Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Bureau of Land Management Property in the Hailey Bellevue Area: Colorado and Star Gulches, Blaine County, Idaho

Victoria E. Mitchell
Virginia S. Gillerman
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Field Inspection conducted by Virginia S. Gillerman and Gregg Beukleman
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GEOLOGY

The area around Colorado and Star Gulches (Figure 1) is underlain by the Devonian Milligen Formation, the Dollarhide and Wood River formations of Pennsylvanian and Permian age, and by intrusive granitic rocks of Cretaceous age (Figure 2). The Milligen Formation is black argillite and phyllite, dark-colored calcareous sandstone and siltstone, and carbonaceous limestone (Worl and others, 1991). The Snoose Mine is believed to be a Cretaceous silver-lead-zinc vein deposits hosted by the Milligen Formation (Link and others, 1995; Worl and Johnson, 1995). The Dollarhide Formation is composed of dark-colored and carbonaceous calcareous sandstone, calcareous siltstone, silty and sandy limestone, and silty argillite (Worl and others, 1991). Cretaceous intrusive rocks, primarily quartz diorite and hornblende-biotite granodiorite, intrude the older sedimentary rocks (Figure 1; Worl and others, 1991). The vein at the Magdalena Mine is hosted by Cretaceous quartz diorite (Anderson, 1950), and the Star Mine is near the contact between the quartz diorite and the Dollarhide Formation (Worl and others, 1991). Anderson (1950) contains descriptins of the workings of these mines.

Most of these mines were discovered before 1900 (Lindgren, 1900), and major production of lead and silver occurred at that time (Umpleby and others, 1930). There is probably enough carbonate in the Dollarhide Formation to neutralize any acid mine water from mines that are hosted in this unit.

HAZARD ASSESSMENT

SITE ID-0054-00001: UPPER WORKINGS OF MAGDALENA MINE (HA-368b)

This site includes a line of small waste dumps which crosses the main road from Croy Creek to Colorado Gulch. All workings, which are probably no more than prospects, are caved. No hazards were seen and no remedial action is needed.

SITE ID-0054-00002: SNOOSE MINE (HA-367)

The Snoose Mine (a former producer of lead, zinc, silver, and gold) is adjacent to a well-used dirt road in Colorado Gulch. From Hailey, people can easily reach the main shaft. A truck driving up the short access road onto the dump (Figure 2-3) passes within a few feet of the headframe. A locked gate across this road would be a good idea. In addition to the shaft, the property has several open workings that are significant physical hazards that should be secured in the near future. In addition, there are recreation and public education opportunities at this site.

The main shaft area has one of the few remaining examples of a wooden headframe in the area. This headframe is in excellent shape, and the sheave wheel, cable, and hoist drums are still in place. The concrete hoist house has one wall missing, allowing people to view the hoist. The headframe could be left as an historic feature and informational signs installed to talk about the mining history of the area. A grate would secure the shaft, and the cage, which is still in the shaft,
Figure 1. Location map of the mines in Colorado and Star Gulches near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Fairfield 30x60-minute quadrangle, scale 1:100,000).
Figure 2. Geologic map of the area around Colorado and Star Gulches. Dm = Milligen Formation; PPdl, Pdm, Pdu = Dollarhide Formation; Pwh, PPwe, Pww = Wood River Formation; Kgdk, Kqd = Idaho batholith; Tct, Tca = Challis Volcanics; Qt = terrace gravels; Qa = alluvium. Heavy lines are faults: ball and bar on downthrown side of normal fault, sawteeth on upper plate of thrust fault, and hachures on upper plate of low-angle normal faults (Worl and others, 1991; enlarged to a scale of approximately 1:125,000).
Table 1. Summary of sites in Colorado and Star Gulches, Blaine County, Idaho. Site name in bold indicates property has one or more significant potential environmental or physical hazards. Under “Environmental Hazards”: W = adit discharge; T = a mill tailings problem, D = dump material in or near waterway. Under “Physical Hazards” - Features: A = adit, P = prospect pit, S = shaft, St = stope; Condition: O= open, C = Caved. ? = Unknown (condition or number).

<table>
<thead>
<tr>
<th>BLM Site Number</th>
<th>IGS Property Number</th>
<th>Mine Name</th>
<th>Environment Hazard</th>
<th>Physical Hazard</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-0054-00001</td>
<td>HA 368B</td>
<td>Magdalena Mine (upper workings)</td>
<td></td>
<td>1AC</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00002</td>
<td>HA 367</td>
<td>Snoose Mine</td>
<td>W, D?</td>
<td>4AO 1SO 2AC</td>
<td>Open shaft is near road and is extremely dangerous</td>
</tr>
<tr>
<td>ID-0054-00003</td>
<td>HA 368</td>
<td>Magdalena Mine</td>
<td>D</td>
<td>4AC</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00004</td>
<td>HA 368M</td>
<td>Magdalena Mine (Atlantic Mining Co. mill)</td>
<td></td>
<td>1AO</td>
<td>Trash needs to be cleaned up</td>
</tr>
<tr>
<td>ID-0054-00005</td>
<td>Unnamed prospect</td>
<td></td>
<td></td>
<td>1AO</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00006</td>
<td>HA 372</td>
<td>Star Mine</td>
<td>D</td>
<td>8AC 2SC</td>
<td></td>
</tr>
</tbody>
</table>
could be removed and placed nearby. The ore bin on the main waste dump is also an historic structure. A second building and the miscellaneous junk scattered around the main dump (including burned timbers, an oil can, corrugated sheet metal, rails, pipe, and other refuse) are eyesores rather than hazards. A very small (8 inches in diameter) gas or diesel spill was noted under a leaky iron tank. Cleanup would not be difficult.

Other physical hazards include open Adits #1, #2, and #3. Adit #1 has a 2-foot-high opening and is on the main road along Colorado Gulch. Adit #2 is next to the concrete building on the main waste dump. It is at least 6 feet high and is open at least 80 feet. Bullet-riddled beer cans inside the opening (Figure 2-7) shown that Adit #2 has been entered recently. Adit #3, located at the toe of the dump near the ore bin, is less accessible and less noticeable. Similarly, Adit #4, on the first large black dump in the gulch above the shaft, has a narrow opening about 1.5 feet high. All open adits should be gated or closed.

The Snoose Mine does not appear to pose any significant environmental hazard, even though some of the dump material is next to the creek. The rock on the dump consists of black, sheared argillite and some limestone. While pyrite was noted on the dump, the limestone should be a buffer against acid generation. Riparian vegetation and water quality looked excellent, though no measurements were taken at the creek.

SITE ID-0054-00003: MAGDALENA MINE (HA-368)

The Magdalena Mine also is on the main road in Colorado Gulch and can be reached easily by tourists and local residents. Four old adits were mapped at the site; all are caved. Adit #1, which is next to the main road, is now a 30-foot-deep trench in the hillside. The trench exposes weathered diorite or gabbro cut by a quartz vein containing pyrite, arsenopyrite, and siderite with a trace of copper oxide stain. Two waste dumps are present, the largest of which was mapped two parts: Dump #2, north of the road; and Dump #1, the toe of the dump on the south side of the road. North of the road, Dump #2 has rails and a trestle extending from Adit #1. It is possible there was an adit near the creek, but no clear evidence of a portal was seen. The other three adits and dumps are uphill and around the corner from the large buildings at Adit #1. There is a collapsed wooden building with sharp nails protruding from the boards near Adit #4. Old mining equipment left at the Magdalena Mine includes a yellow International Harvester bulldozer at Adit #1, and a yellow U.S. Navy compressor, an old hoist drum, and an engine at Adit #2.

This site contains several unique mitigation problems related to non-mining use of the site. Two large metal buildings are next to the main road at the Adit #1 site (Figures 3-4 and 3-6). Building #1, a metal shed which is approximately 30 feet by 20 feet, is partially collapsed. The steel beams are intact, but the insulation is exposed and is tearing off. There is an old yellow tank adjacent to the building. Its original contents are unknown, but it may have been a storage tank for compressed air (Earl Bennett, personal communication). An old kitchen stove, rails, and a large amount of trash are inside and around this building, which needs to be torn down and removed. Building #2 is a locked metal shed (60 feet by 45 feet) in good condition. It contains over 50 used motorcycles (Figures 3-7, 3-8, and 3-9), an old Chevy sedan and a truck stripped for parts, some snowmobiles, and a metal tank, possibly used for fuel. According to the BLM Shoshone District geologist, the motorcycles are being stored by Bob’s Motorcycles of Hailey.
Old buckets, tires, timbers, and other junk litter the inside and the outside of the building.

In summary, although there are no dangerous hazards here, the Magdalena Mine site requires a major cleanup to remove the trash.

SITE ID-0054-00004: MAGDALENA MINE – ATLANTIS MINING CO.
MILLSITE (HA-368m)

Located on a grassy bench approximately 1,000 feet north of the main Colorado Gulch road, this site was the scene of a major explosion in 1994. The blackened outline of the building measures about 100 feet by 50 feet. Within that footprint, small pieces of charred wood and melted pieces of metal or plastic are all that remain of the building and its contents. Eight large (over 10 feet long) pieces of machinery sit nearby. They include a grinding mill or tumbler, a conveyor, a fan, a sluice box(?), a fuel tank, a yellow hopper(?), a gravity sluice box(?), an old axle, and more pieces of partially melted metal and trash. Two empty tanks were seen. There is nothing hazardous left at the site, but the burned trash should be cleaned up. A dry reservoir with an earthen dam is in the gulch. It looks more like a cattle pond than a water supply for milling. The cause of the explosion is unknown, but it probably was not due to any mining-related cause unless someone had stored old dynamite or powder there. The BLM Shoshone District geologist has a report on the explosion.

