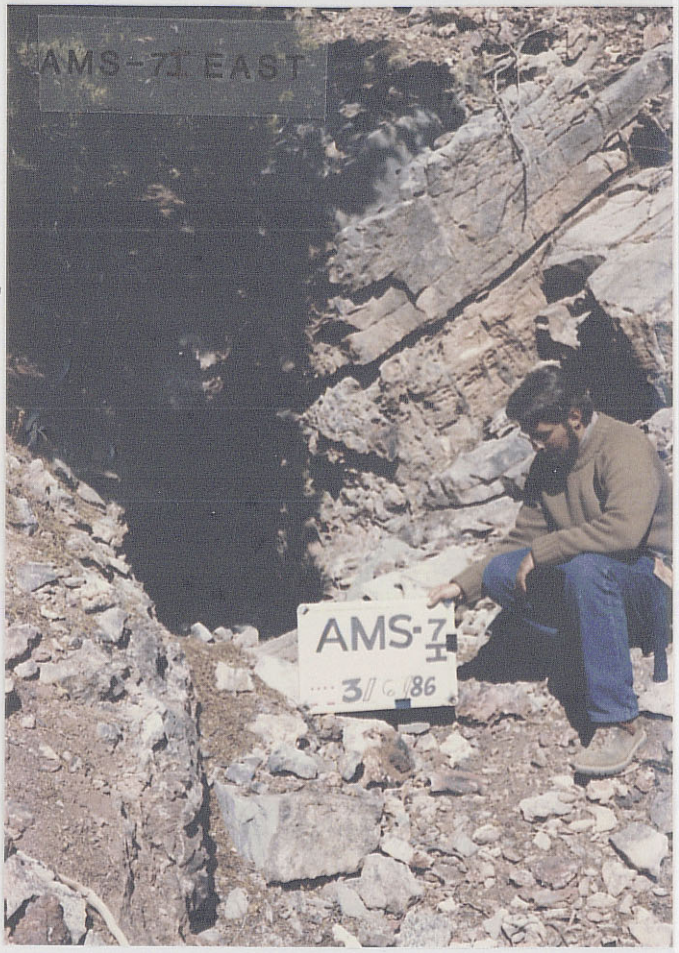
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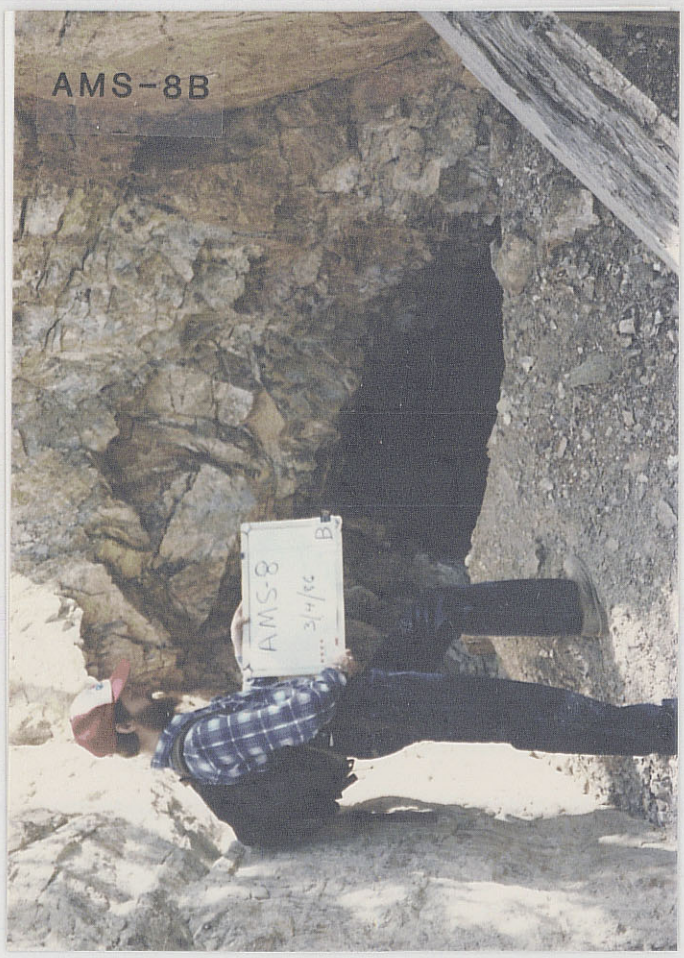
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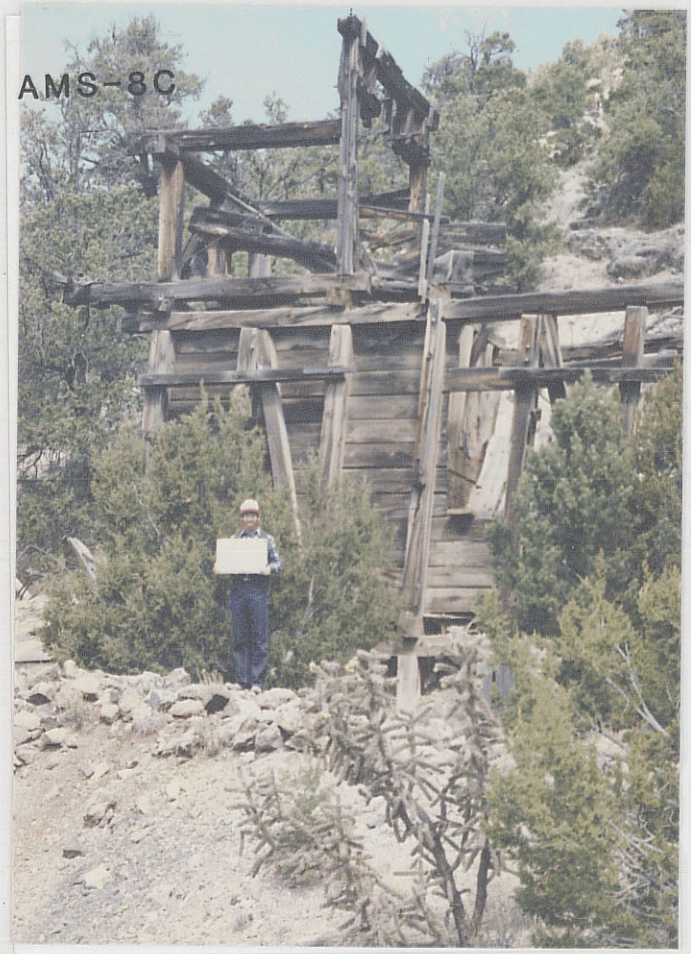
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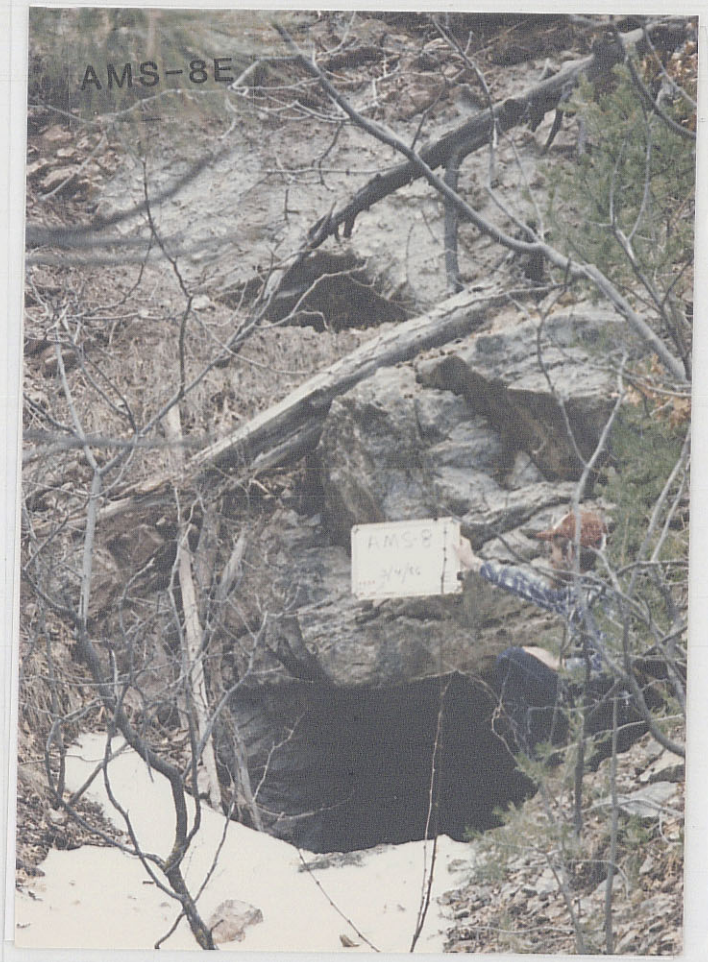
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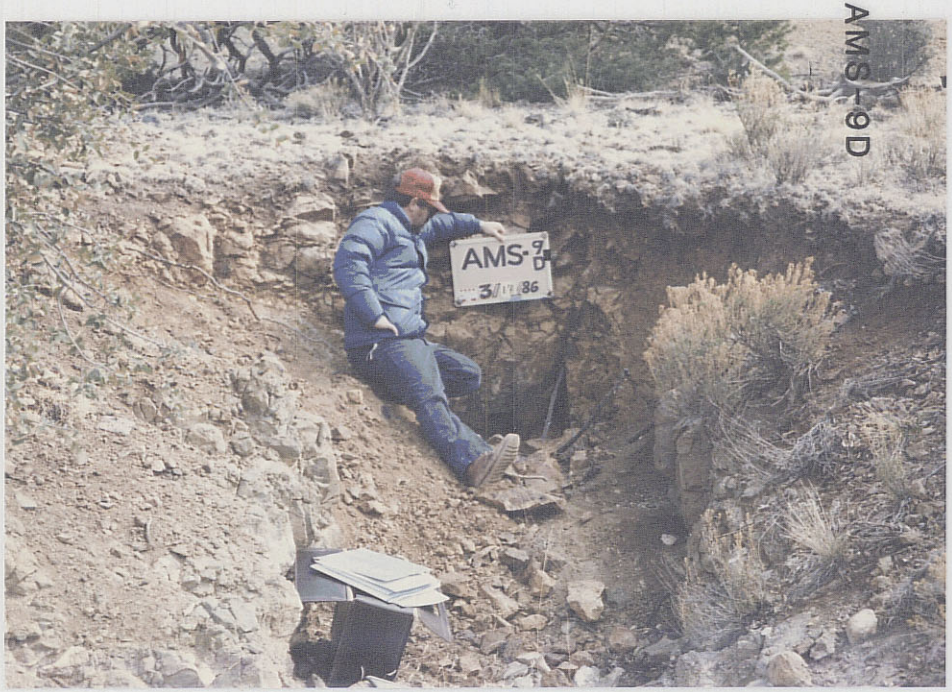
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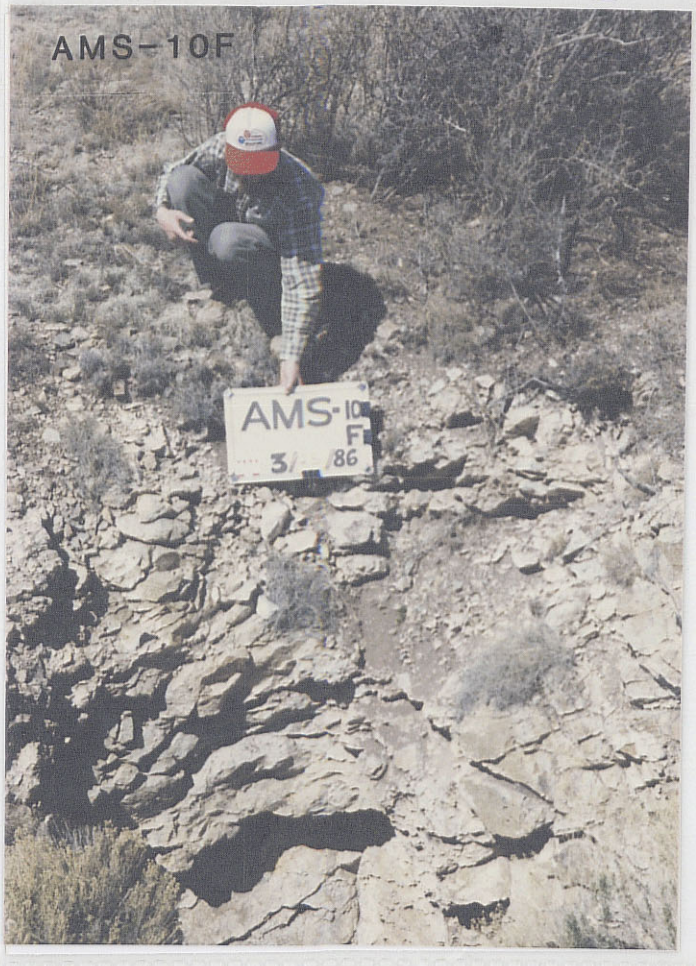
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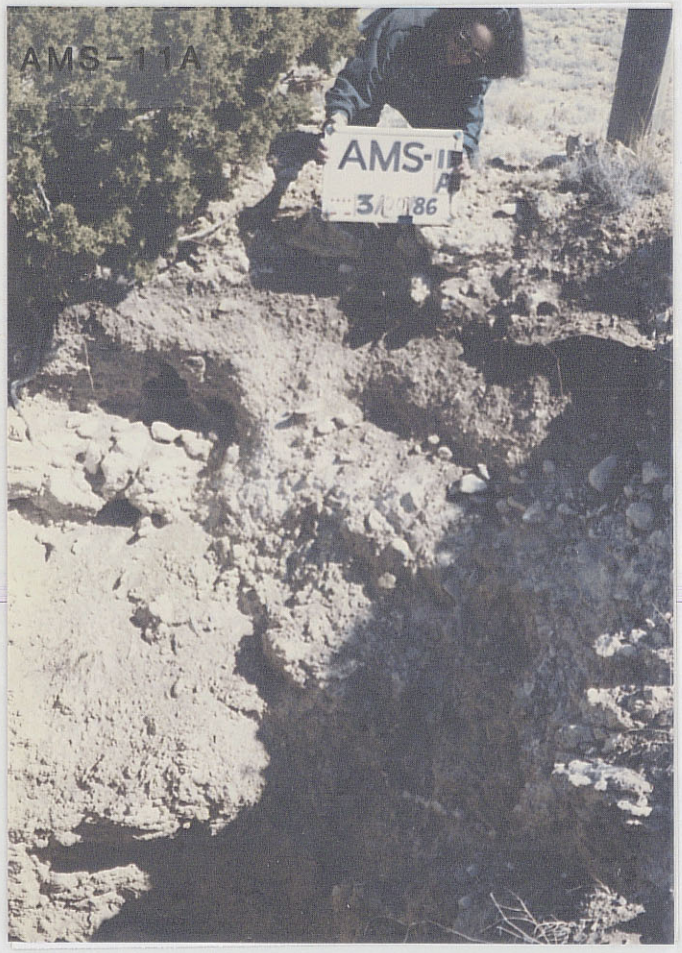
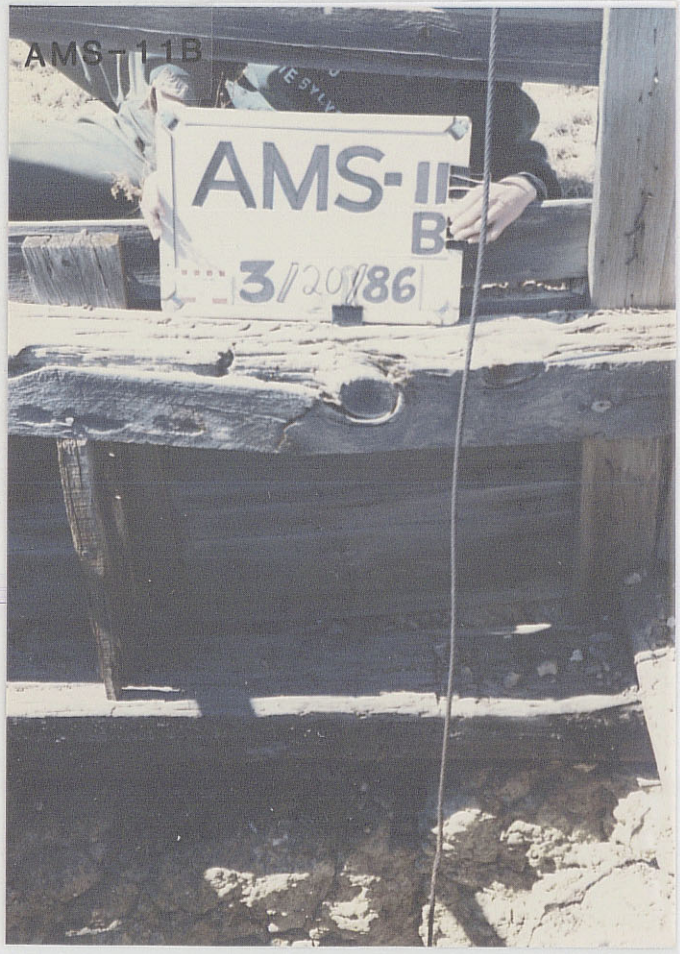
AMS-10I
AMS-10
3/ 86

AMS-11A

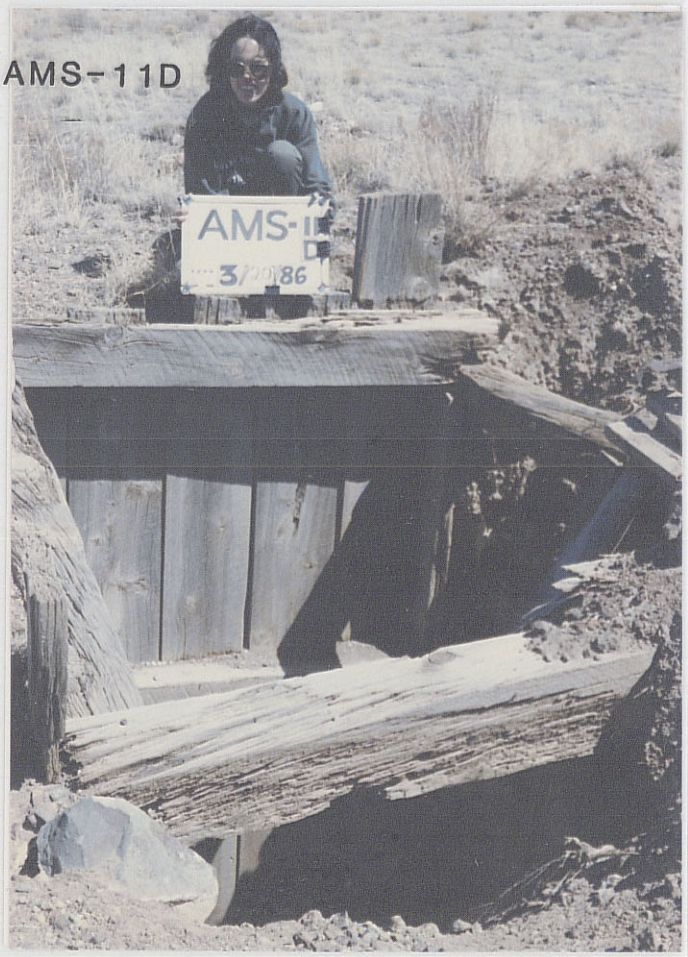


AMS-11B



AMS-11C

AMS-11D




AMS-11F


AMS-11E


AMS-11H


AMS-11G

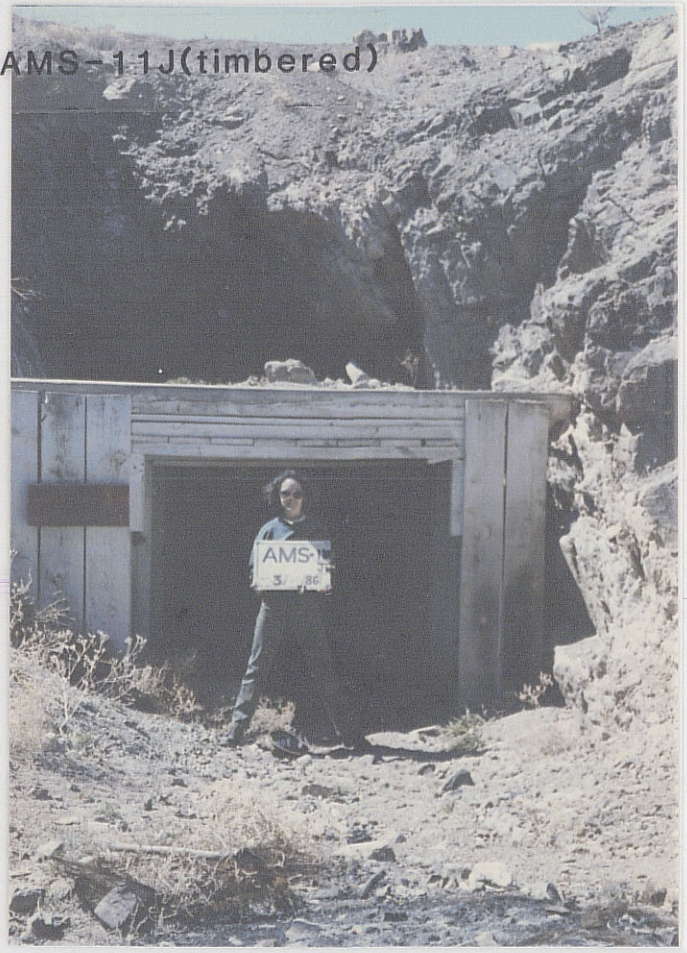
AMS-11P

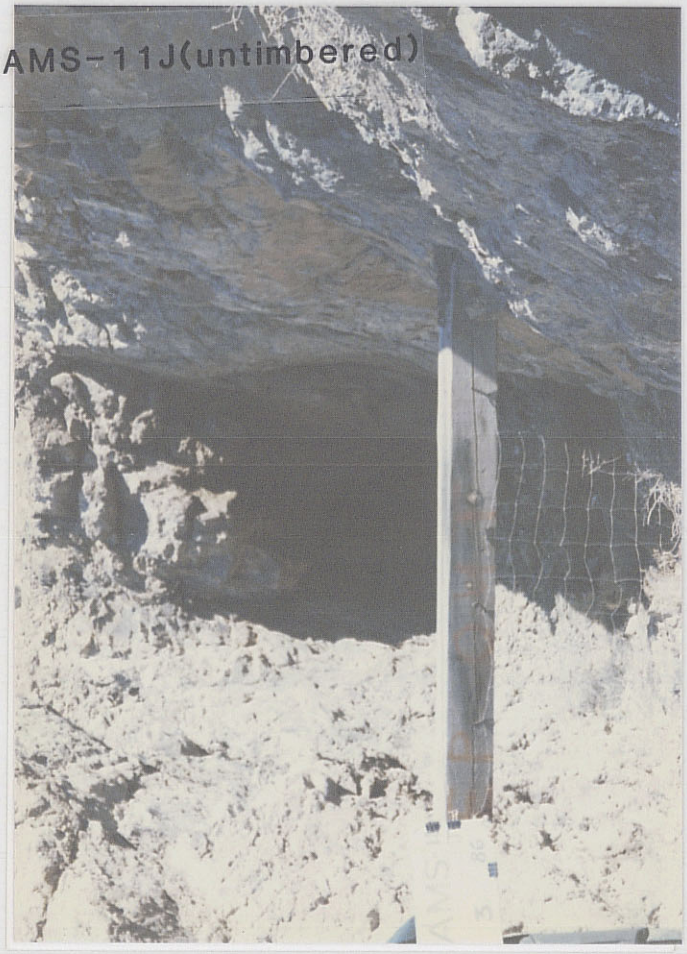
AMS-11Q

AMS-11R

AMS-11S


AMS-11I


AMS-11J(timbered)


AMS-11J(untimbered)


AMS-A11K


AMS-11M
AMS-11M
3/86


AMS-11L

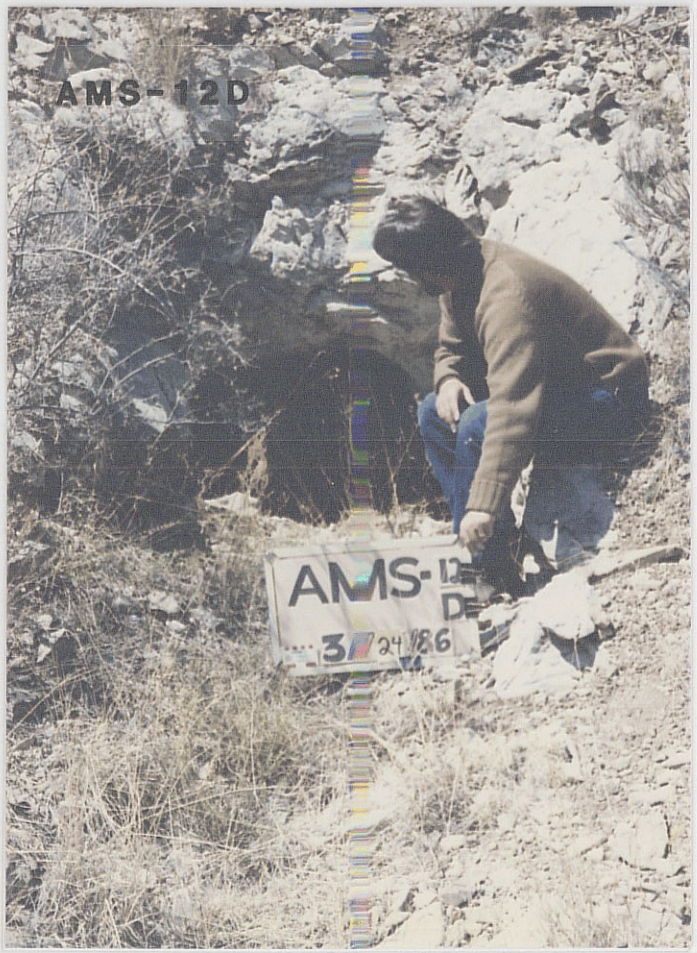

AMS-11"O"
AMS-11
3/86


AMS-11N


AMS-12A
AMS-12A
3/ /86

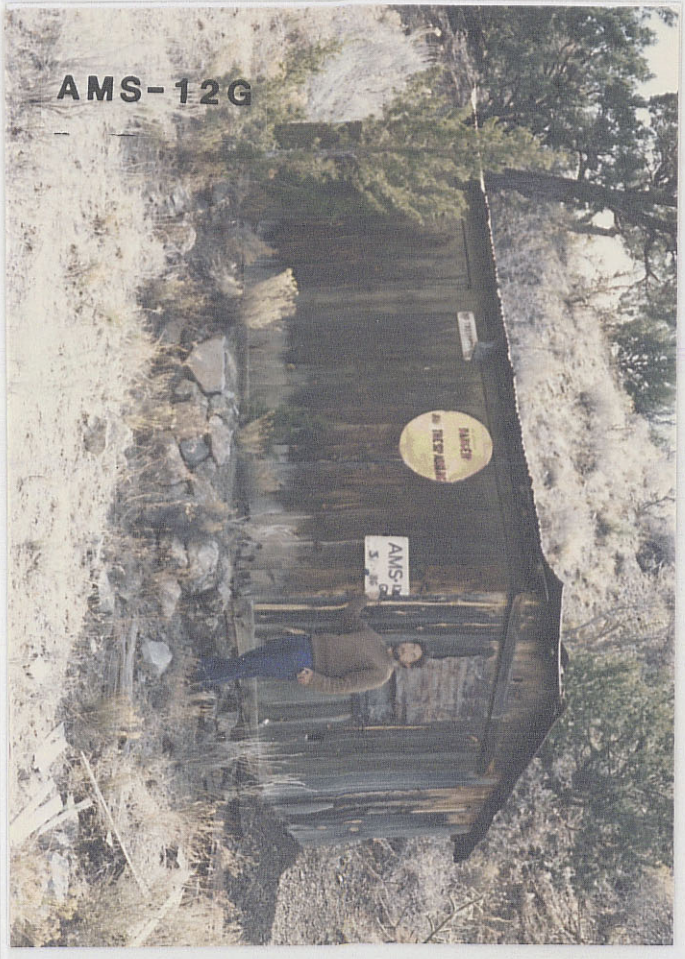

AMS-12B


AMS-12C


AMS-12D
AMS-12
3/24/86


AMS-12F(frame 6)


AMS-12E
MOCKING BIRD
KEEP
OUT
AMS-
3/


AMS-12G
AMS-


AMS-12F(frame 7)