A small prospect and a dump are located in the gulch 200 feet above the millsite. Adit #1 (Figure 4-6), on the south side of the road near the creek, is partially open. A few piles of barren-looking rock are located near the millsite, but none of this rock resembles the Magdalena or Snoose ore.

The explosion site and an old hunter’s camp near the road could greatly benefit from a general cleanup, but the explosion demolished any major hazards.

SITE ID-0054-00005: UPPER COLORADO GULCH ADIT

This unnamed property contains a gaping opening, easily visible from the main road into Colorado Gulch from Croy Creek. The open adit, high on the ridge, faces Colorado Gulch and is near the saddle between Colorado Gulch and Star Gulch. It is easily accessible at the end of a short road off the main road. The portal is supported by metal pipes and timbers, which are in good condition. The adit is about 6 feet wide and 8 feet high, and it goes in at least 100 feet. The rock consists of competent, banded limestone and argillite, cut by a diabase sill and several flat faults. Much of the limestone has been recrystallized. The workings are clean and in excellent condition. Beer cans and a fire ring at the portal are evidence of recent use. The claim may still be active, though the ownership record was not investigated. The underground work appears to have been done within the past 10-20 years. The waste dump is of moderate size. A few old timbers litter the dump, but trash is minimal. A trench and two small prospects are on the surface uphill from the portal. Though in good condition, the adit clearly needs a locked gate.
SITE ID-0054-00006: STAR MINE (HA-372)

The Star Mine extends almost 0.5 mile from the ridge between Colorado Gulch and Star Gulch down Star Gulch to the east (Figure 6-4). The recreational use of the area has decreased since the road was washed out in several places in lower Star Gulch. The road in the lower portion of Colorado Gulch is also washed out. Private property at the lower end of Star Gulch also limits access. However, several large dumps and a shaft site are only a short distance from the road near the saddle between Star and Colorado Gulches (Figure 6-3).

The rocks consist of diorite in the upper part of Star Gulch, changing to limestone and argillite in the lower part. There is quartz-siderite vein material on the dumps and massive siderite near the sediment-intrusive contact. Iron oxide is abundant but only one piece of pyrite, which included some galena, was noted. Overall, the vegetation looked healthy.

The most hazardous feature is the Star Shaft (Shaft #1; Figures 6-6 and 6-7). This depression, which is fairly near the road, is 40 feet deep and 50 feet wide. It should be fenced or filled in. There are remnants of a barbed wire fence around it, but it is mostly down. It may be possible to push part of the lobate dump into the shaft depression.

Other workings, all adits and trenches, are caved. The most noticeable dumps are on the upper portion of the gulch. Eight adits were mapped with the GPS unit. The dumps are small- to medium-sized, and some of them are in the dry gulch (Figure 6-8). Adit #8, the lowermost adit, is located on the north side of the gulch. It has rails coming out of it and water draining from it (Figure 6-9). The pH of the water was 7.4, the specific conductivity was 310, and estimated flow was under 15 gallons per minute. The water temperature was cool, and watercress and other riparian or swamp plants were thriving. The adit drainage is the source of any water in the creek below the adit, as the gulch was dry above that point. One blasting cap was found in the dump material near Adit #8. A sizable waste rock dam and rail trestle, presumably part of a loading facility, are located a short way below Adit #8 (Figure 6-10). This section of Star Gulch appears to have few visitors, and no remedial measures are necessary. The adit drainage appears to be high quality water and no environmental problems were noted.

REFERENCES


SITE INSPECTION REPORTS FOR THE MINES IN COLORADO AND STAR GULCHES
A. SITE IDENTIFICATION
ID Number: ______ D - 0 0 5 4 - 0 0 0 0 1
Site/Mine Name: Magdalena Mine (upper workings: HA 368B) Primary Commodity: Au

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4818109 N 715499.5 E Zone 11 AND
Township: 2 N Range: 18 E Section: 20 Subdivision: SW1/4 SE1/4
Meridian: Boise 08 County: Blaine 013
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road X / Trail ___ / Population center ___
Access by: 2wd X / 4wd ___ / Hike ___ / Other Bike
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Line of dumps crosses the road from the Croy Creek Road over to Colorado Gulch

Recent human use: X Describe: Mountain bikers on road

D. SITE DESCRIPTION
Acreage: ___ Elevation: ___
General slope (degrees): 0-10 ___ / 11-35 X ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___
Recent mineral activity ___ Describe: ________________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / Closed adits ___ / Open inclines ___ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stope ___
Other openings ___ Type ___
Trenches ___ Length ___ / Prospects ___ / Open drill holes ___

Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___
Waste dumps: <0.1 ac X ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___

Ponds ___ / Dams ___
Mills ___ Type ___ , ___ , ___

Explosives ___ Describe: ________________________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways ___
Powerlines ___
Structures ___ Type ___
Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___
Homesites ___

Other: ________________________________

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: ________________________

ANIMALS
Evidence: ___ / Presence: ___ / Describe: ________________________________

GEOLOGY  Decomposed Monzonite
Staining of soils ___ Describe: ________________________________
Sulfide minerals some Type(s): most sulfides oxidized; iron-stained quartz vein
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: ___ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: ___ ___ ___ ___ ___ ___
Water through/over tailings: ___ ___ ___ ___ ___ ___
waste rock: ___ ___ ___ ___ ___ ___
ore: ___ ___ ___ ___ ___ ___

Adjacent water sources:
Ground water: Type pH Conductivity Flow (GPM) Distance
Surface water: ___________________ ___ ___ ___ ___ ___
Surface H2O above site: ___ ___ ___ ___ ___ ___
Surface H2O below site: ___ ___ ___ ___ ___ ___

Evidence of aquatic life: ___ Location: __________ Describe: ________________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Brown ___ / Green ___ / Grey-Black ___ / Other _________________________

Samples collected: ___ Sketch #(s): ________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ___ / Acid or Chemical odor ___ / Asbestos ___
Petrochemical Products ___ / Dump sites ___
Power Substations ___ / Transformers ___

Barrels, Tanks, Containers ___ Leaking: ___ Contents: __________________________
Evidence of Underground Storage Tanks: ___ Describe: __________________________

Other: ___________________________________________________________________

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ____ / Gullies ____ / Sheetwash ____
Unstable Rock ____ / Slope instability ____ / Wind erosion ____

MITIGATION STATUS
None ____ / Fencing ____ / Signs ____ / Safety hazards mitigated ____
Other: ________________________________

Mitigation condition: Good ____ / Fair ____ / Poor ____
Site ID tags: ____ / Locations: ________________________________

OPTIONAL: Identify the critical reclamation measures needed:

____ Cable nets, grates ____ Topsoil, soil amendments
____ Permanent seal ____ Revegetation
____ Gates ____ Stabilize/destroy structures
____ Backfill openings, pit ____ Drainage control
____ Recontour ____ Water treatment
____ Fences ____ Wildlife closure
____ Warning signs ____ No action
____ Plug open drill holes ____ Trash / clean up
____ Other: ________________________________

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features
on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  r082816a.cor

K. PHOTOGRAPHS
Number of photographs taken: 0

L. ACTION
Site requires immediate investigation ____ by: Law Enforcement ____ / BLM ____
HAZMAT ____ / Other __________________________

Reason: Low Priority – no action needed

______________________________
______________________________
______________________________
______________________________

(03/95)
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

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<tr>
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<td>Collapsed Adit #1</td>
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<tr>
<td>Waste Dump #1</td>
<td>50 feet</td>
<td>50 feet</td>
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<td>Waste Dump #2</td>
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<td>Waste Dump #3</td>
<td>30 feet</td>
<td>30 feet</td>
<td>3-10 feet</td>
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Field Notes:

Figures 1-1 and 1-2 show the locations of features at this site. The collapsed adit is associated with Dump #1, which is nearest the road.
Figure 1-1. Topographic map of the Magdalena Mine (upper workings), Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 1-2. Map of the Magdalena Mine (upper workings), showing features logged during the site inspection.
### BLM AML INVENTORY FIELD CHECKLIST

**ID Number:** ID-0054-00001

**PHOTO LOG**

Fill out the following for each photo:

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(03/95)
BLM AML INVENTORY    ID Number:  ID-0054-00001
SUPPLEMENTAL OFFICE DATA SHEET

A. SITE IDENTIFICATION
   Other BLM ID Number: ________________________________
   Locatable ____ / Leasable ____ / Salable ____
   Operator (last known): ________________________________
   Commodities: Primary ____ / Secondary ____________________
   Other Agency ID Number: ______ Agency: ____________________

B. LOCATION DATA
   Site is in ____ or within a mile ____ of:
   ACEC ____ / WSA ____ / Wilderness Area ____ / Riparian Area ____
   Nominated for Designation to National Wild & Scenic River System ____

C. ACCESS
   Distance in Miles to Closest Public:
   Road ______ Dwelling ______ School ______
   Potable Water ______ Water Source ______ Trail ______
   Campground/Picnic Area ______ Other Public Use ______

D. SITE DESCRIPTION
   Nearest named drainage: ____ Distance: ____

G. POTENTIAL HAZARDOUS MATERIALS
   Site is under regulatory action ______
   CERCLIS Number ____ OR
   Federal Docket Number

H. RECLAMATION: Closure Information
   Clearances: Threatened & Endangered Species ____________________
   Cultural Resources ____________________
   Historic ____________________
   Other ____________________
   Date reclamation completed: ____________________
   Type of closure: ____________________ Cost: ____________________
   Comments: ____________________
   ____________________
   ____________________
   ____________________
   ____________________
   Monitoring frequency: _______ Dates of monitoring visits: ____________________
   ____________________
   ____________________
   ____________________
   ____________________

NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)

17
### INTERVIEWS

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</tbody>
</table>
A. SITE IDENTIFICATION
ID Number: 1 D - 0 0 5 4 - 0 0 0 0 2
Site/Mine Name: Snoose Mine (HA-367) Primary Commodity: Pb, Zn, Ag, Au

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4818393 N 716499.5 E Zone 11 AND
Township: T 2 N Range: R 18 E Section: 21 Subdivision: SW¼ SW¼ (center SW)
Meridian: Boise 08 County: Blaine 013
Surface: BLM ___ / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center ___
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Adjacent to Colorado Gulch Road

Recent human use: ___ X ___ Describe: Nearby archery range. Adjacent to recreational road, shooting at adit, recent beverage cans

D. SITE DESCRIPTION
Acreage: ___ Elevation: ~5,630 feet
General slope (degrees): 0-10 ___ / 11-35 ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___ small creek — looks great
Recent mineral activity ___ Describe: ___ Not very recent ___

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / Closed adits ___ / Open inclines ___ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stopes ___
Other openings ___ / Type ___
Trenches ___ / Length ___ / Prospects ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___
Mills ___ / Type ___ , ___ , ___

Explosives ___ / Describe: ___
Equipment/Machinery ___ X ___ / Headframes ___ / Trestles/tramways ___
Powerlines ___
Structures ___ / Type ___ Buildings and headframe ___
Condition: Good ___ / Fair ___ X / Poor ___ / Number Locked ___ 0
Homesites ___

Other: ___

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: _______________________________________

ANIMALS
Evidence: ___ / Presence: ___ / Describe: ________________________________________________

GEOLOGY
Black argillite (sheared), some recrystallized limestone (light gray) on main dump
Staining of soils ___ Describe: _________________________________________________________
Sulfide minerals X Type(s): pyrite; sulfides abundant on dumps by creek
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: ___ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: Adit #4 ___ water inaccessible ___
Water through/over tailings: ___ _____ _____ ___
waste rock: ___ _____ _____ ___
ore: ___ _____ _____ ___

Adjacent water sources:
Ground water: Type pH Conductivity Flow (GPM) Distance
Surface water: stream ___ _____ _____ ___
Surface H2O above site: ___ _____ _____ ___
Surface H2O below site: ___ _____ _____ ___

Evidence of aquatic life: ___ Location: _______ Describe: __________________________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Brown ___ / Green ___ / Grey-Black X ___ / Other __________________________

Samples collected: ____ Sketch #(#s): _________________________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ___ / Acid or Chemical odor ___ / Asbestos ___
Petrochemical Products minor / Dump sites trash and old hoses on dump
Power Substations ___ / Transformers ___

Barrels, Tanks, Containers ___ Leaking: ___ Contents: _________________________________
Evidence of Underground Storage Tanks: ___ Describe: ________________________________

Other: ____________________________________________________________________________
_______________________________________________________________________________

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills _____ / Gullies _____ / Sheetwash _____
Unstable Rock _____ / Slope instability _____ / Wind erosion _____

MITIGATION STATUS
None _____ / Fencing _____ / Signs _____ / Safety hazards mitigated _____
Other: _____________________________________________________________

Mitigation condition: Good _____ / Fair _____ / Poor _____
Site ID tags: _____ / Locations: ________________________________

OPTIONAL: Identify the critical reclamation measures needed:

  X  Cable nets, grates  _____ Topsoil, soil amendments
  _____ Permanent seal   _____ Revegetation
  _____ Gates           _____ Stabilize/destroy structures
  _____ Backfill openings, pit  _____ Drainage control
  _____ Recontour       _____ Water treatment
  _____ Fences          _____ Wildlife closure
  _____ Warning signs   _____ No action
  _____ Plug open drill holes  X Trash / clean up
  _____ Other: The fences and warning signs at the site are useless.

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  HA367.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 1 (Neg. 9078), frames 1-15

L. ACTION
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM X
HAZMAT _____ / Other ________________________________

Reason: Dangerous physical hazards near a recreational road.

(03/95)
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
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<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit #1 (main adit by road)</td>
<td></td>
<td></td>
<td>2 feet open</td>
<td>Caved - should close totally</td>
</tr>
<tr>
<td>Adit #2 (by building)</td>
<td>Open to at least 80 feet back</td>
<td>~6 feet</td>
<td>6 feet open</td>
<td>Close ASAP</td>
</tr>
<tr>
<td>Concrete building</td>
<td>40 feet</td>
<td>~25 feet</td>
<td></td>
<td>Clean up trash</td>
</tr>
<tr>
<td>Shaft #1</td>
<td>15 feet</td>
<td>8 feet</td>
<td>open at least 40 feet down</td>
<td>Close the shaft and cover the opening</td>
</tr>
<tr>
<td>Headframe</td>
<td></td>
<td></td>
<td></td>
<td>Leave the headframe in place</td>
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<tr>
<td>Dump #1 (Perimeter #1)</td>
<td></td>
<td></td>
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<tr>
<td>Ore Bin</td>
<td>big</td>
<td></td>
<td></td>
<td>Historic structure; leave in place</td>
</tr>
<tr>
<td>Adit #3 (by ore pass) — open</td>
<td>4 feet</td>
<td>4 feet open</td>
<td></td>
<td>Close</td>
</tr>
<tr>
<td>Hoist house</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Prospect #2 (by creek)</td>
<td>10 feet</td>
<td>10 feet</td>
<td>5 feet</td>
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<tr>
<td>Prospect #3 (by creek)</td>
<td>30 feet</td>
<td>30 feet</td>
<td>10 feet</td>
<td></td>
</tr>
<tr>
<td>Adit #4 (upper adit A)</td>
<td>~6 feet</td>
<td></td>
<td>3 feet open</td>
<td>Drain or plug</td>
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<tr>
<td>Waste Dump #2</td>
<td></td>
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<tr>
<td>Adit #5</td>
<td>6 feet</td>
<td>?</td>
<td></td>
<td>In brushy and inaccessible location</td>
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<tr>
<td>Waste Dump #3</td>
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Field Notes:

See next page.
Field Notes:

Adit #1 has a 2-foot opening underneath the wooden portal (Figure 2-3), which a determined thrill-seeker could squeeze through (Figure 2-4). The rock in the area is sheared black argillite which presents a danger of rock slides and cave-ins. The wooden door on the adit is open, but the lower half is blocked by fallen rocks.

Adit #2, next to the concrete building, is 6 feet high, 6 feet wide, and open at least 80 feet back (Figure 2-5). Beyond that, the adit appears to turn. The adit is timbered, although the rocks have caved in places (Figure 2-6). Some cans that have been recently used for target practice are near the portal. According to Anderson (1950), this is the No. 3 tunnel of the mine.

Building #1 is made of concrete blocks and is in good shape, except where one corner has been knocked out (Figures 2-7 and 2-8). This building may have been a shop, because rails and hoses are littered around the area.

Adit #3 (Figure 2-9) is near creek level next to the ore bin at the base of the dump (Figure 2-10). This adit heads toward the shaft, and it is open at least 60 feet. It probably intersects the shaft (Anderson, 1950, Figure 9). The timbers are tilted, and the opening is about 4 feet high by 5 feet wide.

The two-compartment shaft is partially open. Since it is only 50 feet from the main road, it is very dangerous. The headframe is in excellent shape and is an historic feature (Figures 2-11 and 2-12). If possible, it should be left in place, perhaps with steel grate over the shaft. The cage is in the shaft, and the sheave wheel has the cable in place. The hoist house is west of the shaft. The building is open on one side (Figure 2-13), but otherwise is in fair shape. The hoist drums, brake, and motor are still there (Figure 2-14). The drums have the cable partially in place, but the copper wire has been stripped from the motor. This site should be considered for a museum or interpretive center.

The dump near the main workings is littered with the usual hoses, sheet metal, PVC pipe, scrap iron, and lumber with nails in it. There is one 55-gallon drum, which is probably empty. There is some oil on the ground from a leaky iron tank. The spot is 8 inches in diameter.

Adit #4 (Upper Adit A) is next to a large, black dump in the gulch above and east of the Snoose shaft. This is the No. 2 tunnel of the mine (Anderson, 1950). The dump is argillite and silicified limestone, with abundant pyrite. Burned timbers, an oil can, corrugated sheet metal, old rails, pipe and other debris are on the dump, as well as beer bottles. The adit has a timbered portal with a wooden gate and is below a 15-foot highwall (Figure 2-15). Water standing in the adit is inaccessible because of the gate and because of a dirt dam in front of the portal. The water does not stain the rocks and contains no iron oxides. The trickle coming from the adit supports a good growth of vegetation and moss. A collapsed sheet-metal building is nearby.

Adit #5 (Upper Adit B) is partially caved but still may be accessible (Figure 2-16). There is a dense growth of nettles and brush around the adit. There are some timbers and scrap metal on the dump, but little trash. According to Anderson (1950), this was the No. 1, or Reed, tunnel.