AMS-12J

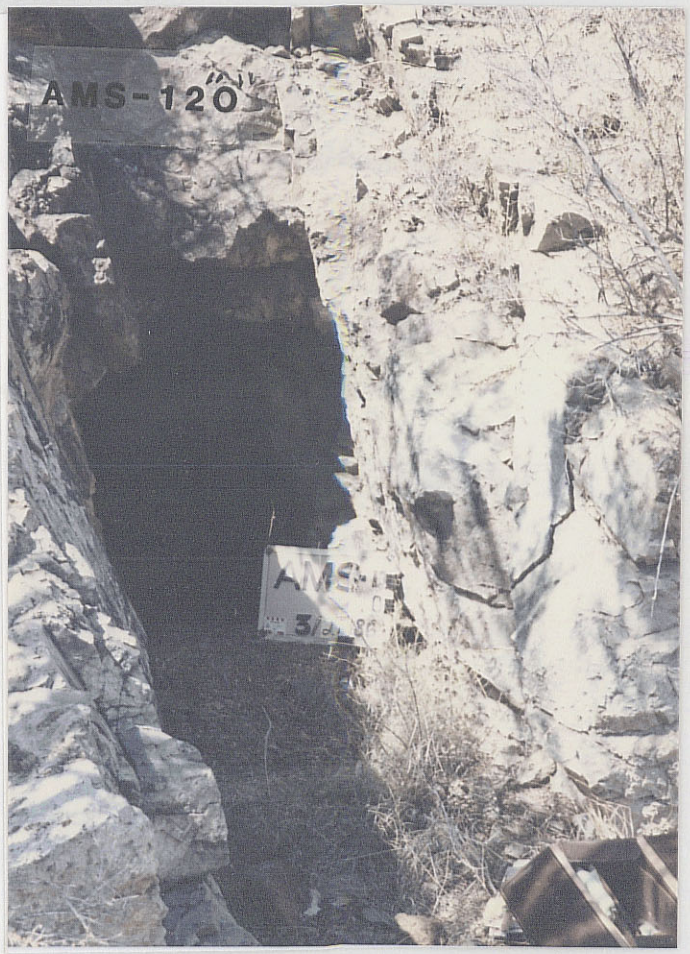

AMS-12H

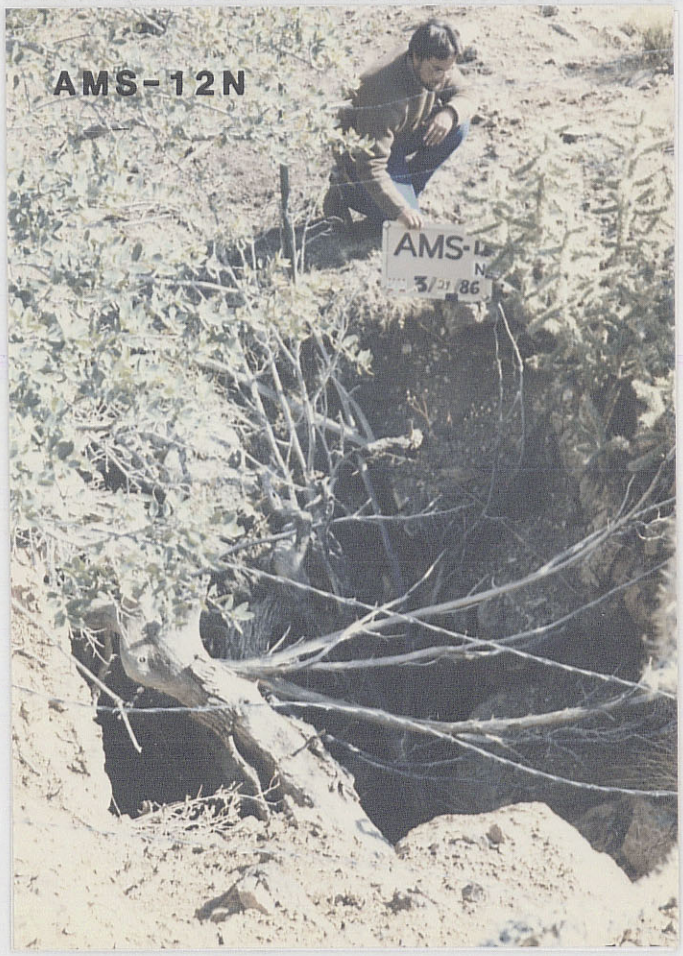

AMS-12K

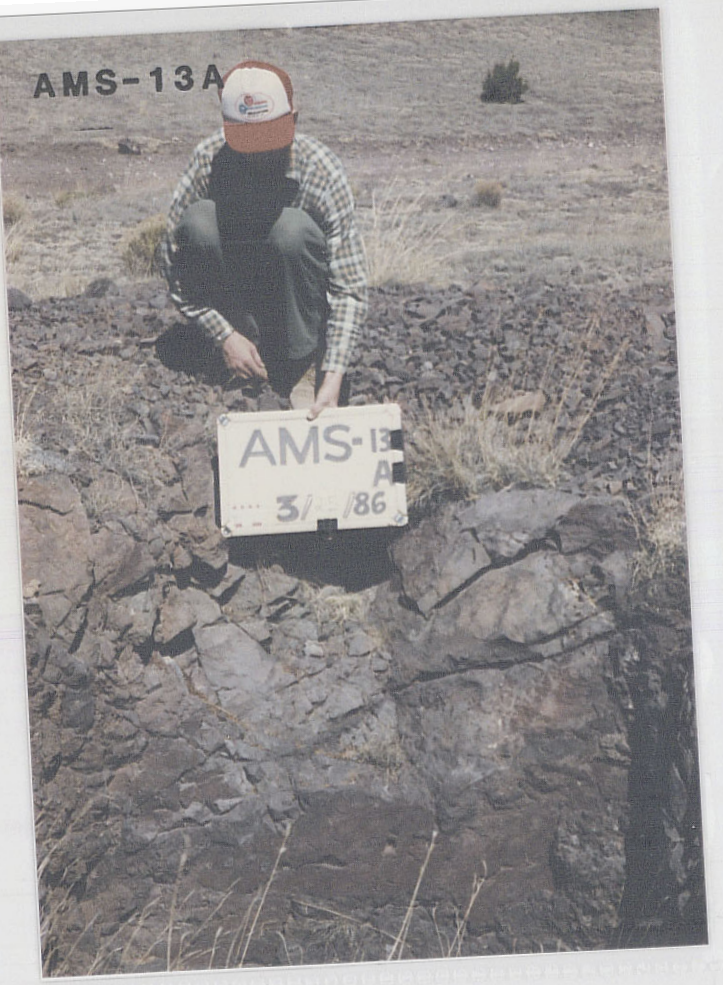

AMS-12I
AMS-
3/21/86


AMS-12M


AMS-12L


AMS-12O

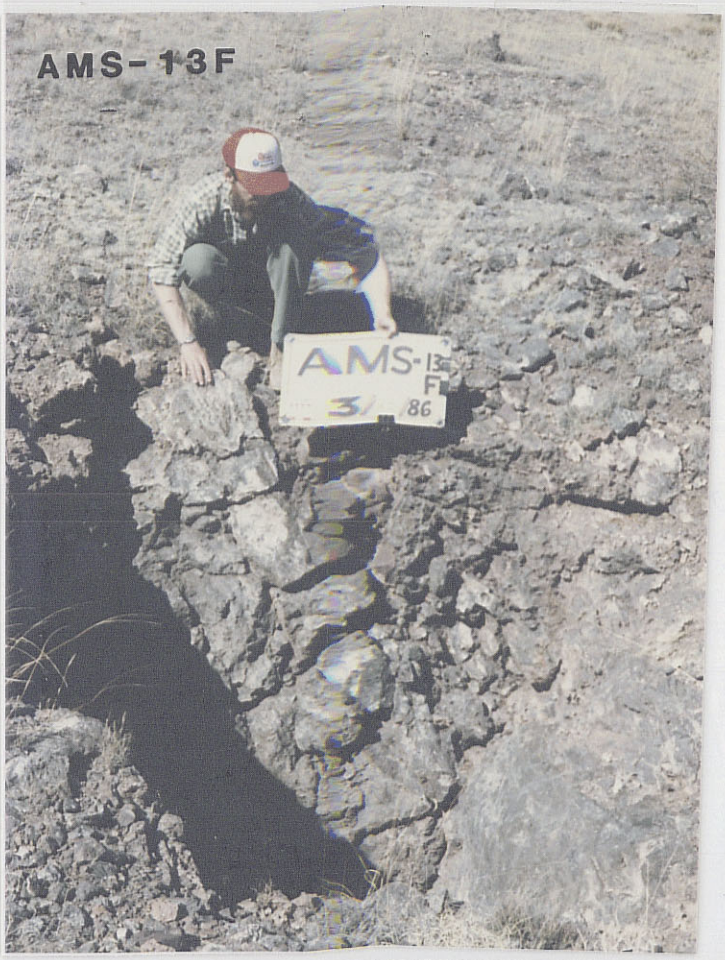

AMS-12N

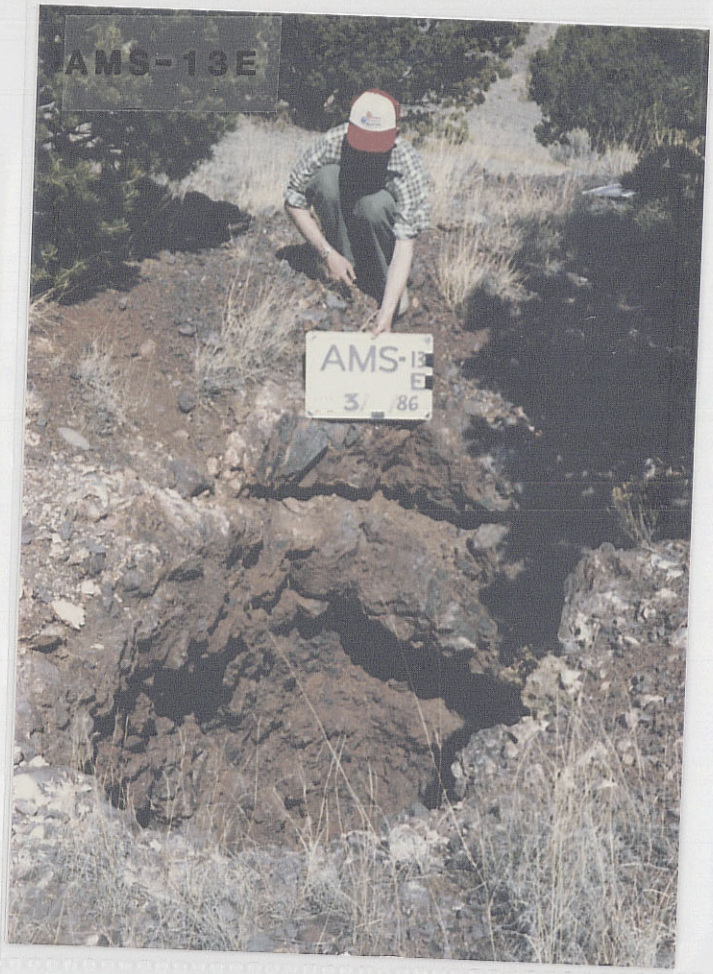

AMS-13A
AMS-13
A
3/ /86


AMS-13B
AMS-13
B
3/ /86

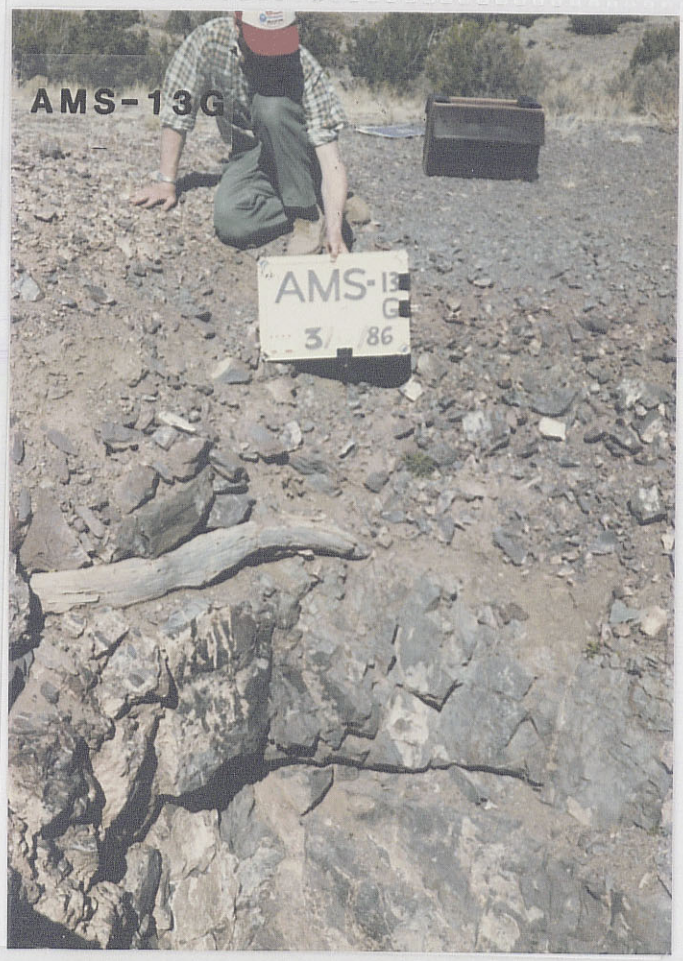

AMS-13C


AMS-13D
AMS-13
D
3/ /86

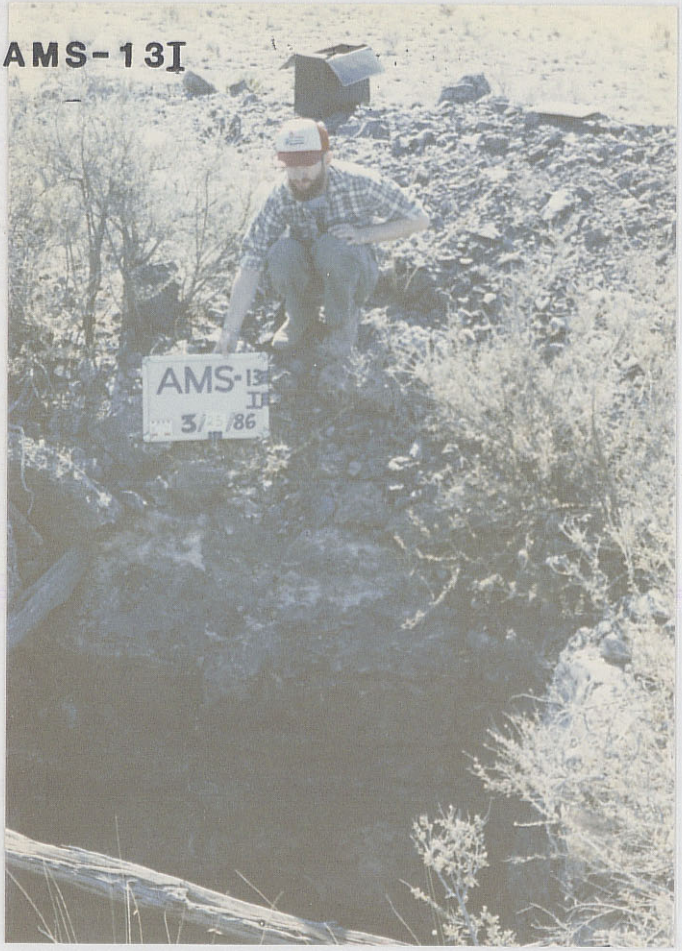

AMS-13F
AMS-13
F
3/ 86


AMS-13E
AMS-13
E
3/ 86


AMS-13H
AMS-13
H
3/ 86


AMS-13G
AMS-13
G
3/ 86

AMS-13I



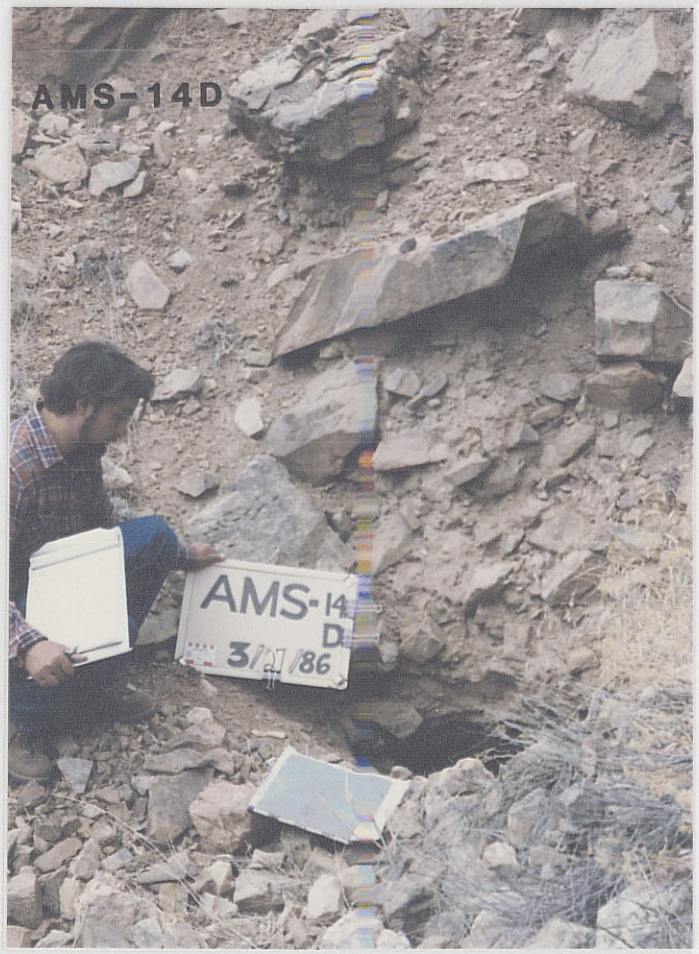
AMS-13J

AMS-13K


AMS-14A
AMS-14 A
3/11/86


AMS-14B
AMS-14 B
3/11/86


AMS-14C
AMS-14 C
3/11/86


AMS-14D
AMS-14 D
3/11/86

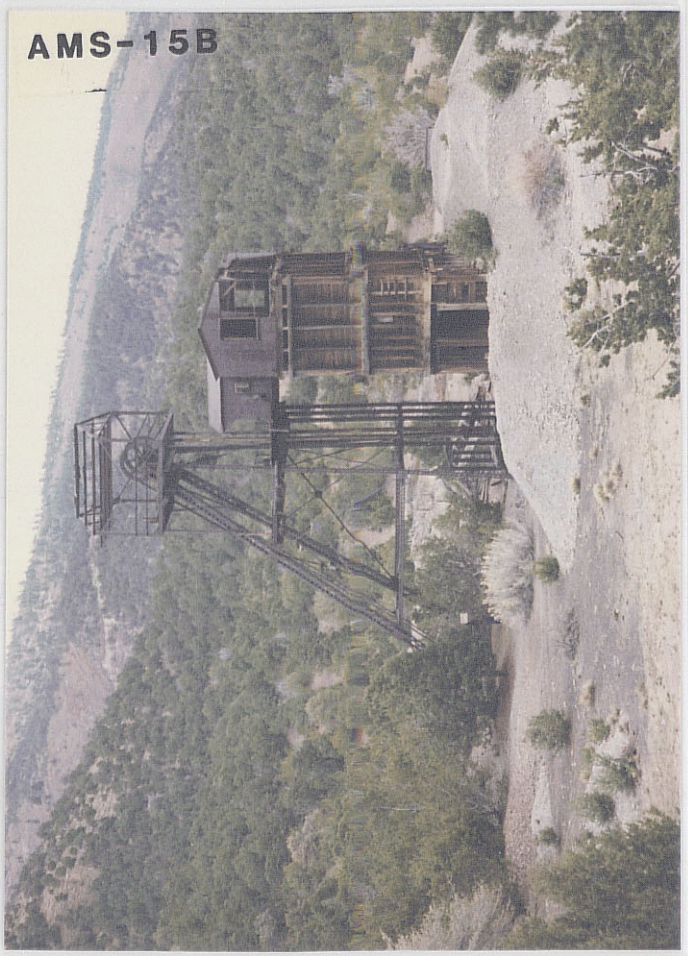

AMS-14F


AMS-14E


AMS-14H
AMS-14
H
3/27/86


AMS-14G


AMS-15A
AMS-15
A
4/1/86


AMS-15B


AMS-15C


AMS-15D

AMS-15E

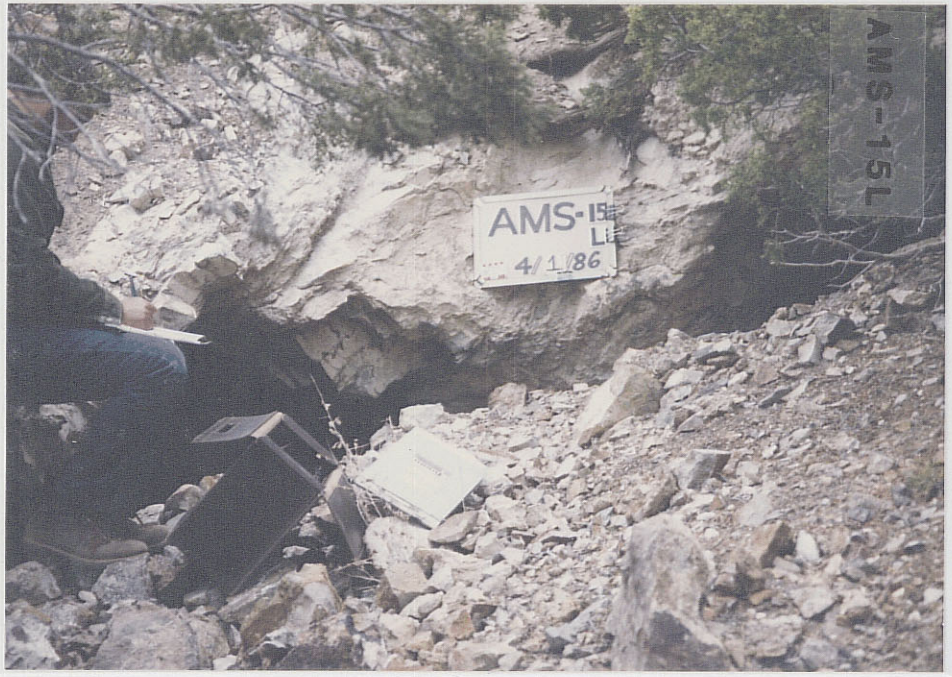
AMS-15G

AMS-15F

AMS-15H


AMS-15K

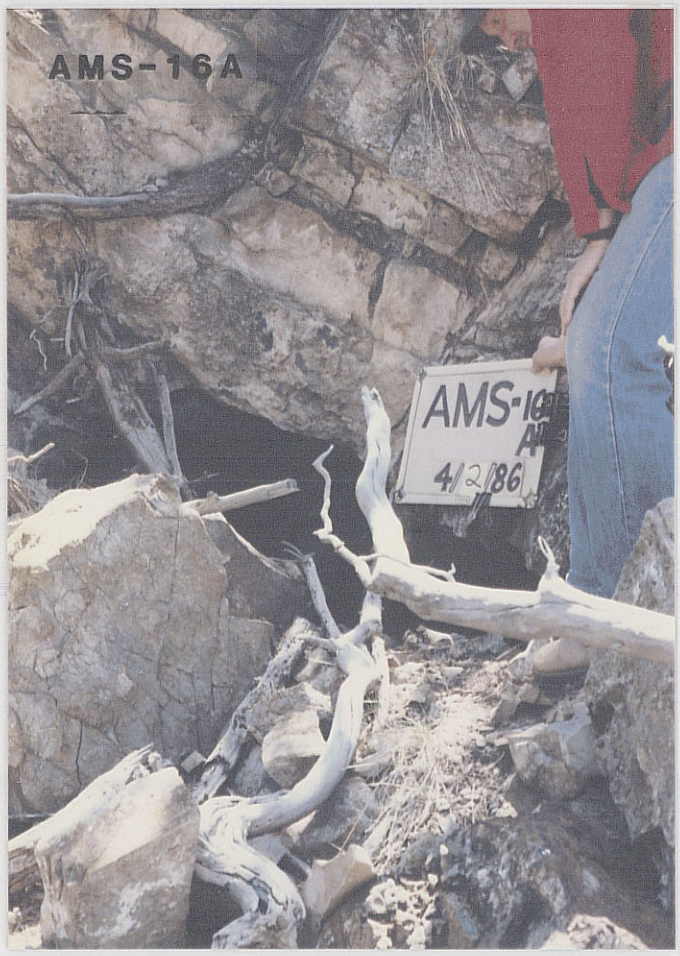

AMS-15I
AMS-
4/1/86


AMS-15L
AMS-15
4/1/86


AMS-15J

AMS-15M
AMS-15
4/1/86

AMS-15N


AMS-16A
AMS-16A
4/2/86


AMS-16B(frame30)
AMS-16B
4/2/86

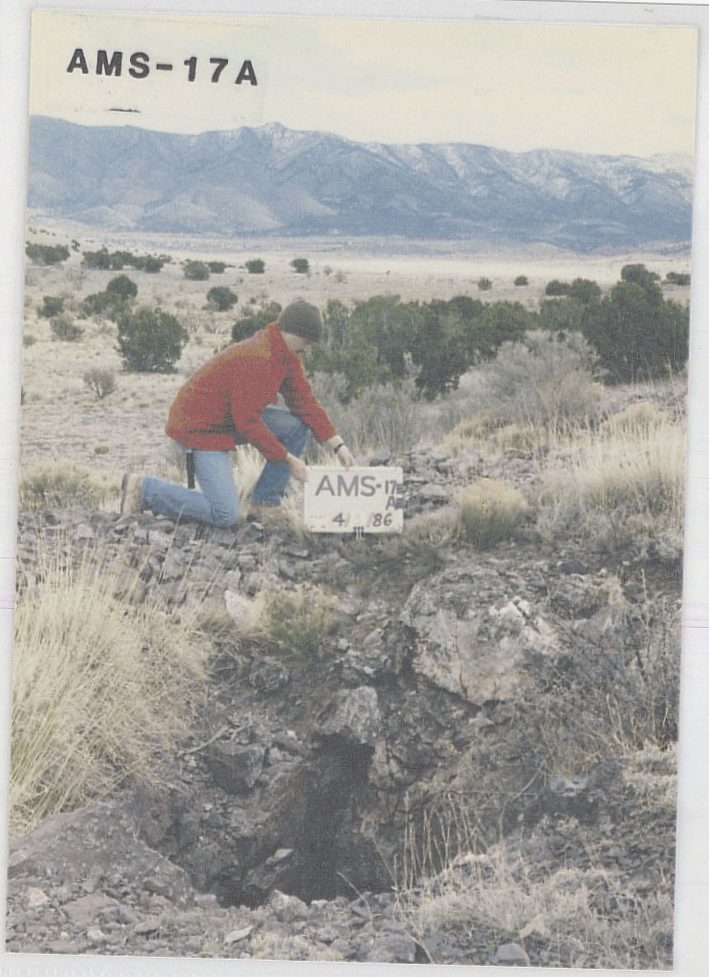

AMS-16B(frame 31)


AMS-16C
AMS-16C
4/2/86


AMS-16D


AMS-16E

AMS-17A

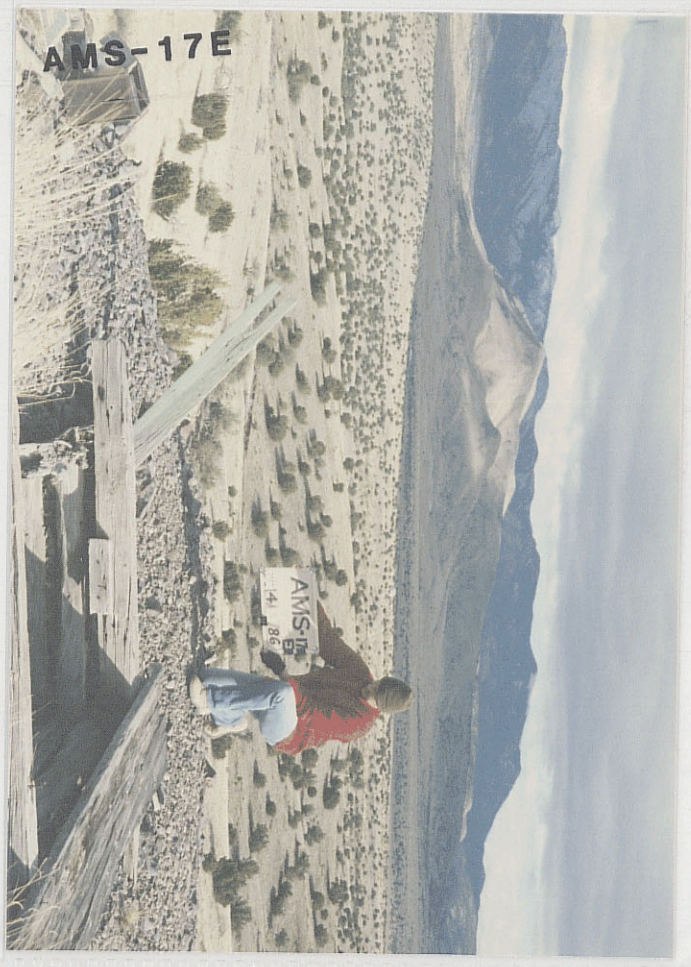


AMS-17B

AMS-17C

AMS-17D


AMS-17F

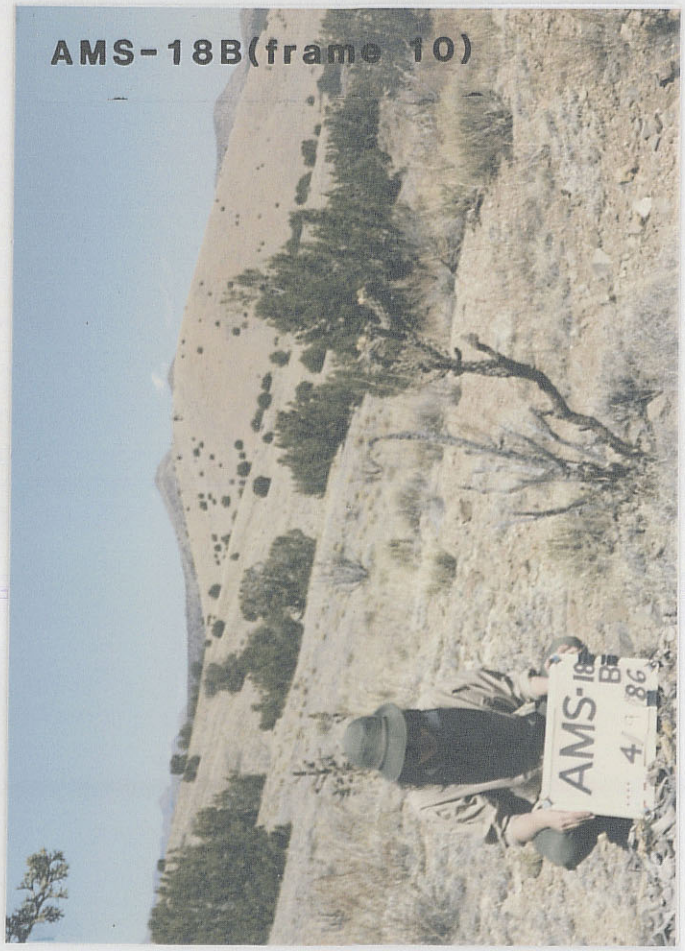

AMS-17E


AMS-17H


AMS-17G

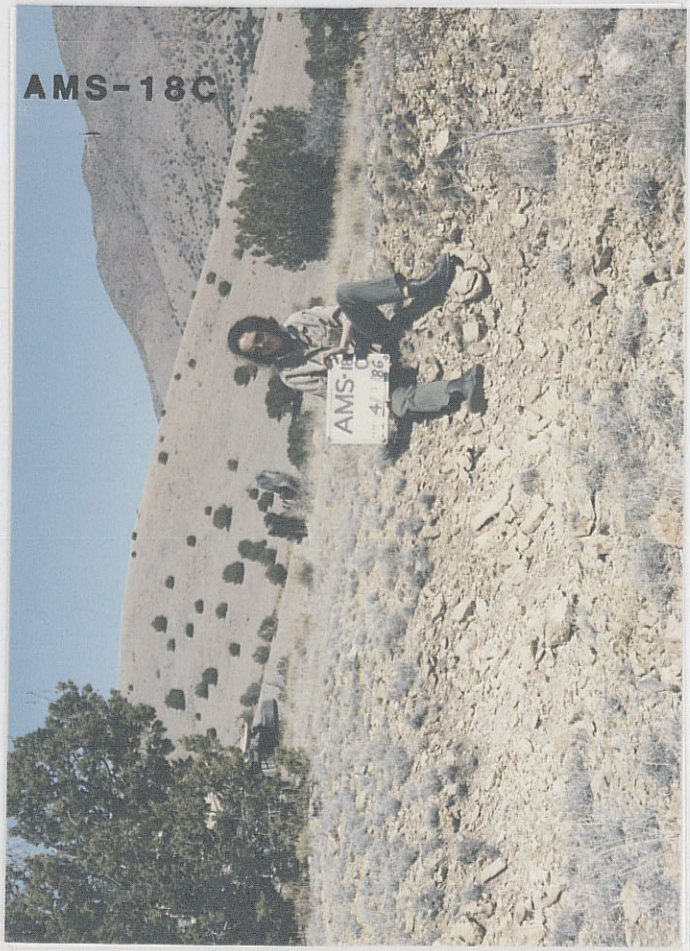
AMS-18A

AMS-18B(frame 10)



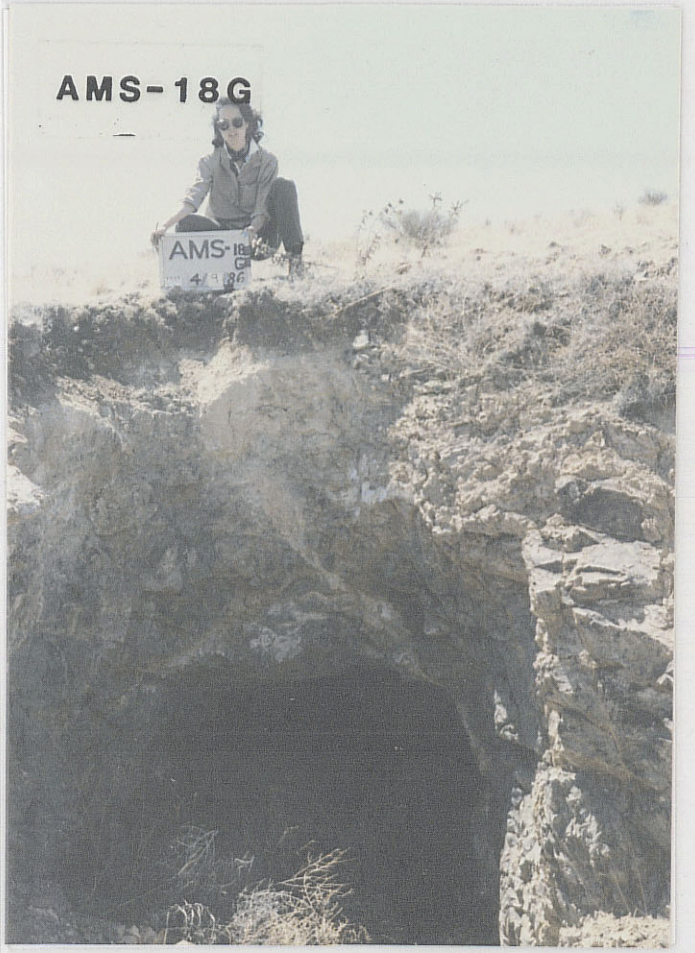
AMS-18B(frame 11)

AMS-18C

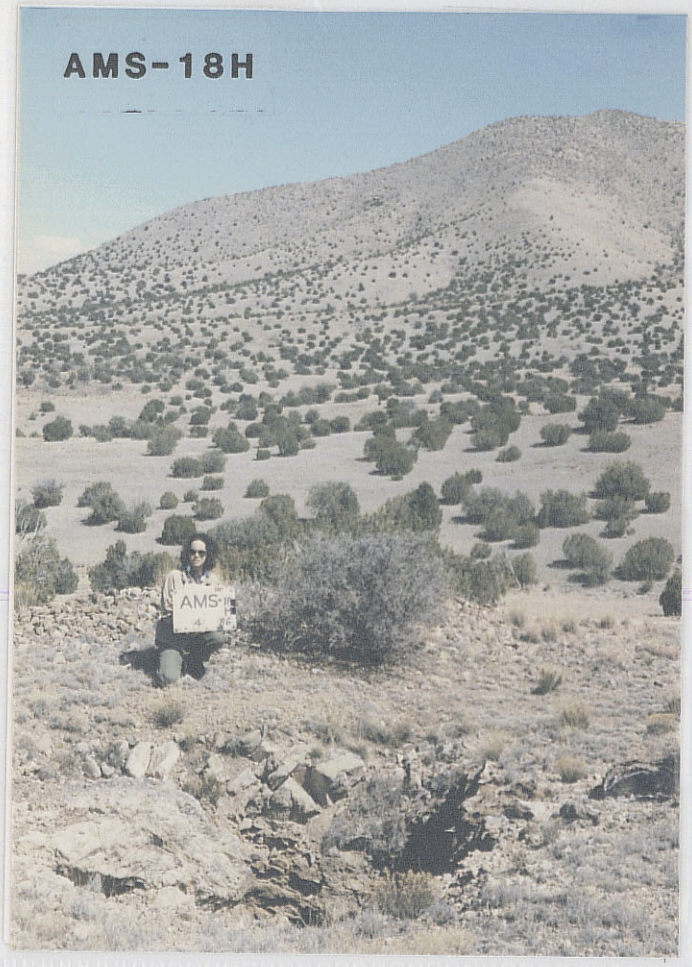



AMS-18E

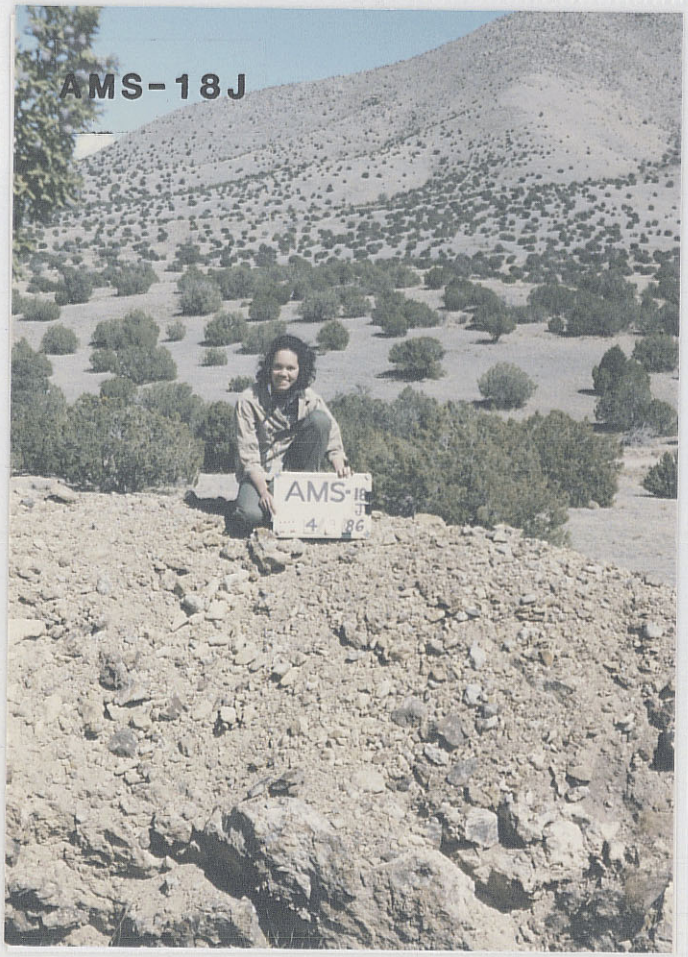

AMS-18D


AMS-18G


AMS-18F


AMS-18H


AMS-18I

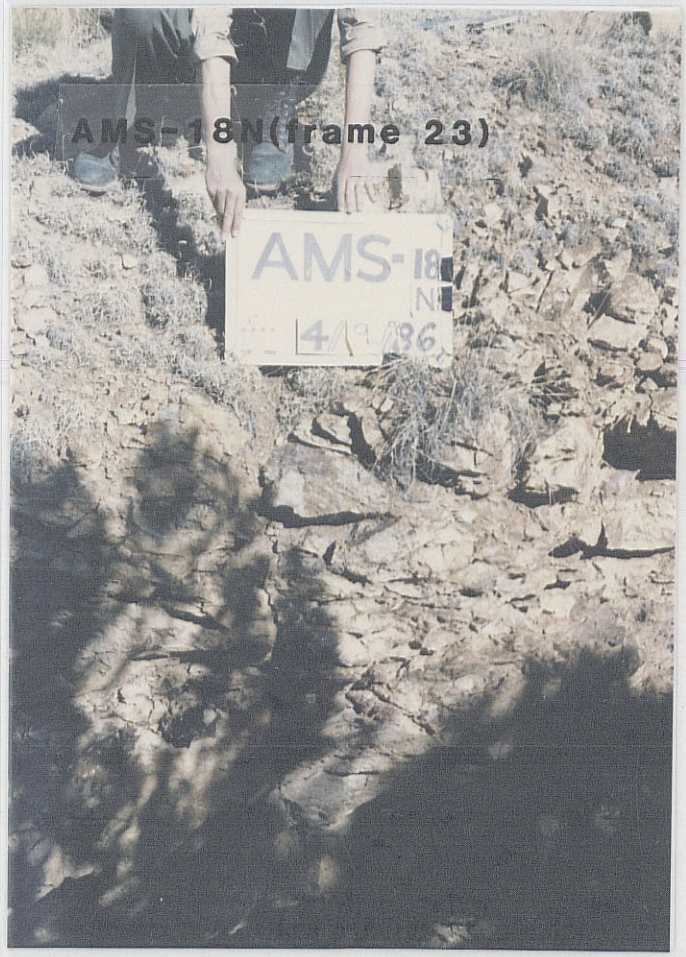

AMS-18J


AMS-18K

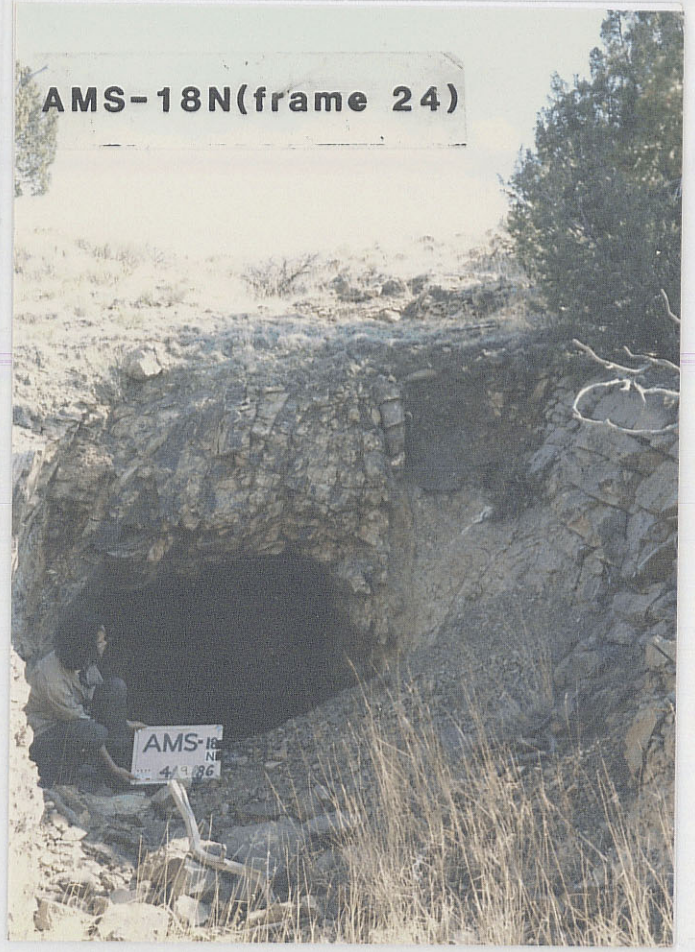
AMS-18M

AMS-18L

AMS-18N(frame 23)



AMS-18N(frame 24)

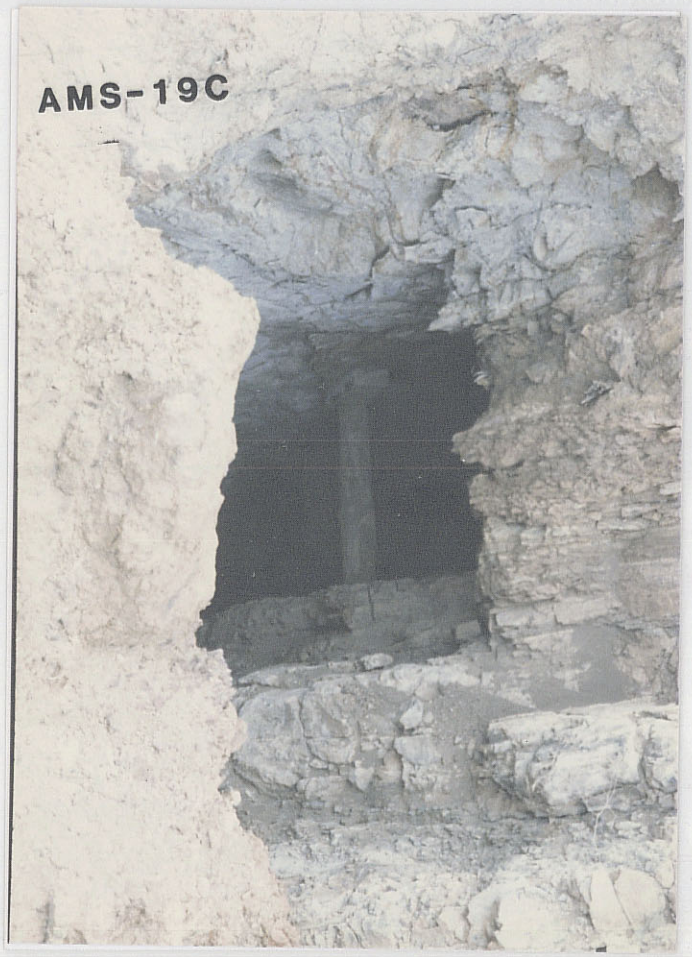



AMS-18O (frame 26)


AMS-18P


AMS-19A


AMS-19B

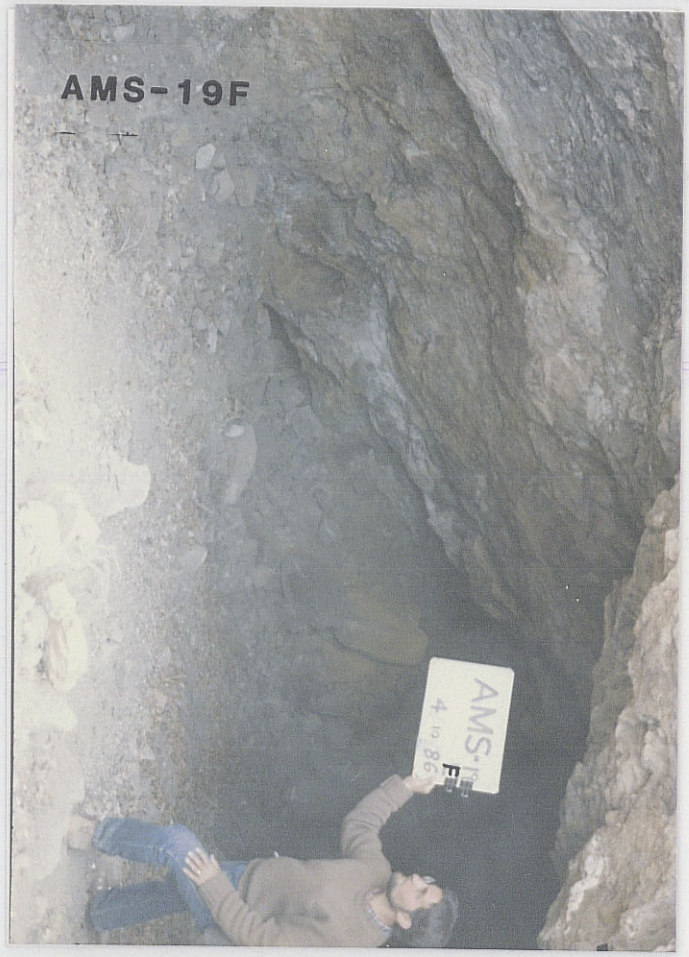

AMS-19C


AMS-19D
AMS-19D
4/10/86

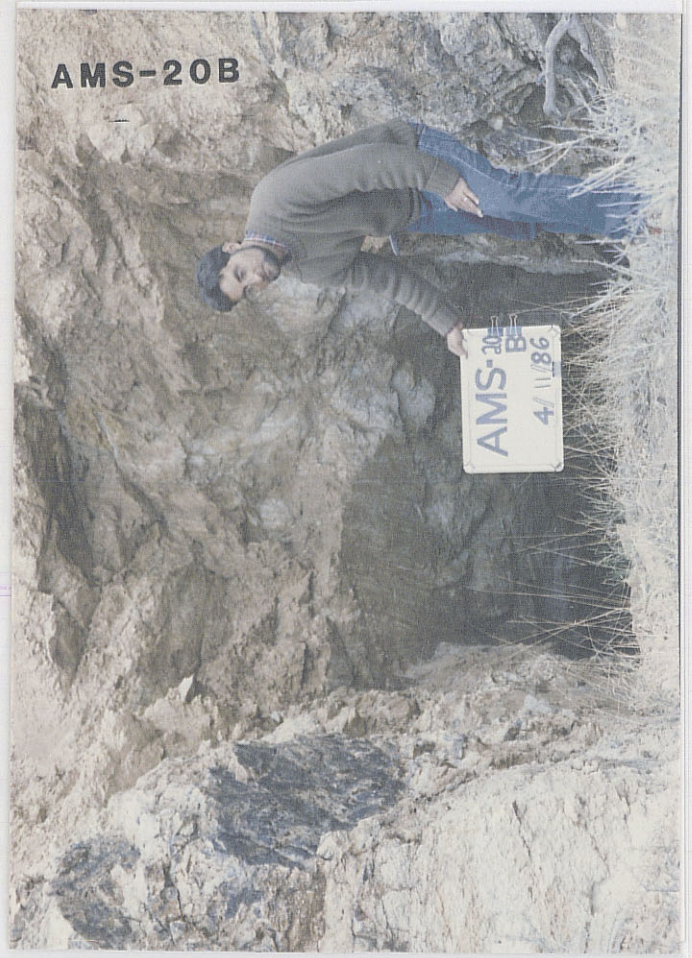

AMS-19E(frame 7)


AMS-19E(frame 6)


AMS-19G


AMS-19F

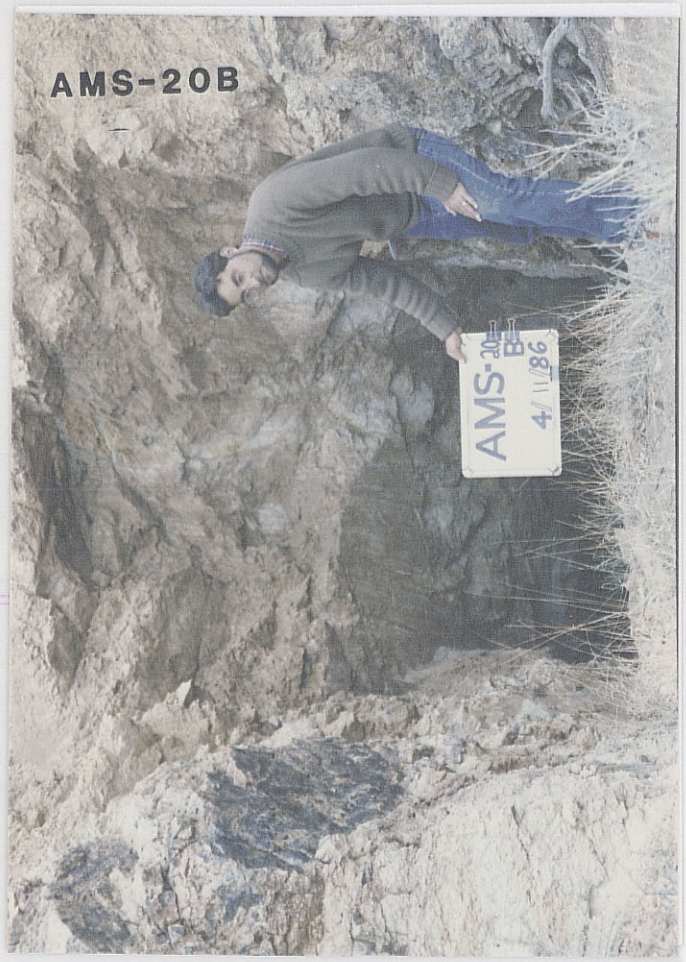

AMS-20A


AMS-20B
AMS-20B
4/11/86


AMS-20C


AMS-20D
AMS-20D
4/11/86

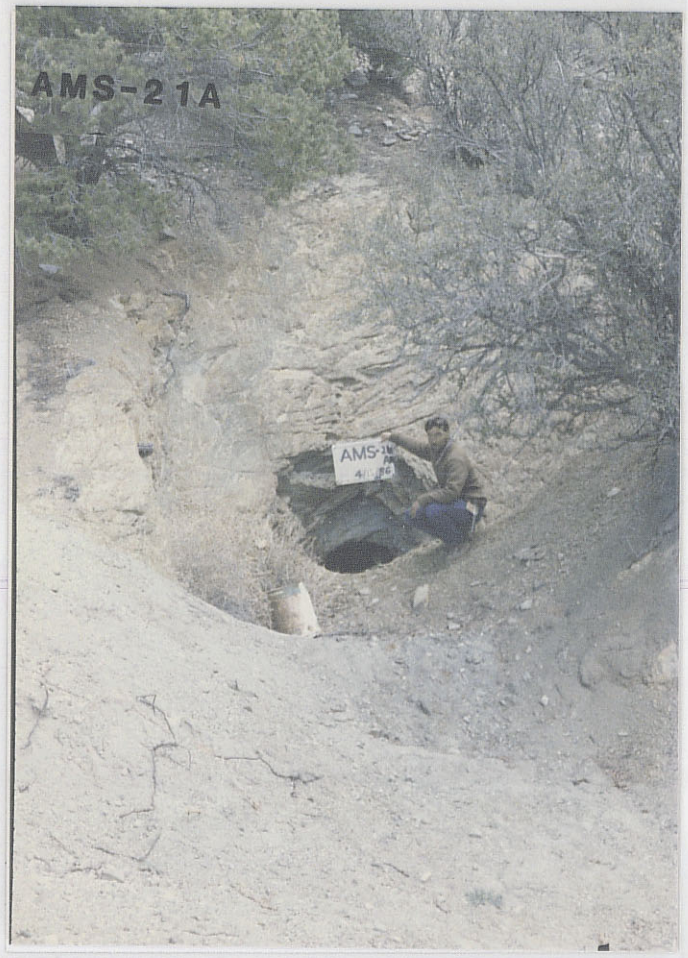

AMS-20A

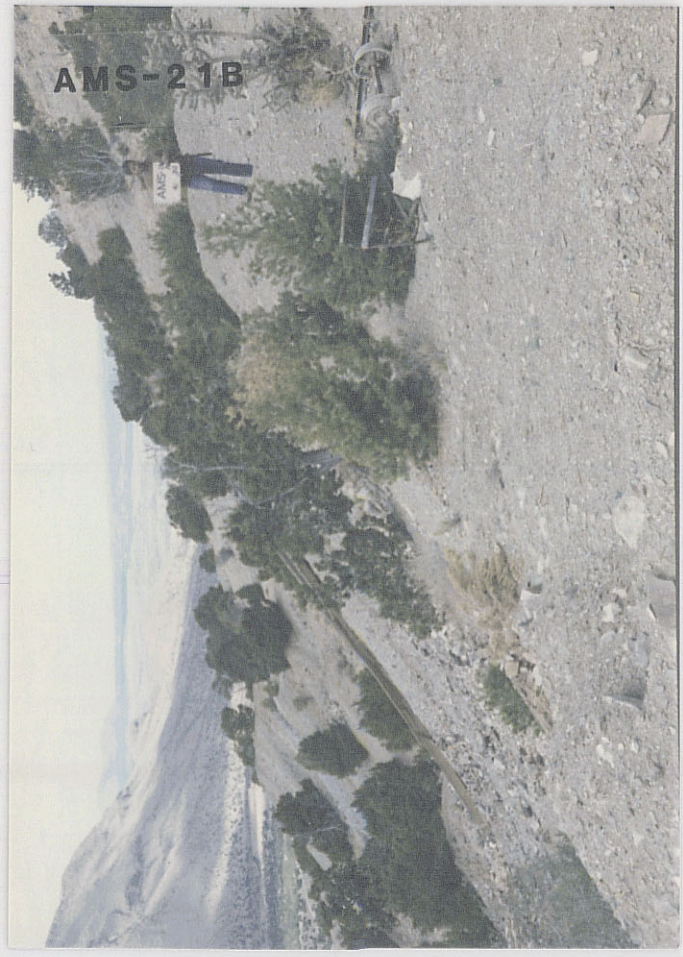

AMS-20B
AMS-20B
4/11/86

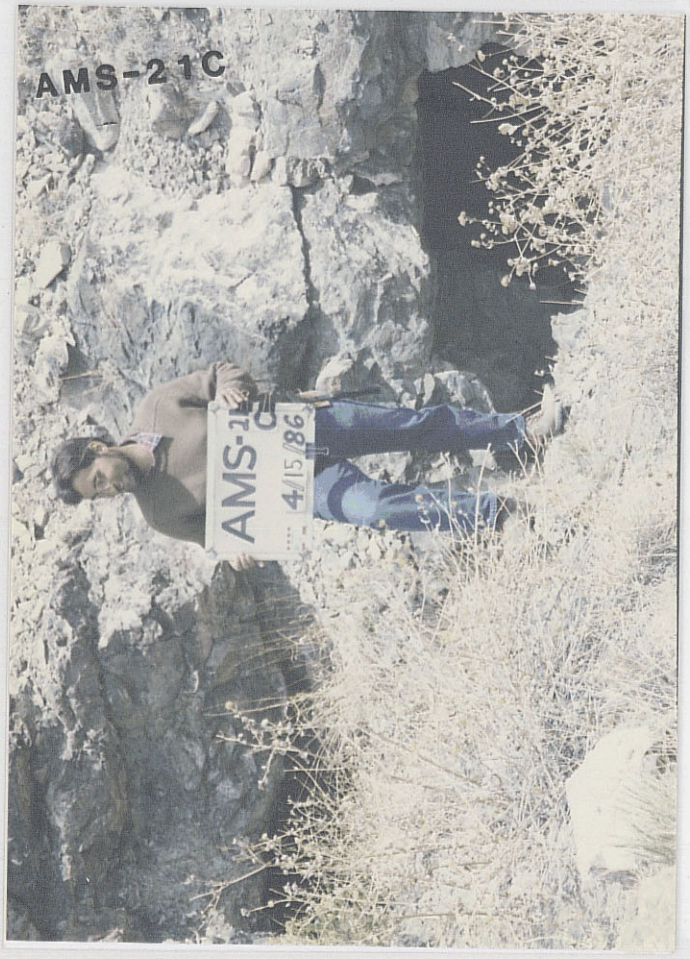

AMS-20C


AMS-20D
AMS-20D
4/11/86

AMS-2
AMS-2 01

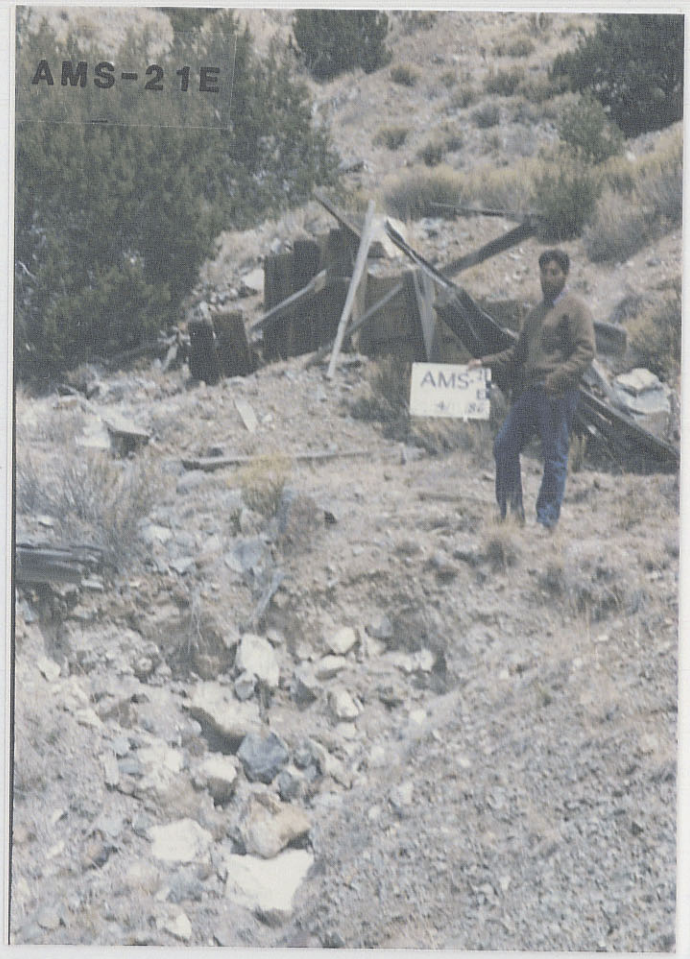

AMS-21A

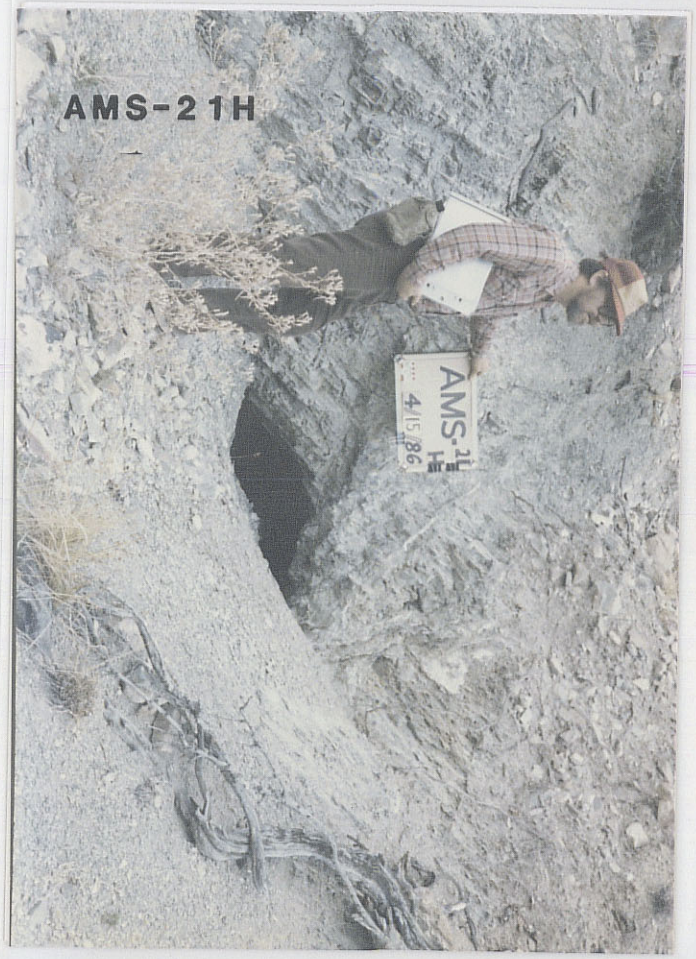

AMS-21B

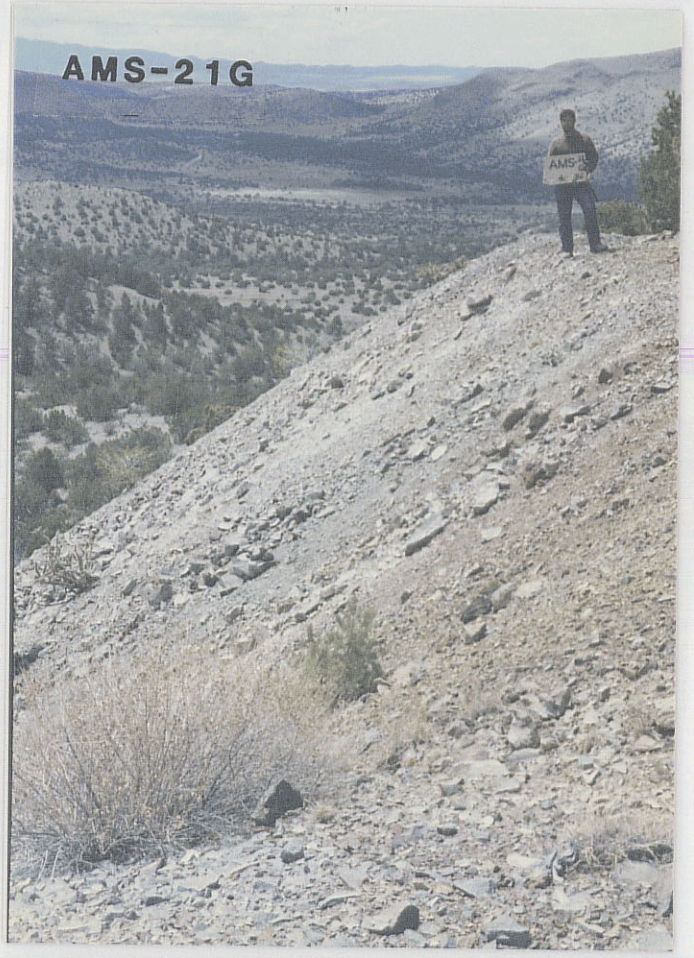

AMS-21C

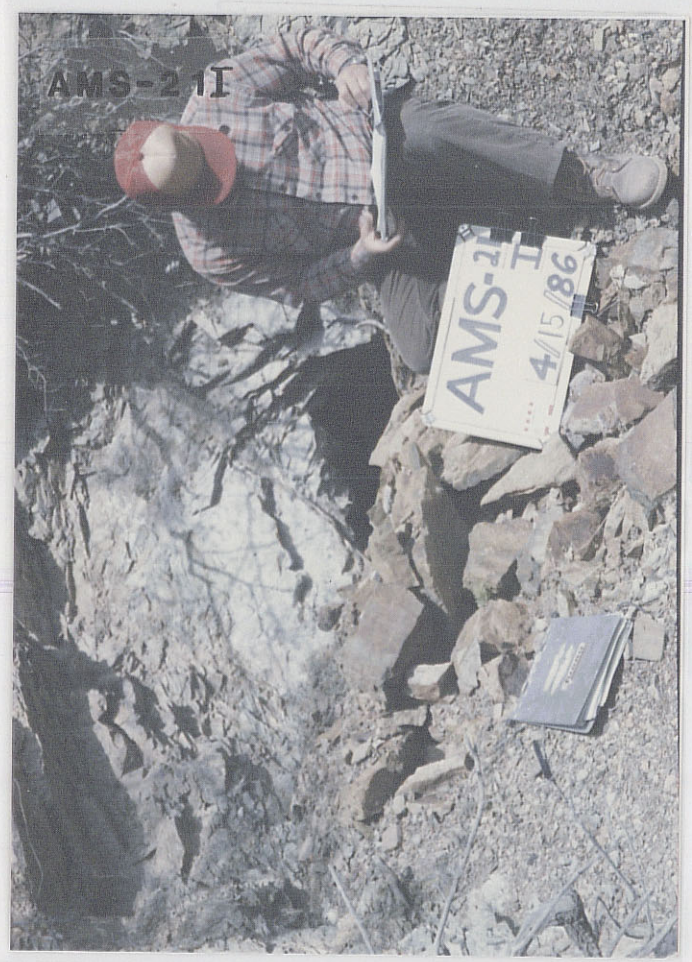

AMS-21D

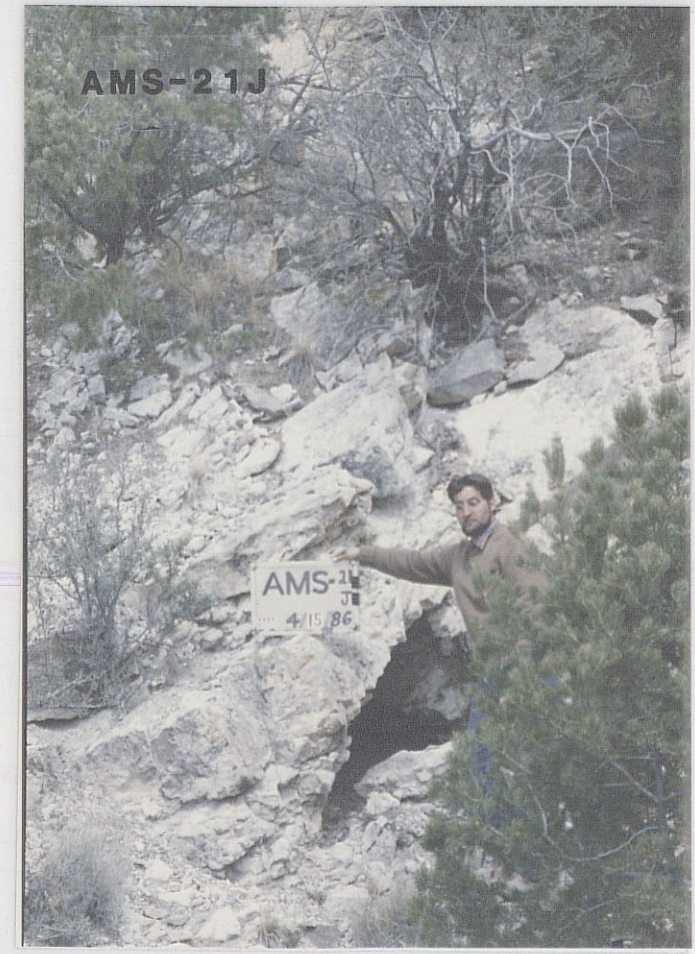

AMS-21F

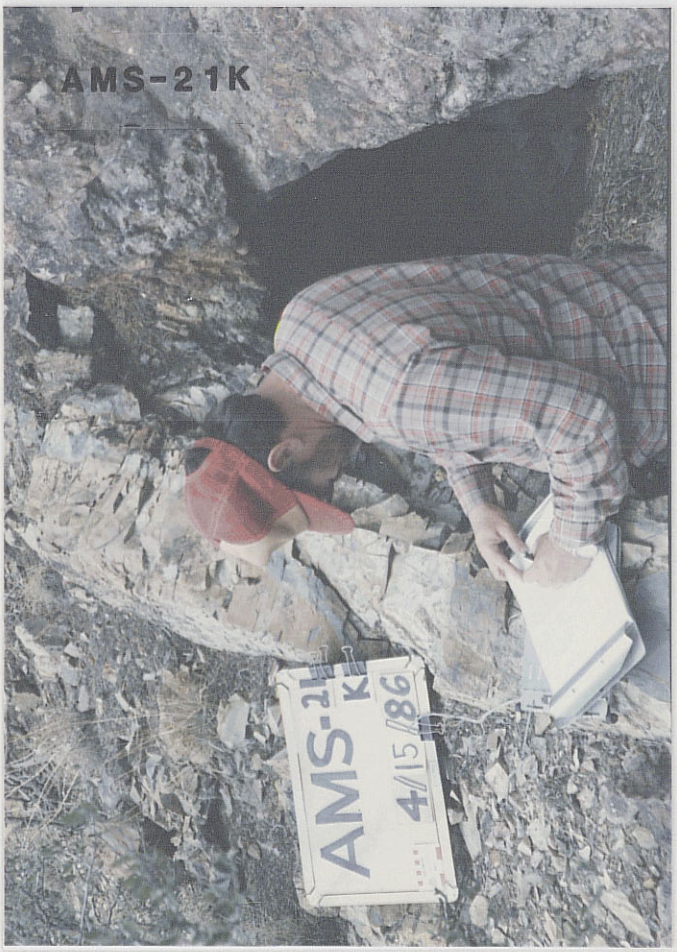

AMS-21E


AMS-21H

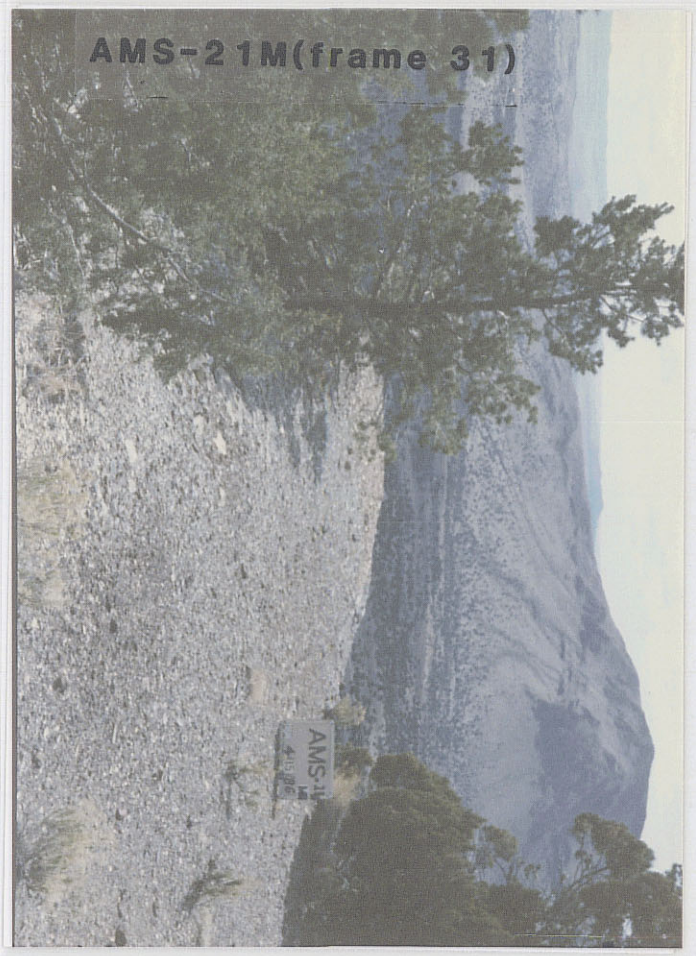

AMS-21G


AMS-21I
AMS-21
I
4/15/86


AMS-21J
AMS-21
J
4/15/86


AMS-21K
AMS-21
K
4/15/86


AMS-21L
AMS-21
L
4/15/86

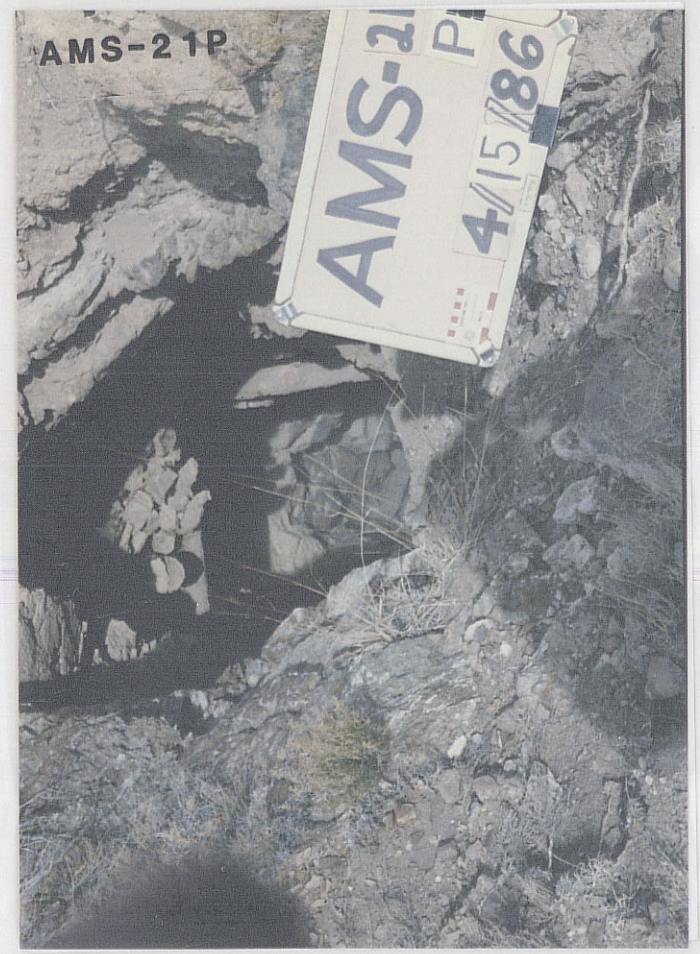

AMS-21M(frame 31)


AMS-21M(frame 30)
4/15/86


AMS-21"O"


AMS-21N

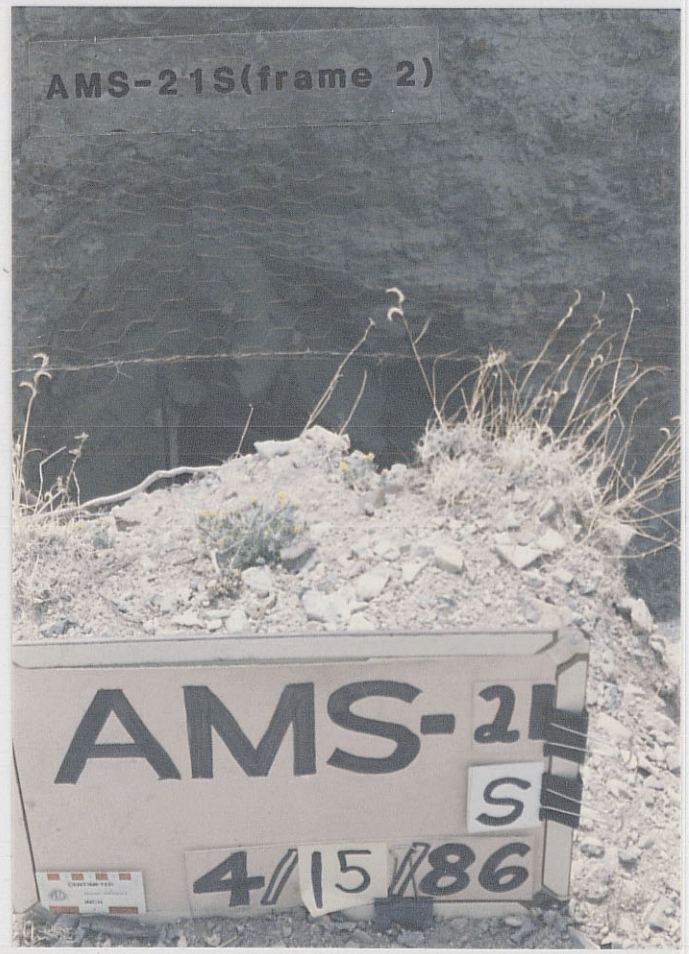
AMS-21P

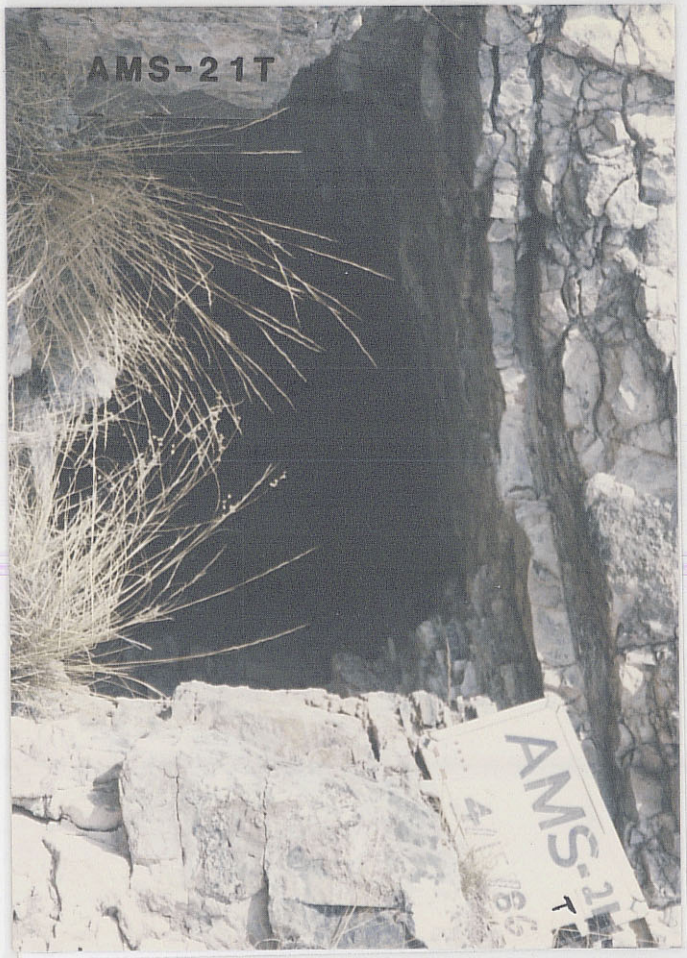


AMS-21Q

AMS-21R

AMS-21S(frame 2)

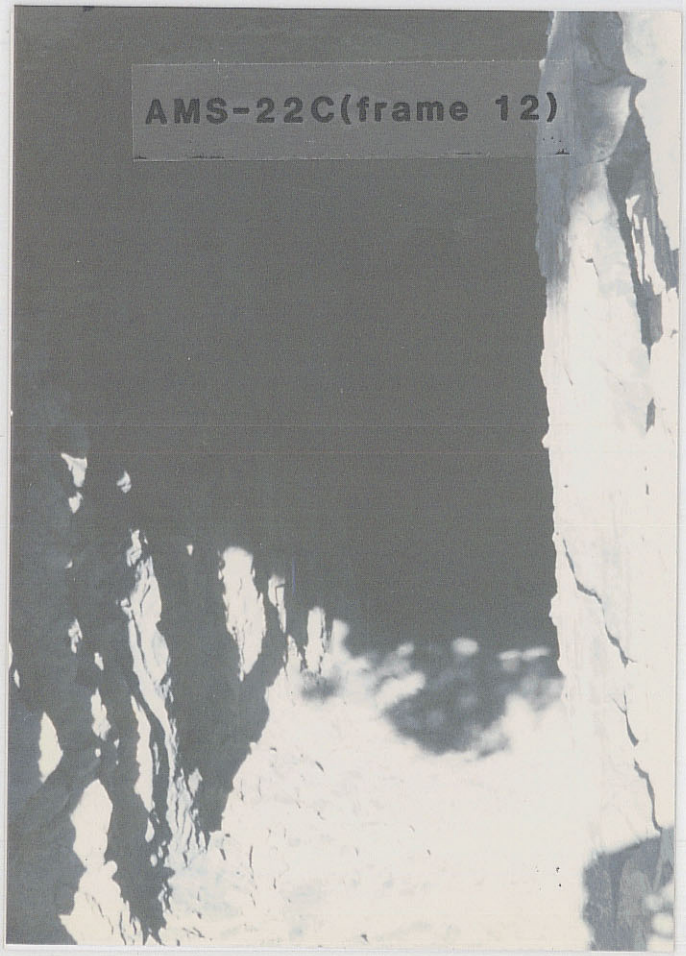


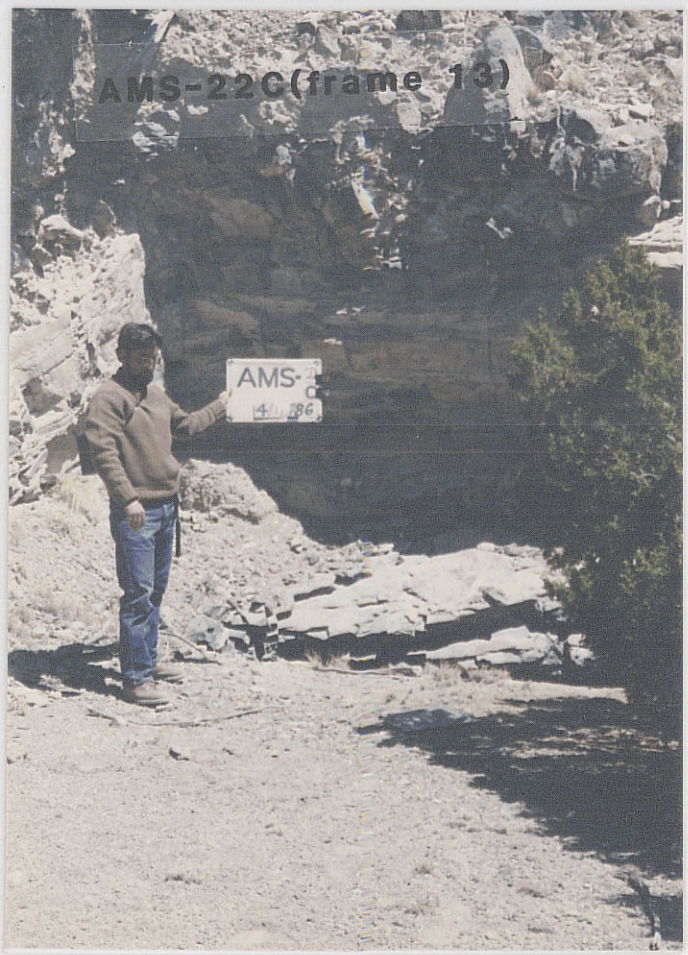

AMS-21T
AMS-21

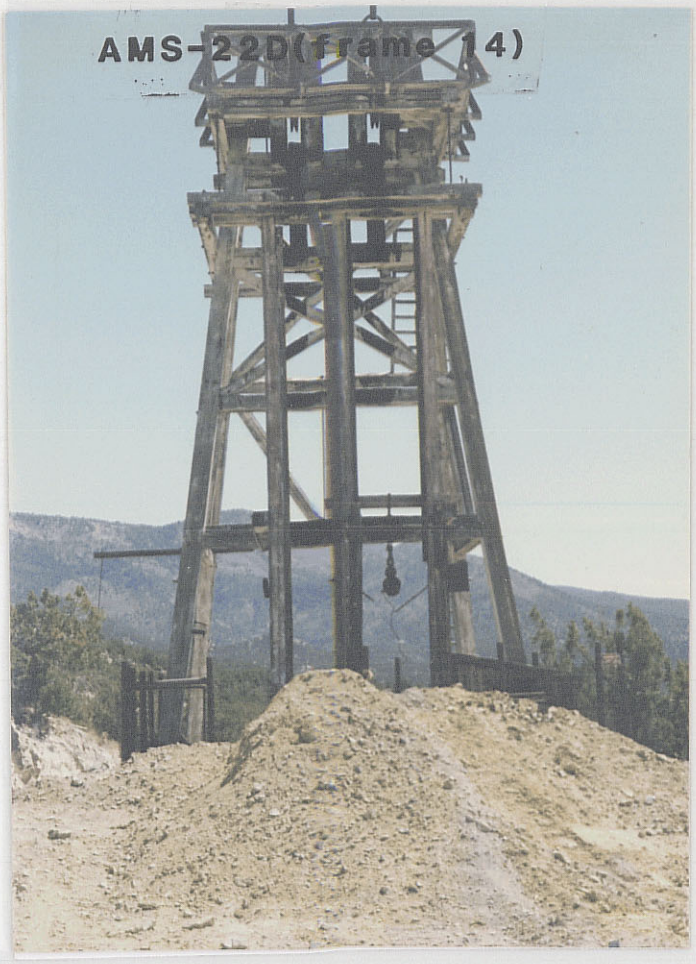

AMS-21S(frame 3)

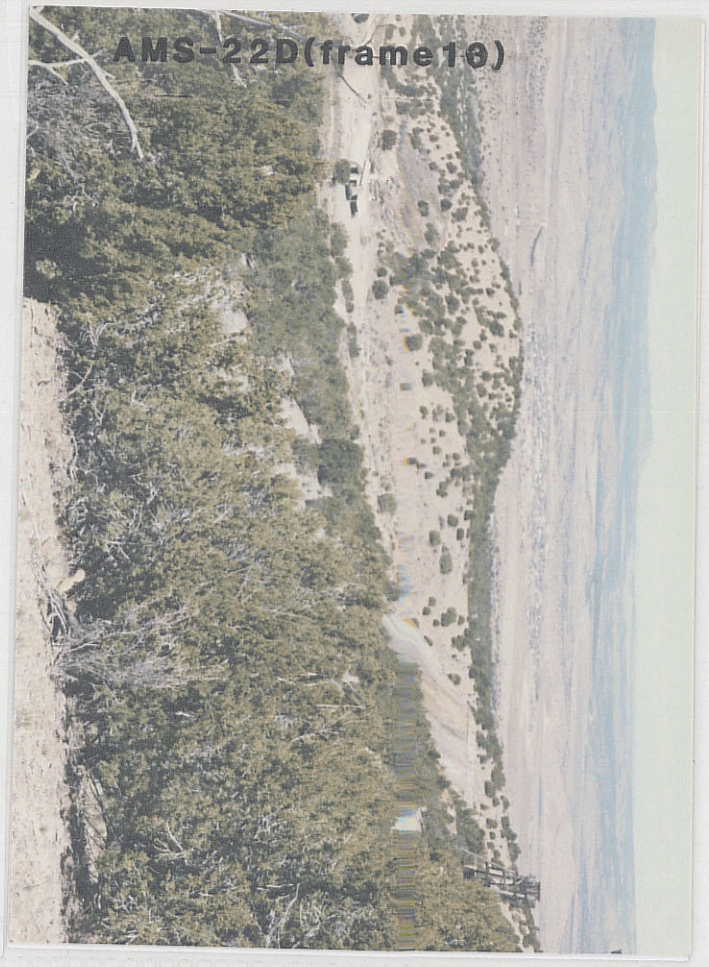

AMS-22A(frame 5)

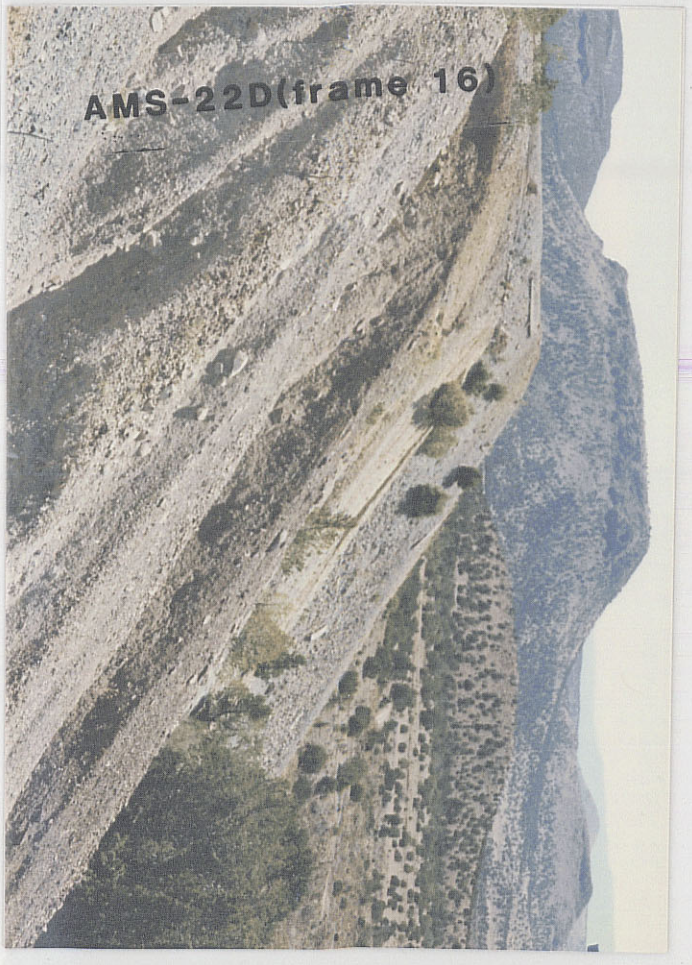

AMS-22B(frame 7)


AMS-22C(frame 12)

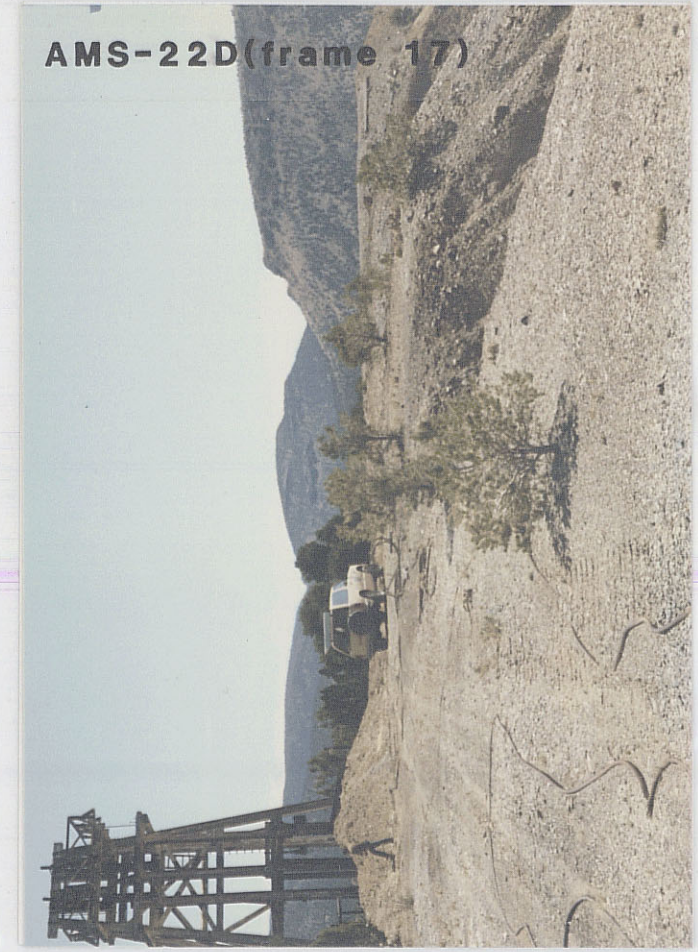

AMS-22C(frame 13)


AMS-22D(frame 14)


AMS-22D(frame16)


AMS-22D(frame 16)


AMS-22D(frame 15)


AMS-22D(frame 17)


AMS-22D(frame 18)


AMS-22E(frame 23)


AMS-22F(frame 25)

AMS-22F(frame 26)

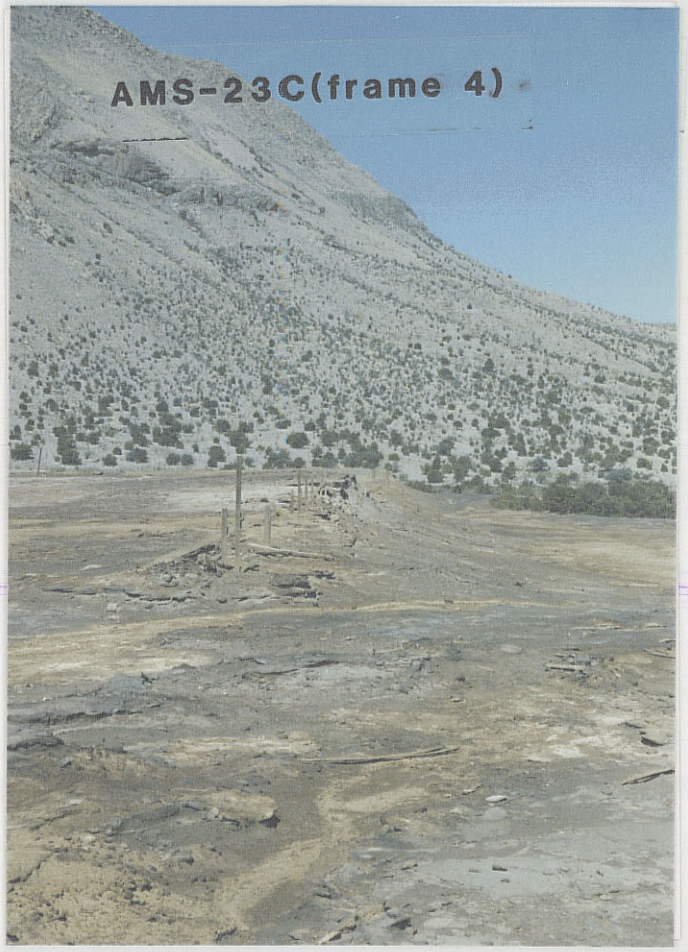
AMS-22G(frame 27)

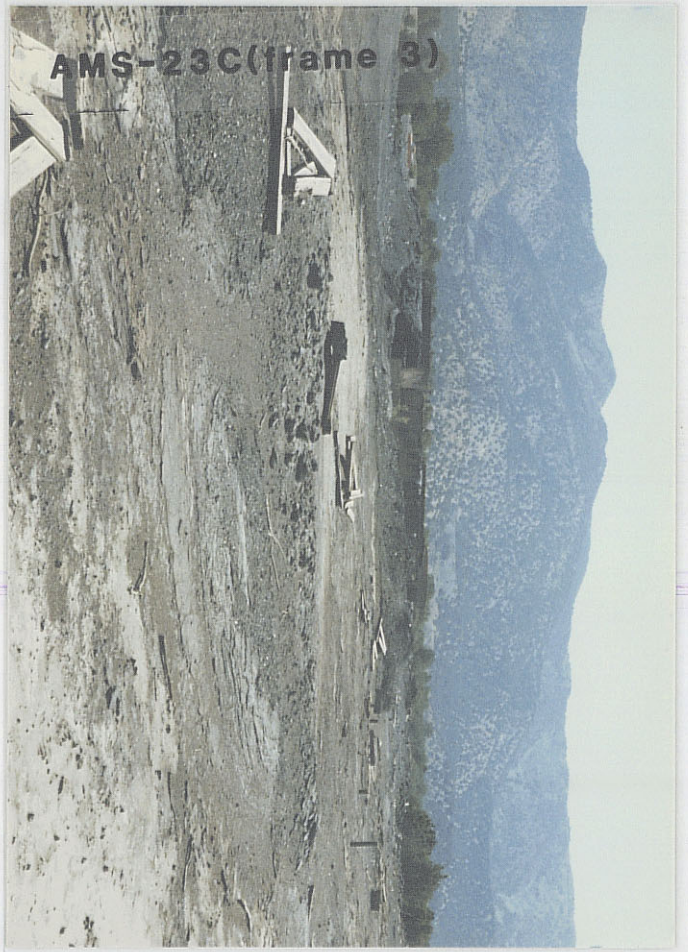
AMS-23A(frame 29)