Figure 2-17 shows two dumps across Colorado Gulch to the northwest of the Snoose headframe. This area is part of the Snoose claim block and the dumps may represent some of the early workings. A 1946 map in IGS’s files shows several caved adits and a caved shaft in that gulch.
Figure 2-1. Topographic map of the Snoose Mine, Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 2-2. Map of the Snoose Mine, showing features logged during the site inspection.
Figure 2-3. Sketch map of main area at the Snoose Mine.
Fill out the following for each photo:

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<th>Frame Number</th>
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<td>1 (Neg. 9078)</td>
<td>1</td>
<td>looking NW</td>
<td>Adit #1 on main road, partially open</td>
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<tr>
<td>1 (Neg. 9078)</td>
<td>2</td>
<td>looking NW</td>
<td>Adit #1 – close-up beneath timbers; adit is caved, but the door is open</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>3</td>
<td>looking SSE</td>
<td>Adit #2 (near building) – open</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>4</td>
<td></td>
<td>Adit #2 interior – open at least 80 feet back</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>5</td>
<td>looking SSE</td>
<td>Concrete Building #1</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
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<td>looking west</td>
<td>Headframe at Shaft #1</td>
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<td>Concrete Building #1, with knocked-out corner</td>
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<td>looking north</td>
<td>Wooden ore bin on the lower part of the dump towards the creek</td>
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<tr>
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<td>9</td>
<td>looking south</td>
<td>Adit #3 portal, by the creek and the ore pass. The opening is 4 feet high, and the timbers are tilted</td>
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<td>1 (Neg. 9078)</td>
<td>10</td>
<td>looking south</td>
<td>Hoist House</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>11</td>
<td>looking south</td>
<td>Hoist House interior, showing drum</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>12</td>
<td>looking west</td>
<td>Adit #4 (Upper Adit A)</td>
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<tr>
<td>1 (Neg. 9078)</td>
<td>13</td>
<td>looking west</td>
<td>Adit #5 (Upper Adit B), partially caved and guarded by heavy vegetation, including nettles</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>14</td>
<td>looking NW</td>
<td>Two dumps (old adits?) in the gulch across from the Snoose headframe</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>15</td>
<td>* down (NE)</td>
<td>Snoose headframe and ore bin</td>
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</tbody>
</table>

(03/95)
BLM AML INVENTORY
ID Number: ID-0054-00002
SUPPLEMENTAL OFFICE DATA SHEET

A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable _____ / Leasable _____ / Salable _____
Operator (last known): ____________________________________________
Commodities: Primary ____ / Secondary ___________________________
Other Agency ID Number: _____ Agency: ____________________________

B. LOCATION DATA
Site is in _____ or within a mile _____ of:
ACEC _____ / WSA _____ / Wilderness Area _____ / Riparian Area _____
Nominated for Designation to National Wild & Scenic River System _____

C. ACCESS
Distance in Miles to Closest Public:
Road _______ Dwelling _______ School _______
Potable Water _______ Water Source _______ Trail _______
Campground/Picnic Area _______ Other Public Use _______

D. SITE DESCRIPTION
Nearest named drainage: _____ Distance: ______

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action _____
CERCLIS Number ____ OR
Federal Docket Number _________

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species __________________________
Cultural Resources __________________________
Historic __________________________
Other __________________________

Date reclamation completed: __________________________ Cost: ______
Type of closure: __________________________ Comments: __________________________

Monitoring frequency: _______ Dates of monitoring visits: __________________________
________________________________________
________________________________________
________________________________________
________________________________________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)
I. INTERVIEWS

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

(03/95)
Figure 2-4. Adit #1 at the Snoose Mine. The view is to the northwest (Roll Hailey 1 (9078), frame #1; photograph by Virginia S. Gillerman; August 29, 1997).

Figure 2-5. Close-up view beneath the portal timbers at Adit #1 at the Snoose Mine. The view is to the northwest (Roll Hailey 1 (9078), frame #2; photograph by Virginia S. Gillerman; August 29, 1997).
Figure 2-6. Adit No. 2 at the Snoose Mine. The view is to the south-southeast (Roll Hailey 1 (9078), frame #3, photograph by Virginia S. Gillerman, August 29, 1997).

Figure 2-7. Interior view of Adit #2 at the Snoose Mine. The adit is open at least 80 feet. The view is to the south-southeast (Roll Hailey 1 (9078), frame #4, photograph by Virginia S. Gillerman, August 29, 1997).
Figure 2-8. Concrete Building #1 at the Snoose Mine. The view is to the south-southeast (Roll Hailey 1 (9078), frame #5; photograph by Virginia S. Gillerman; August 29, 1997).

Figure 2-9. Concrete Building #1 at the Snoose Mine, showing the missing corner. The view is to the east (Roll Hailey 1 (9078), frame #7; photograph by Virginia S. Gillerman; August 29, 1997).
Figure 2-10. Portal of open Adit #3 at the Snoose Mine. The view is to the south (Roll Hailey 1 (9078), frame #9; photograph by Virginia S. Gillerman; August 29, 1997).

Figure 2-11. Wooden ore bin on the lower part of the Snoose dump. The view is to the north (Roll Hailey 1 (9078), frame #8; photograph by Virginia S. Gillerman; August 29, 1997).
Figure 2-12  Headframe at Shaft #1 at the Snoose Mine. The view is to the west (Roll Hailey 1 (9078), frame #6; photograph by Virginia S. Gillerman, August 29, 1997).

Figure 2-13  Looking down at the Snoose headframe, with the ore bin in the background. The view is to the northeast (Roll Hailey 1 (9078), frame #15; photograph by Virginia S. Gillerman, August 29, 1997).
Figure 2-14. Hoist house at the Snoose Mine. The view is to the south (Roll Hailey 1 (9078), frame #10, photograph by Virginia S. Gillerman; August 29, 1997).

Figure 2-15. Close-up of the hoist at the Snoose Mine. The view is to the south (Roll Hailey 1 (9078), frame #11, photograph by Virginia S. Gillerman; August 29, 1997)
Figure 2-16. Adit #4 at the Snoose Mine. The view is to the west (Roll Hailey 1 (9078), frame #12; photograph by Virginia S. Gillerman; August 29, 1997).

Figure 2-17. Partially caved Adit #5 at the Snoose Mine. There are nettles in the heavy vegetation around the portal. The view is to the west (Roll Hailey 1 (9078), frame #13; photograph by Virginia S. Gillerman; August 29, 1997).
Figure 2-18. Two dumps in the gulch to the north of the Snoose headframe. These dumps are on part of the Snoose claim block and may represent some of the early workings at the mine. The view is to the northwest (Roll Hailey 1 (9078), frame #14; photograph by Virginia S. Gillerman; August 29, 1997).
A. SITE IDENTIFICATION
ID Number: 1 D - 0 0 5 4 - 0 0 0 0 3
Site/Mine Name: Magdalena Mine (HA-368) Primary Commodity: Au

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4817609 N 716108.1 E Zone 11 AND
Township: T. 2 N Range: 18 E Section: 29 Subdivision: NE¼ NE¼
Meridian: Boise 08 County: Blaine 013
Surface: BLM X / Non-BLM ____ Mineral Estate: BLM ____ / Non-BLM ____

C. ACCESS
Visible from: Nearest road X / Trail ____ / Population center ____
Access by: 2wd ____ / 4wd X / Hike ____ / Other ____
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ____
Road Log: Next to road through Colorado Gulch

Recent human use: X Describe: metal shed used by Bob's Motorcycle for storage

D. SITE DESCRIPTION
Acreage: _ Elevation: 5,920' +
General slope (degrees): 0-10 ____ / 11-35 X ____ / >35 ____
Floodplain: Disturbance in ____ / Adjacent to X / NA ____
Recent mineral activity ____ Describe: 

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 4 / Closed adits 0 / Open inclines ____ / Closed inclines ____
Open shafts 0 / Closed shafts 0 / Stopes ____
Other openings ____ Type ____
Trenches 1 Length ______ / Prospects Several / Open drill holes ____
Pits >30 ft. deep ____ / Pits <30 ft. deep 2 ____ / Pit highwall length ________
Waste dumps: <0.1 ac ____ / 0.1 - 5 ac X ____ / >5 ac ____
Tailings: <0.1 ac ____ / 0.1 - 5 ac ____ / >5 ac ____
Heaps ____ / Dredge ____
Ponds ____ / Dams X Dump #1 was pushed into the creek, forming a pond behind it
Mills ____ Type ____ ____
Explosives ____ Describe: ____________
Equipment/Machinery X / Headframes ____ / Trestles/tramways ____
Powerlines ____
Structures 2 Type Metal buildings, one in active use
Condition: Good ____ / Fair ____ / Poor ____ / Number Locked 1
Homesites ______
Other: Lots of trash, old mine timbers, tires, bikes

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent ____
Evidence of natural revegetation: ____ / Describe: ___________________________

ANIMALS
Evidence: __ / Presence: __ / Describe: _________________________________

GEOLOGY
Diorite/gabbro host rock
Staining of soils X Describe: minor iron staining on vein structures
Sulfide minerals X Type(s): Pyrite, Arsenopyrite and siderite in quartz vein; traces of copper oxide minerals on dump
Tailings: Confined ____ / Unconfined ____ / Unknown ____

HYDROLOGY
Water flowing from workings: ____ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: ____ ____ ____ ____ ____
Water through/over tailings: ____ ____ ____ ____ ____
waste rock: Yes 6.9 130 10 ____
ore: ____ ____ ____ ____ ____
Adjacent water sources: Type pH Conductivity Flow (GPM) Distance
Ground water:
Surface water: creek below dump 6.9 130 10 gpm ____
Surface H2O above site: ____ ____ ____ ____ ____
Surface H2O below site: ____ ____ ____ ____ ____
Evidence of aquatic life: ____ Location: __________ Describe: _______________________

Water bed color: White ____ / Yellow ____ / Yellow-Orange ____ / Orange ____
Brown ____ / Green ____ / Grey-Black X ____ / Other Normal; lots of organic materials and vegetation

Samples collected: ____ Sketch #(s): ________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos (?) possibly in insulation
Petrochemical Products ____ / Dump sites ____
Power Substations ____ / Transformers ____

Barrels, Tanks, Containers Yes Leaking: ____ Contents: Empty Barrel
Evidence of Underground Storage Tanks: ____ Describe: Rusting metal fuel tank by Bldg. #2; oil stain on floor in Bldg. #1; Old drum and 2 buckets at Adit #4; yellow 15-foot upright tank for water or air for adit.