AMS-23B(frame 32)

AMS-23B(frame 31)

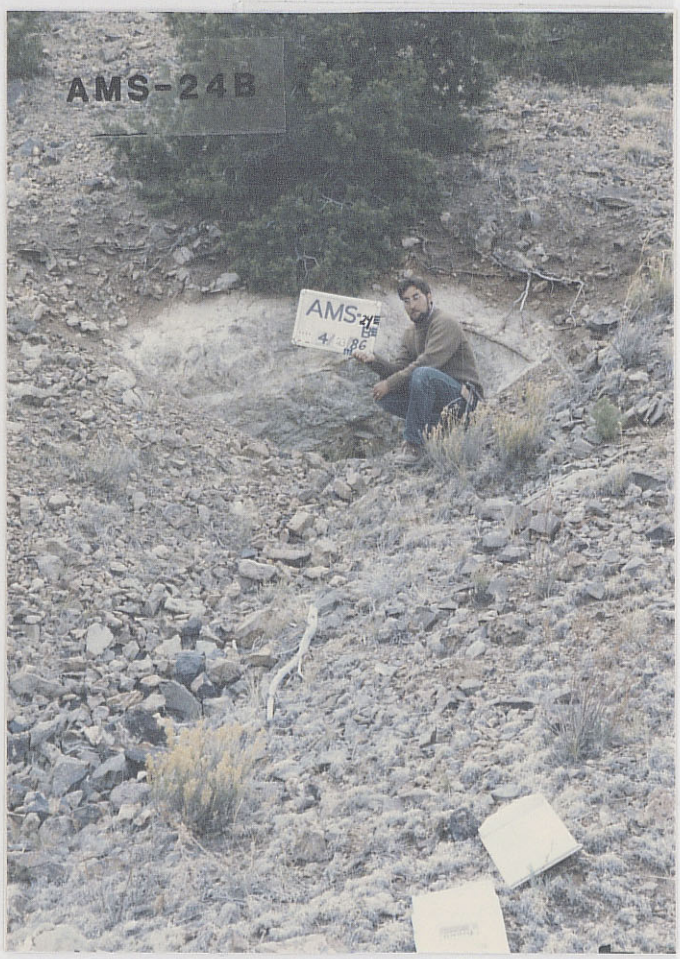
AMS-23C(frame 2)





AMS-23C (frame 2)
6/5/86
Roll 14


AMS-24A

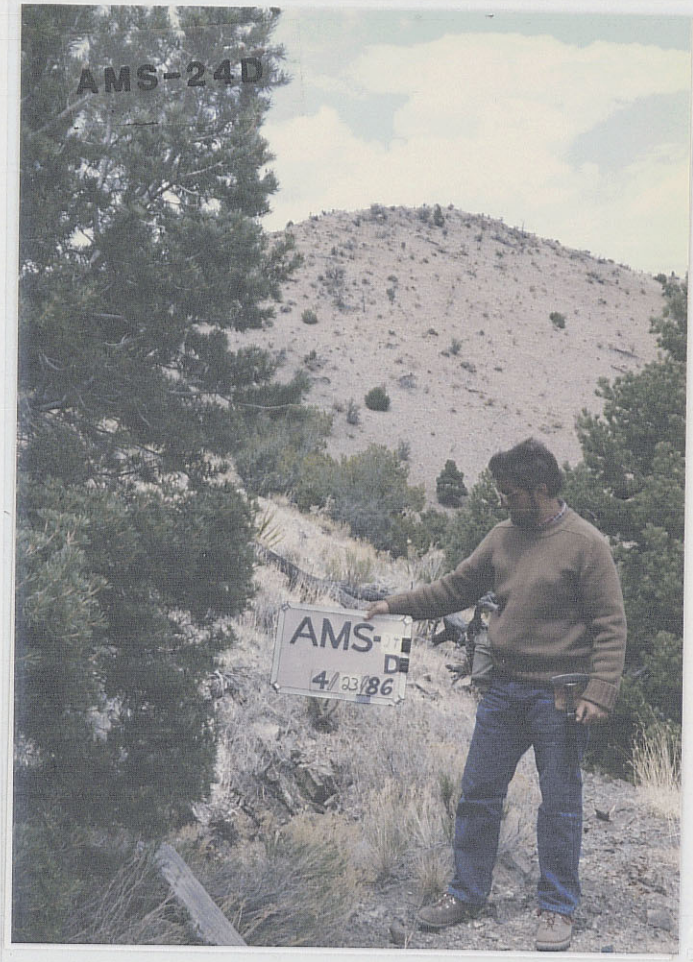

AMS-24B


AMS-24C(frame 3)


AMS-24C(frame 4)

AMS-24E(frame 6)

AMS-24D



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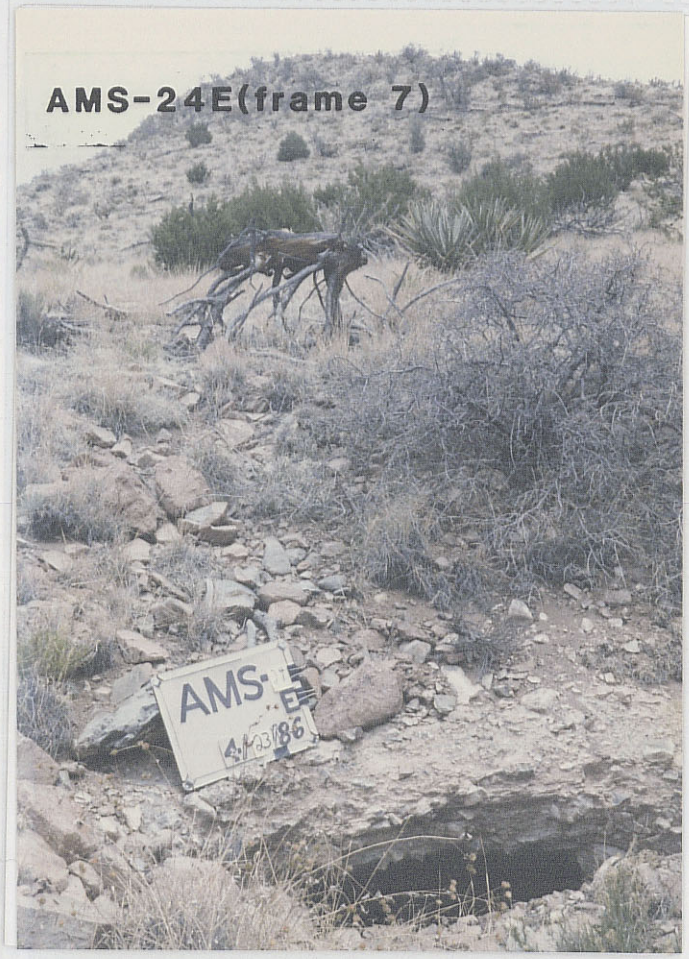
AMS-24E(frame 7)

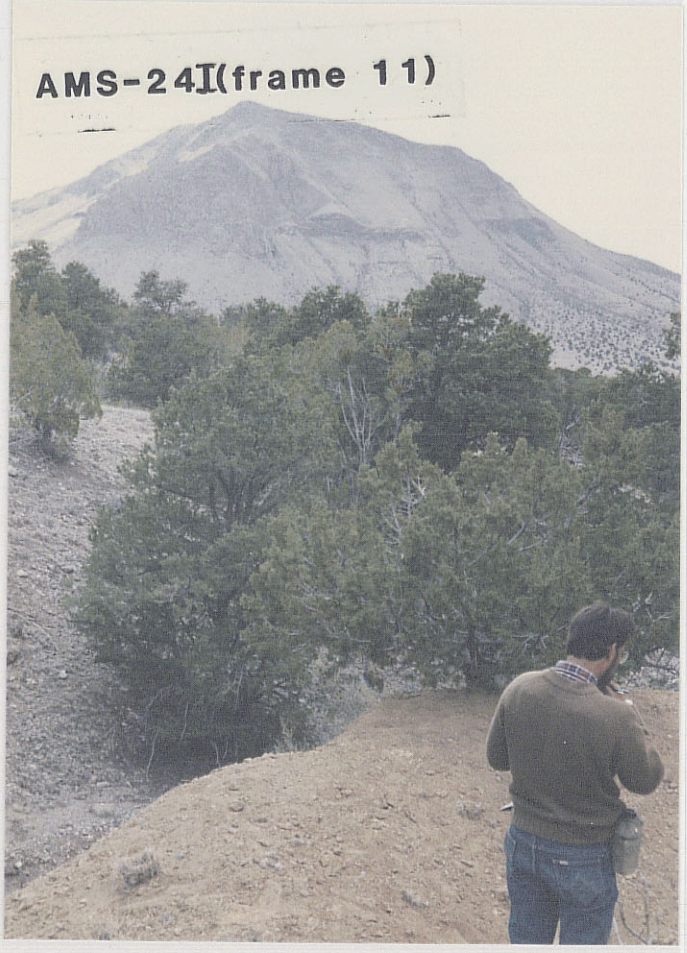


AMS-24E(frame 4)
4/23/86


AMS-24G(frame 8)


AMS-24G(frame 9)


AMS-24H


AMS-24I(frame 11)


AMS-24I(frame 12)
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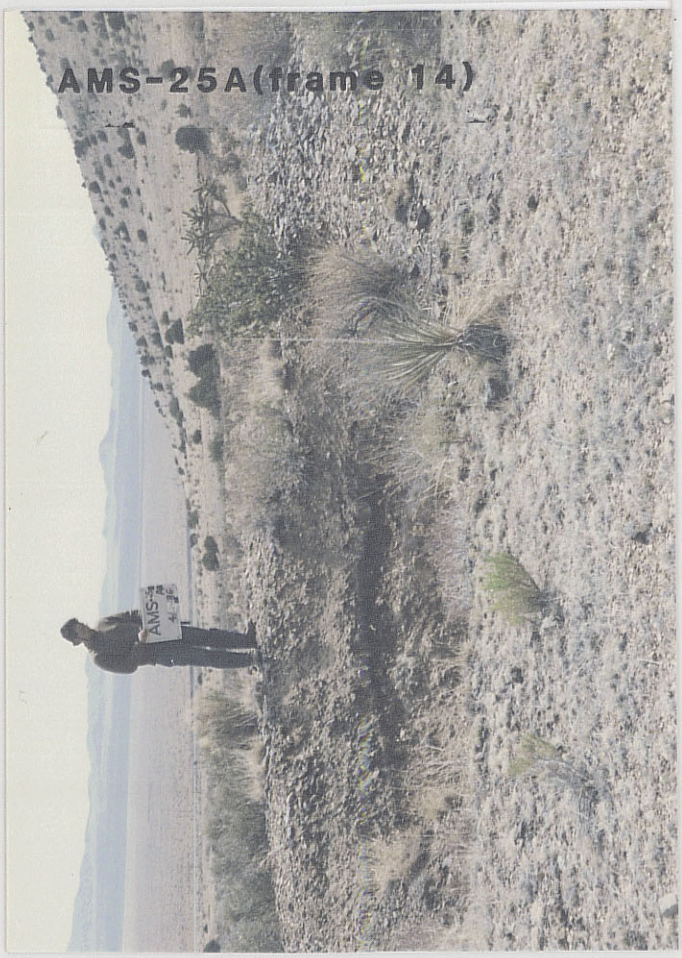
AMS-25A(frame 13)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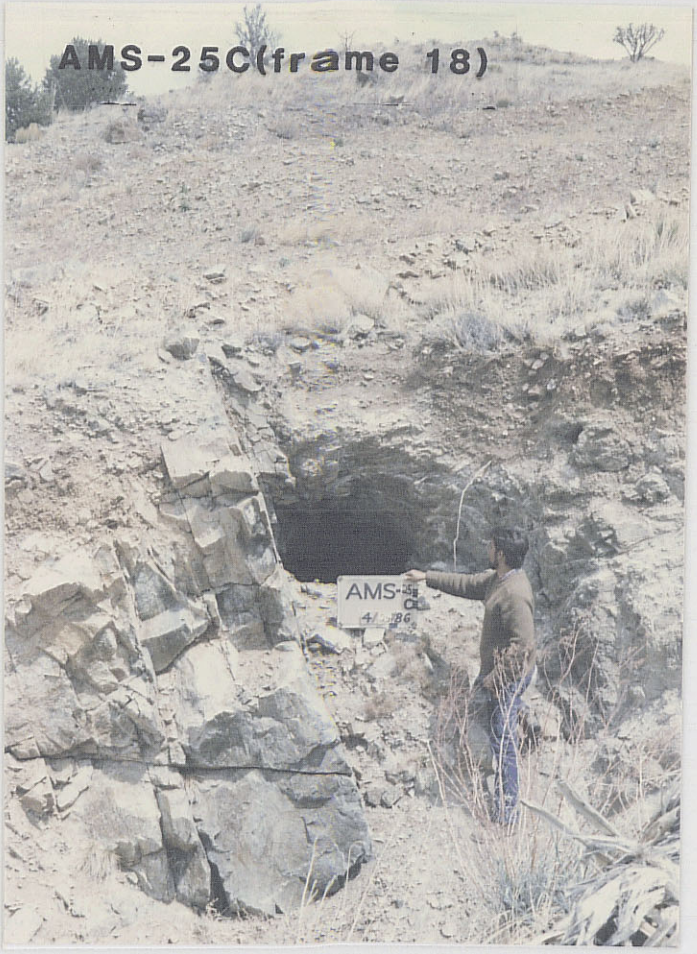
AMS-25B(frame 15)


AMS-25B(frame 16)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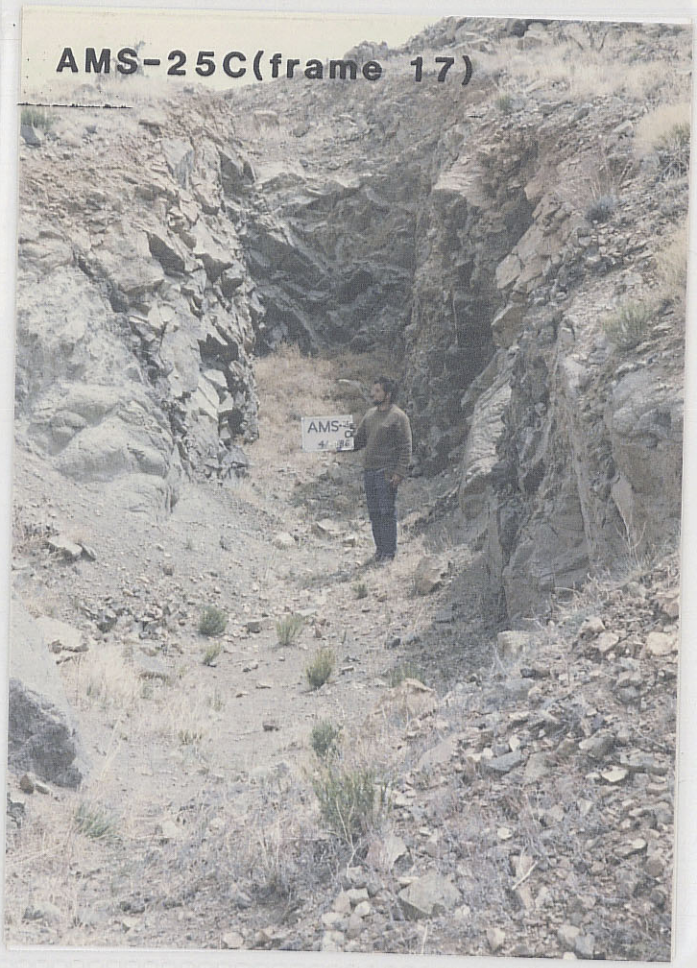
AMS-25C
4/24/86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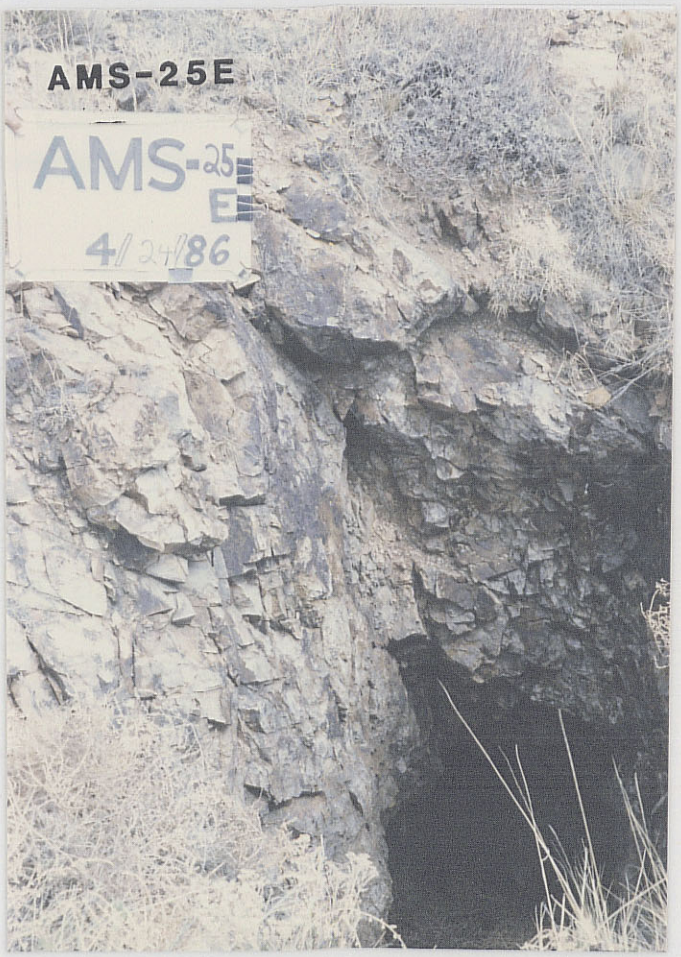
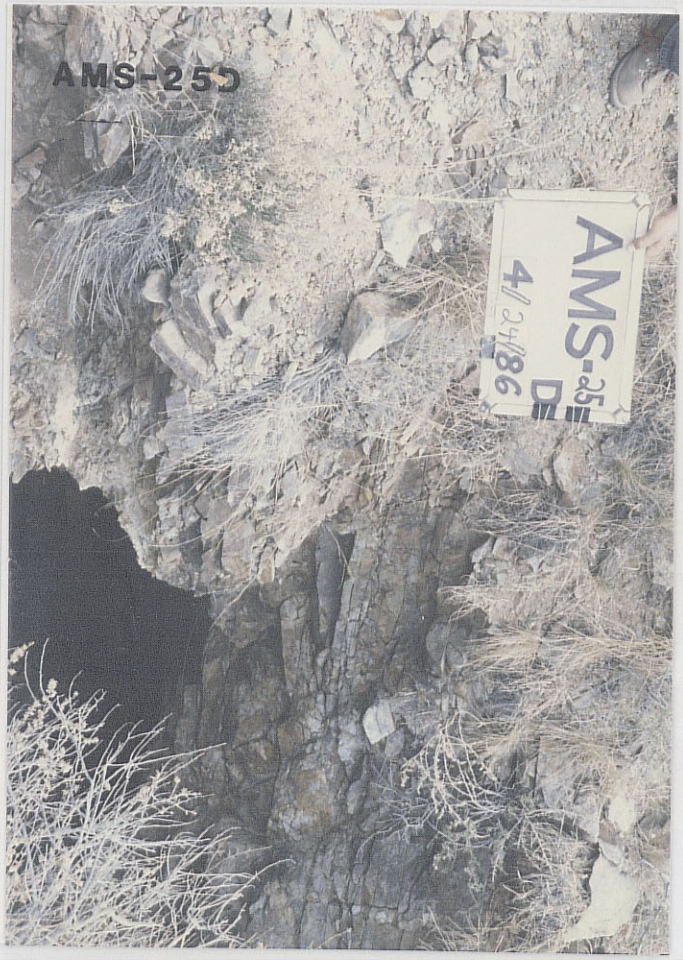
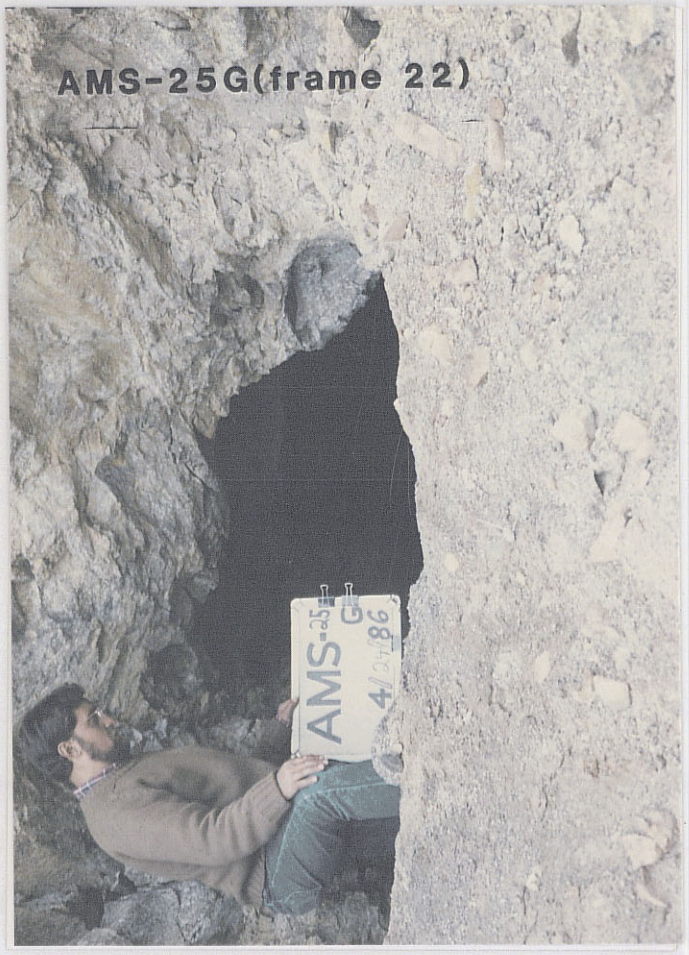

AMS-25E
AMS-25E
4/24/86

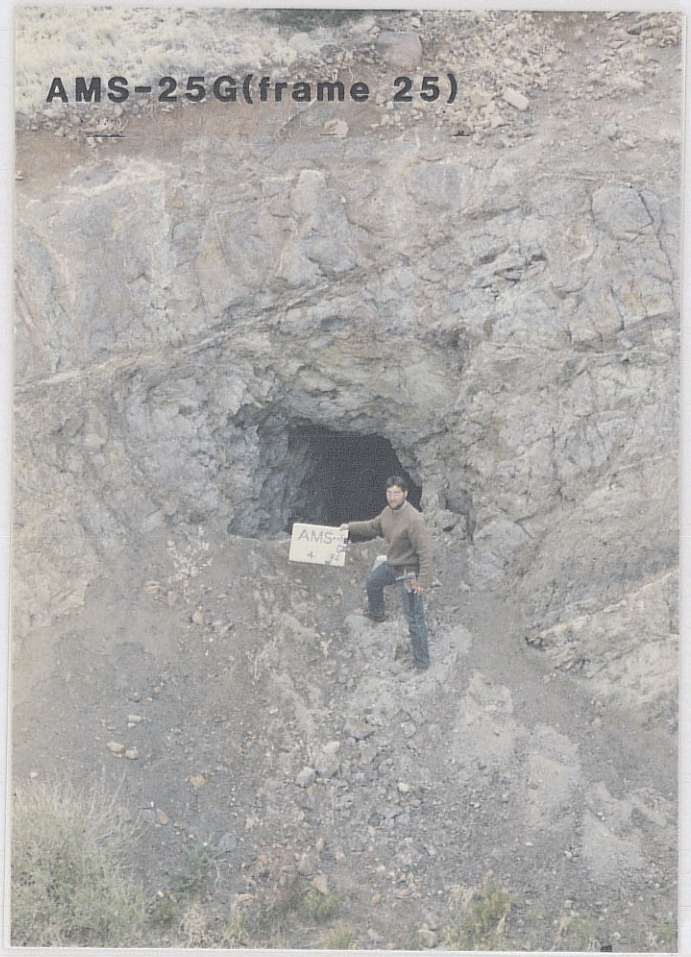

AMS-25D
AMS-25D
4/24/86

AMS-25F

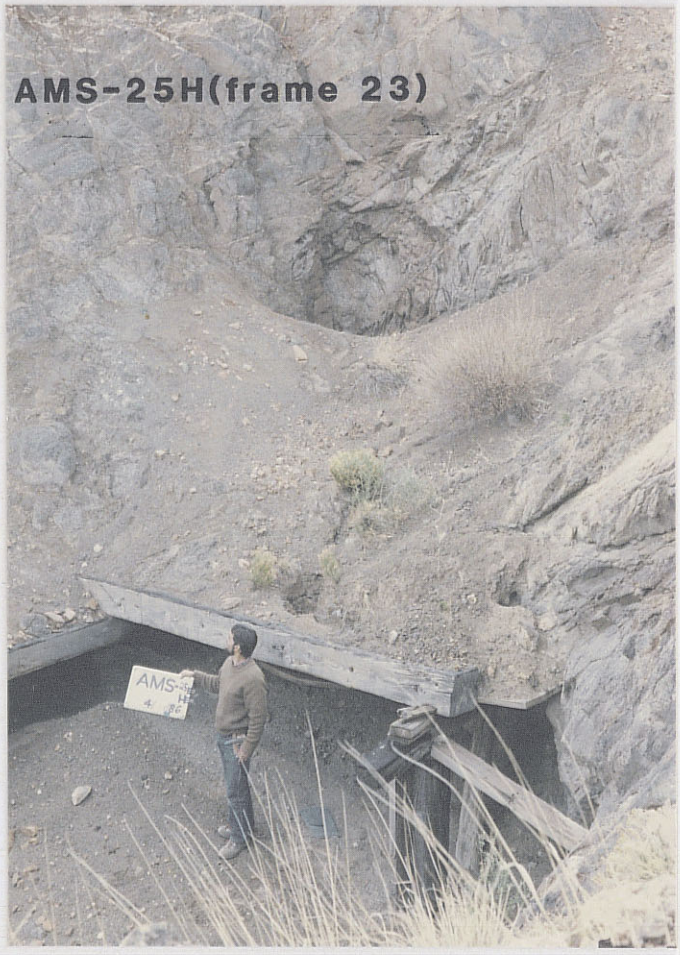
AMS-25G(frame 22)



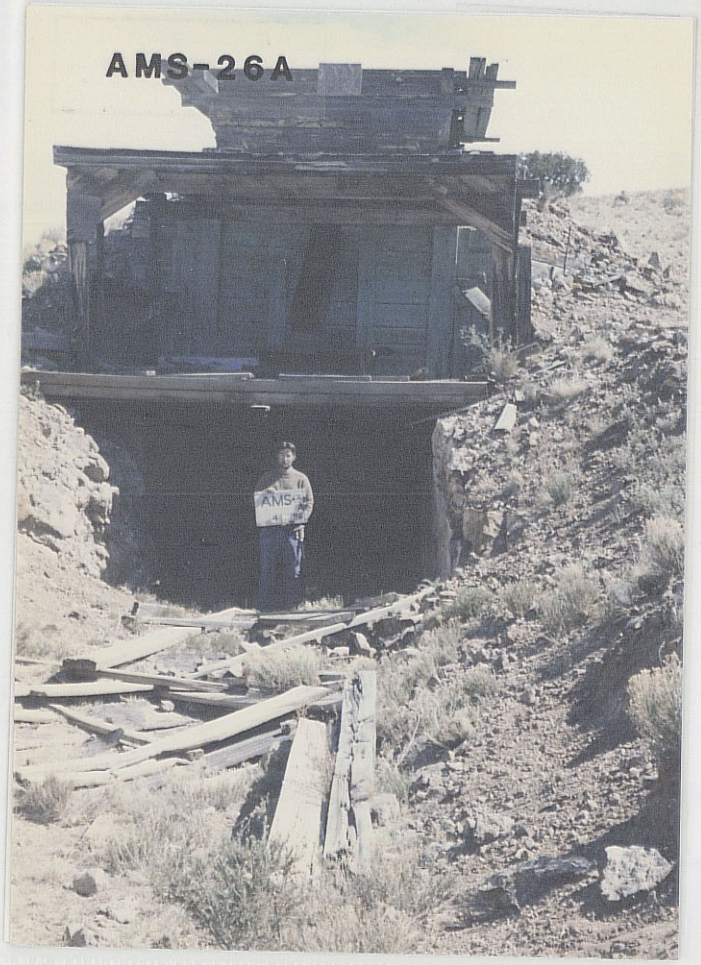
AMS-25G(frame 25)

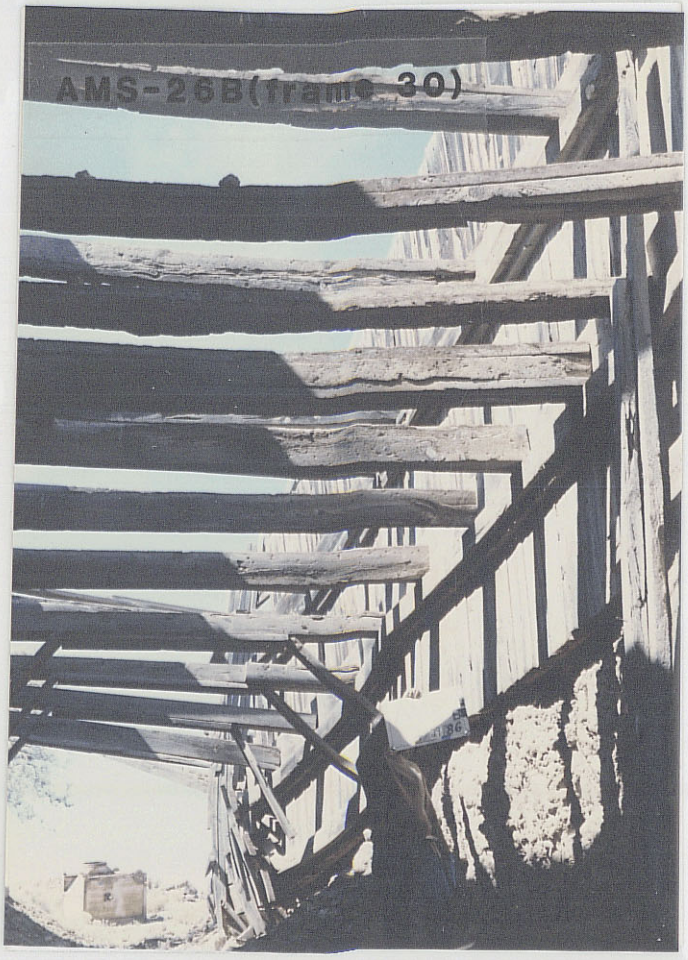


AMS-25H(frame 23)



AMS-25H(frame 23)
4/24/86


AMS-26A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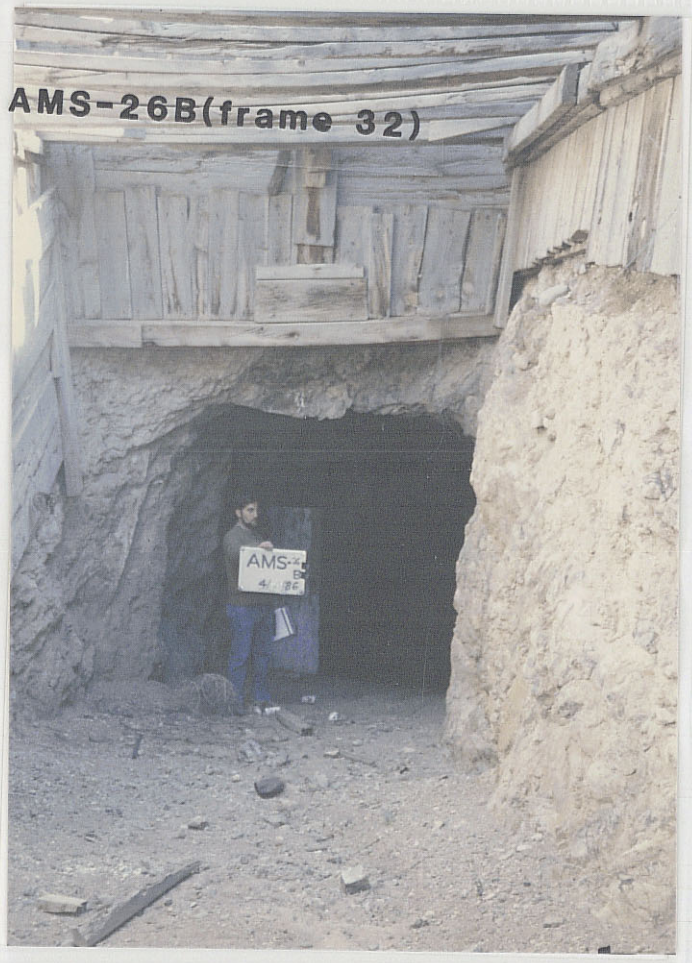
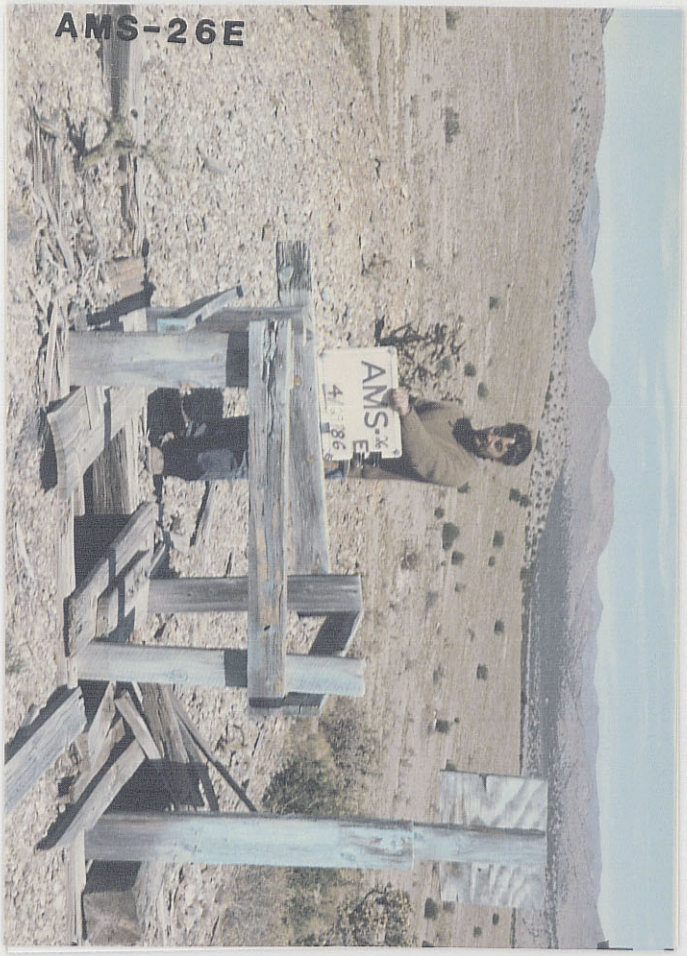

AMS-26B(frame 32)


AMS-26C

AMS-26E



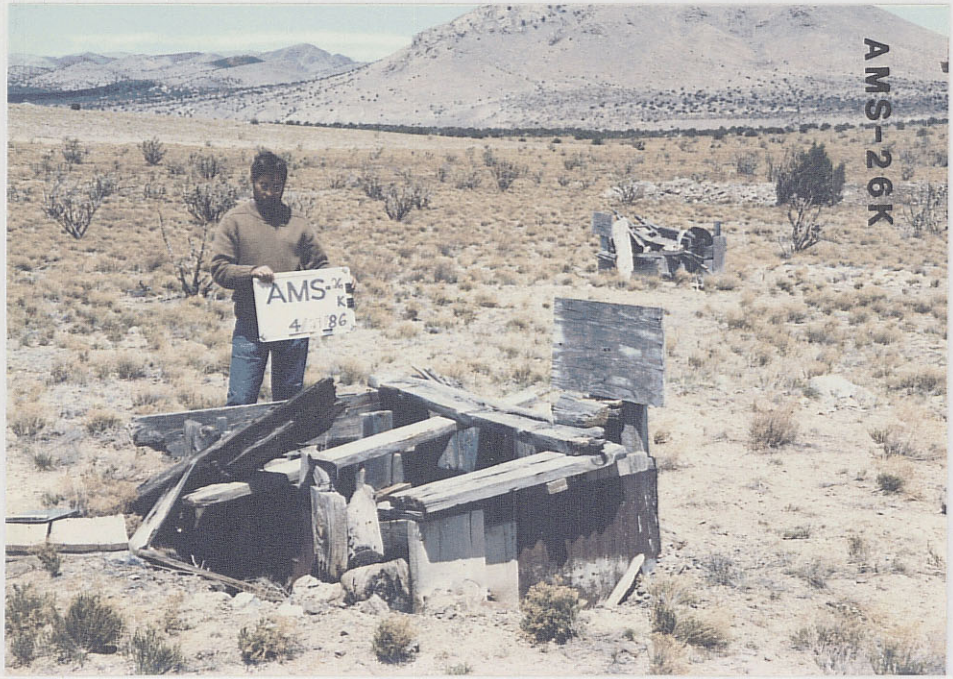
AMS-26D

AMS-26G

AMS-26F


DANGER
OLD MINE
KEEP OUT
AMS-26J


AMS-26H


AMS-26K


AMS-26L

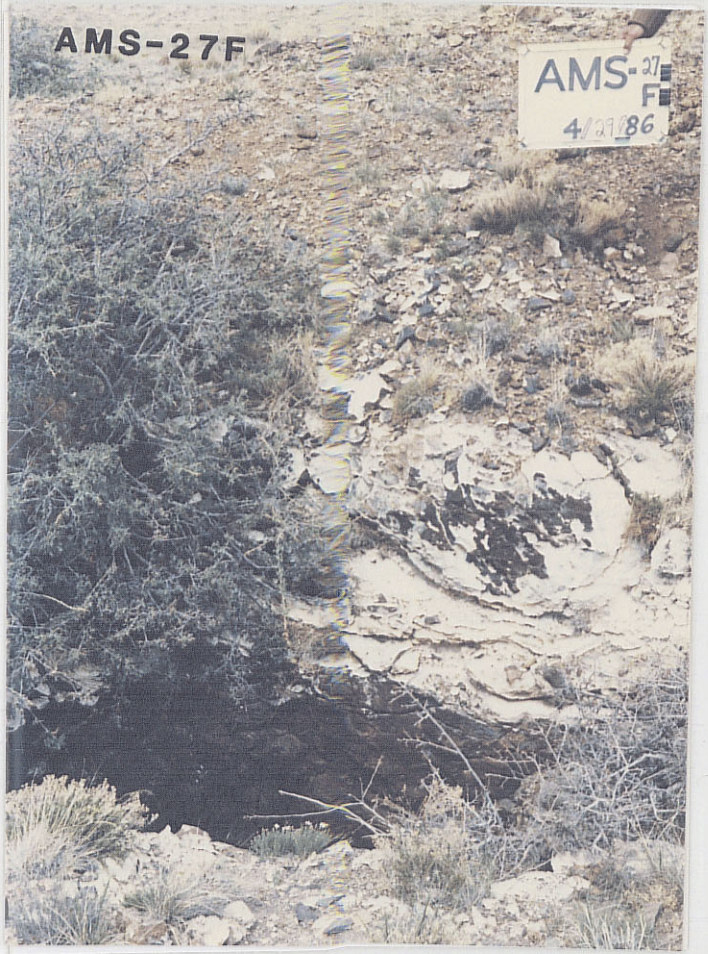
AMS-26L


AMS-27A


AMS-27B


AMS-27C


AMS-27D


AMS-27F
AMS-27F
4/21/86

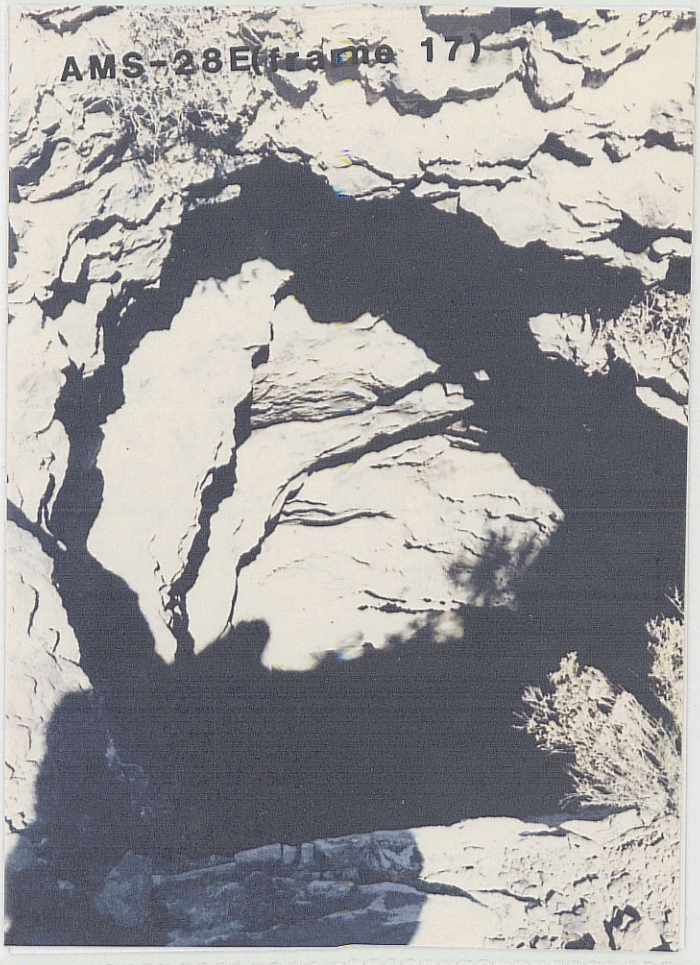

AMS-27E


AMS-28A(frame 12)


AMS-28A(frame 13)


AMS-28B


AMS-28C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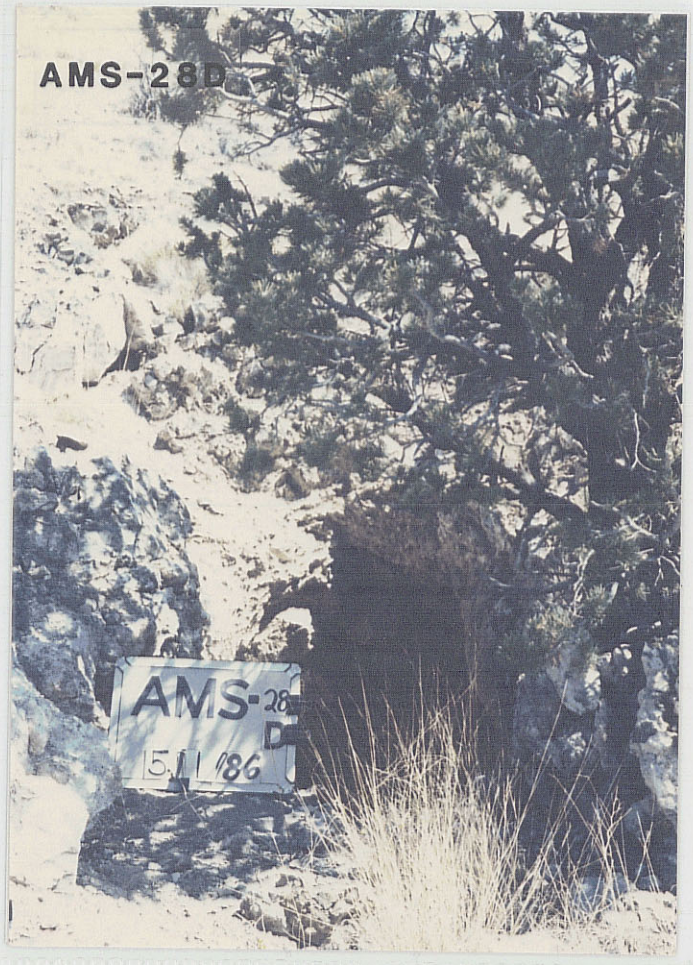
AMS-28D
AMS-28
D
5.11.86


AMS-28F
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AMS-28E(frame 18)
AMS-28
5.11.86


AMS-28G

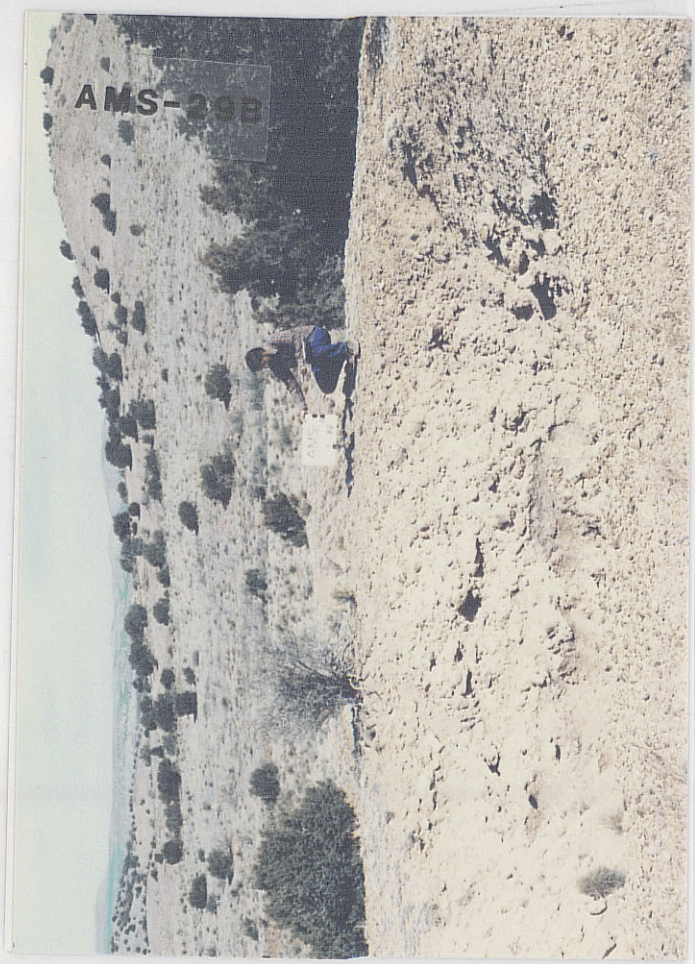

AMS-28H


AMS-28I(frame 22)


AMS-28I(frame 23)

AMS-29A

AMS-29B



AMS-29C

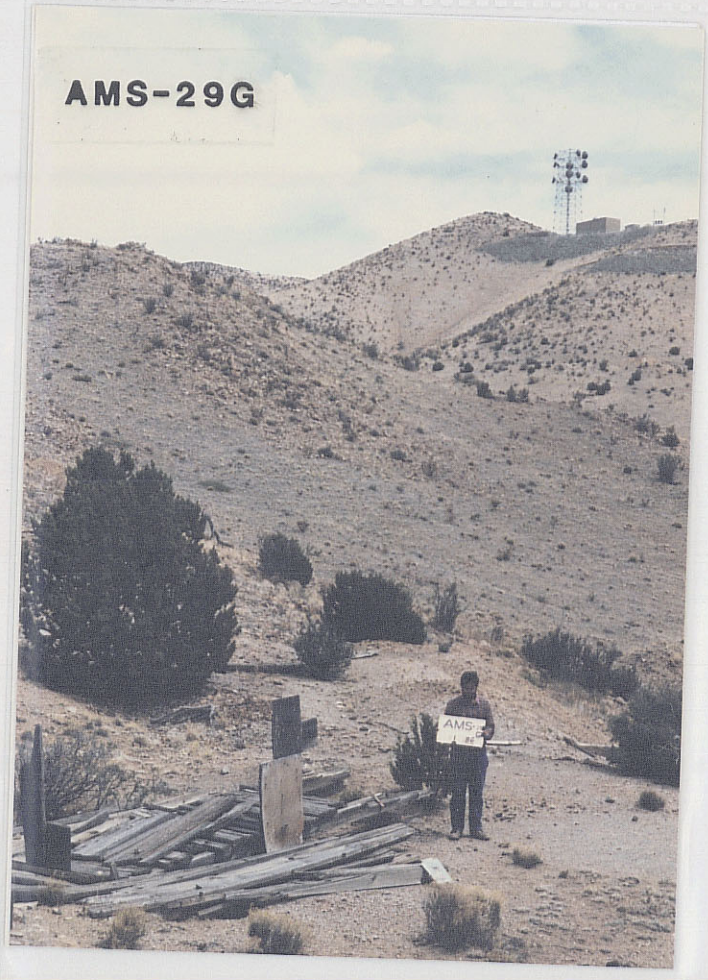
AMS-29D

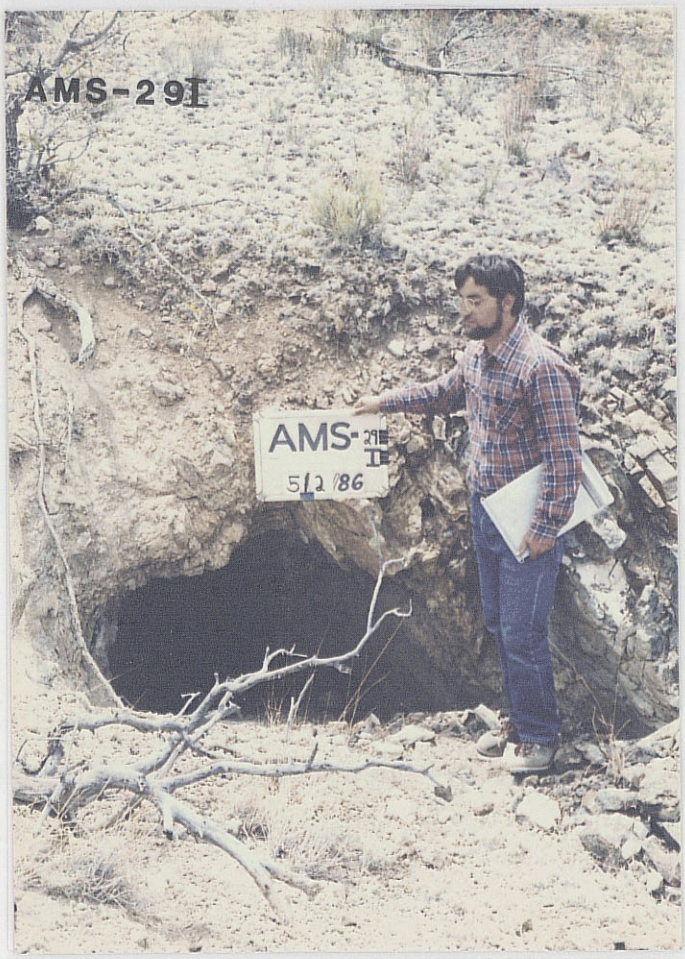
AMS-29F

AMS-29E

AMS-29H

AMS-29G




AMS-29I
AMS-29I
5/2/86


AMS-29J


AMS-29K(frame 1)


AMS-29L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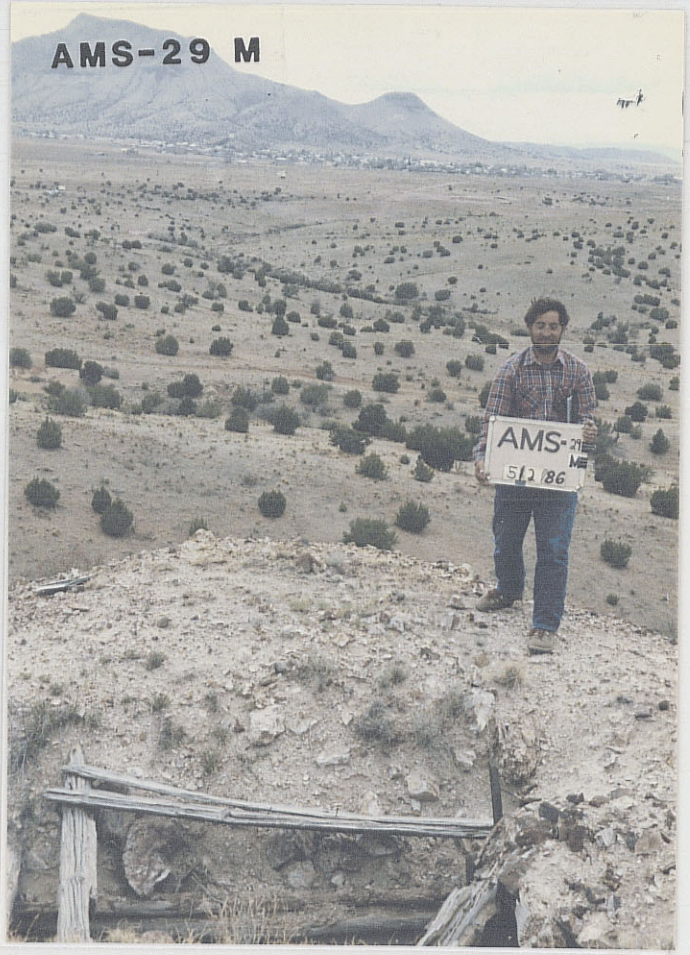
5 12 86


AMS-29 M
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5 12 86


AMS-30A


AMS-30B


AMS-30C


AMS-30D


AMS-30F

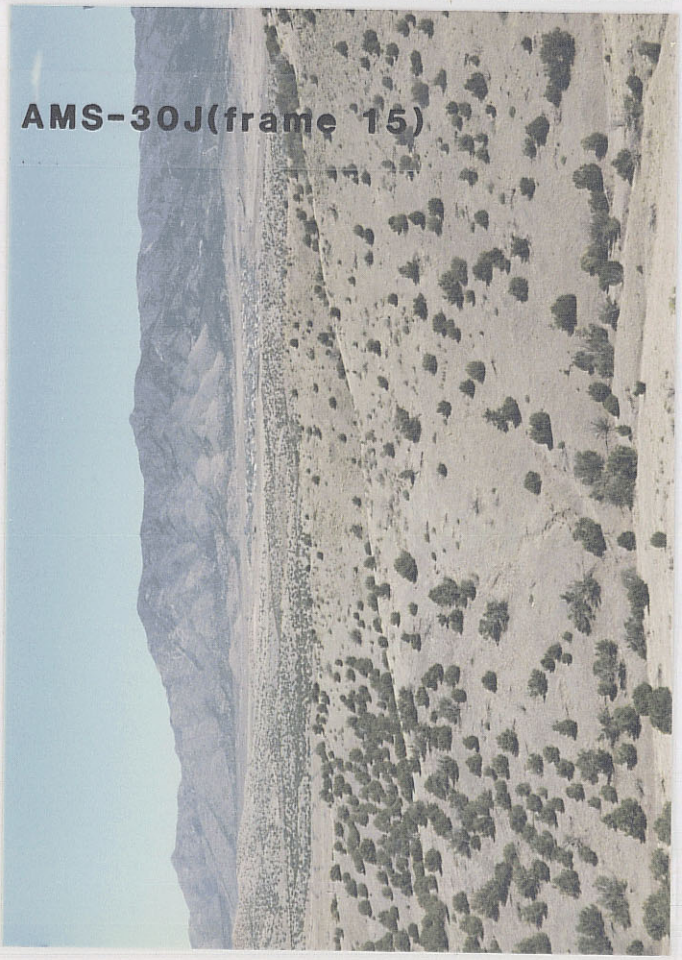

AMS-30E
AMS-30E
5/5/86


AMS-30H(frame 12)
AMS-30H
5/5/86


AMS-30G
AMS-30G
5/5/86


AMS-30H(frame 13)


AMS-30I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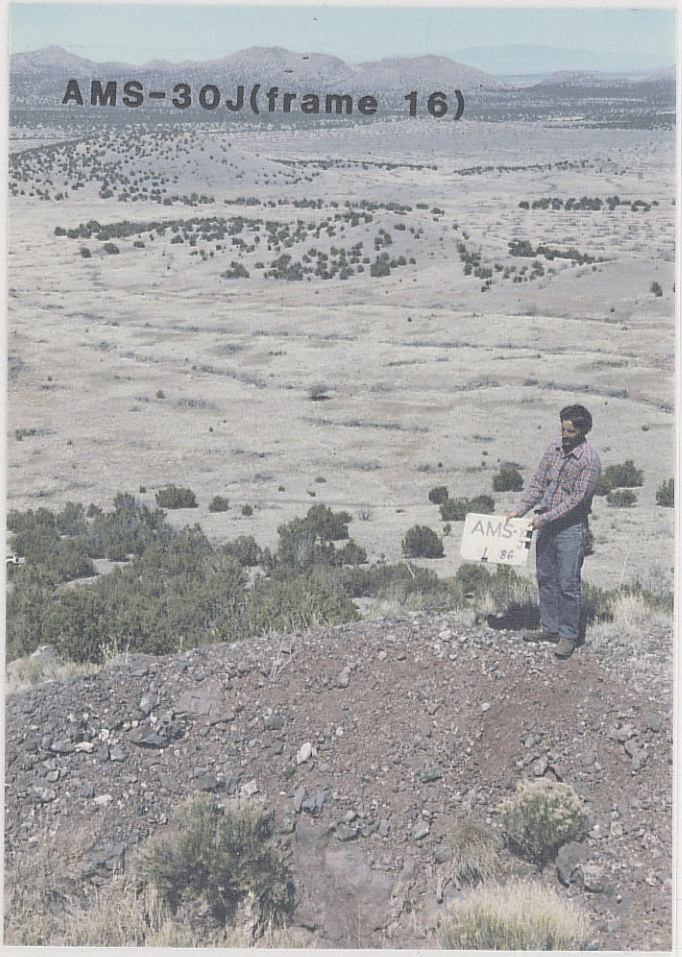
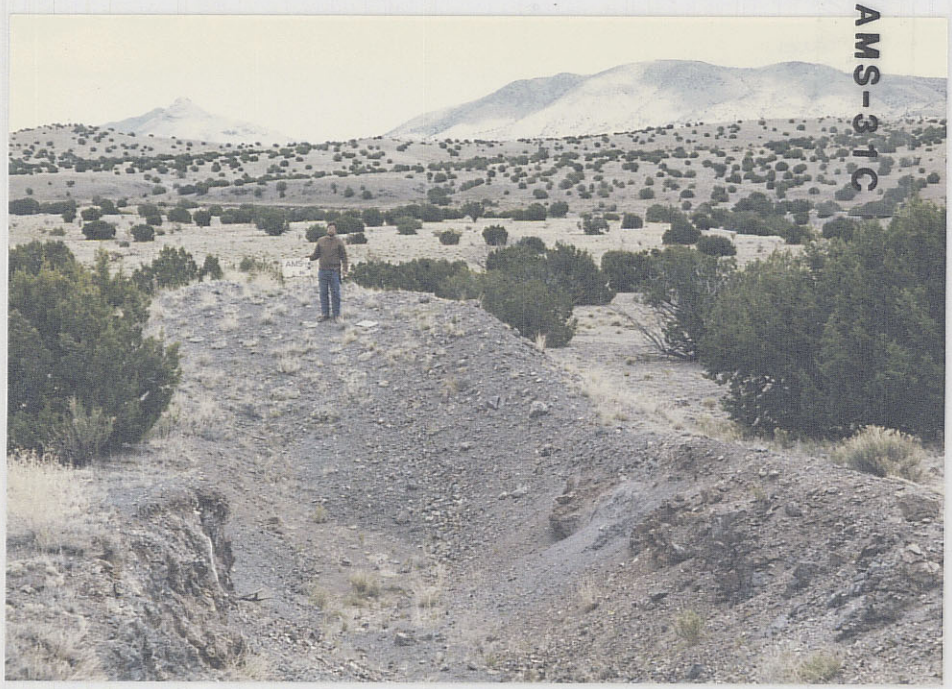

AMS-30J(frame 16)



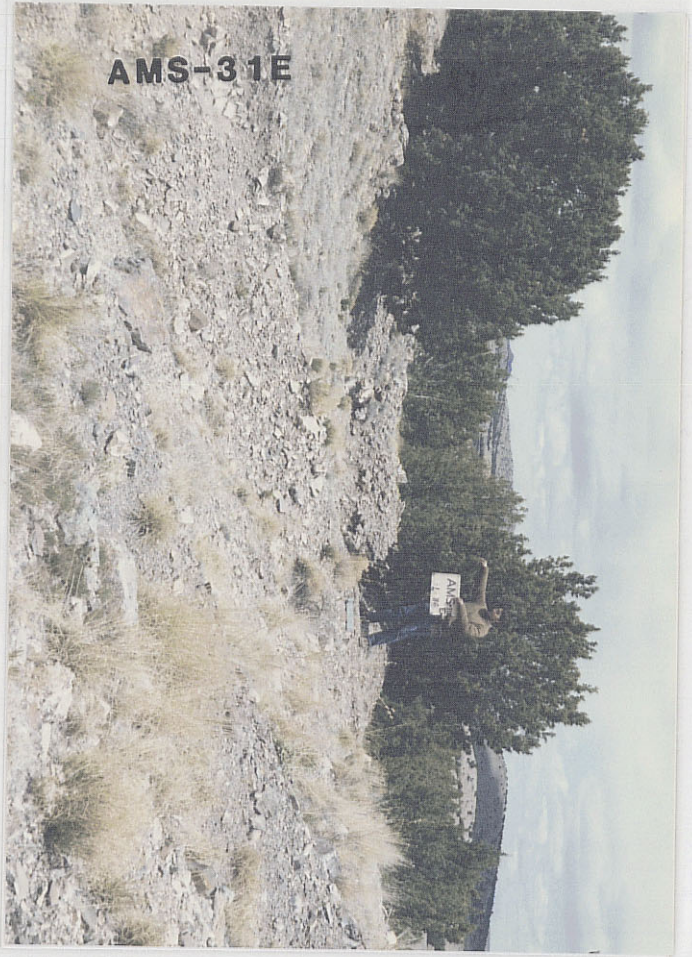
AMS-31C

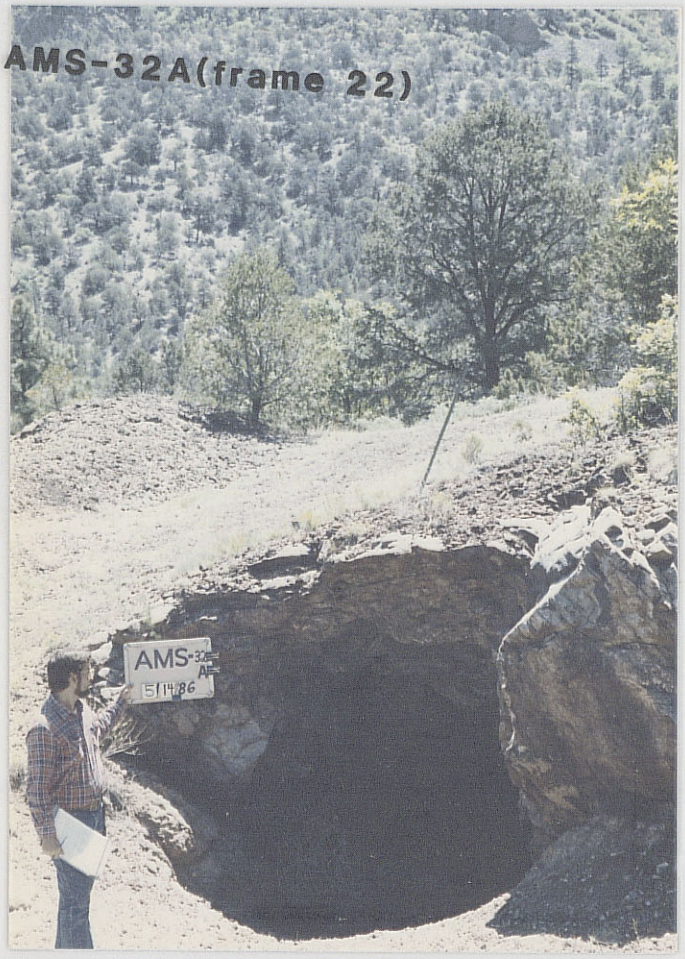
AMS-31A

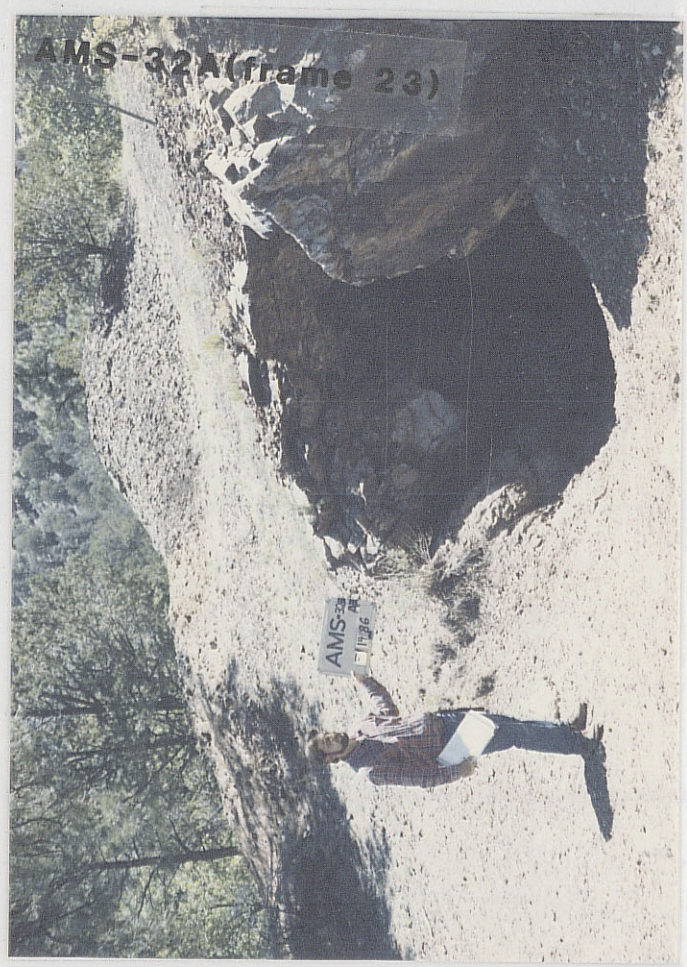
AMS-31D

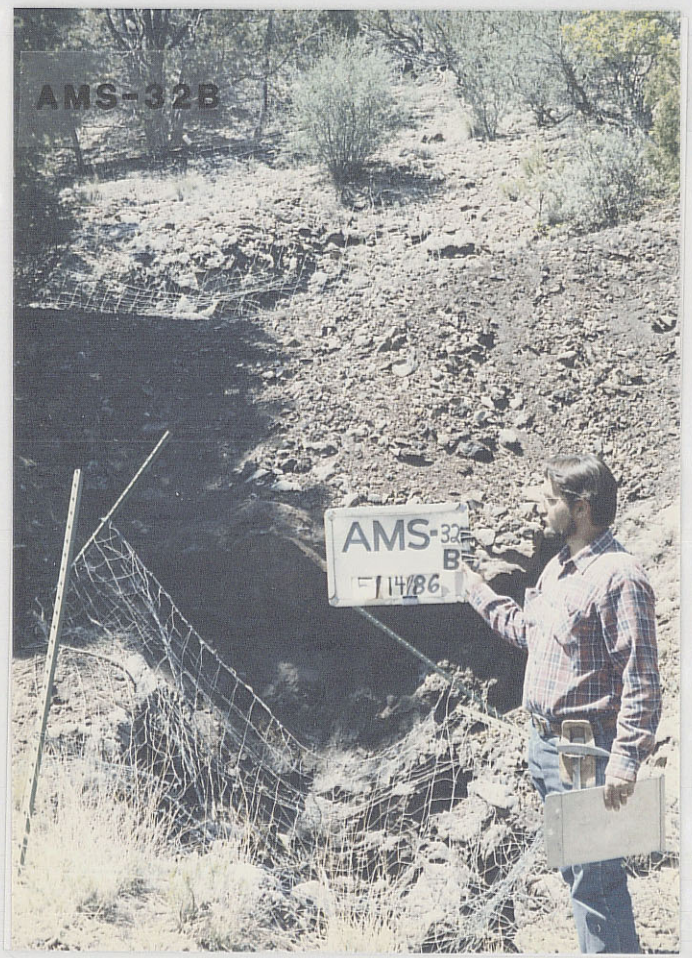
AMS-31B


AMS-31F
AMS-31
5/8/86


AMS-31E


AMS-32A(frame 22)
AMS-32A
5/14/86


AMS-32A(frame 23)
AMS-32A
5/14/86

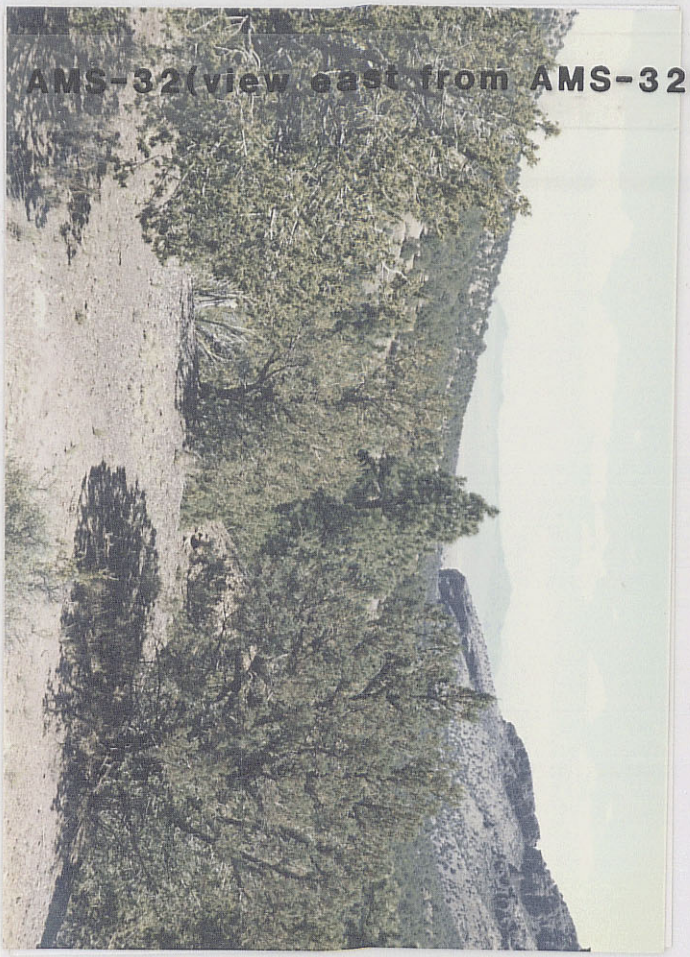

AMS-32B
AMS-32B
5/14/86


AMS-32C(frame 25)
AMS-32C
5/14/86

AMS-32D(frame 27)

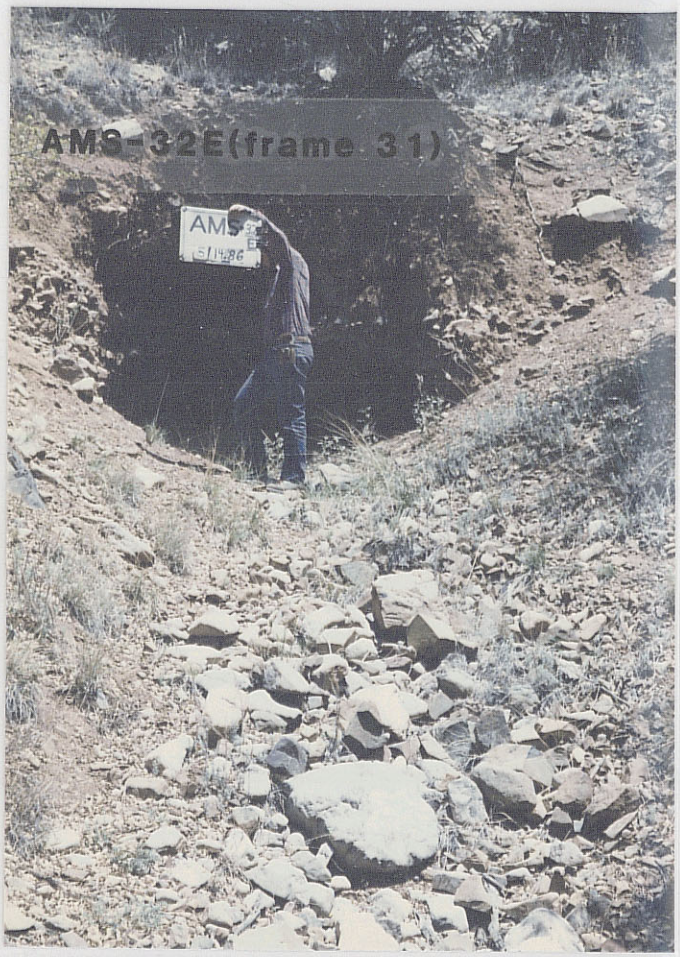
AMS-32C(frame 26)

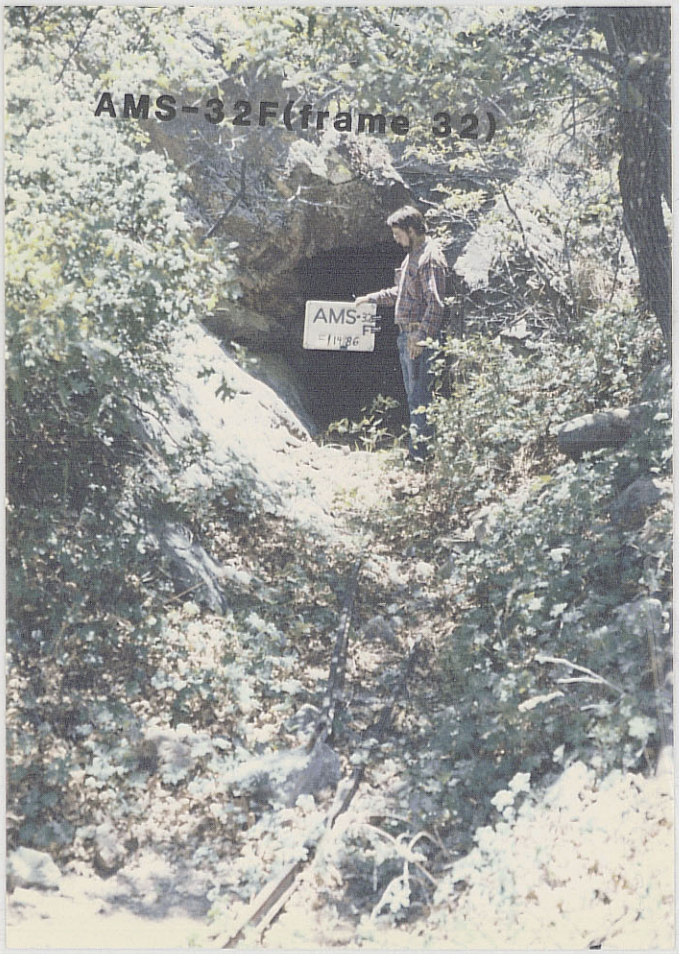
AMS-32(view east from AMS-32D)



AMS-32D(frame 28)


AMS-32E(frame 30)


AMS-32E(frame 31)


AMS-32F(frame 32)


AMS-32F(frame 33)

VOLUME III

FIELD DATA SHEETS

AMS FIELD DATA SHEET

Site: AMS-1 Date: 2/18/86 Evaluator(s):GJ/DB/JH/BE Page 1 of 1
Mine Name: Juanita adit and dumps
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 17,000 ft southeast
Closest Public Facility: Graded road to Kelly (750 ft west of mine).
Geologic unit: Calcium carbonate cemented alluvium

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
1	20	A/7620	E	Juanita adit
		B/7665	No Photo	Loading bin
3	17	C/7665	N	Mine dump (north)
3	18	D/7665	S	Mine dump (south)

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Juanita adit- opening obscured by tree, opening is 4.5 ft x 4.5 ft, air blows into mine, not timbered, standing well, slight slope in adit.
B/7	Loading bin- badly weathered, beams leaning and rotted, large floor planks partly removed.
C,D/14	Dump- mostly gravel and sand some boulders, 4 inch piñon and ponderosa pine growing on north dump, south dump has fewer and smaller trees, north dump dimensions are 165 ft x 40 ft x 15 ft ~ 3700 yd^3 south dump dimensions are 120 ft x 30 ft x 15 ft ~ 2000 yd^3

Recommendations or comments (access via, recent visitation, fenced, posted):

A/3- Fence off and post entrance to adit
B/7- Post warning sign on loading bin
A through D- Area is accessible by 4 wheel-drive road and shows signs of recent visitation

Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-2 Date: 2/18/86 Evaluator(s):GJ/DB/JH/BE
Mine Name: Open-cut on Juanita Group
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: approximately 17,000 ft southeast
Closest Public Facility: Graded road to Kelly (3,000 ft west of mine)
Geologic unit: Kelly limestone and shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
2	1,2	A/7800	S	Adit on Juanita Group
2	3	B/7810	E	Tin Shack
2	4	C/7795	NE	Top of lower dump
2	5	D/7855	N	3 ft x 3 ft blocked shaft
2	6	/7880	E	East wall of open cut
2	7	E/7880	S	Shaft-southwest side of open cut
2	8	F/7855	N	Upper adit - south side open cut on Juanita Group.
2	9	G/7835	N	Middle adit - south side open cut of Juanita Group.
2	10	H/7810	N	Lower adit - south side open cut of Juanita Group.
2	11		N	Overview of open cut of Juanita Group.
2	12	I/7855	E	Stope-20 ft east of west wall of open cut.
2	13	J/7865	N	"Double Shaft" (approximately 500 ft northeast, uphill from loading bin)
2	14	K/7780	E	View south of loading bin.
2	15		W	General view west of dump.
2	16		N	General view north of dump.
2	17		NE	View of "Double O" mines on Kelly property.

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.(X)stope	15.(X)trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Adit- at base of cut 20 ft south of loading bin, 5 ft x 4 ft opening, extends southeast, open unknown horizontal distance, caved at entrance but still open, supported by rotten timbers.
B/9	Shack- tin siding, roof collapsed.
C/14	Dump- levels of dump cover 500 ft x 200 ft area, middle level dump is 180 ft x 20 ft, average height is 5 ft.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-2 Date: 2/28/86 Evaluator(s): GJ/DB/JH/BE
Mine Name: Open-cut on Juanita Group
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: approximately 17,000 ft southeast
Closest Public Facility: Graded road to Kelly (3,000 ft west of mine)
Geologic unit: Kelly limestone and shale

D/1 Shaft- northwest side open cut, 3 ft x 3 ft opening blocked by boulders, fresh air blowing out.

E/1 Shaft- inside open cut (southwest side), opening is 6 ft x 6 ft, visible to 15 ft depth, not timbered, standing well.

F/3 Upper adit- 4 ft high x 6 ft wide, open to unknown horizontal distance, looks stable.

G/3 Middle adit- 3.5 ft high x 2 ft wide, open to unknown horizontal distance, looks stable, small mine dump 20 ft x 20 ft x 5 ft high at entrance.

H/3 Lower adit- 5 ft high x 5 ft wide, open to unknown horizontal distance, looks stable, air blowing into adit.

H/14 Dump- associated with lower adit on south side Juanita Group, slopes at angle of repose, 150 ft x 15 ft x 10 ft high, pieces of sheet metal scattered about, mostly gravel and sand.

I/11 Stope- at top of hill (20 ft west of large cut), opening is 3 ft x 4 ft decends to 10 ft depth, possible connection to adits of Juanita Group.

J/1 Southern shaft- 6 ft x 6 ft x opening, descends 10 ft vertically, in solid rock, loose rock debris above opening.

Northern shaft- 3 ft x 4 ft opening, desends 5 ft vertically, slightly inclined, in solid rock, loose debris above opening.

K/7 Loading Bin- largely dilapidated, missing large floor planks others rotted, sides not supported.

/15 Trash dump- very small amount of trash, mostly covered by mine dump.

/5 Open cut- 100 ft x 400 ft x 30 ft deep, elongated north-south, minor rock fall hazard, local over hangs, Jarosite minerals.

Recommendations or comments (access via, recent visitation, fenced, posted):

-Many small dissolution cavities in county rock at open cut.
-Need fences at shafts and stopes, block off adit in open cut "A/3".
-Post sign on loading bin.
-Approximately 18,000 yd3 of mine dump available.
-Access by hiking 120 ft up-hill from Juanita mine, none of items are posted or fenced, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-3 Date: 2/20/86 Evaluator(s): GJ/DB/MG/AH Page 1 of 2
Mine Name: Juanita Group
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 17,500 ft southeast
Closest Public Facility: Graded road to Kelly (800 ft west of mine)
Geologic unit: Argillite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
2	19,20,21	A/7810	S	Entrance to South Juanita adit
2	22,23	B,C/7845	N	Stopes
2	24	D/7860	S	Adit
2	25	E/7875	S	Adit along ledge rock
2	26	F/7900	S	Adit

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.(X)stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.( )mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	South Juanita adit- 6 ft high x 7 ft wide, extends indeterminable horizontal distance, drift to north, some caving-in from back approximately 15 ft into adit, not timbered, entrance locks stable, see AMS-2 for description of mine dump.
B/11	Stope- 3 ft x 3 ft opening, descends minimum of 30 ft vertically, sloughing soil and mine dump material falling into stope.
C/11	Stope- 4 ft x 4 ft opening, vertical to approximately 12 ft visible depth, area at surface unstable, sloughing.
D/3	Adit- 5 ft high x 10 ft wide, narrows to small opening 20 ft into adit, looks stable, approximately 5 ft diameter vertical hole just inside the entrance.
E/3	Adit- triangular opening, 4 ft wide at base x 2 ft high, open to unknown horizontal distance, entrance looks stable, widens further in.
F/3	Adit- entrance looks partially backfilled but has sloughed to reveal 1 ft x 1 ft opening into adit, a 10 ft x 5 ft X 6 ft deep mine dump located on hillslope at adit entrance, a small associated stope 2 ft x 2 ft x 10 ft deep located 5 ft west of entrance is very unstable, a smaller adit 2 ft x 2 ft x 2 ft horizontally looks filled in--location is 10 ft south of main adit.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-3 Date: 2/20/86 Evaluator(s):GJ/DB/MG/AH
Mine Name: Juanita Group
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 17,500 ft southeast
Closest Public Facility: Graded road to Kelly (800 ft west of mine)
Geologic unit: Argillite

Recommendations or comments (access via, recent visitation, fenced, posted):

Access to all sites (A-F) by 4 wheel-drive road from Juanita mine, none of sites posted or fenced, evidence of recent visitation.