Other: Locked building houses more than 50 motorcycles. Possibly oil, gasoline, etc., on site. Inspection of the interior was not possible.

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills _____ / Gullies _____ / Sheetwash _____
Unstable Rock _____ / Slope instability _____ / Wind erosion _____

MITIGATION STATUS
None _____ / Fencing _____ / Signs _____ / Safety hazards mitigated _____
Other: _______________________________________________________________________

Mitigation condition: Good _____ / Fair _____ / Poor _____
Site ID tags: _____ / Locations: _______________________________________________________________________

OPTIONAL: Identify the critical reclamation measures needed:

_____ Cable nets, grates
_____ Permanent seal
_____ Gates
_____ Backfill openings, pit
_____ Recontour
_____ Fences
_____ Warning signs
_____ Plug open drill holes
_____ Other: _______________________________________________________________________

(____) Topsoil, soil amendments
(____) Revegetation
(____) X Stabilize/destroy structures
(____) Drainage control
(____) Water treatment
(____) Wildlife closure
(____) No action
(____) Trash / clean up

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features
on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  HA368.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 1 (Neg. 9078), frames 18-25; Roll 2 (9073), frames 1a-4a

L. ACTION
Site requires immediate investigation _____ by: Law Enforcement ____ / BLM ____
HAZMAT ____ / Other ___________________________________________________________________

Reason: The BLM Shoshone District Office is aware of possible trespassing in connection with
the occupancy of one building. Trash clean-up is needed.

_____________________________________________________________________

(03/95)
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building #1</td>
<td>30 feet</td>
<td>20 feet</td>
<td>~15 feet</td>
<td>Tear down and remove</td>
</tr>
<tr>
<td>Trench #1</td>
<td></td>
<td></td>
<td>~30 feet</td>
<td></td>
</tr>
<tr>
<td>Adit #1 (in Trench #1)</td>
<td></td>
<td></td>
<td></td>
<td>closed</td>
</tr>
<tr>
<td>Building #2 (with motorcycles)</td>
<td>60 feet</td>
<td>45 feet</td>
<td>20-40 feet</td>
<td>occupancy problem</td>
</tr>
<tr>
<td>Dump #1 (south of road)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump #2 (north of road)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #2</td>
<td></td>
<td></td>
<td></td>
<td>none; closed</td>
</tr>
<tr>
<td>Dump #3</td>
<td>~20 feet</td>
<td>20 feet</td>
<td>10 feet</td>
<td></td>
</tr>
<tr>
<td>Adit #3</td>
<td></td>
<td></td>
<td>20 feet max</td>
<td>caved</td>
</tr>
<tr>
<td>Adit #4 (with collapsed building)</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Old wooden building (northeast of Adit #4)</td>
<td>~30 feet</td>
<td>20 feet</td>
<td>collapsed</td>
<td>sharp nails</td>
</tr>
<tr>
<td>Prospect #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

See next page.
Field Notes:

Building #1 is a collapsed metal shed next to the main road (Figure 3-3). The steel beams are intact, but the insulation is exposed and ripping off. An old yellow tank is adjacent to the building (Figure 3-4). An old kitchen range, general trash, and old rails are also present.

Building #2 is a large metal shed with its roof intact (Figure 3-5). It is used by Bob's Motorcycles of Hailey to store motorcycles (Figures 3-6, 3-7, and 3-8). Old snowcats, some old buckets, tires, and timber are scattered around the site. A rusted yellow bulldozer (an International Harvester) is parked on the site (Figure 3-5).

A large trench (Figure 3-9) has been excavated behind the portal Adit #1, which has collapsed. This trench exposed the vein material, which is also present on the dump (Figure 3-10).

Dump #2, which is on the north side of the road, has rails on it. A trestle runs out from Adit #1. Dump #1, which is on the south side of the road, is actually the toe of Dump #2.

Adit #2, which was the intermediate level of the mine, is caved. It is on the west side of the road. An old, yellow, U.S. Navy compressor is on the dump (Figure 3-11), along with an old hoist drum and a second engine.

Adit #3 is caved. The discovery post is on the vein outcrop (Figure 3-12), and there are cross-trenches in the area (Figure 3-13).

Next to Adit #4 is an old wooden building. It is completely collapsed (Figure 3-14).
Figure 3-1. Topographic map of the Magdalena Mine, Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 3-2. Map of the Magdalena Mine, showing features logged during the site inspection.
Figure 3-3. Sketch map of the Magdalena Mine, showing the relationships between the features at the site.
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Neg. 9078)</td>
<td>18</td>
<td>looking NE</td>
<td>Overview of the site from road, showing the two buildings.</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>19</td>
<td>looking west</td>
<td>Building #1 – Collapsed all-metal shed with exposed insulation</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>20</td>
<td>close-up</td>
<td>Dump sample – white quartz vein with siderite and minor pyrite.</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>21</td>
<td>looking NW</td>
<td>Vein outcrop in trench</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>22</td>
<td>looking S40°E</td>
<td>Site overview from the hill above and to the north: Building #2, which houses the motorcycles is on the left</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>23</td>
<td></td>
<td>Interior. Building #2, left to right: ~50 old motorcycles, most with parts stripped off, old Chevrolet sedan and truck</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>24</td>
<td></td>
<td>Interior, Building #2, left to right; this photograph joins frame #23 along its right margin</td>
</tr>
<tr>
<td>1 (Neg. 9078)</td>
<td>25</td>
<td></td>
<td>Motorcycles and old, yellow, metal fuel(? ) tank on skids</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>1a</td>
<td>looking SW</td>
<td>Old U.S. Navy compressor on Dump #3 (Adit #2)</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>2a</td>
<td>looking east</td>
<td>Caved Adit #3 and trenches, from the Discovery Post</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>3a</td>
<td>looking NW</td>
<td>Outcrop of the vein in the trench by Adit #3</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>4a</td>
<td>looking north</td>
<td>Collapsed wooden building at Adit #4 (below the main saddle); there are oil containers in back in the shadows</td>
</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: __________________________
Locatable _____ / Leasable _____ / Salable _____
Operator (last known): __________________________
Commodities: Primary _____ / Secondary __________
Other Agency ID Number: _____ Agency: __________

B. LOCATION DATA
Site is in _____ or within a mile _____ of:
ACEC _____ / WSA _____ / Wilderness Area _____ / Riparian Area _____
Nominated for Designation to National Wild & Scenic River System _____

C. ACCESS
Distance in Miles to Closest Public:
Road _____ On _____
Potable Water _____
Campground/Picnic Area _____
Dwelling _____ School _____
Water Source _____ Trail _____
Other Public Use _____

D. SITE DESCRIPTION
Nearest named drainage: Colorado Gulch Distance: __

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action _____
CERCLIS Number _____ OR
Federal Docket Number __________

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species __________
Cultural Resources __________
Historic __________
Other __________

Date reclamation completed: __________ Cost: __________
Type of closure: __________ Comments: __________

Monitoring frequency: _______ Dates of monitoring visits: __________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)
1. INTERVIEWS

Name

Address

Phone

Affiliation

Comments:

Name

Address

Phone

Affiliation

Comments:

Name

Address

Phone

Affiliation

Comments:

(03/95)
Figure 3-4. Overview of the Magdalena Mine site from the road, showing the two buildings. The view is to the northeast (Roll Hailey 1 (9078), frame #18; photograph by Virginia S. Gillerman; September 9, 1997).

Figure 3-5. Collapsed metal building with exposed insulation at the Magdalena Mine. The yellow tank to the right of the building is probably a compressed air storage tank. The view is to the west (Roll Hailey 1 (9078), frame #19; photograph by Virginia S. Gillerman, September 9, 1997).
Figure 3-6. Overview of the Magdalena Mine site. Building #2 is on the left. Note the bulldozer near the center of the picture. The view is looking S. 40° E. (Roll Hailey 1 (9078), frame #22; photograph by Virginia S. Gillerman, September 9, 1997).

Figure 3-7. Interior of Building #2 at the Magdalena Mine, showing about 50 motorcycles, a Chevrolet sedan, and a pickup (behind the sedan) (Roll Hailey 1 (9078), frame #23; photograph by Virginia S. Gillerman, September 9, 1997).
Figure 3-8. Interior of Building #2 at the Magdalena Mine. The left margin of this photograph joins the right margin of Figure 3-7 (Roll Hailey 1 (9078), frame #24; photograph by Virginia S. Gillerman; September 9, 1997).

Figure 3-9. Interior of Building #2 at the Magdalena Mine, showing motorcycles, old sedan and pickup, and yellow fuel(?) tank on skids. This photograph is to the left of Figure 3-7 (Roll Hailey 1 (9078), frame #25; photograph by Virginia S. Gillerman; September 9, 1997).
Figure 3-10. Outcrop of the Magdalena vein in Trench #1. The view is to the northwest (Roll Hailey 1 (9078), frame #21; photograph by Virginia S. Gillerman; September 9, 1997).