A/3- Stake posted above South Juanita adit
- Need to fence and post signs at south adit
- Truck owner from Montana in parking area of Juanita mine all day

E/3- Metal pipe cemented into ledge rock has "102" stamped on it

F/3- Modern "petroglyphs" at entrance, "2D" and "2U" chiseled into ledge rock.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-4 Date: 2/26/86 Evaluator(s): GJ/DB
Mine Name: Germany Mines
Location: SW 1/4, Sec. 31, T. 2S, R. 3W Distance from Magdalena: 18,000 ft southwest
Closest Public Facility: Graded road to Kelly (1500 ft west of mine)
Geologic unit: Limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
2	26	A/8075	SW	Adit
2	27	B/8060	W	Mine dump
2	28	C/8010	W	Composite mine dump
2	29,30	D/7850	E	Adit
2	31,32	E/7800	N	Mine dump and Mine shack

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B: Description of items checked in A above

M/I*	Description
A/3	Adit- 4.5 ft x 5 ft opening, rock looks very stable at entrance, not timbered, main adit trends southwest but smaller drift trends north-south just inside entrance, mine adit is open an unknown horizontal distance.
B/14	Mine dump- dimensions are 100 ft x 40 ft x 25 ft deep (wedge-shaped), material is sand and gravel ranging up to boulder-size, six-inch diameter pinons, dump slopes at angle of repose.
C/14	Mine dump- consists of two composite dumps, lower dump is 55 ft x 10 ft x 20 ft deep, upper dump is 45 ft x 35 ft x 5 ft deep, mostly gravel and sand, but ranges to boulder size, slopes at angle of repose.
D/3	Adit- opening is approximately 6 ft x 10 ft, extends unknown horizontal distance, rotted door approximately 15 ft into adit, standing water on floor, small amount of water seeping out of mine, not timbered, looks very stable, white ($CaCO_3$?) coatings on rocks alongside water, looks like this was a major working.
E/14	Mine dump- triangular shaped, 150 ft long x 35 ft wide x 20 ft deep white residue on surface associated with pyrite crystals, material mostly sand and gravel, some boulders, mine shack just has walls standing.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-4 Date: 2/26/86 Evaluator(s): GJ/DB
Mine Name: Germany Mines
Location: SW 1/4, Sec. 31, T. 2S, R. 3W Distance from Magdalena: 18,000 ft southwest
Closest Public Facility: Graded road to Kelly (1,500 ft west of mine)
Geologic unit: Limestone

Recommendations or comments (access via, recent visitation, fenced, posted):

A through E- Access by hiking up gully from Kelly or Juanita Mines, none of sites are posted or fenced, evidence of recent visitation.
- Location "A" appears to be the easternmost of the Germany mines.

A/3 - Stake placed at A.
B/14- Lost of barite, calcite, and quartz crystals.
D/3 - Small stope approximately 8 ft x 8 ft filled to ground level. just north of adit "D/3".

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-5 Date: 2/26/86 Evaluator(s): GJ/DB
Mine Name: "Double O" of Kelly Mine
Location: SW 1/4, Sec. 31, T. 2S, R. 3W Distance from Magdalena: 16,000 ft southeast
Closest Public Facility: Graded road to Kelly (1,500 ft west of mine)
Geologic unit: Fault gouge in Kelly limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
2	35	A/7726	N	Shaft
2	36	B/7727	E	Adit
3	1	C/7790	N	Adit, upper "O"
3	2	D/7775	N	Adit, lower "O"
3	3	E/7775	S	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- opening is sloughing, shaft partially blocked at about 5 ft depth, rock gouge at opening unstable, extends to unknown depth, air seems to be blowing out of shaft with slight noticeable odor of sulfur(?), dilapidated loading dock located at location "A/1", planks rotted.
B/3	Adit- opening is 5 ft wide, x 2 ft high and stable except lots of loose alluvium in vertical cut above, air blowing into untimbered mine workings, opening partially blocked with 2 ft diameter boulder.
C/3	Upper adit of "Double O"-opening is large-10 ft x 10 ft, looks very stable, extends horizontal distance of about 75 ft north, a winze of unknown dimension approximately 60 ft into adit.
D/3	Lower adit- very large opening, 20 ft x 20 ft narrowing to 5 ft x 5 ft workings just inside, several drifts converge at entrance, looks stable, many rockhounds have visited here, some track sticking out of one drift, some loose colluvium at top of cut.
E/3	Adit- 4 ft high x 6 ft wide, shaft approximately 10 ft deep just inside opening, adit extends unknown horizontal distance toward south, looks stable, in solid rock.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1,B/3- Staked with 1" x 2 in" stakes.
A/1- Planks rotted.
D/3- There should at least be warning signs posted.
E/3- Shaft inside entrance should be blocked off.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-5 Date:2/26/86 Evaluator(s): GJ/DB
Mine Name: "Double O" in Kelly Mine
Location: SW 1/4, Sec. 31, T. 2S, R. 3W Distance from Magdalena: 16,000 ft southeast
Closest Public Facility: Graded road to Kelly (1,500 ft west of mine)
Geologic unit: Fault gouge in Kelly limestone

Access to this area by hiking 1,500 ft east from the Kelly Mine, not posted or fenced, evidence of recent visitation. There is a gate 500 ft west of Kelly Mine at the Kelly Mine road, thus restricting access by vehicle.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-6 Date: 2/28/86 Evaluator(s): GJ/DB
Mine Name: George Summer's Property
Location: SE 1/4, Sec. 26, T. 2S, R. 4W Distance from Magdalena: 7000 ft southeast
Closest Public Facility: Summer's residence, approximately 250 ft east
Geologic unit: Colluvium

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
3	4,5	A/6830	E	Shaft
3	6,7	B/6825	E	Shaft
3	8	A,B/	S	Mine dumps of locations A1 and B1
3	9	C/6870	N	Shaft
3	10	D/6925	N	Adit
3	11	D/	S	Mine dump
3	12	E/6905	E	Shaft
3	13	F/6895	N	Adit (stoped to surface)

A. (X) if items present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft opening is approximately circular, 8 ft in diameter, depth is reported by owner (Summers) to be about 60 ft deep, sounds like water present near 60 ft, shaft is fenced with 6 inch mesh wire, fence is only three feet high, shaft covered with 6X6 inch (rotted) beams and boards and metallic debris.
B/1	Shaft- 50 ft north of "A/1", owner (Summers) reported orginal depth at approximately 60 ft, filled with garbage and other debris to within 7 feet of surface, upper unfilled portion is funnel shaped due to sloughing of alluvium, fenced with 6 inch wire mesh, fence is three feet high.
A,B/14	Dumps- small mine dumps on west side of "A/1" and "B/1", both are 20 feet in diameter by 4 feet deep.
C/1	Shaft- approximately 9 ft diameter by 90 ft deep, covered by very rotted 6-8 inch diameter planks and boards, looks very hazardous, Mr. Summers is in the process of fencing off with barbed wire, small mine dump 20 ft x 10 ft x 5 ft located on north side of shaft.
D/3	Adit- opening is 6 ft wide x 2.5 ft high, 10 ft high vertical face above opening, portal looks fairly stable but rocks are weak, open to unknown horizontal distance.
D/14	Mine dump- dimensions are 15 ft x 10 ft x 5 ft deep, material mostly loose sand but some boulders and cobbles present.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-6 Date: 2/28/86 Evaluator(s): GJ/DB
Mine Name: George Summer's Property
Location: SE 1/4, Sec. 2S, T. 2S, R. 4W Distance from Magdalena: 7,000 ft southeast
Closest Public Facility: Summer's residence, approximately 250 ft east
Geologic unit: Colluvium

E/1 Shaft- opening is 10 ft x 5 ft, descends 20 ft vertically, slopes at top are funnel shaped and loose, associated dump is 15 ft x 10 ft x 5 ft deep.

F/3- Adit- 5 ft x 5 ft opening, extends unknown horizontal distance, stoped to the surface approximately 25 ft into adit, *stope is 10 feet diameter and 10 ft deep, loose rubble at surface, adit visible at bottom of stope, adit looks like it has been recently worked, dozer tracks a entrance, dump at adit entrance is 10 ft x 15 ft x 5 ft deep, Mostly sand with some boulders and gravel ard cobbles, loose.

Recommendations or comments (access via, recent visitation, fenced, posted):

Access to this area by graded road from Magdalena and with owners permission.

A/1- Mr. Summers, (owner) wants it filled in.

B/1- owner has shaft mostly filled in now.

C/1- Owner is attempting to fence off.

*Stope may actually have been mined out before adit was driven (based on small mine dump at top, two shaft symbols show on base map).

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-7 Date: 2/28,3/6/86 Evaluator(s): GJ/DB/GO
Mine Name: S. Juanita
Location: NW,NE 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 18,000 ft. southeast
Closest Public Facility: Graded road to S. Juanita mines 100 feet south
Geologic unit: Limestone, sandstone, shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
3	19	A,B/7700	S	Shaft and Mine dump
4	6	C/7975	W	Shaft
4	7	D/7975	S	Mine dump
4	8	E/7925	E	Adit and Ore shoot
4	9	F/7900	NE	Loading bin
4	10	G/8040	SW	Shaft and Mine dump
	11		NW	View of Kelly Mine circa 1986
4	12	H/8350	N	Adit
4	13	I/8500	N	Adit
4	14	I/8500	N	Adit
4	15	I/8500	W	Mine dump
4	16,17	J/8580	N,S	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 15 ft x 10 ft opening, 35 ft deep, funnel-shaped opening, has loose sides, 6 ft x 6 ft timbers and planks collapsed into shaft.
B/14	Dump- 20 ft x 10 ft x 10 ft deep, mostly sand and gravel, loose.
C/1	Shaft- 6 ft x 5 ft opening, cribbed to approximately 15 ft deep, greater than 100 ft deep, collared and covered by 8 inch x 8 inch timbers (some are rotted), shaft slightly angles to west.
D/14	Dumps- South dump- 25 ft x 10 ft x 20 ft deep, mostly sand and gravel, not loose, partially cemented. North dump- 35 ft x 15 ft x 25 ft deep, mostly sand and gravel, loose, pyrite abundant in dump.
E/3	Adit- 3 ft wide x 4 ft high opening, standing well not timbered, shaft at approximately 45 ft horizontal distance in adit, also forked at 45 ft horizontal distance.
E/7	Loading bin- (Ore shoot) wooden structure (partially rotted) above adit, "E-3".

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-7 Date: 2/28,3/6/86 Evaluator(s): GJ/DB/GO
Mine Name: S. Juanita
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 18,000 ft southeast
Closest Public Facility: Graded road to S. Juanita mines 100 ft south
Geologic unit: Limestone, sandstone, and shale

F/7 Loading bin- wooden structure that is badly weathered, spikes and boards hanging, accessible by hiking 600 ft north from graded road.

G/1 Shaft- 4 ft x 6 ft opening, upper few feet has eroded to 10 ft x 10 ft opening, 25 ft deep, not timbered, no hiking trail present, stake placed on south side of shaft, small dump 3 ft x 5 ft x 5 ft deep.

H/3 Adit- 4 ft wide x 7 ft high opening, in solid rock, extends horizontal distance of 60 ft, flat floor, stable.

I/3 Adit- triangular opening 2 ft x 4 ft wide, extends an unknown horizontal distance, opening is partially blocked, good air coming out, in stable rock.

I/3 Adit- 20 ft east of triangular adit, opening is 6 ft x 6 ft, extends minimum of 50 ft horizontally, in solid rock, not timbered, stable, 5 ft deep hole 10 ft into adit.

I/14 (2) Dumps- 12 ft x 25 ft x 40 ft deep, 20 ft x 10 ft x 20 ft deep, mostly gravel and sand sized material.

J/1 Shaft- funnel shaped opening 10 ft x 10 ft, decends 50 ft vertically, in colluvium to an unknown depth, loose rock debris surrounds opening, hiking path (shown as dashed road on 1932 map) has several small adits and shafts excavated alongside of it in the vicinity of this shaft (these have been located on map), associated small dump approximately 5 ft high, forms a circular ring around opening, stake posted on south side.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Is hazardous needs plate.
C/1- Is covered but timbers need replacing in near future, accessible by hiking 100 ft. north from graded road.
F/7- Can be hazardous to youngsters.
G/1- Can be hazardous if a person located this shaft, approximately 250 ft northeast of S. Juanita Mine, there is not a well defined trail to this shaft.
J/1- Should be posted and fenced.
Access by hiking from currently maintained 4 Wheel-Drive road, none of locations are posted or fenced, evidence of recent visitation at A-G.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-8 Date: 3/4/86 Evaluator(s): DB/SS
Mine Name: Mistletoe mine
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 19,000 ft southeast
Closest Public Facility: Graded road to Kelly (3000 ft west of mine)
Geologic unit: Madera limestone (locally flaggy)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
3	20	A/7900	N	Shaft and mill foundation
3	21	B/7950	E	Adit
3	22	C/7925	N	Aerial tramway frame
3	23	D/7915	E	Mine dump
3	24	E/7850	S	Adit and stope
3	25,26	F/7830	N	Trash dump
3	27	G/8125	N	Blocked adit
3	29	H/8200	E	Blocked adit and newly excavated road

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.(X)stope	15.(X)trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.(X)other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/19	Mill foundation - 3 levels of crumbling foundations consisting of: concrete blocks; bricks; timbers; spikes; and iron sheeting; 40 ft along x 20 ft high. Stake placed behind small tree on lower level.
A/1	Shaft- 15 ft x 15 ft x 5 ft deep, in solid rock, filled with wood planks, 6 inch X 6 inch timbers, and sheet metal debris, located at base of mill foundation.
B/3	Adit- opening is 7 ft high x 5 ft wide, extends minimum of 30 ft horizontally, slumping of rock debris at entrance, not timbered, looks stable inside opening, stake placed at mine opening.
C/19	Aerial tramway frame- wooden frame, 30 ft high x 25 ft long x 10 ft wide, solid not rotted, mainly planks and 9 inch x 9 inch timbers.
D/14	Dump- mainly gravel and sand, loose and sloughing downhill. 10 ft wide x 10 ft long x 20 ft high.
E/3,11	Adit- opening is 5 ft wide x 6 ft high, extends minimum of 50 ft horizontally, stable, in solid rock, not timbered. Stope is approximately 15 ft above adit and drops 20 ft into adit, opening is 5 ft wide x 3 ft high, stable, in solid rock, small dump associated with adit and stope Staked at adit opening.
F/15	Trash dump- rotted timbers and corrugated sheet metal, spread over gulch an area 200 ft x 30 ft.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-8 Date: 3/4/86 Evaluator(s): DB/SS
Mine Name: Mistletoe mine
Location: NW 1/4, Sec. 6, T. 3S, R. 3W Distance from Magdalena: 19,000 ft southeast
Closest Public Facility: Graded road to Kelly (3,000 ft west of mine)
Geologic unit: Madera limestone (locally flaggy)

G/13,14 Adit- blocked no longer a hazard, associated dump is 30 ft long x 10 ft wide x 10 ft high.

H/3- Adit- blocked, no longer a hazard, newly excavated road dead-ends at the adit.

Recommendations or comments (access via, recent visitation, fenced, posted):

No evidence of recent visitation to this area. The adits are generally stable or blocked with rock debris. The wooden frames are in good shape. None of items are fenced or posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-9 Date: 3/17/86 Evaluator(s): DB/GJ
Mine Name: Hardscrabble camp
Location: NW,NE 1/4, Sec.25,26 T. 2S, R. 4 W Distance from Magdalena: 7,000 ft east of Magdalena.
Closest Public Facility: Graded road from US-60 (3,000 ft north)
Geologic unit: Mafic and felsic volcanic rocks.

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
4	19,20	A/6715	S,NE	Shaft, old pump, and Headframe
4	21	B/6715	N	Mine dump
4	22	C/6710	SW	Adit
4	23	D/6745	E	Blocked Adit
4	24	E/6750	W	Shaft
4	25,26	F/6760	E,SE	Shaft
4	27	G/6725	E	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 4 ft x 6 ft opening, minimum of 50 ft deep, sides supported by timbers and planks, fallen head frame, spikes sticking up, very rotted and weathered wood covering shaft.
B/14	Mine Dump- 50 ft x 30 ft x 15 ft deep, mostly sand and gravel, adjacent and west of shaft.
C/3	Adit- 5 ft high x 4 ft wide, extends 20 ft horizontally, fresh timbers at entrance, entrance looks stable, intersects shaft 20 ft into adit, 6 ft wide cut leading to entrance.
D/3	Adit- opening partially blocked by rubble, connects with shaft "9/E", approximately 50 ft to the east, air blowing in, dump to west is 15 ft in diameter x 5 ft deep, stake placed at adit opening.
E/1	Shaft- funnel-shaped opening 5 ft x 5 ft, decends 20 ft vertically, approximately 3 ft of mine dump material surrounds shaft, connects to adit "9/D", staked on east side, small exploration cut 20 ft to north.
F/1	Shaft- 10 ft x 6 ft opening, 20 ft deep, at 20 ft deep becomes adit opening to the east, shaft opening is weathered at top, small wash empties into shaft, mine dump on west side is 30 ft x 5 ft x 5 ft deep, staked placed on east side of shaft.
G/1	Shaft- vertical shaft 15 ft deep, 6 ft x 6 ft funnel-shaped opening, small mine dump on northside, unstable surface, staked on northside.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-9 Date: 3-17-86 Evaluator(s): DB/GJ
Mine Name: Hardscrabble camp
Location: NW,NE 1/4, Sec. 25,26 T. 2S, R. 4W Distance from Magdalena: 7,000/r, east of Magdalena
Closest Public Facility: Graded road from US-60 (3,000 ft north)
Geologic unit: Mafic and felsic volcanic rocks

Recommendations or comments (access via, recent visitation, fenced, posted):

Access via 4 wheel-drive road from graded road 500 ft east, none of the sites are fenced or posted, evidence of recent visitation.

A/1- No traspassing sign, but, shaft needs better collar and cap, railroad track lead to shaft.

E/1- Opening of shaft unmarked and becoming funnel-shaped.

F/1- Opening is unmarked.

G/1- Shaft not marked or fenced.

*Map Location/Item number (see field compiltion map):

AMS FIELD DATA SHEET

Site: AMS-10 Date: 3/18/86 Evaluator(s): DB/SS
Mine Name: Turquoise claims (Barrett)
Location: SW 1/4, Sec. 1S, T. 1S, R. 4W Distance from Magdalena: 6,000 ft north of Magdalena
Closest Public Facility: Road to Magdalena is approximately 750 ft to 2,000 ft east. (depending upon item described).
Geologic unit: Mafic and felsic volcanic rocks.

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
4	28	A/6630	E	Shaft
4	29	B/6430	S	Shaft
4	30,31	C/6430	N	Shaft
4	32,33	D/6445	E	Shaft and Adit
4	36	E/6450	E	Shaft
6	17	F/6575	NW	Shaft
6	18	G/6690	NW	Shaft
6	19	H/6590	E	Adit
6	20	I/6565	NE	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- opening is 10 ft x 10 ft, staked on west side, shaft decends 15 ft and then becomes an adit opening to the east, partially covered by 4 inch x 4 inch timbers, partially fenced but many timbers have fallen into shaft, rock debris partially covers timbers over opening, an exploration cut 5 ft x 8 ft x 10 ft deep is located 500 ft to the northeast and a small adit 6 ft x 4 ft x 10 ft horizontally is located approximately 200 ft to the east. A second pit exploration is located approximately 50 ft to the north of the shaft. Dump 30 ft north of shaft is 30 ft x 30 ft x 10 ft deep, mostly gravel and sand. Two additional shafts are located up the hill from "10/A". A small adit 6 ft x 4 ft x 20 ft horizontally is located approximately 1000 ft west of "10/A".
B/1	Shaft- 4 ft x 6 ft opening, decends 10 ft vertically, in solid rock, stable, not posted or fenced, associated dump is 10 ft x 30 ft x 2 ft deep, mostly gravel, staked on southside of shaft, small exploration cuts west of shaft.
C/1	Shaft- 5 ft x 10 ft opening, minimum of 100 ft deep, weathered and rotted wooden collar, in solid rock, not timbered, staked on southwest corner; associated dump is 10 ft x 20 ft x 5 ft deep mostly gravel and sand.

*Map Location/ Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-10 Date: 3/18/86 Evaluator(s): DB/SS
Mine Name: Turquoise claims (Barrett)
Location: SW 1/4, Sec. 15, T. 15, R. 4W Distance from Magdalena: 6,000 ft north of Magdalena
Closest Public Facility: Road to Magdalena is approximately 750 ft to 2,000 ft east
Geologic unit: Mafic and felsic volcanic rock

D/1 Shaft- 10 ft x 10 ft opening, decends 20 ft vertically, in slid rock, stable, 2 x 4 inch timbers litter bottom, at 20 ft depth shaft apparently becomes an east-west adit, weathered wooden fence standing well surrounds opening, wooden ladder descends to 5 ft depth then metal auger pipe decends to the bottom of shaft.

E/1 Shaft- 6 ft x 6 ft opening, wooden ledge forms false bottom at approximatly 20 ft depth, in colluvium as far as visible, wooden fence has fallen into shaft (very weathered and rotted wood), funnel-shaped at surface due to weathering of colluvium, staked on southside.

F/1 Shaft- 6 ft x 4 ft opening, decends 10 ft vertically, partially filled with rock debris in solid rock, small dump east of shaft is 4 ft x 8 ft x 1 ft high, approximalely 100 ft west of graded road.

G/1 Shaft- 4 ft x 6 ft opening, decends 8 ft vertically, partially filled with rock trash, in solid rock, small dump east of shaft 4 ft x 6 ft x 1/2 ft deep, staked on west side.

H/3 Adit- 6 ft x 5 ft opening, extends 20 ft horizontally, in solid rock, not timbered, standing well, posted but not fenced, 4 ft x 20 ft long cut leads to adit opening, dump west of adit is 15 ft x 4 ft x 2 ft deep, mosty graveland cobbles.

I/1 Shaft- circular opening 8 ft in diameter, decends 10 ft vertically, in colluvium, contains collapsed cover of boards and timbers in shaft, not posted or fenced, 100 ft west of graded road, no dump, staked next to turquoise colored marker.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Hazardous, needs sturdier fence, new cover, and needs to be posted and fenced.
B/1- Not fenced or posted.
C/1- Needs cap, fence, and warning sign.
D/1- Has weathered but standing fence.
E/1- Not fenced or posted, opening is becoming funnel-shaped.
F/1- Very accessible and visible from graded road, not fenced or posted.
G/1- Not fenced or posted.
H/3- Posted but not fenced.
I/1- Very accessible from graded road, not fenced or posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-11 Date: 3/20/86 Evaluator(s): DB/SR
Mine Name: Jack Frost area
Location: NW 1/4, Sec. 15, T. 2S, R. 4W Distance from Magdalena: 10,000 ft north
Closest Public Facility: Graded road 1000 ft to the north
Geologic unit: Altered mafic volcanic rocks and intrusives

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
5	1	A/6525	NE	Shaft
5	2	B/6530	N	Shaft
5	3	C/6520	NW	Shaft and Mine dump
5	4	D/6450	N	Shaft
5	5	E/6445	E	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- funnel-shaped opening 6 ft x 6 ft, 20 ft deep, in highly weathered rock at surface, unstable at surface, becomes adit at 20 ft depth that opens to the southwest, 2 barbed wire strands on posts around opening, staked at south side.
B/1	Shaft- 10 ft x 5 ft opening, 25 ft deep, wooden collar that is rotting, shaft appears stable, 2 adits (at 15 ft and 25 ft) opening to the southwest within the shaft, rusty iron cable attached to collar descends into shaft, staked on southside, weathered wooden fence surrounds shaft.
C/1	Shaft- opening is 10 ft x 15 ft, 15 ft deep, in solid rock, partially covered by rotted timbers, not fenced or posted, dump just north is 30 ft x 50 ft x 2 ft deep.
C/14	Dump- mostly gravel, sand, and cobbles, shaft staked on south side.
D/1	Shaft- opening is 5 ft x 10 ft x 30 ft deep, collar is rotted and collapsed, cribbing to 6 ft though many timbers have fallen into shaft, in colluvium to 10 ft then in solid rock, may be an adit from shaft at 30 ft, ground surrounding shaft opening is caving in places, staked on northside.
E/1	Shaft- funnel-shaped opening 10 ft x 15 ft, 20 ft deep, shaft has many rotted timbers and boards in it, adit opening to the northeast in shaft at 15 ft depth, staked on southside, shaft is in colluvium to 8 ft depth.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-11 Date: 3/20/86 Evaluator(s): DB/SR
Mine Name: Jack Frost area
Location: NW,NE 1/4, Sec. 15,16, T. 2S, R. 4W Distance from Magdalena: 12,000 ft northwest
Closest Public Facility: Graded road 50 ft to the south
Geologic unit: Altered mafic volcanic rocks and intrusives

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
5	6	F/6450	N	Shack
5	7	G/6435	N	Mine dump
5	8	H/6475	W	Shaft
5	9	I/6470	N	Mine dump
5	10,11	J/6475	W,E	Adit (timbered), Adit (untimbered)
5	12	K/6490	N	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
F/9	Tin Shack- 15 ft x 12 ft, wooden frame is stable but many corrugated tin panels are missing, pumping mechanism in shack.
G/14	Mine Dump- 30 ft northwest of shaft (E/1), 20 ft x 20 ftx 4 ft high, gravel, sand, and cobbles.
H/1	Shaft- 5 ft x 6 ft opening, 15 ft deep, collared and capped with weathered wooden boards, in solid rock, ladder under trap door goes into shaft, maybe an adit at bottom of shaft, staked on southside, associated dump to the north is 30 ft x 10 ft x 2 ft.
I/14	Mine Dump- 20 ft x 30 ft x 8 ft deep, mostly cobbles, and boulders approximately 100 ft northwest of shaft "H/1".
J/5,3	Adit- Open pit (stable walls) 20 ft deep trends east-west 50 ft, at bottom of pit is adit, opening is 10 ft x 10 ft, extends unknown horizontal distance, back and ribs of adit appears stable, in solid rock, not timbered, smaller adit opening is 1 ft x 6 ft extends 15 ft horizontally, timbered, may have been used for storage, staked at fence, wire fence attached to 9 x 9 inch timber blocks adit but can easily be climbed over.
K/1	Shaft- funnel-shaped, 6 ft x 8 ft opening, 15 ft deep, an adit opening to the northwest is at bottom of shaft, ground surface surrounding shaft is eroding back from opening, shaft is stable looking, ladder 5 ft below ground level goes to bottom of shaft, staked at northeast corner.

*Map Location/Item number (see field compilation map)

02

AMS FIELD DATA SHEET

Site: AMS-11 Date: 3/20/86 Evaluator(s): DB/SR
Mine Name: Jack Frost Area
Location: NE,SE 1/4, Sec. 16,9 T. 2S, R. 4W Distance from Magdalena: 15,000 ft northwest
Closest Public Facility: Graded road 200 ft to the east
Geologic unit: Volcanic rocks and intrusives

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
5	13	L/6510	E	Headframe
5	14	M/6500	N	Shaft
5	15	N/6490	S	Mine dump
5	16	O/6420	N	Headframe and shaft
5	17	P/6415	NW	Cut and Adit
5	18	Q/6435	NW	Shaft
5	19	R/6425	SE	Cut
5	20	S/6490	E	Shack

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
L/9	Headframe- weathered timbers and boards, appears stable, tin siding mostly missing.
M/1	Shaft- 10 ft x 6 ft opening, descends minimum of 35 ft, cribbing as deep as eye can see, ladder descends into shaft, stable, not posted or fenced, wooden track descends at 60° angle into shaft, several small exploration pits 50 ft south and 30 ft east of shaft.
N/14	Mine Dump- 5 ft x 3 ft x 6 ft high, mostly gravel and sard some cobbles, just east of shaft and headframe.
O/9,1	Headframe- Weathered but standing well. Shaft- 2 openings- one is 5 ft x 5 ft, 20 ft deep, other is 5 ft x 3 ft, descends minimum of 35 ft, both shafts are cribbed and have collars- weathered but in excellent condition, shafts not fenced or posted but must pass through a gate in fence to get to this area.
P/3	Adit- 15 ft cut in rock, then becomes an adit with opening mostly blocked by rock debris, adit extends an unknown distance.
Q/1	Shaft- funnel-shaped opening 10 ft x 10 ft, 13 ft deep, in solid rock, untimbered, ground surrounding opening is becoming funnel-shaped, not fenced posted, approximately 50 ft northwest of head frame "O/9".
R/5	Cut- horizontal cut 30 ft long x 6 ft wide x 10 ft deep, in solid rock small piles of rock debris have slid in but looks stable.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-11 Date: 3/20/86 Evaluator(s): DB/SR
Mine Name: Jack Frost Area
Location: NW,NE,SE 1/4, Sec. 15,16,9 T. 2S, R. 4W Distance from Magdalena: 15,000 ft northeast
Closest Public Facility: Graded road 200 ft to the east
Geologic unit: Altered Volcanic rocks and intrusives

S/9- Shack- storage shack, frame standing, roof missing, 6 ft x 6 ft, build into rock outcrop, has 1/8 inch steel door, says "danger" staked on eastsite

Recommendations or comments (access via, recent visitation renced post.

B/1- Wooden fence consists of a few 2 x 4 inch boards that are falling down.
C/1- No fenced-needs a fence and warning sign.
D/1- No fence or posts needs to be.
E/1- No fence of posts needs to be.
H/1- Collar and cap need to be stabilized.
K/1- Barbared-wire approximately 50 ft east prevents vehicles from driveing into area.
S/9- Shack- Storage shack, frame standing, foor missing, 6 ft x 6 ft , built into rock pile, has 1/8 steel door, says danger, staked on eastside
R/5- Not posted or fenced, cannot be seen from head frame (0-9)
S/9- Not used for some time, access via kiking from graded road 750 ft to the north.

*Map Location/Item number (see field compilation maps)

AMS FIELD DATA SHEET

Site: AMS-12 Date: 3/24/86 Evaluator(s): DB/GO
Mine Name: Mocking Bird Mine area
Location: NE 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 10,000 ft southeast
Closest Public Facility: Graded road from US-60 (7,500 ft north)
Geologic unit: Monzonite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
6	1	A/6890	NE	Shaft
6	2	B/6870	W	Adit
6	3	C/6910	W	Shaft
6	4	D/6950	W	Adit
6	5	E/7025	W	Adit
6	6,7	F/7025	NE,SE	Mine dump, trestle and track

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.(X)track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- opening is 6 ft x 6 ft, 30 ft deep, in solid rock, stable looking, small bush on northside partially blocks shaft, not posted or fenced, not timbered, associated dump on north side is 8 ft x 6 ft x 6 ft deep, mostly gravel and sand, staked on south side next to bush.
B/3	Adit- oval shaped, flat florred with dirt, 4 ft high x 3 ft wide opening extends minimum of 35 ft horzontally them curves to right, in solid rock not timbered, standing well.
C/1	Shaft- 4 ft x 4 ft opening, 25 ft deep, inclined at 70° angle and intercepts Adit (B/3) in solid rock, standing well, very small dump, located east of shaft.
D/3	Adit- 4 ft x 4 ft opening, extends 30 ft horizontally, in solid rock, not timbered, steel door approximately 10 ft into adit says explosives, this adit was probably used for explosives storage, weathered metal and wood sign (no writing) next to road.
E/3	Adit- Mocking Bird sign and wooden frame above entrance to adit, adit opening is 4 ft x 4 ft, extends unknown horzontal distance, wooden door in front of opening, just inside adit small cave-in and part of wooden frame has fallen in, in solid rock, standing well beyond cave-in.
F/14	Dump- track leads from adit to dump, dump is 10 ft x 30 ft x 15 ft high, mostly gravel, sand, and some cobbles.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-12 Date: 3/24/86 Evaluator(s): DB/GO
Mine Name: Mocking Bird Mine area
Location: SE 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 10,000 ft southeast
Closest Public Facility: Graded road from US-60 (7,500 ft north)
Geologic unit: Monzonite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
6	8,9	G/7025	SW	Shack
6	10	H/7045	W	Shaft, Head frame, and Shack
6	11,12	I/7145	NW	Shaft
6	13	J/7155	N	Head frame and Shack
6	14	K/7125	NW	Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.(X)track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
F/8	Track and trestle- approximately 50 ft of track from adit to dump, goes over an arroyo via a trestle, trestle is made of very weathered and rotted timbers and planks and is in danger of collapse, approximately 15 ft above arroyo.
G/9	Shack- 15 ft x 20 ft x 8 ft high, weathered 1 x 4 inch planks, standing well, no trespassing sign, corrugated iron roofing missing in northwest corner.
H/1	Shaft- 4 ft x 5 ft opening, covered with weathered and rotted timbers and planks, water at bottom of shaft, shaft is minimum of 35 ft deep.
I/1	Shaft- 12 ft x 10 ft opening (double shaft), cribbing to a minimum of 30 ft at 30 ft shaft may have an adit opening to south, in solid rock, standing well.
J/9	Head frame and ore shoot- approximately 30 ft high headframe, composed of weathered timbers and round wooden pillars, standing well, has collar at shaft opening.
J/9	Shack- 8 ft x 15 ft x 12 ft high, covered with corrugated iron panels, missing many panels, posted, not in danger of collapse.
K/14	Dump- located 35 ft southwest of shaft "I/1" and head frame, 40 ft x 10 ft x 5 ft, gravel, sand, and cobbles, numerous smaller dumps next to shaft and head frame.

AMS FIELD DATA SHEET

Site: AMS-12 Date: 3/24/86 Evaluator(s): DB/GO
Mine Name: Mocking Bird Mine area
Location: NE 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 10,000 ft southeast
Closest Public Facility: Graded road from US 60 that is 7,500 ft north
Geologic unit: Monzonite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
6	15	L/7180	NW	Shaft
6	16	M/7035	SE	Shaft
6	17	N/7010	SE	Shaft
7	1,2	O/7000	W	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
L/1	Shaft- funnel-shaped opening 4 ft x 5 ft, descends approximately 30 ft vertically in solid rock except upper 5 ft in colluvium, not timbered, 10 ft x 6 ft x 5 ft high dump next to shaft, mostly gravel, sand, and some cobbles.
M/1	Shaft- 8 ft x 8 ft opening, decends 30 ft vertically, in solid rock, top is colluvium and is becoming funnel-shaped, fenced with stable corner posts and 3 strands of barbed wire, access by 4 wheel-drive from graded road 1000 ft to the west.
N/1	Shaft- 8 ft x 8 ft opening, decends 20 ft vertically, in solid rock, top is in colluvium and is eroding to funnel shape, large dead tree lies across top of shaft, fenced with steel corner posts and 3 strands of barbed wire, access via 4 wheel-drive road from graded road 1,000 ft to the west.
O/3	Adit- 4 ft x 4 ft to opening, extends 15 ft horizontally, in solid rock, looks stable, no distinct dump, access by 4 wheel-drive road then hiking 60 ft uphill from road.

Recommendations or comments (access via, recent visitation, fenced, posted):

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-12 Date: 3/24/86 Evaluator(s): DB/GO
Mine Name: Mocking Bird Mine area
Location: SE 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 10,000 ft southeast
Closest Public Facility: Graded road from US-60 (7,500 ft north)
Geologic unit: Monzonite

Recommendations or comments (access via, recent visitation, fenced, posted):

-Access to items A-C by 4 wheel-drive road.
-Access to items D-L by hiking north in arroyo from terminus of 4 wheel-drive road.
-Access to items M and N by 4 wheel-drive road.
I/1- Shaft is partially covered and has ladder descending into it, not fenced or posted, in good condition, appears to be visited and shaft entered regularly.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-13 Date: 3/25/86 Evaluator(s): DB/SS
Mine Name: Silver Hill Area
Location: NE 1/4, Sec. 19, T. 2S, R. 4W Distance from Magdalena: 15,000 ft west-northwest
Closest Public Facility: Graded road to Magdalena is south
Geologic unit: Lahar Peak andesite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
6	21	A/6710	N	Shaft
6	22	B/6800	NE	Shaft
6	23	C/6780	S	Shaft and Mine dump
6	24	D/6750	NE	Shaft and Mine dump
6	25	E/6760	NE	Shaft and Mine dump
6	26	F/6760	NE	Shaft and Mine dump
6	27	G/6720	NE	Shaft and Mine dump
6	28	H/6710	NE	Shaft and Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- opening is 4 ft x 5 ft, descends 6 ft vertically, in solid rock, stable, small dump surrounds opening, staked near tree.
B/1	Shaft- 8 ft diameter opening, descends 8 ft vertically, in solid rock, standing well, dump 2 ft x 6 ft x 2 ft deep associated with shaft.
C/1	Shrft- 10 ft x 6 ft opening, descends 20 ft vertically, in solid rock, has wooden collar but no cover, stable looking.
D/1	Shaft- 3 ft x 4 ft opening, descends 25 ft vertically, cribbed to 15 ft, cribbing is falling in on eastside, shaft in solid rock.
D/14	Dump- associated dump surrounds shaft, dump is 4 ft x 2 ft deep, mostly gravel and cobbles.
E/1	Shaft- 4 ft x 8 ft opening, descends 15 ft vertically, in solid rock, stable.
E/14	Dump- surrounds shaft, 2 ft x 2 ft high, mostly gravel and cobbles.
F/1	Shaft- 8 ft in diameter, descends 8 ft vertically, in solid rock, standing well.
F/14	Dump- associated dump is mostly gravel and cobbles.
G/1	Shaft- 6 ft x 8 ft opening, descends 30 ft vertically, remains of cover on west side, in solid rock, standing well.
G/14	Dump- associated dump surrounds opening, 4 ft x 2 ft deep, mostly sand, gravel, and cobbles.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-13 Date: 3/25/86 Evaluator(s): DB/SS
Mine Name: Silver Hill Area
Location: NE 1/4, Sec. 19, T. 2S, R. 4W Distance from Magdalena: 15,000 ft west-northwest
Closest Public Facility: Graded road to Magdalena is south
Geologic unit: Lahar Peak andesite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
6	28	H/6710	NW	Shaft and Mine dump
6	29	I/6750	W	Shaft and Mine dump
6	30	J/6780	S	Shaft and Mine dump
6	31	K/6830	S	Shaft and Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/1	Shaft- 6 ft x 8 ft opening, descends 30 ft vertically, remains of cover on west side, in solid rock, standing well.
G/14	Dump- associated dump surrounds opening, 4 ft x 2 ft deep, mostly sand, gravel, and cobbles.
H/1	Shaft- 6 ft x 10 ft opening, descends 35 ft vertically, in solid rock, standing well, on opposite side of arroyo from "G-1".
H/14	Dump- associated dump surrounds shaft, 6 ft x 8 ft deep, mostly gravel, cobbles, and sand.
I/1	Shaft- 6 ft x 6 ft opening, descends 12 ft vertically, in solid rock, a few timbers remain of a collar, standing well, second shaft is located 10 ft south and is 4 ft x 6 ft x 8 ft deep, also in solid rock.
I/14	Dump- associated dumps surround shaft, 4 ft x 4 ft deep, mostly gravel cobbles, and sand.
J/1	Shaft- 6 ft x 8 ft opening, descends 30 ft vertically, has short (5 ft) drift opening to the south 8 ft below ground surface, opening of shaft is weathering to a funnel shape, one timber lies across shaft opening.
J/14	Dump- associated dump is 4 ft x 15 ft x 5 ft deep, mostly gravel, sand, and cobbles.
K/1	Shaft- 4 ft x 6 ft opening, descends 40 ft vertically, in solid rock, may be several drifts opening from shaft, associated dump is 30 ft x 20 ft x 3 ft deep, a fence running east-west blocks easy access to shaft.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-13 Date: 3/25/86 Evaluator(s): DB/SS
Mine Name: Silver Hill Area
Location: NE 1/4, Sec. 19, T. 2S, R. 4W, Distance from Magdalena: 15,000 ft west-northwest
Closest Public Facility: Graded road to Magdalena is south
Geologic unit: Lahar Peak andesite

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Not fenced or posted, graded road 100 ft south.
B/1- Not fenced or posted-staked on southeast side, access by hiking 350 ft uphill from graded road.
C/1- Not fenced or posted, access by 4 wheel-drive road, staked on east side.
D/1- Not fenced or posted, next to graded road, very accessible, staked on east side.
E/1- Not fenced or posted, access by hiking 500 ft north from 4 wheel-drive road, staked on northeast side.
F/1- Not fenced or posted, staked on southwest side, access by hiking 500 ft north from 4 wheel-drive road.
G/1- Not posted or fenced, staked on west side, access by hiking 1,500 ft north from graded road.
H/1- Not posted or fenced, staked on south side, access by hiking 1,750 ft north from graded road.
I/1- Not posted or fenced, access by hiking 2,500 ft north from graded road.
J/1- Not posted or fenced, access by hiking 3,250 ft north from graded road.
K/1- Not posted or fenced, access by hiking 4,000 ft north from graded road.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-14 Date: 3/27/86 Evaluator(s): DB/GJ
Mine Name: Hermit and Vindicator Mine area
Location: NW 1/4, Sec. 30, T. 2S, R. 3W Distance from Magdalena: 13,000 ft east
Closest Public Facility: Graded road 4,000 ft northeast from mines
Geologic unit: Monzonite intrusive

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
7	2	A/7590	NE	Adit
7	3,4	B/7575	SW	Mine dump
7	5	C/7660	E	Incline
7	6	D/7460	NE	Adit
7	7	E/7450	SW	Mine dump
7	12	F/6965	NW	Vindicator Shaft
7	13	G/6950	E	Vindicator Mine dump
7	14	H/6880	N	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Adit- 5 ft x 6 ft opening, 1 ft of water standing in adit, extends unknown horizontal distance, in solid rock, standing well, sign warning of rattlesnakes.
B/14	Dump- 15 ft x 30 ft x 10 ft deep, mostly gravel, sand, and some cobbles and boulders 25 ft southwest of adit "A/3".
C/4	Incline- 5 ft hign x 10 ft wide, inclined at 45° angle, descends 25 ft, in solid rock, standing well, loose rock debris sloughing into opening, dump southwest of incline scattered on steep slope.
D/3	Adit- opening partially sealed by rock debris slide, can be dug out with shovel, opening is 5 ft x 4 ft high, extends minimum of 20 ft horizontally, in colluvium, danger of sloughing rock, mine dump 25 ft southwest.
E/14	Dump- 15 ft x 10 ft x 15 ft deep, mostly gravel, cobbles, and some sand.
F/1	Vindicator shaft- opening is 6 ft x 5 ft, collared and cribbed, but wood is very rotted, loose material around collar, dilapidated barbed wire fence at top, descends approximately 150 ft, ladder extending to unknown depth, access via hiking 500 ft from 4 wheel-drive road to the southeast, evidence of recent visitation.
G/14	Vindicator mine dump- 55 ft x 30 ft x 10 ft high, mostly sand and gravel with few boulders, slopes at angle of repose.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-14 Date: 3/27/86 Evaluator(s): DB/GJ
Mine Name: Hermit and Vindicator Mine areas
Location: NW 1/4, Sec. 30, T. 2S, R. 3W Distance from Magdalena: 13,000 ft east
Closest Public Facility: Graded road 4,000 ft northeast from mines
Geologic unit: Monzonite intrusive

H/1 Shaft- opening is 6 ft diameter, 15 ft deep, shaft is on north side of arroyo, in solid rock, shaft is partly filled with fine-grained rock debris, small mine dump on side of arroyo.

Recommendations or comments (access via, recent visitation, fenced, posted):

F/1- Needs new cover, access by hiking 500 ft from 4 wheel-drive road to the southeast, evidence of recent visitation.
C/4- Access by hiking 100 ft up slope from adit "A/3".
H/1- No fenced or posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-15 Date: 4/1/86 Evaluator(s): DB/DL
Mine Name: Kelly Mine
Location: SE 1/4, Sec. 36, T. 3S, R. 4W Distance from Magdalena: 15,000 ft southeast
Closest Public Facility: Graded road to Magdalena located 2,000 ft southwest at the Kelly church
Geologic unit: Kelly limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
7	15	A/7575	NE	Traylor Shaft
7	16	B/7575	S	Traylor headframe and Ore bin
7	17	C/7585	S	Mine dump
7	18	D/7565	NE	Tailings
7	19	E/7570	NE	Tri-Bullion mill site
7	20	F/7560	N	Mine Dump
7	21	G/7575	NE	Shack

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.(X)tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 15 ft x 10 ft opening, descends minimum of 200 ft vertically, in solid rock with uppermost 6 ft cemented, covered by timbers and chain-link fencing, cover is a deterrent to people but should be made more adequate.
B/7	Loading Bin and Building- constructed of corrugated iron sheeting, 10 x 10 inch timbers, and iron girders with a concrete foundation, standing well except for part facing south which has collapsed exposing the foundation.
B/9	Headframe- 60 ft high headframe, constructed of iron girders and wooden timbers, has iron ladder ascending to top, structure is standing well.
C/14	Dump- located 20 ft northwest of Traylor shaft, 170 ft x 60 ft x 12 ft high, mostly sand, gravel, and some cobbles, several smaller dumps in the area.
D/13	Tailings- 50 ft x 20 ft x 15 ft high, strong smell of sulfur, runs into an arroyo, not dammed at present, arroyo runs into town of Kelly.
E/9	Mill site- brick, iron-girdders, concrete, wood planks, and timbers, standing well except for rotted wood, much mine debris (wood, nails, bricks...) liter the area, many places for a child to fall from.
F/14	Dump- 35 ft west of Tri-Bullion Mill, 100 ft x 5 ft x 15 ft high, mostly cobbles, gravel, and sand, 2 smaller dumps located just south of this one.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-15 Date: 4/1/86 Evaluator(s): DB/DL
Mine Name: Kelly Mine
Location: NE,SE 1/4, Sec. 1,36, T. 3S,2S, R. 4W Distance from Magdalena: 15,000 ft southeast
Closest Public Facility: Graded road to Magdalena located 2,000 ft southwest at the Kelly chruch
Geologic unit: Kelly limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
7	21	G/7575	NE	Shack
7	22	H/7750	N	Mine dump
7	23	I/7750	SW	Paschal shaft
7	24	J/7750	E	Shack and headframe
7	25	K/7810	NE	Adit
7	26	L/7825	NE	Adits
7	27	M/7890	NE	Adit
7	28	N/7635	E	Loading bin

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/9	Shack- 12 ft x 15 ft wooden shack, frame and parts of walls standing, roof is rotted and many boards with nails liter the area, several foundations and piles of brick, concrete, wood and other building material in the area.
H/14	Dump-335 ft x 35 ft x 30 ft high, wedge shaped, mostly sand, gravel, and cobbles, small areas stained with leached sulfides.
I/1	Shaft- collared and cribbed to 20 ft deep with 12 x 12 inch timbers, opening of unknown dimensions due to severe weathering and under cutting of ground surface surrounding shaft, collar and frame above shaft are leaning and wall fall into shaft in the near future, descends minimum of 200 ft vertically.
J/9	Shack and Headframe- both structures have rotted and caving wooden frames and boards, shack is partially covered with corrugated iron sheets, roof has mostly fallen in, shack is posted, debris from other structures liter the area, this debris consits of corrugated and rusted iron, boards with spikes, and a rusted boiler.
K/3	Adit- triangular opening 4 ft x 6 ft, extends unknown horizontal distance, wooden door lying just inside opening, in solid rock, standing well, not timbered, small dump southeast of adit.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-15 Date: 4/1/86 Evaluator(s): DB/DL
Mine Name: Kelly Mine
Location: SE 1/4, Sec. 36, T. 3S, R. 4W Distance from Magdalena: 15,000 ft southeast
Closest Public Facility: Graded road to Magdalena located 2,000 ft southwest at the Kelly Church
Geologic unit: Kelly Limestone

L/3 Adits- double adit, 4 ft x 6 ft opening on both, entend minimum of 20 ft horizontally, in solid rock, appears stable, not timbered, small dump to southwest.

M/3 Adit- 5 ft x 5 ft opening, wooden door at opening (ajar), extends minimum of 30 ft horizontally, in solid rock, not timbered, appears stable, there may be a shaft 20 ft into adit.

N/7 Loading Bin- 30 ft x 20 ft wooden structure, some timbers (8 x 8 inch & 6 x 6 inch) are rotted and fallen, most are still standing, roof has collapsed, parts of floor are missing, foundation consisting of wooden pilings is leaning.

Recommendations or comments (access via, recent visitation, fenced, posted):

A-G- Accessible by hiking 1,500 ft from Kelly Church, fenced and posted, evidence of recent visitation.

B/7- A hazard for people climbing about, especially because ladder reaches to the ground.

I/1- Very hazardous due to under cutting of ground surface, fenced by 3 strands of barbed wire, posted, but evidence of recent visitation, accessible by hiking 2,000 ft from Kelly Church.

K/3- Hiked 250 ft up gully to this adit, not visible from Pasachal shaft.

L/3- Openings are partially blocked by sloughing rock debris, accessible by hiking 300 ft up gully, no evidence of recent visitation.

M/3- Accessible by hiking 400 ft up gully, no evidence of recent visitation.

N/7- Accessible by hiking 1500 ft from graded road at Kelly church, edivence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-16 Date: 4/2/86 Evaluator(s): DB/KC
Mine Name: Paschal Shaft and Town of Kelly areas
Location: SE,SW,NE 1/4, Sec. 36,21 T. 2S,3S R. 4W,3W Distance from Magdalena: 15,000 southeast
Closest Public Facility: Graded road to Magdalena located 3,000 ft southwest at the Kelly Church: for D and E, graded road is located only 500 ft southwest
Geologic unit: Limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
7	29	A/7860	S	Adit
7	30,31	B/8000	NE	Adit, Incline
7	32	C/7860	NE	Shaft
7	33	D/7520	SE	Contact shaft
7	34	E/7520	SE	Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Adit- double adit, partially blocked by rock debris, 2 ft high x 6 ft wide opening expanding to 5 ft high x 6 ft wide adit, in solid rock, appears stable, adits extends minimum of 20 ft horizontally.
B/3,4	Adit- 5 ft x 6 ft opening, extends minimum of 25 ft horizontally, in solid rock, appears stable, 5 ft northwest of adit is an Incline that has been partially blocked by rock debris, incline opening is 4 ft high x 8 ft wide, extends unknown distance, Dump- southwest of adit is 20 ft x 5 ft x 5 ft high, mostly sand and gravel.
C/1	Shaft- 6 ft x 10 ft funnel-shaped opening, descends minimum of 100 ft vertically, covered by wooden frame that is rotted and partly fallen into shaft.
D/1	Shaft- 15 ft x 10 ft opening, descends approximately 40 ft, in solid rock, eroding at ground surface to a funnel-shape.
E/14	Dump- located 20 ft west of contact shaft, 55 ft x 30 ft x 8 ft high, mostly sand and gravel, red in color, visible from Kelly Church.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-16 Date: 4/2/86 Evaluator(s): DB/KC
Mine Name: Paschal Shaft Town of Kelly areas
Location: SE,SW,NE 1/4, Sec. 36,21 T. 2S,3S, R. 4W,3W Distance from Magdalena: 15,000 southeast
Closest Public Facility: Graded road to Magdalena located 3,000 ft southwest at the Kelly Church: for D and E, graded road is located only 500 ft southwest
Geologic unit: Limestone

Recommendations or comments (access via, recent visitation, fenced, posted):

A/3- Access by 4 wheel-drive road, not posted or fenced, evidence of recent visitation.
B/3- Access by 4 wheel-drive road located 20 ft above adit, not posted or fenced, evidence of recent visitation.
C/1- Access by hiking 300 ft up gulch from Paschal Shaft, no evidence of recent visitation, not posted or fenced.
D/1- Access by hiking 500 ft from Kelly Church, posted and fenced with barbed wire strands, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-17 Date: 4/3/86 Evaluator(s): DB/KC
Mine Name: Arroyo Landavaso area
Location: SE,SW 1/4, Sec. 18,17 T. 2S, R. 4W Distance from Magdalena: 16,000 ft northwest
Closest Public Facility: NM-52 is located 3,000 ft to the east
Geologic unit: Mafic volcanic rocks

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
8	1	A/6660	SE	Shaft
8	2	B/6820	SE	Shaft
8	3	C/6820	NW	Mine dump
8	4	D/6845	SE	Shaft and Mine dump
8	5	E/6795	S	Shaft and Mine dump
8	6	F/6600	E	Shaft
8	7	G/6600	W	Mine dump
8	8	H/6650	S	Shaft and Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 4 ft x 6 ft opening, descends 25 ft vertically, in solid rock, appears stable, small dump (10 ft x 6 ft x 2 ft high) surrounds shaft.
B/1	Shaft- 3 ft x 6 ft funnel-shaped opening, descends approximately 200 ft vertically, timbered and cribbed to unknown depth, large rotted timber lying across opening.
C/14	Dump- surrounds shaft "A/1", 15 ft x 15 ft x 20 ft high mostly sand and gravel, a slightly smaller dump is located at entrance to adit, adit is blocked by dump debris and just west of shaft.
D/1,14	Shaft- 6 ft x 8 ft opening, descends 20 ft vertically, in solid rock, not timbered, appears stable. Dump is on east side- 20 ft x 4 ft x 4 ft high, mostly gravel and cobbles.
E/1,14	Shaft- 4 ft x 6 ft opening, decends 20 ft vertically, cribbing to 10 ft deep, may have a small drift off shaft opening to west at 10 ft depth. Dump is 10 ft x 5 ft x 4 ft high, mostly gravel and cobbles.
F/1	Shaft- double opening 8 ft x 6 ft, collared and cribbed to unknown depth, shaft is a minimum of 100 ft deep, ground surface surrounding opening is eroding to a funnel-shape, cap on shaft is rotted and falling into shaft.
G/14	Dump- surrounds shaft "F/1", 35 ft x 6 ft x 8 ft high, forms northern bank of arroyo, mostly sand and gravel, some cobbles.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-17 Date: 3/27/86 Evaluator(s): DB/GJ
Mine Name: Arroyo Landavaso Area
Location: SE,SW 1/4, Sec. 18,17 T. 2S, R. 4W Distance from Magdalena: 16,000 ft northwest
Closest Public Facility: NM-52 is located 3,000 ft to the east
Geologic unit: Mafic volcanic rocks

H/1 Shaft- funnel-shaped opening 4 ft x 4 ft descends minimum of 20 ft vertically, opening has brush, branches and rock debris patially blocking it.

H/14 Dump- located on south side of "H/1", 10 ft x 3 ft x 2 ft high, mostly gravel and cobbles.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Access by hiking 500 ft northeast from graded road, not posted or fenced, staked next to bush northwest of opening, no evidence of recent visitation.

B/C/D/- Access by hiking 3,000 ft west from NM-52, not posted or fenced, staked on southeast side, no evidence of recent visitation. Dump visible from NM-52.

E/1- Access by hiking 3,500 ft west from NM-52, not posted or fenced, staked on west side, no evidence of recent visitation, turquoise claim markers here and in surrounding exploration pits.

F/1- Access by hiking 2,500 ft west from NM-52, not posted, partly capped, not fenced, staked on south side, no eidence of recent visitation.

H/1- Access by hiking 2,000 ft west from NM-52, not posted or fenced, no evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-18 Date: 4/9/86 Evaluator(s): DB/SR
Mine Name: Turquoise Claims (Barrett)
Location: NE,SE,SW 1/4, Sec. 15,10,11, T. 2S, R. 4W Distance from Magdalena: 11,000 ft north
Closest Public Facility: Graded road to Magdalena
Geologic unit: Mafic volcanic rocks

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
8	9	A/6480	NE	Shaft
8	10,11	B/6460	N,W	Shaft
8	12	C/6460	NE	Shaft
8	13	D/6370	E	Incline and Mine dump
8	14	E/6380	NW	Adit
8	15	F/6375	NW	Mine dump
8	16	G/6400	SW	Adit
8	17	H/6370	E	Shaft and Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 10 ft diameter funnel-shaped opening, decends 10 ft vertically, upper 5 ft in colluvium, lower 5 ft in solid rock, rock debris partly fills shaft, small dump 5 ft diameter x 3 ft high on northwest side, staked next to bush on dump, mostly sand and gravel, shaft not collared.
B/1	Shaft- 4 ft x 6 ft opening, descends 20 ft vertically, in solid rock, covered with rotted 2 x 4 inch boards, not collared, small dump 8 ft x 3 ft x 3 ft high on northwest side, mostly sand and gravel.
C/1	Shaft- 4 ft x 6 ft opening, descends 15 ft vertically, in solid rock, appears stable, upper 2 ft in colluvium which is weathering to a funnel-shape at opening, 8 ft x 4 ft x 1 ft high dump on southside.
D/4	Incline- 4 ft x 6 ft opening, in solid rock, descends minimum of 5 ft at a 60° angle, partially covered with 4 x 8 inch weathered timbers, some timbers have fallen into the incline.
D/14	Dump- 30 ft x 5 ft x 5 ft high, mostly sand and gravel, located on southeast side of "D/4", staked.
E/3	Adit- 5 ft x 5 ft opening, extends 20 ft horizontally, in solid rock, standing well, 10 ft high overhang at opening, adit not timbered.
F/14	Dump- located 10 ft southeast of adit, 8 ft diameter x 6 ft high, mostly sand and gravel, wooden retaining wall in center of dump.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-18 Date: 4/9/86 Evaluator(s): DB/SR
Mine Name: Turquoise Claims (Barrett)
Location:NE,SE,SW 1/4, Sec. 15,10,11, T. 2S, R. 4W Distance from Magdalena: 11,000 ft north
Closest Public Facility: Graded road to Magdalena
Geologic unit: Mafic Volcanic rocks

G/3 Adit- 5 ft x 5 ft opening, extends 20 ft horizontally, not timbered, in solid rock, standing well, 10 ft vertical overhang above adit opening, dump located 10 ft southeast is 20 ft x 3 ft x 3 ft high, mostly sand and gravel.

H/1,14 Shaft- 4 ft x 6 ft opening, descends 30 ft vertically, in solid rock, appears stable, not collared, dump on east side is 20 ft x 2 ft x 2 ft high, mostly gravel and cobbles.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Barbed wire fenced has fallen on west side, not posted, no evidence of recent visitation, access by hiking 150 ft south from 4 wheel-drive road.

B/1- Not fenced, blue sign with no words on west side, access by hiking 600 ft southeast from 4 wheel-drive road, evidence of recent visitation, staked on northeast side.

C/1- Not fenced or posted, access by 4 wheel-drive road, evidence of recent visitation, staked on northeast side.

D,E,F,G- Accessible by 4 wheel-drive road, not fenced or posted, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-18 Date: 4/9/86 Evaluator(s): DB/SR
Mine Name: Turquoise Claims (Barrett)
Location:NE,SE 1/4, Sec. 10, T. 2S, R. 4W Distance from Magdalena: 13,000 ft north
Closest Public Facility: Graded road to Magdalena
Geologic unit: Mafic volcanic rocks

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
8	18	I/6375	E	Incline and Mine dump
8	19	J/6370	E	Shaft and Mine dump
8	20	K/6320	E	Shaft
8	21	L/6320	E	Shaft
8	22	M/6340	NE	Shaft and Mine dump
8	23,24	N/6450	SE	Shaft and Adit
8	25,26	O/6460	S	Shaft and Mine dump
8	27	P/6470	E	Shaft and Mine dump

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
I/4	Incline- 4 ft x 6 ft opening, descends minimum of 30 ft at a 60° angle, an adit open to the south is 10 ft below ground surface, incline is in solid rock, appears stable.
I/14	Dump- 30 ft x 5 ft x 15 ft high, mostly gravel, sand, and cobbles.
J/1	Shaft- 4 ft x 6 ft opening, descends 15 ft, appears to be caving-in, rotted boards lie at bottom of shaft (were probably a cap at one time).
J/14	Dump- 8 ft x 2 ft x 2 ft high, mostly sand and gravel.
K/1	Shaft- 4 ft x 6 ft opening, descends 20 ft then becomes an east-west adit of unknown horizontal length, shaft is in solid rock, cribbing to 8 ft depth, appears stable, bottom of shaft is littered with garbage, no dump present.
L/1	Shaft- 4 ft x 6 ft opening, descends 25 ft then becomes an adit opening to the west, shaft is in solid rock, appears stable, has badly weathered cap that is missing east half.
M/1,14	Shaft- 4 ft x 6 ft opening, descends 15 ft vertically, in solid rock except uppermost 2 ft in colluvium which is eroding to a funnel-shape, sides appear stable, dump on northeast side is 15 ft x 4 ft x 3 ft high.

*Map Location/Item number (see field compilation map)

s

AMS FIELD DATA SHEET

Site: AMS-18 Date: 4/9/86 Evaluator(s): DB/SR
Mine Name: Turquoise Claims (Barrett)
Location: SW 1/4, Sec. 10, T. 2S, R. 4W Distance from Magdalena: 13,000 ft north
Closest Public Facility: Graded road to Magdalena
Geologic unit: Mafic volcanic rocks

N/1,3 Shaft- 4 ft x 6 ft opening, descends 20 ft, in solid rock, has adit-like opening which can fool the unwary, shaft is just inside adit-like opening, not collared, 10 ft uphill from this opening is a vertical opening of 10 ft depth, then at 10 ft depth there is an adit that opens to the south, the adit is 6 ft x 6 ft and extends an unknown horizontal distance, not timbered, in solid rock, appears stable.

N/14 Dump- located 15 ft north from shaft "N/1", 15 ft x 7 ft x 7 ft high mostly gravel, sand, and cobbles.

O/1,14 Shaft- 4 ft x 6 ft opening, descends 20 ft vertically, in solid rock except uppermost 1 ft which is in collumium and eroding to a funnel-shape, remainder of shaft appears stable, associated dump is 20 ft x 2 ft x 1 ft high, mostly gravel and sand, staked on eastside, shaft is not collared.

P/1 Shaft- 4 ft x 6 ft funnel-shaped opening, descends 30 ft vertically, in solid rock except for uppermost 1 ft which is in colluvium, not collared, appears stable below uppermost 2 ft.

P/14 Dump- 25 ft x 4 ft x 4 ft high, mostly gravel and sand, staked on eastside.

Recommendations or comments (access via, recent visitation, fenced, posted):

H,I,J/- Accessible by 4 wheel-drive road, evidence of recent visitation, not fenced or posted, H and J staked on east side, owls live within the incline "I/4".

K/1- Accessible by graded road from Magdalena, evidence of recent visitation, cap has mostly fallen into shaft, not posted, collar extends 3 ft above ground and surrounds shaft.

L/1- Accessible by graded road from Magdalena, evidence of recent visitation, not posted or fenced. The adits at bottom of shafts K and L may extend beneath graded road from Magdalena. Very small dump located 15 ft southeast.

N,O,P/- Accessible by hiking 750 ft southeast from graded road to Magdalena, evidence of recent visitation at "N" only, none are fenced or posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-19 Date: 4/10/86 Evaluator(s): GJ/DB Page 1 of 1
Mine Name: Hardscrabble Mine
Location: NW 1/4, Sec. 30, T. 2S, R. 3W Distance from Magdalena: 14,000 ft east
Closest Public Facility: 4 wheel-drive road 3,000 ft to the east
Geologic unit: Kelly limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
9	1	A/7700	NW	Upper tram landing-control rod
9	2	B/7800	W	Open cut
9	3,4	C/7975	NE,SW	Shaft
9	5	D/7875	E	Adit
9	6,7	E/7900,7600	W	Hardscrabble dumps
9	8	F/7925	SW	Entrance to Hardscrabble adits
9	9	G/7240	NW	Loading bin

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.(X)other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/19	Upper tram landing- Hardscrabble mine, steep mine dump slope below.
B/5	Open cut on Hardscrabble- Cut is on north face of mountain, cut is approximately 25 ft high x 40 ft long, large boulders up to 10 ft diameter are spalling and falling off, evidence of recert visitation, no adit or shaft found at "B/5".
C/1	Shaft- mined along northeast-southwest trending vein approximately 3 ft wide, decends to unknown depth but goes at least 40 ft, timbers wedged in to keep mined area open, funnel-shaped at top, loose debris makes closer examination dangerous.
D/3	Adit- 4 ft high x 4 ft wide, extends approximately 40 ft to the east, small dump is located at entrance.
E/14	Hardscrabble mine dumps- slopes are above their angle of repose and susceptible to becoming debris slides.

Recommendations or comments (access via, recent visitation, fenced, posted):

A through E- Access via 3/4 hour hike up arroyo from Vindicator mine, not fenced or posted, all sites are visited at lease infrequently by rockhounds, these mines difficult to get to but highly visible from US-60 to the northwest.
F/3- Needs to be posted.
G/7- Access by hiking 2,000 ft up arroyo from Vindicator, evidence of visitation not posted or fenced.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-20 Date: 4/11/86 Evaluator(s): DB/GO
Mine Name: Anchor Canyon Mine
Location: SE 1/4, Sec. 19, T. 2S, R. 3W Distance from Magdalena: 16,000 ft east
Closest Public Facility: Highway 60 is 3,000 ft to the north
Geologic unit: Granite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
9	9	A/7075	S	Anchor Adit
9	10	B/7225	SE	Incline
9	11	C/7215	SE	Mine dump
9	12,13	D/6800	SE	Shaft
9	14	E/6500	S	Adit
9	15	F/7075	E	Adit
9	16	G/7100	E	Incline
9	17	H/6690	NE	Shaft
9	18	I/6680	NE	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Adit- 5 ft x 6 ft opening partially blocked by rock debris, good water 3 ft deep inside adit, adit extends minimum of 20 ft horizontally.
B/4	Incline- 6 ft x 3 ft opening, descends at 40° to unknown depth, mostly blocked by rock debris which has sloughed from above.
C/14	Dump- 30 ft x 10 ft x 10 ft high, mostly sand and gravel.
D/1	Shaft- 4 ft x 6 ft opening, descends 15 ft, in solid rock, not timbered, appears stable, small dump 15 ft x 2 ft x 2 ft high on west side of shaft, mostly gravel and cobbles.
E/3	Adit- Barrett claim (turquoise paint), 3 ft x 5 ft opening due to sloughing rock debris, extends minimum of 15 ft horizontally, in solid rock, appears stable, not timbered, small dump 15 ft north is 8 ft diameter x 2 ft high, mostly sand and gravel.
F/3	Adit- 5 ft x 5 ft opening, extends 25 ft horizontally and then meets incline that is 10 ft up slope, adit is in solid rock, appears stable although 2 four ft square blocks have fallen at entrance, dump located 10 ft west is 15 ft x 5 ft x 10 ft high, mostly sand and gravel.
G/4	Incline- 6 ft x 6 ft opening, descends to unknown depth at an angle of 45°, in solid rock, appears stable, not timbered, small dump downslope and an adit upslope.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-20 Date: 4/11/86 Evaluator(s): DB/GO
Mine Name: Anchor Canyon Mine
Location: SE 1/4, Sec. 24, T. 2S, R. 3W Distance from Magdalena: 11,000 ft east
Closest Public Facility: Graded road 2,500 ft to the west
Geologic unit: Granite

H/1 Shaft- 4 ft x 4 ft opening, descends 30 ft vertically, top has a funnel-shape, cribbing to minimum of 10 ft, ladder descends into shaft, at least 10 ft, cribbing and ladder are rotted, dump 15 ft northwest, 20 ft x 10 ft x 5 ft high, mostly sand and gravel.

I/1- Shaft- 4 ft x 6 ft opening, badly eroded at surface, cribbing to 3 ft depth, rotted wooden ladder extends into shaft, upper 3 ft in colluvium remainder in solid rock, part in solid rock is standing well, small dump in arroyo is 10 ft x 2 ft x 2 ft remainder has washed away, mostly gravel and cobbles.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/3- Access by 4 wheel-drive,evidence of recent visitation, not fenced or posted at adit but also not accessible due to water in adit.

B/4- Access by hiking 500 ft from 4 wheel-drive road, evidence of recent visitation, not fenced or posted.

D/1- Access by hiking 600 ft from 4 wheel-drive road, no evidence of recent visitation, not fenced or posted

E/ - Access by 4 wheel-drive road, evidence of recent visitation, not fenced or posted.

F/G- Access by hiking 2,500 ft up arroyo from graded road, not fenced or posted evidence of recent visitation.

H/I- Access by 4 wheel-drive road, evidence of recent visitation, fenced with 3 ft remesh, not posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-21 Date: 4/15/86 Evaluators: GJ/DB
Mine Name: Ida-Hill - Mitchell - Greyhound - Camarron
Location: SW 1/4, Sec. 36, T. 2S, R. 4W Distance from Magdalena: 14,000 ft southeast.
Closest Public Facility: Graded road to Magdalena 6,000 ft east
Geologic unit: Limestone and shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
9	18	A/7580	NE	Greyhound adit
9	19	B/7575	SW	Greyhound dump
9	20	C/7500	NE	"Double" adits
9	21	D/7560	N	Adit - Shaft
9	22	E/7500	NE	Blocked adit
9	23	F/7530	W	Incline adjacent to Ida Hill

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Greyhound adit- 5 ft x 5 ft entrance partially blocked by bulldozed material but adit still fully accessible, entrance is founded in shaley but intact rock. Iron door approximately 10 ft into adit could be locked to keep people out.
B/14	Greyhound dump- 125 ft long x 15 ft wide x 15 ft high, bouldery, gravelly material at angle of repose, ore chute approximately 25 ft long resting on south side of dump.
C/3	Adits- 2 adits 7 ft apart, both are about 2 ft x 4 ft wide, indeterminable horizontal extension, opening in stable but brecciated limestone, very small dump associated with these adits, not posted, adits trend NE and NNE.
D/1	Shaft- 10 ft diameter, extends 15 ft vertically, upper part in weak weathered rock.
D/3	Adits- 2 adits originate at opening of mine, 4 ft x 5 ft wide, entrance in weak rock, loose spalling rock on back, solid rock at about 10 ft horizontally, standing well, widely scattered dump material on hillside.
E/3	Blocked adit and loading dock- suspect this area is a blocked off (with mine dump material) adit, also in area is a highly dilapidated loading ramp and a road with a boulder retaining wall, no significant hazards here unless adit gets opened up again, this site is in a wash with some degree of flood hazard, this location approximately 700 ft northwest of Waldo headframe.

AMS FIELD DATA SHEET

Site: AMS-21 Date: 4/15/86 Evaluator(s): DB/GJ
Mine Name: Ida - Hill - Michell - Greyhound - Cimarron
Location: SE 1/4, Sec. 36, T. 2S, R. 4W Distance from Magdalena: 14,000 ft southwest
Closest Public Facility: Graded road to Magdalena 6,000 ft east
Geologic unit: Limestone - shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
9	23	F/7530	W	Incline adjacent to Ida Hill
9	24	G/7525	W	Ida Mine Dump
9	25	H/7575	N	Ida Mine
9	26	I/7680	NE	Adit
9	27	J/7705	N	Adit with open cut
9	28	K/7725	NW	Adit with open cut on vein

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
F/4	Incline- , 3 ft high x 8 ft wide, extends unknown distance 45° angle, opening is stable and in hard rock, dump is 10 ft x 5 ft x 2 ft high.
G/14	Ida Mine Dump- 135 ft x 15 ft x 20 ft deep, sulfides on surface, gravel, cobble, boulder size material, odor of sulfides in air.
H/3	Ida Hill Mine- Entrance largely blocked with mine dump material, opening reduced to 1 ft x 3 ft crawl space, rock at entrance spalling and weak, mine dimensions approximately 6 ft x 5 ft high, cool air blowing out.
I/3	Adit- 60 ft northeast of Greyhound, entrance partially blocked by slough from above opening, opening has been reduced to a 1 ft x 3 ft wide opening, but mine adit is much larger and extends an unkown horizontal distance, cool air blowing out of adit, rocks at entrance highly weathered and weak, mine dump on hillslope - approximately 20 ft x 10 ft x 10 ft high, widely scattered because of steep slope.
J/3	Adit and open cut- small adit shows daylight due to open cut above and to the north, dump 15 ft x 15 ft x 5 ft thick suggests mine workings are more extensive although not now open.
K/3	Adit- 30 ft cut approximately 3 ft deep leading to small adit opening to the north, adit approximately 3 ft wide x 3 ft high, unknown horizontal extension, overlapping mine dumps from this and other blocked mines to south on face of hills, solid rock at adit opening.

*Map Location/Item number (see field compiltion map)

AMS FIELD DATA SHEET

Site: AMS-21 Date: 4/15/86 Evaluator(s): GJ/DB
Mine Name: Ida Hill - Mitchell - Greyhound - Cimarron
Location: SE 1/4, Sec. 36, T. 2S, R. 4W Distance from Magdalena 14:,000 ft southeast
Closest Public Facility Graded road to Magdalena 6,000 ft east
Geologic unit: Limestone - shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
9	29	L/7755	N	Adit
9	30	M/7840	N	Michell Adit
9	31	M/7830	SW	Michell Mine Dump
9	32	N/7950	SE	Cimarron adit south side
9	33	O/7940	NE	Cimarron adit north side
9	34	P/7910	E	Incline
9	35	Q/7780	NE	Shaft
10	1	R/7725	NE	Shaft
10	2,3	S/7710	W	Shaft
10	4	T/7700	N	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

/1

B. Description of items checked in A above

M/I*	Description
L/3	Adit- mostly blcked, rocks spalling at opening, opening now reduced to 1 ft x 3 ft, adit is about 2 ft x 5 ft and extends unknown horizontal distance to north.
M/3	Mitchell adit- opening blocked by slope wash (of colluvium) from above, opening now 4 ft x 1 ft high, but main adit is about 6 ft x 5 ft high, open to unknown horizontal distance. entrance is in faulted zone, colluvium forms roof at entrance.
M/14	Mitchell Dump- 30 ft x 10 ft x 20 ft high, steep slopes, prone to sloughing into arroyo approximately 50 ft below.
N/3	Cimarron adit- south side of arroyo, entrance opening is 3.5 ft high x 6 ft wide, mine entrance looks stable but some potential for rocks falling from steep slope above.
O/3	Cimarron adit- north side of arroyo, dilapidated wooden and corrugated sheet metal entrance structure, adit is 3 ft high x 8 ft wide, rock is spalling off mine back at entrance, mine dumps from "N/3" and "O/3" are in arroyo to SE and have been washed down stream over the years.

*Map Location/Item number (see field compilation map)
x

AMS FIELD DATA SHEET

Site: AMS-21 Date: 4/15/86 Evaluator(s): GJ/DB
Mine Name: Ida Hill - Mitchell - Greyhound - Cimarron
Location: SE 1/4, Sec. 36, T. 2S, R. 4W Distance from Magdalena: 14,000 ft southeast
Closest Public Facility: Graded road to Magdalena 6,000 ft east
Geologic unit: Limestone - Shale

P/4 Incline- approximately 55° slope to east, 5 ft diameter and 20 ft deep, rotted timbers half-way in, loose talus at surface, needs fencing.

Q/1 Shaft- 1 inch diameter pipe grate blocking opening, size is 5 ft diameter and at least 50 ft deep, inclined slightly to southwest, one of the pipes has been forced inside by someone to gain entry in the past, small dump on hillslope to south.

R/1 Shaft- vertical, with old fence around it, 2 inch iron pipe still intact but sides gone, shaft is 5 ft x 6 ft and at least 40 ft deep, carbonate cemented colluvium at top, part of mine dump is sloughing in.

S/1 Shaft- 15 ft diameter at surface, 6 ft diameter at 15 ft depth, extends at least 100 ft vertically, old fencing largely dilapidated, funneling of surface colluvium.

T/4 Adit- 4 ft x 5 ft opening, 20 ft extension to north, entrarce looks stable, no sloughing, no rock fall potential, small 10 ft x 10 ft x 5 ft high mine dump on hill slope to south.

Recommendations or comments (access via, recent visitation, fenced, posted):

Access via newly graded road
D/1- Has iron gate with chicken wire that has been removed on right side, not posted. (4 wheel-drive required from Waldo). Main access to this and surrounding mines usually blocked (by locked gate at Waldo), located at road to Magdalena.
A through T access by hiking from 4 wheel-drive road, mines show evidence of recent visitation.
Q/1- Grate should be repaired.
R/1- Needs improvement on fence.
S/1- Needs improvement on fence.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-22 Date: 4/17/86 Evaluator(s): DB/GJ
Mine Name: Waldo Mine area
Location: SE/NW 1/4, Sec. 36, T. 1S, R. 4W Distance from Magdalena: 12,000 ft southeast
Closest Public Facility: Graded road to Magdalena 2,000 ft west.
Geologic unit: Limestone and felsic volcanic rocks.

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
10	3,4	A/7375	NE	Shaft
10	5,6	B/7450	E	Incline
10	9,10,11	C/7540	E	Shaft
10	7,8	D/7460	NW	Waldo mine
10	12-20	D/7460		Waldo headframe and dump
10	21,22	E/7260	NE	Adit (powder magazine)
10	23,24,25	F/7270	E,S	Loading bin, dump, adit, mining equipment
10	26	G/7270		Waldo adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.(X)building/shack	13.( )tailings	18.(X)mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 12 ft diameter, filled to within 8 ft of surface, fenced, access by 4 wheel-drive road, small dump, 15 ft x 7 ft x 6 ft high on southside.
B/4	Incline- 6 ft x 4 ft opening, descends 20 ft at 80° angle to east, in limestone, appears stable, dump 6 ft x 6 ft x 5 ft high on southside.
C/1	Shaft- 5 ft x 10 ft opening, descends 45 ft vertically, ir solid rock except upper 5 ft in collivium, boulders on hanging wall above shaft, shaft appears stable.
	Dump- 20 ft x 10 ft x 8 ft high on southwest side, mostly sand and gravel.
D/9	Headframe- 40 ft high wooden structure, standing well, solid fence surrounds structure and shaft, posted, access by 4 wheel drive road, shaft adequately covered.
D/14	Dumps- (2) 60 ft x 20 ft x 40 ft high and 275 ft x 30 ft x 30 ft high = 300,000 square ft, much sulfide leaching.
E/3	Adit- 5 ft x 4 ft opening, extends unknown horizontal distance, steel door that can be secured at adit entrance, timbered, standing well, railroad track leads from site to Waldo mine. This is a powder magazine, but, no explosives located.
F/7,18	Loading Bin- Wooden structure that is falling down, built on concrete foundation, much mining related debris liters area (timbers, cable, metal).
F/14	Dump- 350 ft x 50 ft x 50 ft high, much sulfide leaching.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-22 Date: 4/17/86 Evaluator(s): DB/GJ
Mine Name: Waldo Mine Area
Location: SE,NW 1/4, Sec. 36, T. 1S, R. 4W Distance from Magdalena: 12,000 ft southeast
losest Public Facility: Graded road to Magdalena 2,000 ft west.
Geologic unit: Limestone and felsic volcanic rocks.

G/3 Waldo Adit- 5 ft x 6 ft opening, secured with locking steel door.

Recommendations or comments (access via, recent visitation, fenced, posted):

A/1- Access by 4 wheel-drive road from Waldo mine, fenced and posted, evidence of recent visitation.
C/1- Access by hiking 1,250 ft southeast from 4 wheel drive road, no evidence of recent visitation, fence around shaft completely down.
E/3- Access by hiking 75 ft northwest from Waldo mine, evidence of recent visitation, not posted.
Access to D,F,G (Waldo mine) by permission only of R. Chamberlin or G. Griswold, locked gate otherwise, posted and fenced.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-23 Date: 4/17/86 Evaluator(s): DB/GJ
Mine Name: Millsite
Location: SW 1/4, Sec. 35, T. 2S, R. 4W Distance from Magdalena: 8,000 ft south
Closest Public Facility: Graded road to Magdalena 1,000 to 2,000 ft east.
Geologic unit: Colluvium

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
10	27,28	A/6820	E	Water well & headframes
10	30,31,32	B/6880	W	Water well & building
14	1,2		W	Drums
14	3		E	Smelter in foreground-Waldo mine background
14	4,6,7	C/6870	W	Tailings
14	5			

A. (X) if item present at site and describe below:

1.( )shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.( )mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/9	Wooden building- timbers & planks are collapsing into water well, water well opening is 10 ft x 25 ft due to erosion, well is partially blocked at 15 ft depth with fallen timbers, salvage value of wooden structure, located 1 mile from Indian dormitory in Magdalena, locked gate at road, but site accessible by hiking, evidence of recent visitation, well descends approximately 135 ft (R. Chamberlin, personal communication).
B/9	Wooden building- roof is missing boards on west side, walls are generally standing well, old pump-jack in building is in good condition, was used in early 1970's, well is open, bulkheaded at 15 ft depth, 10 ft x 25 ft opening.
C/13	Drums- #2455471CC-37G-408 STC on all 14 (55 gallon drums) have sand in them at present time, similar drums scattered around tailings pile.
C/13	Tailings- (2) 330 ft x 350 ft x 20 ft high and 620 ft x 350 ft x 20 ft high, mostly sand-sized material, smell of sulfur, no vegatation, iron staining prevalent, only main tailings area measured, other discontinuous and eroded mounds of similar material between main dump and smelter not measured, runoff and drainage from tailings is to the north towards Magdalena.

*Mao Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-23 Date: 6/5-4/17/86 Evaluator(s): DB/GJ
Mine Name: Millsite
Location: SW 1/4, Sec. 35, T. 2S, R. 4W Distance from Magdalena: 8,000 ft south
Closest Public Facility: Graded road to Magdalena is 1,000 - 2,000 ft to east
Geologic unit: Colluvium

Recommendations or comments (access via, recent visitation, fenced, posted):

A through C- access by hiking approximately 2,000 ft from graded road, area is fenced but fence can be circumrented, evidence of recent visitation (vandalism), not posted

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-24 Date: 4/23/86 Evaluator(s): DB/GO
Mine Name: Stendel Ridge area
Location: SW 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 12,000 ft east
Closest Public Facility: Graded road 4,000 ft east
Geologic unit: Tertiary volcanic and intrusive rocks

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
11	1	A/6975	SW	Adit
11	2	B/7180	W	Adit
11	3,4	C/7300	N,NW	Adit, view of Magdalena from adit
11	5	D/7240	N	Shaft
11	6,7	E/7340	N,N	Adit, view of Baxter Peak from adit
11	no photo	F/7200		Adit
11	8,9	G/7075	SW,N	Adit, view from adit of hill to north
11	10	H/7025	SW	Adit
11	11,12	I/6900	NE,SW	View of Magdalena Peak from Incline, Incline

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3	Adit- 4 ft x 5 ft opening, extends approximately 50 ft horizontally, in solid rock, standing well, blasting wire and track within adit, some rock debris sloughing from above the opening, very small dump in arroyo.
B/3	Adit- 3 ft x 5 ft opening, 5 ft x 5 ft inside opening, extends approximately 125 ft horizontally, in solid rock, rock debris has sloughed from above opening.
B/14	Mine dump- 20 ft x 8 ft x 6 ft high, mostly gravel and cobbles, located 10 ft northeast of adit.
C/3	Adit- 2 ft x 5 ft opening expands to 5 ft x 5 ft adit, extends unknown horizontal distance, in solid rock, opening partially blocked by rock debris, very small dump.
D/1	Shaft- 6 ft x 8 ft opening, descends 30 ft vertically, in solid rock, standing well, 4 ft x 10 ft x 4 ft high, dump on east side, 2nd shaft located 10 ft south, similar dimensions except descends only 15 ft, 4 ft x 8 ft x 4 ft high dump to the east.
E/3	Adit- 2 ft x 5 ft opening, opening mostly blocked by rock debris, extends unknown horizontal distance, just inside opening is a large nest filled with chollas, associated dump 5 ft x 8 ft x 2 ft high.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-24 Date: 4/23/86 Evaluator(s): DB/GO
Mine Name: Stendel Ridge area
Location: SW 1/4, Sec. 25, T. 2S, R. 4W Distance from Magdalena: 12,000 ft west
Closest Public Facility: Graded road 4,000 ft east
Geologic unit: Tertiary Volcanic and intrusive rocks

F/3 Adit- 3 ft x 5 ft opening, opening partially blocked by rock debris, adit is in badly weathered monzonite, standing well, small dump north of adit.

G/3 Adit- 4 ft x 5 ft to opening, extends 20 ft horizontally, in weathered rock, standing well, small dump on northside.

H/3 Adit- 4 ft x 5 ft opening, opening partially blocked by rock debris, in weathered rock, standing well, not timbered, small dump 10 ft north is 5 ft x 20 ft x 2 ft high.

I/4 Incline- 10 ft x 6 ft opening becomes 6 ft x 6 ft incline 10 ft below ground surface, descends 35 ft at 60° angle to northeast, in weathered rock, ground below, may be larger due to erosion.

Recommendations or comments (access via, recent visitation, fenced, posted):

A,B- Access by hiking 2,000 ft east from graded road, evidence of recent visitation, not posted or fenced.

C/3- Access by hiking 2,500 ft southwest from graded road, no evidence of recent visitation, not fenced or posted.

D/1- Access by hiking 1,500 ft south from Hardscrabble camp, not posted or fenced, no evidence of recent visitation.

E,F,G-Access by hiking 1,600 ft "E" and 800 ft "G" from graded road, not posted or fenced, no evidence of recent visitation.

H/3- Access by hiking 850 ft south from graded road, no evidence of recent visitation, not fenced or posted.