Figure 3-11. Close-up of the Magdalena vein material, showing white quartz with siderite and pyrite (Roll Hailey 1 (9078), frame #20; photograph by Virginia S. Gillerman; September 9, 1997).
Figure 3-12. Old U.S. Navy compressor on Dump #3 at the Magdalena Mine. The view is to the southwest (Roll Hailey 2 (9073), frame #1a; photograph by Virginia S. Gillerman, September 9, 1997).

Figure 3-13. Outcrop of the vein in the trench near Adit #3 at the Magdalena Mine. The view is to the northwest (Roll Hailey 2 (9073), frame #3a, photograph by Virginia S. Gillerman, September 9, 1997).
Figure 3-14. Looking from the discovery post toward the trenches and caved Adit #3 at the Magdalena Mine. The view is to the east (Roll Hailey 2 (9073), frame #2a; photograph by Virginia S. Gillerman, September 9, 1997).

Figure 3-15. Collapsed building at Adit #4 of the Magdalena Mine. There are oil containers in the shadows behind the building. The view is to the north (Roll Hailey 2 (9073), frame #4a; photograph by Virginia S. Gillerman, September 9, 1997).
A. SITE IDENTIFICATION
ID Number: 1D005400004
Site/Mine Name: Magdalena Mine (Atlantis Mining Co., mill: HA 368M) Primary Commodity: Au

B. LOCATION DATA
USGS Quad: Bellevue, 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4817902 N 716387.9 E Zone 11 AND
Township: 2 N Range: 18 E Section: 28 Subdivision: NW¼ NW¼
Meridian: Boise 08 County: Blaine 013
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road __ easily visible / Trail ___ / Population center ___
Access by: 2wd ___ / 4wd X / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ______
Road Log: __ Grassy area just north of the main Colorado Gulch road
Recent human use: X. Describe: exploded building (1994); hunters camp; near recreation road

D. SITE DESCRIPTION
Acreage: ___ Elevation: ___
General slope (degrees): 0-10 ___ / 11-35 ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to X / NA ___ Near road and creek
Recent mineral activity ___ Describe: __________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ____ / Closed adits ____ / Open inclines ____ / Closed inclines ____
Open shafts ____ / Closed shafts ____ / Stopes ____
Other openings ____ Type __ Minor road cuts near waste dump
Trenches ____ Length __________ / Prospects ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length _______
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___ Dry reservoir with earth dam in gulch; PVC pipe in dam
Mills ___ Type __________ , _______
Explosives ____ Describe: __________
Equipment/Machinery X ___ / Headframes ____ / Trestles/tramways ____
Powerlines ___
Structures ____ Type __ Old hunters camp with trash and collapsed tables; demolished building
   Condition: Good ____ / Fair ____ / Poor ____ / Number Locked ____
Homesites ___
Other: Building exploded about 2 years ago; charred remains

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: Very healthy

ANIMALS
Evidence: ___ / Presence: ___ / Describe: ______________________________________________________________________

GEOLOGY
Staining of soils ___ Describe: __________________________________________________________________________________
Sulfide minerals ___ Type(s): ______________________________________________________________________________________
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: Adit #1 ___ pH 7.7 Conductivity 240 Flow (GPM) 1 Sketch # ___
Standing water in workings: ___ ____________ ____________ ____________ ____________
Water through/over tailings: ___ ____________ ____________ ____________ ____________ ____________
waste rock: ___ ____________ ____________ ____________ ____________ ____________
ore: ___ ____________ ____________ ____________ ____________ ____________ ____________

Adjacent water sources:
Ground water: Type ____________ pH ____________ Conductivity ____________ Flow (GPM) ____________ Distance ____________
Surface water: ____________ ____________ ____________ ____________ ____________ ____________ ____________
Surface H2O above site: ____________ ____________ ____________ ____________ ____________ ____________ ____________
Surface H2O below site: ____________ ____________ ____________ ____________ ____________ ____________ ____________

Evidence of aquatic life: X Location: ____________ Describe: abundant vegetation

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Brown ___ / Green ___ / Grey-Black X ___ / Other ____________

Samples collected: ___ Sketch #(s): ____________________________________________________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos ____
Petrochemical Products ____ / Dump sites X
Power Substations ____ / Transformers ____

Barrels, Tanks, Containers 2 Leaking: ____ Contents: Empty
Evidence of Underground Storage Tanks: ____ Describe: __________________________________________________________________

Other: Demolished by explosion

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ___ / Gullies ___ / Sheetwash ___
Unstable Rock ___ / Slope instability ___ / Wind erosion ___

MITIGATION STATUS
None ___ / Fencing ___ / Signs ___ / Safety hazards mitigated ___
Other: _______________________________________________________

Mitigation condition: Good ___ / Fair ___ / Poor ___
Site ID tags: _____ / Locations: _____________________________

OPTIONAL: Identify the critical reclamation measures needed:

____ Cable nets, grates
____ Permanent seal
____ Gates
____ Backfill openings, pit
____ Recontour
____ Fences
____ Warning signs
____ Plug open drill holes
____ Topsoil, soil amendments
____ Revegetation
____ Stabilize/destroy structures
____ Drainage control
____ Water treatment
____ Wildlife closure
____ No action
XX Trash / clean up
Seriously needed
____ Other: ___________________________________________________

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features
on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  _091009a.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 2 (Neg. 9073), frames 5a-9a

L. ACTION
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM _____
HAZMAT _____ / Other __________________________________________

Reason: May be under investigation by law enforcement officials

(03/95)
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Pond (Perimeter #1)</td>
<td>~50 feet</td>
<td>50 feet</td>
<td>5 feet</td>
<td>none</td>
</tr>
<tr>
<td>Mill Site (Perimeter #2)</td>
<td>~100 feet</td>
<td>50 feet</td>
<td></td>
<td>Clean up the site</td>
</tr>
<tr>
<td>Prospect</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste Dump #1</td>
<td>20 feet</td>
<td>25 feet</td>
<td>5 feet</td>
<td>none</td>
</tr>
<tr>
<td>Adit #1</td>
<td>~30 feet (partly open)</td>
<td>~2 feet</td>
<td>3 feet</td>
<td>opening is blocked</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

See next page.

---

INSPECTED BY: Virginia Gillerman
TITLE: Geologist
DATE: 9-10-97

INSPECTED BY: Gregg Beukelman
TITLE:                
DATE: 9-10-97

(03/95)
Field Notes:

Figures 4-1 and 4-2 show the locations of the features at the site.

The millsite is located on a flat bench uphill from and about 1,000 feet north of the road (Figure 4-23). Charred metal and wood from a building that exploded in 1994 are scattered around the site (Figure 4-4). Eight major pieces (>10 feet long) of machinery are still on site, including a ball mill, a conveyor, a fan, a sluice box, a fuel tank, 10-foot-long yellow hopper, a tube mill, and an old axle (Figures 4-5 and 4-6). There is lots of heat-deformed metal and trash on the site.

A small prospect and a dump are in the gulch about 200 feet above the millsite. There are a few piles of barren-looking rock near millsite, but nothing that looks like the Magdalena or Snoose ore. [Atlantis Mining Company had a pilot mill at this site in the mid-1980s. The ore was reported to be gold-bearing chalcopyrite, similar to that at the Lost Packer Mine. How much, if any, ore was processed by this mill is not known; from the above description, it appears likely that the company discontinued operations before the mill became operational. – VEM]

Adit #1 is on the south side of the road (Figure 4-7).

The dry reservoir in the gulch below the millsite may be for cattle. It appears to be more recent than the mining activity. There is PVC pipe in the earth dam.
Figure 4-1. Topographic map of the Magdalena Mine (Atlantis Mining Co. millsite), Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 4.2. Map of the Magdalena Mine (Atlantis Mining Co. millsite), showing features logged during the site inspection.
Fill out the following for each photo:

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<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<tr>
<td>2 (Neg. 9073)</td>
<td>5a</td>
<td>looking south</td>
<td>Grinder and sluice box</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>6a</td>
<td>looking north</td>
<td>Explosion site and the charred remains of the building</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>7a</td>
<td>looking east</td>
<td>Tank, hopper (?), and other debris at the millsite</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>8a</td>
<td>looking east</td>
<td>Millsite from uphill</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>9a</td>
<td>looking south</td>
<td>Adit #1 – partly open adit on the south side of the creek</td>
</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: ____________________________
Locatable _____ / Leasable _____ / Salable _____
Operator (last known): ___________________________
Commodities: Primary ___ / Secondary ______________
Other Agency ID Number: __ Agency: ______________

B. LOCATION DATA
Site is in _____ or within a mile _____ of:
    ACEC _____ / WSA _____ / Wilderness Area _____ / Riparian Area _____
    Nominated for Designation to National Wild & Scenic River System _____

C. ACCESS
Distance in Miles to Closest Public:
    Road _______  Dwelling _____  School _____
    Potable Water _______  Water Source _____  Trail _____
    Campground/Picnic Area _____  Other Public Use _____

D. SITE DESCRIPTION
Nearest named drainage: _____  Distance: _____

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action  X ?
CERCLIS Number __ OR
Federal Docket Number

H. RECLAMATION: Closure Information
Clearances:
    Threatened & Endangered Species _______________________________
    Cultural Resources _______________________________
    Historic _______________________________
    Other _______________________________

Date reclamation completed: _______________________________
Type of closure: _______________________________  Cost: _______________________________
Comments: ___________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
Monitoring frequency: _____  Dates of monitoring visits: _______________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

(NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
I. INTERVIEWS

Name: Johnny Garth
Address: BLM Shoshone

Phone
Affiliation

Comments: For history of the site of the explosion.

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

(03/95)
Figure 4-3. Charred remains of the Magdalena (Atlantis Mining Co.) mill. The view is to the north (Roll Hailey 2 (9073), frame #6a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 4-4. Overview of the Magdalena (Atlantis Mining Co.) millsite. The view is to the east (Roll Hailey 2 (9073), frame #8a; photograph by Virginia S. Gillerman; September 10, 1997).
Figure 4-5. Grinder and sluice box equipment at the Magdalena millsite. The view is to the south (Roll Hailey 2 (9073), frame #5a, photograph by Virginia S. Gillerman, September 10, 1997).

Figure 4-6. Tank, hopper, and other equipment at the Magdalena millsite. The view is to the east (Roll Hailey 2 (9073), frame #7a, photograph by Virginia S. Gillerman, September 10, 1997).
Figure 4-7. Adit #1 near the Magdalena millsite. This partly open adit is on the south side of the creek. The view is to the south (Roll Hailey 2 (9073), frame #9a; photograph by Virginia S. Gillerman; September 10, 1997).
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
ID Number: 1D - 00 0 5 4 - 0 0 0 0 5
Site/Mine Name: Unnamed prospect Primary Commodity: ____________________________

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4817480_N 716887_E Zone 11 AND
Township: 2 N Range: 18 E Section: 28 Subdivision: NE 1/4 NW 1/4
Meridian: Boise County: Blaine 013
Surface: BLM X / Non-BLM ____ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ easily visible ___ Trail ___ / Population center ___
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Open adit near the Colorado/Star Gulch saddle, facing Colorado Gulch

Recent human use: ___ X ___ Describe: Recreational road

D. SITE DESCRIPTION
Acreage: ___ Elevation: ___
General slope (degrees): 0-10 ___ / 11-35 ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___
Recent mineral activity ___ Describe: Adit and wooden stakes are in good shape, suggesting activity in the last 10-20 years(?)

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / Closed adits ___ / Open inclines ___ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stope ___
Other openings ___ Type ___
Trenches ___ Length ~50 feet ___ / Prospects ___ Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___
Mills ___ Type ___, ___, ___

Explosives ___ Describe: ____________________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways ___
Powerlines ___
Structures ___ Type ___ Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___
Homesites ___
Other: ___ clean site ___

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: ______________________________

ANIMALS
Evidence: ___ / Presence: ___ / Describe: lots of grasshoppers

GEOLOGY
Banded limestone and argillite
Staining of soils local Describe: ______________________________
Sulfide minerals leached Type(s): Pyrite leached to gossan pods with cubic casts
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: ___ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: ___ ___ ___ ___ ___
Water through/over tailings: ___ ___ ___ ___ ___
    waste rock: ___ ___ ___ ___ ___
    ore: ___ ___ ___ ___ ___
Adjacent water sources: Type pH Conductivity Flow (GPM) Distance
Ground water: _____________________ ___ ___ ___ ___
Surface water: _____________________ ___ ___ ___ ___
Surface H2O above site: _____________ ___ ___ ___ ___
Surface H2O below site: _____________ ___ ___ ___ ___
Evidence of aquatic life: ___ Location: __________ Describe: ______________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
    Brown ___ / Green ___ / Grey-Black ___ / Other ______________________________

Samples collected: ___ Sketch #(s): ______________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ___ / Acid or Chemical odor ___ / Asbestos ___
Petrochemical Products ___ / Dump sites ___
Power Substations ___ / Transformers ___

Barrels, Tanks, Containers ___ Leaking: ___ Contents: _________________________
Evidence of Underground Storage Tanks: ___ Describe: _________________________

Other: ________________________________

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills / Gullies / Sheetwash
Unstable Rock / Slope instability / Wind erosion

MITIGATION STATUS
None / Fencing / Signs / Safety hazards mitigated
Other:

Mitigation condition: Good / Fair / Poor
Site ID tags: / Locations:

OPTIONAL: Identify the critical reclamation measures needed:

- [X] Cable nets, grates
- [ ] Permanent seal
- [X] Gates
- [ ] Backfill openings, pit
- [ ] Recontour
- [ ] Fences
- [ ] Warning signs
- [ ] Plug open drill holes
- [ ] Topsoil, soil amendments
- [ ] Revegetation
- [ ] Stabilize/destroy structures
- [ ] Drainage control
- [ ] Water treatment
- [ ] Wildlife closure
- [ ] No action
- [ ] Trash / clean up

Other: Locked grate or gate would be good

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA R091011a.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 2 (Neg. 9073), frames 10a-11a

L. ACTION
Site requires immediate investigation by: Law Enforcement / BLM / HAZMAT / Other

Reason:

(03/95)
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<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
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</thead>
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<tr>
<td>Road #1 (from saddle to adit)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #1</td>
<td>~100 feet of workings (or more) open</td>
<td>6 feet</td>
<td>8 feet</td>
<td>Gate or grate needed</td>
</tr>
<tr>
<td>Waste Dump #1</td>
<td>80 feet</td>
<td>30 feet</td>
<td>5 feet</td>
<td>none</td>
</tr>
<tr>
<td>Point #1</td>
<td></td>
<td></td>
<td></td>
<td>Brass cap</td>
</tr>
<tr>
<td>Survey Marker</td>
<td>BLM T. 2 N., R. 18 E., Sec 28</td>
<td>2J MS5 1981</td>
<td>Cadastral Survey Marker</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

This gaping opening (Figure 5-3) is easily visible from the main road into Colorado Gulch from Croy Creek. The adit is high on the ridge facing Colorado Gulch. The adit is in competent rock, banded limestone and argillite cut by several flat faults and a diabase sill. There is lots of hydrothermally recrystallized limestone in the area. The adit shows good clean walls and would be good mapping exercise for students. There are beer cans and a fire ring on the dump, as well as a few old timbers (Figure 5-4).
Figure 5-1. Topographic map of the unnamed prospect in the Colorado/Star Gulch saddle, Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 5-2. Map of the unnamed prospect near the Colorado/Star Gulch saddle, showing features logged during the site visit.
Fill out the following for each photo:

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<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<tr>
<td>2 (Neg. 9073)</td>
<td>10</td>
<td>looking east</td>
<td>Open Adit with metal frame portal</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>11</td>
<td>looking SE</td>
<td>Open adit and dump</td>
</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable ___ / Leasable ___ / Salable ___
Operator (last known): ________________________________
Commodities: Primary ___ / Secondary ____________________
Other Agency ID Number: ___ Agency: ______________________

B. LOCATION DATA
Site is in ____ or within a mile ____ of:
ACEC ___ / WSA ___ / Wilderness Area ___ / Riparian Area ___
Nominated for Designation to National Wild & Scenic River System ___

C. ACCESS
Distance in Miles to Closest Public:
Road _____ Dwelling _____ School _____
Potable Water _____ Water Source _____ Trail _____
Campground/Picnic Area _____ Other Public Use _____

D. SITE DESCRIPTION
Nearest named drainage: ____ Distance: ___

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action ___
CERCLIS Number ___ OR
Federal Docket Number ______________________

H. RECLAMATION: Closure Information
Clearances:
Threatened & Endangered Species _______________________
Cultural Resources ________________________________
Historic ________
Other ________________________

Date reclamation completed: _____________________________
Type of closure: ________________________ Cost: ____________
Comments: __________________________________________

Monitoring frequency: _____ Dates of monitoring visits: ______________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)
## Interviews

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<th>Affiliation</th>
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| Comments:             |
|-----------------------|-------------------------------------------------------------------------|
|                       |                                                                         |

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</table>

| Comments:             |
|-----------------------|-------------------------------------------------------------------------|
|                       |                                                                         |

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<table>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

| Comments:             |
|-----------------------|-------------------------------------------------------------------------|
|                       |                                                                         |
Figure 5-3. Open adit (unnamed) in upper Colorado Gulch. The view is to the east (Roll Hailey 2 (9073), frame #10a; photograph by Virginia S. Gillerman, September 10, 1997).

Figure 5-4. Dump associated with the unnamed adit in upper Colorado Gulch. The mine opening is behind the geologist. The view is to the southeast (Roll Hailey 2 (9073), frame #11a; photograph by Virginia S. Gillerman, September 10, 1997).
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy lots of it / Stressed ____ / Dead ____ / Nonexistent ____
Evidence of natural revegetation: ____ / Describe: ____________________________________________

ANIMALS
Evidence: __ / Presence: ___ / Describe: deer scat _________________________________________

GEOLOGY
Staining of soils minimal Describe: iron oxides ______________________________________
Sulfide minerals few Type(s): pyrite, galena; massive siderite on dumps _____________
Tailings: Confined ____ / Unconfined ____ / Unknown ____

HYDROLOGY
Water flowing from workings: Adit #8 7.4 310 10-15+ T = cool
Standing water in workings: _______ _______ _______ _______ _______ _______
Water through/over tailings: waste rock: X minor _______ _______ _______ _______
ore: _____ _______ _______ _______ _______ _______
Adjacent water sources: Type pH Conductivity Flow (GPM) Distance
Ground water: _______ _______ _______ _______ _______ _______ _______
Surface water: looks great Lower Star Gulch below Adit #8
Surface H2O above site: _______ _______ _______ _______ _______ _______
Surface H2O below site: _______ _______ _______ _______ _______ _______
Evidence of aquatic life: X Location: bottom Describe: no discolored mud; abundant vegetation on bottom at stream; water skippers

Water bed color: White ____ / Yellow ____ / Yellow-Orange ____ / Orange ____
Brown ____ / Green X / Grey-Black X / Other no sign of precipitate (Adit #8)

Samples collected: ____ Sketch #(#): ____________________________________________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos ____
Petrochemical Products ____ / Dump sites ____
Power Substations ____ / Transformers ____

Barrels, Tanks, Containers ____ Leaking: ____ Contents: ________________________________
Evidence of Underground Storage Tanks: ____ Describe: __________________________________

________________________________________________________________________

Other: _______________________________________________________________________

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ___ / Gullies ___ / Sheetwash ___
Unstable Rock ___ / Slope instability ___ / Wind erosion ___

MITIGATION STATUS
None ___ / Fencing ___ / Signs ___ / Safety hazards mitigated ___
Other: _____________________________

Mitigation condition: Good ___ / Fair ___ / Poor ___
Site ID tags: _____ / Locations: _____________________________

OPTIONAL: Identify the critical reclamation measures needed:

___ Cable nets, grates  ___ Topsoil, soil amendments
___ Permanent seal  ___ Revegetation
___ Gates  ___ Stabilize/destroy structures
___ Backfill openings, pit  ___ Drainage control
___ Recontour  ___ Water treatment
1 Fences (around shaft 1)  ___ Wildlife closure
___ Warning signs  ___ No action
___ Plug open drill holes  ___ Trash / clean up
___ Other: _____________________________


I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  HA372.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 2 (Neg. 9073), frames 12a-21a (10 photos)

L. ACTION
Site requires immediate investigation ___ by: Law Enforcement ___ / BLM ___
HAZMAT ___ / Other _____________________________

Reason: Fence around Shaft #1

________________________________________
________________________________________
________________________________________

(03/95)
**M. FEATURES - PROVIDE DIMENSIONS IN FEET.**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit #1</td>
<td>caved</td>
<td></td>
<td>10 foot highwall in cut</td>
<td></td>
</tr>
<tr>
<td>Dump #1 (Perimeter #1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft #1 (Perimeter #2)</td>
<td>~40-50 feet in diameter</td>
<td></td>
<td>40-foot cone</td>
<td>Push dump into shaft; redo fence</td>
</tr>
<tr>
<td>Dump #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump #3</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Adit #3 (~300 feet above Adit #2) – no GPS</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Dump #4 (for Adit #3; 80 feet downslope)</td>
<td>40 feet</td>
<td>10 feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prospect Pits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump #6A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump #5A</td>
<td>50 feet</td>
<td>40 feet</td>
<td>2 feet</td>
<td></td>
</tr>
<tr>
<td>Shaft #2</td>
<td></td>
<td></td>
<td></td>
<td>collapsed</td>
</tr>
<tr>
<td>Dump #5B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump #6B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #8</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Trestle and ore dump (Point 9)</td>
<td>50 feet</td>
<td></td>
<td>8 feet</td>
<td>historic structure; in good shape</td>
</tr>
<tr>
<td>Upper dump (west of saddle)</td>
<td></td>
<td></td>
<td></td>
<td>medium size</td>
</tr>
</tbody>
</table>

**Field Notes:**

See next page.

**INSPECTED BY:** Virginia Gillerman (IGS)    **TITLE:** Geologist    **DATE:** 9-10-97

**INSPECTED BY:** Gregg Beukelman         **TITLE:**    **DATE:** 9-10-97

(03/95)
Field Notes:

The country rock is diorite with limestone in the upper part of Star Gulch. Argillite is in lower Star Gulch. The lower dumps have massive siderite near the contact. The deposit is a quartz-siderite vein.

The large dumps are composed of weathered diorite with some limestone and argillite (Figures 6-3 and 6-4). Adit #1 is caved and has trench-like cut at the portal (Figure 6-5) which is not really dangerous.

The Star Shaft (Shaft #1) is caved and has a huge, dangerous cone-shaped depression which is near the road (Figures 6-6 and 6-7). The barbed wire fence that was around the shaft is down. It should be replaced. Also, it might be advisable to push the dump into the shaft area.

The other adits are old and caved (Figure 6-8), and the dumps are clean of trash.

Adit #8 is on the north side of the drainage in lower Star Gulch. The adit is caved, but there is water coming out of it (Figure 6-9). Healthy watercress is growing near the adit. One blasting cap was found near the tunnel entrance, which is also near the ore pile and loading dock (Figure 6-10). The railroad trestle for the loading dock and a waste rock pile are below Adit #8 in Star Gulch.

Several prospects with trenches are in Star Gulch or west of the saddle at the head of Star Gulch (Figure 6-11). There is a medium-sized dump in the trees west of the saddle between Colorado and Star gulches (Figure 6-12). It is not visible from Star Gulch.

The only action needed at this site is to fence off Shaft #1 and mark it with a warning sign. There are lots of dumps and caved adits, but no serious hazards or environmental problems. Access to lower Star Gulch is difficult due to the bad road and because of the private property in the area.
Figure 6-1. Topographic map of the Star Mine, Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 6-2. Map of the Star Mine, showing features logged during the site inspection.
Fill out the following for each photo:

<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<td>looking south</td>
<td>Overview of dumps</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>13a</td>
<td>looking south</td>
<td>Shaft site from a distance</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>14a</td>
<td></td>
<td>Adit #1</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>15a</td>
<td>looking east</td>
<td>Shaft #1 – close-up view, looking down</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>16a</td>
<td>looking east</td>
<td>Looking downhill at the Adit #3 dump, with Star Gulch in the background</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>17a</td>
<td>looking west</td>
<td>Trench west of the saddle between Colorado and Star gulches</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>18a</td>
<td>looking west</td>
<td>Prospect in Star Gulch – small caved shaft(?) with siderite on the lower dump</td>
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<tr>
<td>2 (Neg. 9073)</td>
<td>19a</td>
<td>looking SE</td>
<td>Dump #6 and Adit #7 in the bottom of Star Gulch</td>
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<tr>
<td>2 (Neg. 9073)</td>
<td>20a</td>
<td>looking north</td>
<td>Adit #8, with water coming from the adit</td>
</tr>
<tr>
<td>2 (Neg. 9073)</td>
<td>21a</td>
<td>looking NE</td>
<td>Railroad trestle and loading area below Adit #8</td>
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(03/95)
BLM AML INVENTORY
ID Number: ID-0054-000006
SUPPLEMENTAL OFFICE DATA SHEET

A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable _____ / Leasable _____ / Salable _____
Operator (last known): ________________________________
Commodities: Primary _____ / Secondary ______________________
Other Agency ID Number: __ Agency: _______________________

B. LOCATION DATA
Site is in _____ or within a mile _____ of:
   ACEC _____ / WSA _____ / Wilderness Area _____ / Riparian Area _____
   Nominated for Designation to National Wild & Scenic River System _____

C. ACCESS
Distance in Miles to Closest Public:
   Road _____    Dwelling _____    School _____
   Potable Water _____    Water Source _____    Trail _____
   Campground/Picnic Area _____    Other Public Use _____

D. SITE DESCRIPTION
   Nearest named drainage: __ Distance: __

G. POTENTIAL HAZARDOUS MATERIALS
   Site is under regulatory action _____
   CERCLIS Number __ OR
   Federal Docket Number

H. RECLAMATION: Closure Information
   Clearances: Threatened & Endangered Species _______________________
                Cultural Resources _______________________
                Historic _______________________
                Other _______________________
   Date reclamation completed: ____________________________ Cost: ____________
   Type of closure: ____________________________ Comments: ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________
   Monitoring frequency: _______ Dates of monitoring visits: ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________
   ____________________________ ____________________________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)
I. INTERVIEWS

Name
Address
Phone
Affiliation
Comments:

Name
Address
Phone
Affiliation
Comments:

Name
Address
Phone
Affiliation
Comments:
Figure 6-3. Overview of the dumps in Star Gulch. The largest dump, in the center of the photograph, marks the location of the Star Shaft. The view is to the south (Roll Hailey 2 (9073), frame #12a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 6-4. Looking downhill from Adit #3 at the dumps in Star Gulch. The view is to the east (Roll Hailey 2 (9073), frame #16a; photograph by Virginia S. Gillerman; September 10, 1997).
Figure 6-5. Adit #1 at the Star Mine. The view is to the southwest (?) (Roll Hailey 2 (9073), frame #14a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 6-6. Overview of Shaft #1 and Dump #2 at the Star Mine. The view is to the south (Roll Hailey 2 (9073), frame #13a, photograph by Virginia S. Gillerman, September 10, 1997).
Figure 6-7. Looking down into Shaft #1 at the Star Mine. The view is to the east and downward (Roll Hailey 2 (9073), frame #15a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 6-8. Adit #7 and Dump #6 at the bottom of Star Gulch at the Star Mine. The view is to the southeast (Roll Hailey 2 (9073), frame #19a; photograph by Virginia S. Gillerman; September 10, 1997).
Figure 6-9. Caved Adit #8, with water coming from it. The view is to the north (Roll Hailey 2 (9073), frame #20a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 6-10. Railroad trestle and ore loading area below Adit #8 at the Star Mine. The view is to the northeast (Roll Hailey 2 (9073), frame #21a, photograph by Virginia S. Gillerman; September 10, 1997).
Figure 6-11. Prospect in Star Gulch. There is a small, caved shaft at this site. The view is to the west (Roll Hailey 2 (9073), frame #18a; photograph by Virginia S. Gillerman; September 10, 1997).

Figure 6-12. Trench west of the saddle between Star and Colorado Gulches. The view is to the west (Roll Hailey 2 (9073), frame #17a; photograph by Virginia S. Gillerman; September 10, 1997).
APPENDIX A:

GPS FILES FOR THE MINES IN COLORADO AND STAR GULCHES
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<tr>
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<th>File Name for Corrected Data</th>
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