I/4- Access by hiking 450 ft south from graded road, no evidence of recent visitation, not fenced or posted.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-25 Date: 4/24/86 Evaluator(s): DB/GJ
Mine Name: Northeast area
Location: SE 1/4, Sec. 18, T. 2S, R. 3W Distance from Magdalena: 18,000 ft northeast
Closest Public Facility: US-60 is 1,000 ft to the north
Geologic unit: Tertiary rhyolite and granite and PC argillite

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
11	13,14	A/6390	E	Shaft and Mine dump
11	15,16	B/6410	N	Shaft and Mine dump
11	17,18	C/6475	E,N	Cut and Adit
11	19	D/6425	E	Incline
11	20	E/6440	E	Shaft and Adit
11	21	F/6450	NE	Shaft
11	22,25	G/6440	S	Adit
11	23,24	H/6445	S	Cut and Loading dock
11	26	I/6440	S	Cut
11	27,28	I/6440	W	Possible filled shaft or adit in cut (I-5).

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 4 ft x 6 ft funnel-shaped opening, descends 25 ft vertically in solid rock, located along a fault dipping 40° to east, some copper minerals, dump is on east side, 20 ft x 15 ft x 3 ft high, mostly gravel and cobbles, shaft not timbered, standing well.
B/1	Shaft- 4 ft x 5 ft opening, approximately 35 ft deep, 10 ft diameter and funnel-shaped at top, in solid rock, not timbered, standing well, dump on north side is 10 ft x 25 ft x 4 ft high.
C/5	Open cut- 75 ft long x 15 ft wide x 10 ft deep, in solid rock but several faults cut across open cut, standing well.
C/3	Adit- On northside in open cut, 4 ft diameter opening, ir fault gauge, extends minimum of 20 ft horizontally, no timbered, standing well.
D/4	Incline- 8 ft diameter opening, descends at 40° angle then becomes vertical shaft, approximately 50 ft deep, in platy rock that is falling, track in entrance, snake skins at entrance, dump 20 ft x 8 ft x 4 ft high.
E/1	Shaft- 6 ft x 4 ft opening, descends 10 ft then may become short adit opening into incline (D/4), in solid rock, standing well. dump is 5 ft x 6 ft x 3 ft high.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-25 Date: 4/24/86 Evaluator(s): DB/GJ
Mine Name: Northeast area
Location: SE 1/4, Sec. 18, T. 2S, R. 3W Distance from Magdalena: 18,000 ft northeast
Closest Public Facility: US-60 is 1,000 ft to the north
Geologic unit: Tertiary rhyolite and granite ad PC argillite

F/1 Shaft- 4 ft x 6 ft funnel-shaped opening, descends 60 ft vertically, remains of wooden cribbing 10 ft below surface, upper 6 ft in colluvium.

G/3 Adit- 10 ft x 10 ft opening, opening partly blocked by rock debris, rock actively spalling off back, in very altered rock, extends 25 ft horizontally.

H/5 Open cut- 75 ft long x 20 ft wide x 15 ft high, in solid rock, loading dock at south end of cut, made from 12 x 12 inch timbers and 4 x 8 inch boards, standing well but some boards are sagging, small (1 1/2 ft opening) into blocked adit.

I/5 Cut- 50 ft long x 10 ft wide x 15 ft high, in solid rock except upper 1 foot in colluvium, some sloughing of rock into cut.

Recommendations or comments (access via, recent visitation, fenced, posted):

A-G, Access by graded road 1,000 ft south of US-60, evidence of recent visitation, not posted or fenced, visible from US-60 staked (A,B,C).

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-26 Date: 4/29/86 Evaluator(s): DB/GJ
Mine Name: North of US-60 east of Granite Mountain
Location: SW 1/4, Sec. 7, T. 2S, R. 3W Distance from Magdalena: 23,5000 ft northeast
Closest Public Facility: US-60 is 2,000 ft south
Geologic unit: PC argillite, Kelly Limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
11	29	A/6255	N	Adit and Loading dock
11	30,31,32	B/6245	N	Adit
11	33	C/6245	NE	Shaft
11	34	D/6270	S	Shaft
11	35	E/6305	W	Shaft and Mine dump
11	36	F/6275	W	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.(X)loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/3,7	Adit- 20 ft long x 10 ft wide cut leads to adit, loading dock above adit opening, adit opening is 5 ft x 6 ft, extends minimum of 50 ft horizontally, in solid rock, standing well. Loading dock-rotted through in some areas above adit opening, cross beams are substantial and not rotted.
B/3	Adit- 40 ft x 10 ft cut this is shored with timbers and planks leads into adit, some of timbers are rotted and sagging, shoring stabilizes opening which is in colluvium, adit opening is 8 ft x 10 ft, extends 100 ft horizontally, in solid rock, stable, but arroyo runs into adit in times heavy run off, drift at opening leads to shaft "C/1", door on left leads to storage room
C/1	Shaft- 4 ft x 6 ft opening, descends 45 ft vertically with drift into adit "B/3" at 25 ft depth, ladders into shaft make access easy, numerous mine dumps in the area, upper ladder very rotted.
D/1	Shaft- 4 ft x 6 ft opening, descends 70 ft vertically, in solid rock, wooden cribbing to 6 ft depth, metal ladder into shaft, dump is 6 ft x 10 ft x 4 ft high, recent drill hole 60 ft deep 15 ft north of shaft, drill hole is covered by board.
E/1	Shaft- 4 ft x 8 ft opening, descends minimum of 150 ft vertically, rotted wooden collar, fence, and cap at opening, dump 6 ft x 25 ft x 5 ft high on west side.
F/1	Shaft- 4 ft x 4 ft funnel-shaped opening, descends minimum of 50 ft vertically, partially covered by rotted timbers, opening obscured by bushes.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-26 Date: 4/29/86 Evaluator(s): DB/GJ
Mine Name: North of US-60; east of Granite Mtn.
Location: SW 1/4, Sec. 7, T. 2S, R. 3W Distance from Magdalena: 23,500 ft northwest
Closest Public Facility: US-60 is 2,000 ft south
Geologic unit: PC argillite, Kelly limestone

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
11	36A	G/6270	W	Shaft
12	2	H/6250	W	Shaft
12	3	I/6280	E	Adit
12	4	J/6265	S	Adit
12	5	K/6250	NW	Shaft
12	6	L/6240	NW	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/1	Shaft- 4 ft x 4 ft opening, descends 30 ft vertically, opening covered by sagging and rotted timbers, planks, scrap metal, "horse shoe" shaped dump 2 ft x 15 ft x 1 ft high surrounds shaft.
H/1	Shaft- 6 ft x 6 ft opening, descends 60 ft vertically, collared and cribbing to 10 ft depth, rotted wooden fence and cap partially cover opening, wooden ladder descends into shaft, shaft in colluvium as far as visible, 2 dumps each 3 ft x 15 ft x 5 ft high just rorth of shaft.
I/3	Adit- 15 ft x 6 ft cut leads to adit, adit opening is 5 ft x 6 ft, entrance partially blocked by timbers, in solid rock, appears stable, extends unknown horizontal distance, dump 5 ft x 25 ft x 5 ft high west of adit.
J/3	Adit- 8 ft x 10 ft opening, extends unknown distance horizontally, in solid rock, appears stable, wooden fence partially blocks opening and wooden flooring overhangs opening, air pipe into mine, numerous dumps 100 ft x 10 ft x 8 ft high (total dimensions) south of adit, barite and pyrite main minerals.
K/1	Shaft- 4 ft x 5 ft opening, descends 25 ft vertically, collared and cribbing to 10 ft depth, wood is rotted, wooden ladder decends 10 ft into shaft.
L/1	Shaft- 4 ft x 6 ft opening, descends 25 ft then becomes drift or adit opening, to west, shaft is partially covered by rotted wood, collared and cribbing to 10 ft depth, ore dump 30 ft x 30 ft x 3 ft deep is 100 ft northwest of shaft.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-26 Date: 4/29/86 Evaluator(s): DB/GJ
Mine Name: North of US-60; east of Granite Mtn.
Location: SW 1/4, Sec. 7, T. 2S, R. 3W Distance from Magdalena: 23,500 ft northeast
Closest Public Facility: US-60 is 2,000 ft south
Geologic unit: PC argillite; Kelly limestone

Recommendations or comments (access via, recent visitation, fenced, posted):

A,B,C,D,E- Access by 4 wheel-drive road that connects with graded road 2,000 ft north of US-60, not fenced or posted, evidence of recent visitation, turquoise wooden markers at most sites.

F through L-Access via 4 wheel-drive that connects with graded road 2,000 ft north of US-60, only J is posted, I & J only sites partially fenced, evidence of recent visitation, turquoise wooden markers at most sites.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-27 Date: 4/29/86 Evaluator(s): DB/GJ
Mine Name: North of US-60; east of Granite Mtn.
Location: SW 1/4, Sec. 7, T. 2S, R. 3W Distance from Magdalena: 23,000 ft northwest
Closest Public Facility: US-60 is 2,000 ft south
Geologic unit: Limestone and shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
12	7	A/6310	N	Shaft
12	8	B/6315	N	Shaft
12	9	C/6320	S	Shaft
12	10	D/6300	SE	Shaft
12	11	E/6290	SW	Shaft
12	12	F/6275	NE	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- two funnel-shaped openings 6 ft apart, 6 ft x 6 ft openings, descend minimum of 100 ft vertically, partially covered by timbers dump to east is 75 ft x 10 ft x 8 ft high, rebar sticking up where 2 concrete structures were, shafts very hazardous.
B/1	Shaft- 5 ft x 8 ft opening, descends miminum of 40 ft vertically, may become a drift at 20 ft depth, covered by rotted planks, in solid rock, dump is 20 ft x 20 ft x 4 ft high.
C/1	Shaft- 5 ft x 12 ft opening, descends 15 ft vertically, in solid rock, partially covered by boards and timbers, some have fallen into shaft, dump is 10 ft x 5 ft x 5 ft high.
D/1	Shaft- 6 ft x 6 ft opening, descends 175 ft vertically, in solid rock, standing well, rotted wooden fence, cap, and collar cover opening, dump is 25 ft x 15 ft x 5 ft high.
E/1	Shaft- 4 ft x 8 ft opening, descends 15 ft vertically, in solid rock, partially filled with rock debris, high oxidized limonitic rock at surface.
F/1	Shaft- 5 ft x 6 ft opening, descends 20 ft vertically, in solid rock, trash at bottom of shaft, dump is 5 ft x 20 ft x 2 ft high.

Recommendations or comments (access via, recent visitation, fenced, posted):

A through F- Access by 4 wheel-drive road that connects with graded road 1,500 ft to the east, sites visible from US-60, not posted or fenced, evidence of recent visitation, turquoise wooden claim markers at most sites.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-28 Date: 5/1/86 Evaluator(s): DB/GJ
Mine Name: North of US-60; east of Granite Mtn.
Location: SE 1/4, Sec. 12, T. 2S, R. 4W Distance from Magdalena: 21,000 ft northeast
Closest Public Facility: US-60 is 10,000 ft south
Geologic unit: Tertiary volcanic rocks (latite tuff and andesite)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
12	13,14	A/6330	NW	Incline
12	15	B/6360	NW	Shaft
12	16	C/6465	SW	Shaft
12	17	D/6390	NE	Shaft
12	18,19	E/6310	NW	Shaft
12	20	F/6330	S	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/4	Incline- 10 ft x 6 ft opening, descends minimum of 25 ft at a 30° angle, partially filled with rock and garbage debris, rate overhanging opening looks unstable, dump is 30 ft x 20 ft x 5 ft deep.
B/4	Shaft- 5 ft x 4 ft opening, descends to unknown depth at a 30° angle then drops-off 50 ft abruptly 15 ft into opening, appears stable, much rock and garbage debris in opening.
C/1	Shaft- 15 ft diameter opening, descends 15 ft then becomes a drift opening to the northwest, drift goes unknown distance with large nest blocking opening, dump is 25 ft x 8 ft x 5 ft high.
D/1	Shaft- 6 ft diameter opening, descends 15 ft vertically them becomes drift opening to north, sides of shaft look unstable, blocks of rock about to fall in, 25 ft x 8 ft x 3 ft high dump, shaft along brecciated shear zone.
E/1	Shaft- 6 ft diameter opening, descends 30 ft vertically, in solid rock, standing well, dump is 25 ft x 10 ft x 5 ft deep, copper mineralization.
F/3	Adit- 15 ft x 10 ft open cut leads to adit, adit opening is 7 ft x 10 ft, extends 20 ft horizontally, in solid rock, standing well, barite mineralization, dump is scattered areound hillslope.

Recommendations or comments (access via, recent visitation, fenced, posted):

A through G- On private property-must cross fence to get to sites, not posted, access by hiking 3,000 ft north from graded road to relay tower (atop Granite Mtn.), no evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-28 Date: 5/1/86 Evaluator(s): DB/GJ
Mine Name: North of US-60; east at Granite Mtn.
Location: SE 1/4, Sec. 12, T. 2S, R. 4W Distance from Magdalena: 23,000 ft northeast
Closest Public Facility: US-60 is 10,000 ft south
Geologic unit: Tertiary volcaic rocks (latite tuff and andesite)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
12	21	G/6325	SW	Incline
12	22	H/6395	N	Shaft
12	23,24	I/6450	W	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/4	Incline- 5 ft x 10 ft opening, descends 20 ft at 75° angle, in solid rock, standing well, dump is 20 ft x 6 ft x 4 ft high, barite and copper mineralization.
H/1	Shaft- 5 ft x 6 ft opening, descends 50 ft vertically, in solid rock, standing well, dump is 40 ft x 8 ft x 5 ft high, surrourds shaft, sphalerite mineralization.
I/1	Shaft- 4 ft x 10 ft opening, descends 150 ft vertically, in solid rock, standing well, dump is 20 ft diameter x 10 ft deep, iron and barite mineralization.

Recommendations or comments (access via, recent visitation, fenced, posted):

H,I- Access by hiking 500 ft north from graded road to relay tower, not posted or fenced, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-29 Date: 5/2/86 Evaluator(s): DB/GO
Mine Name: Charlie Spear's Property
Location: SE 1/4, Sec. 14, T. 2S, R. 4W Distance from Magdalena: 9,000 ft northeast
Closest Public Facility: Magdalena town dump is 3,500 ft southwest
Geologic unit: Tertiary intrusive rocks (mostly felsic)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
12	25	A/6505	SW	Incline and Mine dump
12	26	B/6510	SW	Shaft
12	27	C/6505	NE	Shaft
12	28	D/6675	SW	Incline
12	29	E/6775	SW	Shaft
12	30	F/6600	E	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/4	Incline- 6 ft x 10 ft opening, descends 45 ft at a 50° angle, two drifts within incline are supported by timbers, dump is 30 ft x 6 ft x 4 ft high, pyrite mineralization.
B/1	Shaft- 20 ft diameter, funnel-shaped opening, shaft is filled to cribbing level, only funnel-shaped opening 8 ft deep remains-may have false bottom on fill material, dump surrounds shaft and is 50 ft x 8 ft x 5 ft high.
C/1	Shaft- 5 ft x 8 ft opening, filled to within 15 ft of surface, in solid rock, associated dump is 15 ft x 8 ft x 2 ft high.
D/4	Incline- 5 ft x 6 ft opening, descends 25 ft at at 45° angle, in brecciated rock and colluvium, associated dump is 20 ft x 5 ft x 4 ft high.
E/1	Shaft- 5 ft x 6 ft opening, descends 40 ft vertically, collared and cribbing to 10 ft depth, wooden ladders (poorly secured) descend into shaft, shaft appears stable, associated dump is 15 ft x 8 ft x 8 ft high, barite and pyrite mineralization, southwest and 200 ft below relay tower.
F/3	Adit- 20 ft x 20 ft x 10 ft deep cut leads to opening, adit opening is 5 ft x 3 ft, extends minimum of 40 ft horizontally, opening partially blocked by rock debris, adit opening is unstable, associated dump is 20 ft x 20 ft x 8 ft high and is located 25 ft west in arroyo.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-29 Date: 5/2/86 Evaluator(s): DB/GO
Mine Name: Charlie Spear's Property
Location: NE 1/4, Sec. 14, T. 2S, R. 4W Distance from Magdalena: 10,500 ft northeast
Closest Public Facility: Magdalena town dump is 4,000 ft southwest
Geologic unit: Tertiary intrusive rocks (mostly felsic)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
12	31	G/6615	NE	Incline
12	32	H/6600	SE	Shaft
12	33	I/6520	S	Adit
12	34	J/6450	S	Adit and Shaft
12	35,1	K/6450	NE	Adits
13	2	L/6455	N	Cut and Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/4	Incline- 8 ft x 10 ft opening, descends minimum of 30 ft at a 75° angle, opens to west, covered by weathered timbers and boards, cribbing to 10 ft depth, ground at surface weathered to funnel-shape, associated dump is 100 ft x 10 ft x 10 ft high, rotted wooden loading bin in dump area, wood and cans liter area.
H/1	Shaft- 4 ft x 6 ft opening, descends minimum of 50 ft vertically, in solid rock, slight funneling at surface, weathered wooden ladder extends into shaft, dump is 50 ft x 10 ft x 6 ft high, a few rotted wooden timbers cover shaft.
I/3	Adit- 4 ft x 5 ft opening, extends 30 ft horizontally, ir solid rock, not timbered, standing well, associated dump is 35 ft x 3 ft x 3 ft high.
J/3	Adit- 25 ft diameter funnel-shaped pit that is 15 ft deep with an adit opening to east, dump scattered about.
J/1	Shaft- located 15 ft southeast of adit, shaft opening is 6 ft square, descends 35 ft then has a drift opening to southeast, shaft collared and cribbed to 15 ft depth, cribbing appears stable, wooden cap has fallen into shaft, rotted wooden loading bin on dump, dump coalesces with other dump.
K/3	Adits- three adits, each 6 ft x 10 ft opening, extend from 10 ft to 20 ft horizontally, appear stable, in solid rock, dumps scattered throughout the area.
L/5,3	Cut and Adit- 25 ft x 10 ft x 15 ft deep cut leading to 4 ft x 5 ft adit that opens to west, rocks falling from above openirg, adit extends minimum of 30 ft at 25° angle, appears stable, in solid rock (except opening), dump is blocking arroyo and is 30 ft x 40 ft x 8 ft high.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-29 Date: 5/2/86 Evaluator(s): DB/GO
Mine Name: Charlie Spear's Property
Location: NE 1/4, Sec. 14, T. 2S, R. 4W Distance from Magdalena: 10,500 ft northwest
Closest Public Facility: Graded road to Magdalena is 5,000 ft west
Geologic unit: Tertiary intrusive rocks (mostly felsic)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
13	3	M/6560	SW	Shaft
13	4	N/6550	SW	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
M/1	Shaft- 5 ft x 6 ft opening, descends 25 ft vertically, rotted and collapsed woode collar, in solid rock, funnel-shaped at surface, dump is 15 ft x 6 ft x 6 ft high.
N/1	Shaft- 6 ft x 8 ft opening, descends 30 ft vertically, in solid rock except upper 2 ft is in colluvium and funnel-shaped, dump is 25 ft x 10 ft x 5 ft deep.

Recommendations or comments (access via, recent visitation, fenced, posted):

A,B,C- Access by graded road 1,500 ft north of Mr. Spears house, evidence of recent visitation, not posted, but access by vechile limited because of gate blocking in road (controlled by Mr. Spears).

D,E,F- Access by hiking 2,000 ft northeast from graded road, evidence of recent visitation, not posted, need to cross a fence to reach sites.

G,H- Access by hiking 1,000 ft east from graded road, evidence of recent visitation, not posted or fenced.

I,J,K,L-Access by 4 wheel-drive road, evidence of recent mining activity, not fenced or posted.

M/1- Access by hiking 1,000 ft north from 4 wheel-drive road, not fenced or posted, evidence of recent visitation.

N/1- Access by hiking 500 ft south from 4 wheel-drive road, not fenced or posted, evidence of recent visitation.

Mine sites-A-M are on deeded land belonging to Charlie Spears, he wants to assist with backfilling or fencing hazards and has equipment that can be used on his land or in the Magdalena area.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-30 Date: 5/5/86 Evaluator(s): DB/GJ
Mine Name: Silver Hill area
Location: NW 1/4, Sec. 19, T. 2S, R. 4W Distance from Magdalena: 19,000 ft west-northwest
Closest Public Facility: Graded road 3,000 ft south
Geologic unit: La Jara Peak andesite (Teriary)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
13	5	A/6900	N	Shaft
13	6	B/7000	N	Open cut
13	7	C/6950	W	Shaft and Head frame
13	8	D/6880	S	Shaft
13	9	E/6860	S	Shaft
13	10	F/6820	E	Shaft and drift

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.(X)building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/1	Shaft- 4 ft x 6 ft opening, descends 25 ft vertically, in solid rock, sight funneling at surface, rotted wooden collar, dump is 30 ft x 10 ft x 1 ft high.
B/5	Open cut- 200 ft long x 10 ft wide x 8 to 10 ft deep, in solid rock, rock debris alongside cut.
C/1,9	Shaft- (2) 4 ft x 5 ft openings, descend 60 ft vertically, collared and cribbed, cap over shaft is in good shape, 12 ft headframe standing well, dump is 30 ft x 10 ft x 8 ft deep, rock debris is fresh-looking basalt, much trash lying about the area.
D/1	Shaft- 8 ft x 10 ft opening, descends 55 ft vertically, in solid rock except upper 3 ft in colluvium, dump is 15 ft x 15 ft x 10 ft deep owls live in shaft.
E/1	Shaft- 5 ft diameter opening, descends 20 ft vertically, in solid rock, upper 2 ft is funnel-shaped and in colluvium, dump is 10 ft x 5 ft x 10 ft high.
F/1	Shaft/ 6 ft x 10 ft opening, descends 15 ft then becomes drift opening to northwest, shaft and drift in solid rock, standing well, copper mineralization, dumps scattered about area, rattlesnake in shaft.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-30 Date: 5/5/86 Evaluator(s): DB/GJ
Mine Name: Silver Hill area
Location: SE 1/4, Sec. 7, T. 2S, R. 4W Distance from Magdalena: 20,000 ft northwest
Closest Public Facility: NM-52 between 2,000 (H) and 8,000 (J) ft east
Geologic unit: La Jara Peaks andesite (Tertiary)

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
13	11	G/6800	S	Shaft and Mine dump
13	12,13	H/6605	S	Shaft
13	14	I/6850	S	Adit
13	15,16	J/6895	SE,E	View of Magdalena, shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impourded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
G/1	Shaft- 4 ft x 6 ft opening, descends 35 ft vertically, in solid rock, cribbing to 5 ft depth, upper 1 ft is funnel-shaped, dump is 20 ft x 5 ft x 5 ft high, owls live in shaft.
H/1	Shaft- opening covered by boards, upper 2 ft funnel-shaped, boards are badly weathered and can be covered by sloughing rock debris and then will no longer be visible, boards could only support light load, shaft descends minimum of 150 ft vertically, dump is 20 ft x 90 ft x 8 ft high, Barrett claim, copper mineralization.
I/3	Adit- 5 ft x 6 ft opening, extends minimum of 50 ft horizontally, in solid rock, standing well, dump is 40 ft x 10 ft x 20 ft high.
J/1	Shaft- 5 ft x 6 ft opening, backfilled to 10 ft depth, in solid rock, appears stable, dump is 10 ft x 20 ft x 10 ft deep.

Recommendations or comments (access via, recent visitation, fenced, posted):

A through G- Access by 4 wheel-drive road, not fenced or posted, evidence of recent visitation.
B,C- Access by hiking 1,000 ft north from 4 wheel-drive road, not fenced or posted, evidence of recent visitation.
H/1- Access by 4 wheel-drive road 2,000 ft west of NM-52, not posted or fenced, evidence of recent visitation.
I & J-Access by hiking 100-200 ft uphill from 4 wheel drive road, not posted or fenced, no evidence of recent visitation

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-31 Date: 5/8/86 Evaluator(s): DB/GJ
Mine Name: Area just northwest of Magdalena
Location: SW 1/4, Sec. 16, T. 2S, R. 4W Distance from Magdalena: 10,000 ft northwest
Closest Public Facility: NM-52 is 5,000 ft west
Geologic unit: Tertiary Mafic and felsic rocks

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
13	16	A/6440	W	Open cut and Mine dump
13	17	B/6450	SW	Shaft
13	18	C/6425	N	Open cut and Mine dump
13	19	D/6455	W	Shaft
13	20	E/6460	W	Shaft
13	21	F/6475	S	Shaft

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.( )stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.( )adit	8.( )track		17.( )blowing dust
4.( )incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.(X)open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/5,14	Open cut- 100 ft long x 10 ft wide x 8 ft deep, dozer cut, walls standing well, visible from arroyo to east, dump is 50 ft x 10 ft x 8 ft deep.
B/1	Shaft- 4 ft x 6 ft opening, descends 25 ft vertically, in solid rock except upper few feet which is funnel-shaped, 1 ft of water in bottom, barite and wulfenite mineralization, several small prospects and dumps in area.
C/5,14	Open cut- 35 ft long x 12 ft wide x 6 ft deep, walls standing well, dump is 15 ft diameter x 10 ft deep.
D/1	Shaft- 5 ft x 5 ft opening, descends 35 ft vertically, in solid rock, standing well, rotted wooden collar and cribbing, wooden ladder to bottom of shaft in fair condition but fastened to rotted collar, dump is 25 ft x 10 ft x 2 ft high, several cuts in the area around the shaft (D/1).
E/1	Shaft- 6 ft x 12 ft funnel-shaped opening, descends 20 ft vertically, in badly weathered rock, dump is scattered around shaft.
F/1	Shaft- 8 ft x 6 ft opening, descends 15 ft vertically, rotted wooden collar and cribbing, collar supported by 2 rotted telephone poles, funnel-shaped at surface, dump is 20 ft x 8 ft x 4 ft deep.

Recommendations or comments (access via, recent visitation, fenced, posted):

A through F- Access by 4 wheel drive from pueblito ranch, not fenced or posted, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-32 Date: 5/14/86 Evaluator(s): DB/GJ
Mine Name: Water Canyon area
Location: SE 1/4, Sec. 27, T. 3S, R. 3W Distance from Socorro:
Closest Public Facility: Water Canyon campground is 5,000 ft northeast of items A through D
Geologic unit: Limestone and shale

PHOTOGRAPHIC DATA

Roll No.	Frame(s)	Map Loc./ Elev. (ft)	View dir.	Object Photographed
13	22,23	A/7040	SW	Incline
13	24	B/7060	N	Stope
13	25,26	C/7080	SW	Shaft
13	27,28	D/7120	SW	Shaft
13	30,31	E/7030	N	Adit
13	32,33	F/7400	S	Adit

A. (X) if item present at site and describe below:

1.(X)shaft	6.( )quarry	11.(X)stope	15.( )trash dump
2.( )glory hole	7.( )loading bin	12.( )mining-induced slide	16.( )seepage
3.(X)adit	8.( )track		17.( )blowing dust
4.(X)incline	9.( )building/shack	13.( )tailings	18.( )mining equipment
5.( )open pit/cut	10.( )ground subsidence	14.(X)mine dump	

19.( )other: (chemical drums, explosives, electrical equipment, impounded water, active erosion.....)

B. Description of items checked in A above

M/I*	Description
A/4	Incline- 8 ft x 8 ft opening, descends to unknown depth at 30° angle, in solid rock, remains of a gate in entrance, debris thrown into incline.
B/11	Stope- two stopes 6 ft apart that descend into incline (A/4), stopes are covered by sagging wire mesh.
C/1	Shaft- 6 ft x 8 ft opening, descends minimum of 150 ft, wire mesh covering opening has been bent back, dump is 30 ft x 20 ft x 15 ft deep.
D/1	Shaft- 6 ft x 10 ft opening, descends 100 ft vertically then there is water, opening is funnel-shaped, covered by wire mesh that is sagging and tied at southwest corner with twine, dump is scattered and is 25 ft x 20 ft x 15 ft deep.
E/3	Adit- 1 ft x 2 ft wide opening that is partially blocked by sloughing rock and colluvium, opening in colluvium, extends unknown distance horizontally, dump is 10 ft x 10 ft x 5 ft high.
F/3	Adit- 4 ft x 5 ft opening, extends unknown horizontal distance in solid rock, old wooden door torn off hinges 10 ft into adit, dump is on two levels and combined they are 30 ft x 20 ft x 5 ft high.

*Map Location/Item number (see field compilation map)

AMS FIELD DATA SHEET

Site: AMS-32 Date: 5/14/86 Evaluator(s): DB/GJ
Mine Name: Water Canyon area
Location: SE 1/4, Sec. 27, T. 3S, R. 3W Distance from Socorro:
Closest Public Facility: Water Canyon campgrounds is 5,000 ft northwest of items A through D
Geologic unit: Limestone and shale

Recommendations or comments (access via, recent visitation, fenced, posted)

A,B,C,D- Access by 4 wheel-drive road (5,000 ft southwest from campground), fenced by wire mesh (see above), not posted, evidence of recent visistaion.

E,F- Access by 4 wheel-drive road (7,000 ft northwest from campground), had a door blocking opening at one time, evidence of recent visitation.

*Map Location/Item number (see field compilation map)

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

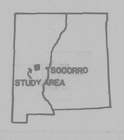
PLATE 1 OF 7

SILVER HILL-MAGDALENA NORTHWEST

0 1000 2000 ft

SCALE

N



INDEX MAP OF NEW MEXICO

BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

PREPARED BY: NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES

R. 4 W. R. 3 W.

not surveyed

SEE PLATE 3

AMS-27

AMS-28

not located

SEE PLATE 1

FOR MINING SITE

blocked

charcoal oven

FOR MINING SITE

LOCATIONS

AMS-20

not surveyed

NO MINES FOUND

not located

not surveyed

loading dock

blocked

ANCHOR MINE

not located

not surveyed

AMS-19

AMS-9

private land

Hardscrabble Camp

AMS-14

not surveyed

not located

AMS-24

AMS-12

not surveyed

Sommer's Residence

blocked

blocked

MATCH LINE

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

PLATE 2 OF 7

MAGDALENA NORTH

0 500 1000 ft

SCALE

N

SOCORRO STUDY AREA

INDEX MAP OF NEW MEXICO

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

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SEE PLATE 2

FOR MINING SITE

LOCATIONS

CLAIM MARKERS

BUT NO MINES FOUND

ore stock pile

blocked

drill hole

AMS-26

AMS-25

TO LEMITAR →

TO SOCORRO →

SANTA FE

B M 6273

AND

NO 70

HIGHWAY

18

not located

not surveyed

6200

6300

6400

6500

6700

6214

X6323

X6423X

X6306

X 6237

X6497

X6476

X 6565

X<5'

<5'

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

PLATE 3 OF 7

MAGDALENA NORTHEAST

0 250 500 ft

SCALE

BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

N

SOCORRO STUDY AREA

INDEX MAP OF NEW MEXICO

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

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MATCH LINE

AMS-12

not located

AMS-24

AMS-6

private land not surveyed

not surveyed

ACCESS DENIED NOT SURVEYED

AMS-21

AMS-22

SEE PLATE 5 FOR MINING SITE LOCATIONS

AMS-16

NO MINES FOUND

T. 2 S.

T. 3 S.

See PLATE 5 for continuation of AMS-16

not surveyed

not surveyed

not surveyed

not surveyed

Hilltop Mtn

North Camp

Kelly

Chihuahua Gulch

Mistletoe Gulch

Old Charcoal Oven

Old Smelter

Magdalena Road

Waldo Tunnel

Graphic Tunnel

Martin Tunnel

Harron Tunnel

Kelly Tunnel

Traylor Shaft

Tri-Bullion Mine

Contact Shaft

Juanita Tunnel

Grand Tower Shaft

Germania Mines

South Juanita Mine

Mistletoe Tunnel

Black Eagle Mine

Mistletoe Mine

Hinchman Tunnel

Young America Mine

Enterprise Tunnels

Ameratsvia Mine

Old Spring

Key Mine

Stonewall Tunnels

Tip Top Tunnel

Aerial Tramway

Water

7816

7430

7194

7260

7100

7200

7300

7400

7500

7600

7700

7800

7900

8000

8100

8200

8300

8400

8500

8600

8700

8800

8900

9000

9100

9200

9300

9400

9500

9600

9700

9800

9900

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

PLATE 4 OF 7

MAGDALENA SOUTH

0 500 1000 ft

SCALE

N

INDEX MAP OF NEW MEXICO

STUDY AREA

SOCORRO

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

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BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

SEE PLATE 4

FOR MINING SITE

LOCATIONS

AMS-16

AMS-1b

KELLY TUNNEL

AMS-5

AMS-4

GERMANY MINES

AMS-2

AMS-1c

AJUANITA TUNNEL

AMS-3

AMS-7

AMS-8

GRAND TOWER SHAFT

PASCHAL SHAFT

TRAYLOR SHAFT

TRI-BULLION MILL

CONTACT SHAFT

SOUTH AJUANITA MINE

MISTLETOE TUNNEL

AERIAL TRAMWAY

BLACK CLOUD MINE

MISTLETOE MINE

B.M. 7693

B.M. 7443

B.M. 7430

X 8376

not surveyed

not located

blocked

NO MINES FOUND

Kelly

Chihuahua

Gulch

Mistletoe

Gulch

WATER

see PLATE 4 for continuation of AMS-16

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

PLATE 5 OF 7

KELLY MINING AREA

0 250 500 ft

SCALE

BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

N

SOCORRO STUDY AREA

INDEX MAP OF NEW MEXICO

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

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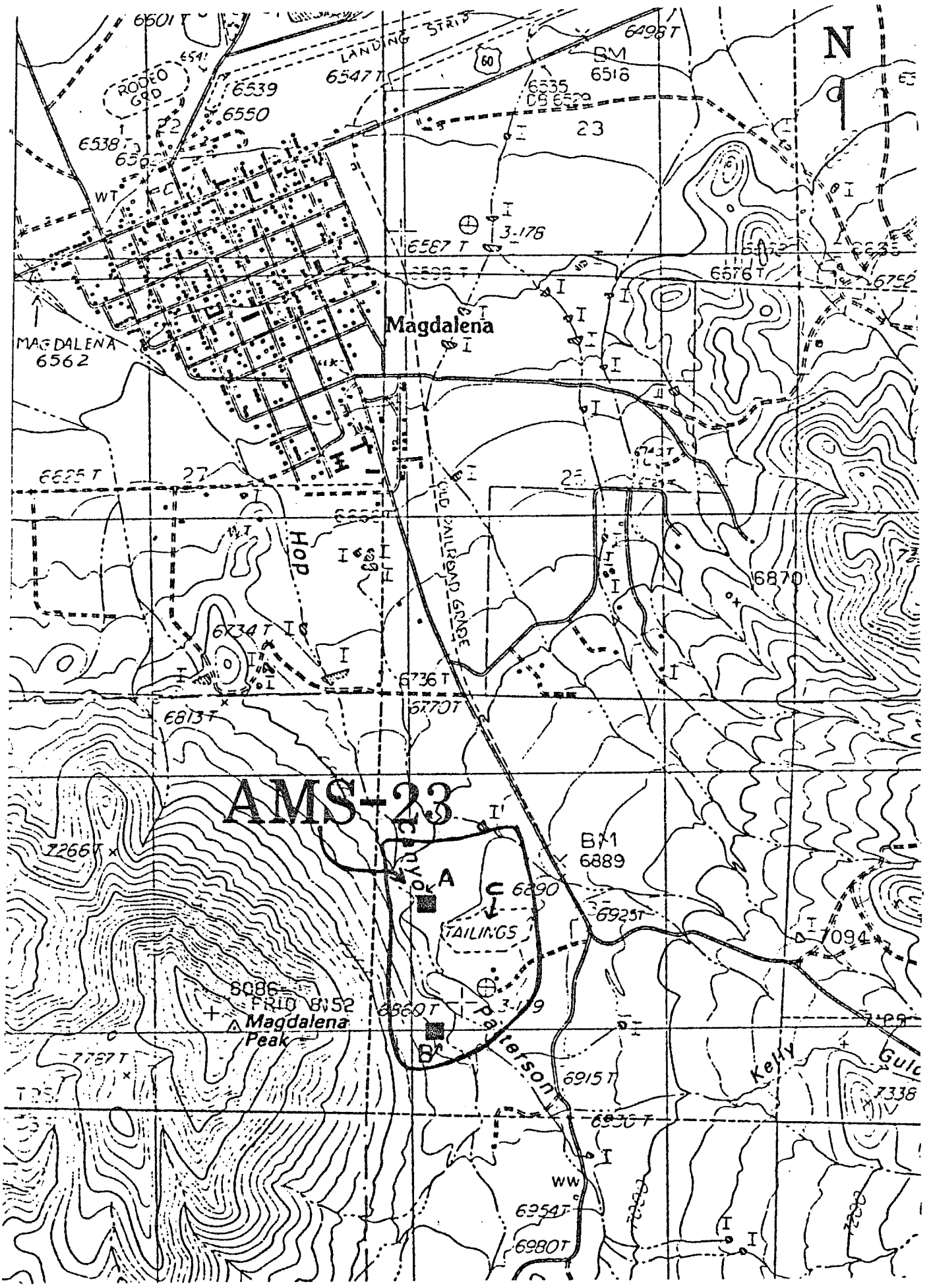

EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1988

BASE FROM U.S. GEOLOGICAL SURVEY: 1952, 1963, 1964, 1980, 1986

PLATE 6 OF 7

TAILINGS AREA

0 800 1600 ft

SCALE

N

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

INDEX MAP OF NEW MEXICO

MINING SITES LOCATED BY: D. BORROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

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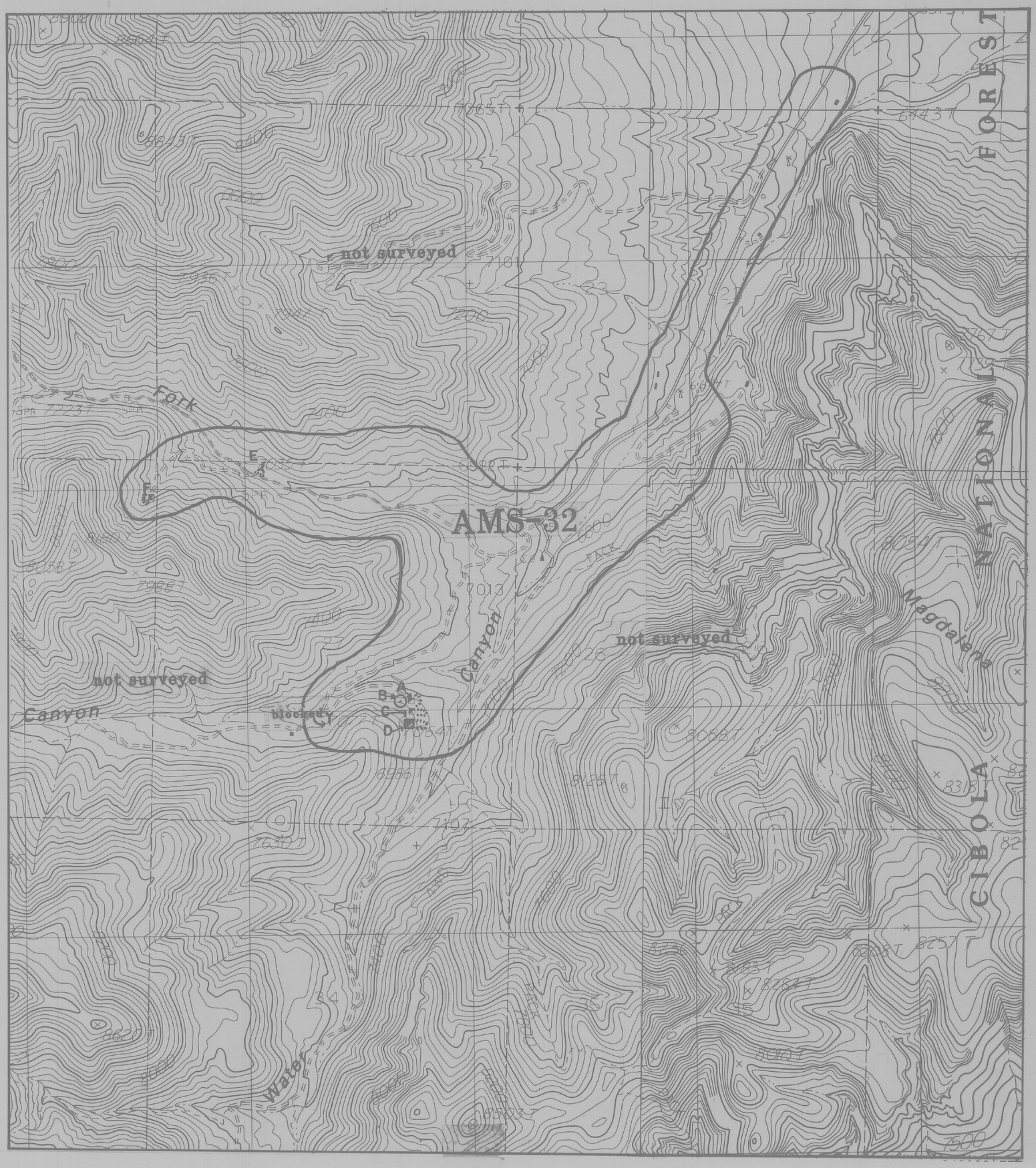


EXPLANATION

- SHAFT with MINE DUMP
- ADIT
- INCLINE
- STOPE
- OPEN CUT
- EXPLORATION PIT
- STRUCTURE or BUILDING
- ROAD or TRAIL (approximate location)

28 JUNE 1986

PLATE 7 OF 7

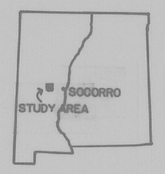
WATER CANYON

0 1000 2000 ft

SCALE

BASE FROM U.S. GEOLOGICAL SURVEY: 1932, 1963, 1964, 1980, 1985

N



INDEX MAP OF NEW MEXICO

ABANDONED MINES SURVEY
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, NEW MEXICO

MINING SITES LOCATED BY: D. BOBROW, G. JOHNPEER, G. OSBURN, S. SMITH, S. ROBINSON-COOK, K. COOK, D. LOVE

PREPARED BY: NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES