Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Bureau of Land Management Property in the Challis Area: Challis Area Group, Custer County, Idaho

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Staff Reports present timely information for public distribution. This publication may not conform to the agency’s standards.

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Staff Report 06-3
July 2006

Field inspection conducted by Virginia S. Gillerman and Forrest S. Griggs
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GEOLOGY

The five mine sites in the Challis area (Figure 1), as discussed in this report, encompass a relatively large area within the Bayhorse Mining District. For this report, the southern most area lies to the north of the Salmon River and no further west than the western edge of the Kinnikinic Creek drainage. Bayhorse Creek bounds the area on the north, and the Salmon River on the east. The Carrothers/Hines prospect is located on the Clayton 7 ½ minute topographic quadrangle in Section 12. The Barton Mine is located on the Bayhorse 7 ½ minute topographic quadrangle in Section 3. The Turtle Mine is located on the Bald Mountain 7 ½ minute quadrangle in Section 14. The two unnamed prospects, designated R 071515a and R 071521a, are located as follows. R 071615a is on the Bayhorse 7 ½ minute quadrangle in Section 2, and R 071521a is on the Bald Mountain 7 ½ minute quadrangle in Section 27. Field examinations were done in 1999.

Regionally, the Bayhorse area is underlain by Paleozoic sediments, which are folded and faulted, overlain by Challis Volcanics of Eocene age, and intruded by sparse Cretaceous plutons and Tertiary bodies. The Cambro-Ordovician Bayhorse Dolomite is overlain by Ramshorn Slate and an Ordovician clastic and carbonate rocks, including Kinnikinnic Quartzite.

The geology for each of the sites differs some. The Bayhorse district was mapped by C.P. Ross and T.H. Hite, Jr. and the geologic maps published as Plate 1 in Ross (1937, U.S.G.S. Bulletin 877). Fisher (1983) provides a more recent description of the mineral deposits and USGS Map I-1819 is a color geologic map for the Challis 1° by 2° Quadrangle. According to Fisher, silver, lead, zinc, and to lesser degrees gold and copper were syngenetically deposited in quartzites, limestones, dolomite, shale and argillite in the Paleozoic. Vein and replacement deposits, of which the Skylark vein is specifically documented, were formed during the Cretaceous. A variety of both metal and non-metal ores throughout the region were also formed in the Tertiary.

The Carrothers/Hines prospect is not listed in the literature. As such, the geology is inferred from the map location of the Clayton and Compass Mines which are listed and nearby. The Carrothers prospect lies between the Clayton and Compass Mines on the west side and adjacent to Kinnikinic Creek, approximately 1.5 miles north of the Clayton Mine. Ross notes that galena is found in north-trending, nearly vertical fissures within the Kinnikinic Quartzite at the Compass Mine. Below the fissure, the mineralized area extends into limestone. The deepest workings, which cut the near horizontal Ramshorn Shale, have galena in a siderite gangue. In the Clayton Mine, the ore zone is mostly in a shaley dolomite within one of the dolomitic members of the Kinnikinic Quartzite. The steeply dipping beds host galena in fractured and brecciated zones that roughly parallel the bedding. The galena spreads out irregularly from these zones into a dolomite country rock. Samples observed from the waste dump and ore bin at the Carrothers Hines Mine suggest this was the case at this site.

The Barton Mine is hosted by the Cambrian age Garden Creek Phyllite. The ore was in vein-like structures as a replacement deposit, with the veins constrained by both bedding and breccia zones. Gangue minerals, which are also replacements in the phyllite, include massive white quartz and coarse crystalline siderite. Pyrite is also common, both in the gangue minerals
Figure 1: Location map of the Challis Area mine sites, Custer County, Idaho.
within the vein and as a replacement in the host phyllite.

The Turtle Mine had its last production in 1925. The total production included 67 tons of ore, 3,560 ounces of silver, 1,421 pounds of copper, 58,294 tons of lead. There is no indication in the literature by Ross of the mine’s discovery or production prior to 1919. It is located within a small window of the Bayhorse Dolomite that projects into the overlying Ramshorn Slate, with bedding that dips 45° to the west. The literature also states that overturned beds are indicated. Galena, tetrahedrite, and chalcopyrite in a quartz gangue occur as irregular lenses in the silicified dolomite, following joints and fissures that are not conformable to the bedding. Outcrops to the south of the main workings show quartz fracture fill with minor copper carbonate staining.

The first of the unnamed sites, R 071521, is not listed in the literature. As such, the geology is inferred from Plate 1 (Ross, 1937, U.S.G.S. Bulletin 877) and observations taken at the site. Bayhorse dolomite is possibly the host rock. The literature lists both the Turtle mine to the north, and the Mammoth Mine to the south as having ore hosted in Bayhorse dolomite. There was some minor Fe staining observed on the waste dump.

The second unnamed site, R 071615a, also is not listed in the literature. According to Plate 1 (Ross, 1937), it is located near the contact of the Ramshorn Slate and an overlying tuffaceous unit of the Challis Volcanics. No volcanic rock was observed in the waste dumps. Some minor Fe staining was observed in the waste rock slate.

HAZARD ASSESSMENT

SUMMARY

Mine hazards for the Challis area are summarized in Table 1. While the majority of sites in this report present few hazards, two of the mines deserve mention. The Barton Mine, site ID-0458-00005, presents the most potential hazards. There are two open adits within a short walk from the Bayhorse Lake Road. Adit 2, at the edge of a turn out area off the Bayhorse Lake Road, appears to be a decline, and could be quite hazardous if entered. Adit 12, a short walk from the same turn out, is also open, with the portal area caved. The tunnel can still be accessed by climbing down into the caved portion behind the portal area. The adjacent waste dump/ore stock pile on the south side of the Bayhorse Lake Road presents a potential hazard also. There is a log retaining wall supporting the bottom of the pile that makes up the southern boundary of the Bayhorse Lake Road for several ten’s of feet. Several of the timbers have broken under the pressure, and are in immediate danger of impinging on the road. Several large recreational vehicles (RV’s) were observed taking this road to the Bayhorse Lake area while the site was being surveyed. Should any more of these timbers break, the waste dump/stock pile could become unstable, and rock and timbers would fall onto the road.

The unnamed site R 071615a, site ID-0458-00003, is about one mile east of the Bayhorse town site, close to the Bayhorse Lake Road. The adits are all in the base of a cliff face that has a northerly trend. The waste dump from the lower most adit is very visible from the road, but falling rock in the portal area has partially obscured the adit. A small jeep trail going north off the Bayhorse Lake Road leads to the lowermost adit. This collapsed rock has left a small
opening which made it impossible to estimate the depth. An undetermined four legged animal carcass was seen just inside the portal. There are three other openings that trend north following the cliff face at this site. One adit was approximately 40 feet deep, the other two were merely shallow excavations that were at most 10 feet deep.

The Carothers/Hines prospect, site ID-0458-00001, is difficult to see from the access road and is fairly remote. The access road crosses a small stream that has partially washed out the road. It had one adit, Adit 1, that could still be entered approximately 10 feet. The ore bin is still full of ore, and could pose a falling hazard should the structure deteriorate.

The Turtle Mine, site ID-0458-00002, was the only site with a potential water quality issue. Several hundred feet to the northeast of the nearest workings was a spring that coursed over the access road. Moss and water plants of unknown variety were observed in the water channel, no pH or conductivity tests were performed. Vigorous shrubs and trees adjacent to the water channel indicated that the area was likely to be fine.

The other unnamed site, R 071521a, site ID-0458-00004, presented no hazard. The topographic map indicated a shaft at the site, but there was only what could be remnants of a caved adit. Any indication of a shaft was very difficult, if not impossible, to locate with any accuracy. There was a collapsed building on the waste dump. This site is very remote and difficult to access.
Table 1. Summary of sites in the Challis area, Custer County, Idaho. Site name in bold indicates property has one or more significant potential environmental or physical hazards. Under “Environmental Hazards”: T = a mill tailings problem, D = dump material in or near waterway, WQ = potentially poor water quality. Under “Physical Hazards”, features are: A = adit, P = prospect pit, S = shaft, St = stope; where O = open, C = caved, and ? = unknown condition or number.

<table>
<thead>
<tr>
<th>BLM Site Number (GPS Data File)</th>
<th>IGS Property Number</th>
<th>Mine Name</th>
<th>Environmental Hazard</th>
<th>Physical Hazard</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-0458-00005 (CH-392)</td>
<td>CH-392</td>
<td><strong>Barton Mine</strong></td>
<td>4AO</td>
<td>6AC</td>
<td>Adit 2 open, close to road. Unstable dump next to major road.</td>
</tr>
<tr>
<td>ID-0458-00001 (CH-1099)</td>
<td>CH-1099</td>
<td>Carrothers/ Hines Prospect</td>
<td></td>
<td>3AC</td>
<td></td>
</tr>
<tr>
<td>ID-0458-00002 (CH-396)</td>
<td>CH-396</td>
<td>Turtle Mine</td>
<td>2AO</td>
<td>5AC</td>
<td></td>
</tr>
<tr>
<td>ID-0458-00003 (Rover file R 071615a)</td>
<td>CH-388</td>
<td>Unknown</td>
<td>2AO</td>
<td>2PO</td>
<td>Very short adits.</td>
</tr>
<tr>
<td>ID-0458-00004</td>
<td>CH-1191</td>
<td>Unknown</td>
<td></td>
<td>1AC 1SC (?)</td>
<td></td>
</tr>
</tbody>
</table>
SITE ID-0458-00001: CARROTHERS/HINES PROSPECT (CH-1099)

This site is located in the northwest corner of section 12, T11N, R17E. It is accessed from Clayton by going north from highway 93 on the Kinnikinic Creek Road approximately 2.5 miles. It is about 1.5 miles north of the Clayton Mine. A search of available literature provided no information about the mine or its production. The site is on the east facing slope of the Kinnikinic Creek drainage. A vigorous stand of conifer trees makes it difficult to see from the access road. Some of the waste dumps can be glimpsed between the trees. The site itself is in an advanced state of deterioration. The building located near Adit 3 is nearly collapsed. The ore bin is in the best repair, but no attempt to test the stability of the structure was attempted.

The vegetation in and around the site was vigorous and healthy. The only exception was Pit 1, which is still almost devoid of plants. This site is fairly remote and has no open workings. No action needed.

SITE ID-0458-00002: TURTLE MINE (CH-396)

The Turtle Mine is located in the southwest corner of Section 14, T12N, R18E. From Challis, access is by taking Highway 93 South approximately 10 miles to the Bayhorse Lake Road. The mine site can be clearly seen from highway 93. Turning west, take the Bayhorse Lake Road until it crosses the Salmon River, less than 1/4 mile. Immediately after crossing the bridge, turn left and go through the locked gate. The key to the gate can be obtained from the Challis BLM office, or a rancher who resides about ½ mile south on highway 93, on the east side of the highway. Follow this trail south for approximately 1 mile, where the trail forks. The right fork goes to the Turtle Mine, the left fork continues south along the Salmon River. The Turtle Mine is about two miles west of the fork.

The access road, several hundred feet north of the mine site, has a small spring that crosses over the trail. Mosses and water plants were actively growing within the waters. There are two buildings on the site, both in fair condition.

The workings, Adits 1 through 6, trend linearly north-south. Adit 7 is the only exception to this north-south trend. It lies more easterly from the other adits. Adits 1 and 6 were both open to some extent, the depth of both could not be determined accurately. There is an ore loading dock, located to the south of Pit 2 that is in poor, semi-collapsed condition. Near the dolomite gulch shown in the sketch map, outcropping stringers of quartz with copper carbonate stain were found in the dolomite. Due to both the locked access gate and the difficult access road, this site is a low priority.
SITE ID-0458-00003: UNNAMED PROSPECT (FILE R 071615a)

The first of the unnamed sites is located in the southeast corner of Section 2, T12N, R18E. It is adjacent to and on the north side of the Bayhorse Lake Road approximately one mile east of the town of Bayhorse. The lower most adit (Adit 1) is accessed by way of a 4WD jeep trail about ¼ mile in length. Vehicle tracks on the jeep trail indicated that there had been people near the portal fairly recently. Bayhorse Lake Road can be easily seen from Adit 1, but the collapsed rock around the portal obscures the view of the adit from the road. A deteriorated carcass of an undetermined animal of the four legged variety was seen just inside the portal. There was an old claim post near Adit 1. The other workings follow an almost northerly trend along a fault which marks the edge of the cliff. None of the workings had produced waste dumps of very large size. Due to the proximity to a well traveled road, Adit 1 presents the only hazard, and should be assessed for portal closure.

SITE ID-0458-00004: UNNAMED PROSPECT: (FILE R 071521a)

The second of the unnamed sites is located in Section 27, T12N, R18E. It is difficult to access the area for several reasons. First, it must be accessed through the same locked gate as the Turtle Mine previously listed. Where the fork in the trail occurs, the south trending leg of the fork is taken instead of turning right. This 4WD trail continues south about one mile, then turns west. There is a small inhabited cabin about half way up the mountain. Near this cabin, the trail splits, with one fork going north, the other going south. This site is accessed by taking the south leg. Less than ½ mile form the split, the road is nearly impassable even by 4WD vehicles, requiring a hike of several hundred yards to the site, which is on a very steep slope.

There are the remnants of a collapsed building on the waste dump, and timbers sticking out of the hill where an adit possibly was located. The topographic map indicated the presence of a shaft, but no clear indication of its presence could be seen. No action is required.

SITE ID-0458-00005: BARTON MINE (CH-392)

The Barton Mine is located in Section 3, T12N, R18E. Access is from the Bayhorse Lake Road. The mine is approximately ½ mile east of the town of Bayhorse on the south side of the road. A line of workings trend southeast, going diagonally up the hill. It is unclear from the literature exactly which claim these workings are in. The possibility exists that these workings are on as many as three separate claims, including Hoosier, Little Hoosier, Cemetery and Guy C. Barton claims.

This site presents several problems, compounded by easy access to the site. The first is an open adit, Adit 2, which is very close to the access road on the edge of a turn out area. Cursory observation shows a possible decline behind the partially collapsed portal.
Dump 1 is very large, with an adjacent ore bin, both of which are close to the main road. Both present the possibility of environmental and physical hazards. Bayhorse Creek is in close proximity, being just downhill and across the Bayhorse Lake Road to the north. The dump is held at the bottom by a log retaining wall, which abuts the road. Some of the timbers are showing signs of breaking, and are in fact starting to impinge on the road. This could be a serious hazard for the many vehicles which use this road. Several large recreational vehicles (RV’s) were observed while the survey was being performed. Secondly, the smell of sulphur was prevalent while walking across it. Should the retaining wall fail, there would be little between the dump and Bayhorse Creek, allowing a large quantity of sulfide-rich rock to be deposited in the creek channel.

Adit 12 is also open. The portal has collapsed, but the tunnel is still accessible through a coned area behind the portal. The tunnel appears to be timbered. This adit is not visible from the road. The two open adits require assessing for closure. At the least, the large dump/ore bin needs to be monitored for further evidence of collapse, or assessed for possible removal.
REFERENCES


SITE INSPECTION REPORTS FOR THE CHALLIS AREA
A. SITE IDENTIFICATION
ID Number: 1 D 0 4 5 8 0 0 0 1
Site/Mine Name: Carrothers/Hines Prospect Primary Commodity: (?) Pb, Zn (341)
IGS Number: CH1099

B. LOCATION DATA
USGS Quad: Clayton LAT: LONG: OR
UTM Coord: 4908375 N 706537 E Zone 11 AND
Township: 11N Range: 17E Section: 12 Subdivision: NW/NW
Meridian: 08 County: 037
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM X / 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: __________________________

Recent human use: X Describe: New flagging on gate, beer cans.

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

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ____ / Closed adits 3 ___ / 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 ___ Type ___ , ___ , ___
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways ___
Powerlines ___ Structures __ ___ Type Building and outhouse. Ore bin w/loading dock (still loaded) below Adit 3.
Condition: Good ____ / Fair ____ / Poor X ____ / Number Locked ___
Homesites ____
Other: Lumber, nails, old iron parts, rails on dumps.
F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: X / Presence: / Describe: Deer/elk droppings

GEOLOGY
Staining of soils Y Describe: Fe light brown dumps
Sulfide minerals Y Type(s): Galena, Siderite, coarse galena found
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:
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 #:

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:

__________________________________________________________________

H. RECLAMATION

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

MITIGATION STATUS
None ____ X ____ / 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: Okay as is. Fairly remote. Old portals are collapsing.

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 ____ Rover File name: CH1099

K. PHOTOGRAPHS
Number of photographs taken: Roll 99-3, Negative # 8293, Frames 1-5, 5 photos.

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

Reason: ______________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
### 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>10'</td>
<td>4'</td>
<td>3'</td>
<td>Caved 10 feet inside Wood portal.</td>
</tr>
<tr>
<td>Dump 1</td>
<td>20'</td>
<td>30'</td>
<td>5'</td>
<td></td>
</tr>
<tr>
<td>Pit 1</td>
<td>200'</td>
<td>50'</td>
<td>20-30'</td>
<td>Highwall extends uphill. Can't do much reclamation.</td>
</tr>
<tr>
<td>Adit 2</td>
<td></td>
<td></td>
<td></td>
<td>Caved, with large timbered portal.</td>
</tr>
<tr>
<td>Dump 2</td>
<td>30'</td>
<td>30'</td>
<td>5'</td>
<td></td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td>Collapsed totally.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>40'</td>
<td>30'</td>
<td>5'</td>
<td>Fe stain.</td>
</tr>
<tr>
<td>Building 1</td>
<td>60'</td>
<td>15'</td>
<td>8'</td>
<td>Collapsing, near Adit 3.</td>
</tr>
<tr>
<td>Ore Bin</td>
<td></td>
<td></td>
<td></td>
<td>Below level of Adit 3 and Bldg 1.</td>
</tr>
</tbody>
</table>

INSPECTED BY: **Virginia Gillerman**  
TITLE: **IGS Geologist**  
DATE: **7-14-99**

INSPECTED BY: **Forrest Griggs**  
TITLE: **IGS Geologist**  
DATE: **7-14-99**
No commodity information in Challis Mines and Prospects. Miners probably after lead.

Massive dark brown siderite pods with some minor sphalerite/galena.


Massive coarse galena found on dump of Adit 2, which is caved with wood portal.

Adit 3- next to partially collapsed wood building (1). Rails, misc. nails, iron and lumber scattered over dump.

Ore bin/loading dock below is still full of ore. Much is oxidized, earthy brown-orange rock.

No significant hazards. Mostly just nails, collapsing buildings and wood portals. Fairly remote site, but is accessible with 4WD vehicle.
Figure 01-1: Sketch map of the Carrothers/Hines prospect.
Carrothers/Hines Mine Site
BLM: ID-0458-00002
IGS: CH-306

Figure 01-2: Site map of the Carrothers/Hines Mine, Custer County, Idaho (U.S. Geological Survey Clayton 7.5 minute topographic map).
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>
</tr>
</thead>
<tbody>
<tr>
<td>99-3 / Neg 8293</td>
<td>1</td>
<td>230</td>
<td>Dump looking west from main access road.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>230</td>
<td>Adit 1, caved inside portal</td>
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<tr>
<td></td>
<td>3</td>
<td>190</td>
<td>Pit 1, looking upslope</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>230</td>
<td>Adit 2 with wood portal</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>170</td>
<td>Building 1, collapsed partially. Located on top of dump from Adit 3</td>
</tr>
</tbody>
</table>
ID Number: ID-0458-00001
IGS: CH1099

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)
# I. INTERVIEWS

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<td>Comments</td>
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Figure 01-3: Site dumps from access road from east side of gulch. View looking 230 degrees. (Roll 99-3, Neg #8293, Frame 1; photograph by V. S. Gillerman; July 14, 1999).

Figure 01-4: Adit #1. Wood portal, caved approximately 20 feet inside. View looking 230 degrees. (Roll 99-3, Neg #8293, Frame 2; photograph by V. S. Gillerman; July 14, 1999).
Figure 01-5: Pit #1 looking up slope. View looking at 190 degrees. (Roll 99-3, Neg #8293, Frame 3; photograph by V. S. Gillerman; July 14, 1999).

Figure 01-6: Adit #2, wood portal, caved inside. View looking 230 degrees. (Roll 99-3, Neg #8293, Frame 4; photograph by V. S. Gillerman; July 14, 1999).
Figure 01-7: Building #1. Built on dump from adit 3. Partially collapsed. View looking 170 degrees. (Roll 99-3, Neg #8293, Frame 5; photograph by V. S. Gillerman; July 14, 1999).
A. SITE IDENTIFICATION

ID Number: 1D04580002
Site/Mine Name: Turtle Mine
Primary Commodity: Pb, Ag, Cu (340)
IGS Number: CH-396

B. LOCATION DATA

USGS Quad: Bald Mountain
LAT: LONG: OR
UTM Coord: 4916254 N 714679 E Zone 11 AND
Township: 12N Range: 18E Section: 14 Subdivision: SE/NW
Meridian: 08 County: 037
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM X / Non-BLM ___

C. ACCESS

Visible from: Nearest road ___ Trail ___ / Population center ___
Access by: 2wd ___ / 4wd X ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ______
Road Log: Need key for locked gate where road turns off Bayhorse Lakes Road.

Recent human use: X Describe: Claim stakes below mine appear new.

D. SITE DESCRIPTION

Acreage: __________________________ Elevation: ________________
General slope (degrees): 0-10 ___ / 11-35 X ___ / >35 X ___
Floodplain: Disturbance in ____ / Adjacent to ____ / NA X ____
Recent mineral activity X Describe: Recent claim stakes.

E. MINING/EXPLORATION FEATURES (Provide numbers of features)

Open adits 2 / Closed adits 5 / 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 200' & 100'
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 3 Type Log cabin, wood shingle shack, outhouse, collapsed building near Adit 7
Condition: Good X / Fair ___ / Poor ___ / Number Locked ___
Homesites ____
Other: Other collapsed buildings, ore loading docks, etc.

form: amlform99.blm
Vsg06/99
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: X / Describe: Sage, grasses on road

ANIMALS
Evidence: X / Presence: / Describe: Abundant elk/deer droppings

GEOLOGY
Staining of soils N Describe: Fe stain on rocks in dumps and talus.
Sulfide minerals Y Type(s): Galena, Cu oxide and carbonate
Tailings: Confined / Unconfined / Unknown

HYDROLOGY
<table>
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<tr>
<th>Water flowing from workings</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
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<tbody>
<tr>
<td>Standing water in workings:</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Water through/over tailings:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>waste rock:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ore:</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Adjacent water sources:
<table>
<thead>
<tr>
<th>Ground water: Type</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Distance</th>
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<tbody>
<tr>
<td>Surface water:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface H2O above site:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface H2O below site:</td>
<td></td>
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</tr>
</tbody>
</table>

Evidence of aquatic life: Location: Describe: Trickle in spring NE of site, with moss and water plants abundant.

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 1 Leaking: Contents: Empty(?), rusted, on lower dump

Evidence of Underground Storage Tanks: Describe:

Other:
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
Rover File name: CH396

K. PHOTOGRAPHS
Number of photographs taken: Roll 99-3, Negative # 8293, Frames #7-11, 13-15, 8 photos.

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

30
<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>?</td>
<td>2'</td>
<td>2'</td>
<td>Open, partially behind cave in.</td>
</tr>
<tr>
<td>Other 1 (Cabin 1)</td>
<td>30'</td>
<td>15'</td>
<td>10'</td>
<td>Log cabin, good shape.</td>
</tr>
<tr>
<td>Other 2 (Building 2)</td>
<td>30'</td>
<td>15'</td>
<td>12'</td>
<td>Locked and in good shape, w/ wood and shingles.</td>
</tr>
<tr>
<td>Other 3 (Building 3)</td>
<td></td>
<td></td>
<td></td>
<td>Collapsed logs.</td>
</tr>
<tr>
<td>Adit 2</td>
<td></td>
<td></td>
<td></td>
<td>Caved, wood portal.</td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Adit 4</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Adit 5</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Adit 6</td>
<td>40'</td>
<td>5'</td>
<td>3'</td>
<td>Open, approx. 20'. Caved inside, but with opening over caved rock.</td>
</tr>
<tr>
<td>Pit 1</td>
<td>200'</td>
<td>5-30'</td>
<td>20'</td>
<td>N-S open cut.</td>
</tr>
<tr>
<td>Pit 2</td>
<td>100'</td>
<td>25'</td>
<td>30-40'</td>
<td>Open (Not GPS logged).</td>
</tr>
<tr>
<td>Drill Hole 1</td>
<td>?</td>
<td>8''</td>
<td>100''+</td>
<td>Verticle open drill hole (Not GPS logged).</td>
</tr>
<tr>
<td>Ore loading dock</td>
<td></td>
<td></td>
<td></td>
<td>Near pit 2, semi-collapsed. (Not GPS logged).</td>
</tr>
<tr>
<td>Adit 7</td>
<td>?</td>
<td>1.5'</td>
<td>6-8''</td>
<td>Caved, barely open.</td>
</tr>
<tr>
<td>Other 3</td>
<td>10'</td>
<td>6'</td>
<td>10'</td>
<td>Wood shack by Adit 7.</td>
</tr>
<tr>
<td>Loading bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump (Adit 7)</td>
<td>40'</td>
<td>10'</td>
<td>20'</td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Virginia Gillerman  
TITLE: IGS Geologist  
DATE: 7-15-99

INSPECTED BY: Forrest Griggs  
TITLE: IGS Geologist  
DATE: 7-15-99
Country rock is Slate/Phyllite and Bayhorse dolomite.

Recent claim posts near Adit 1 and below mine adjacent to flats. MAY BE ACTIVE CLAIM.

Locked access road immediately after crossing river on Bayhorse Lakes road. Rancher just down river and across highway has key, as well as local BLM office.

Some furnishings left in buildings. Shingle building is locked, in good shape. Old hand style washing machine by collapsed cabin on dump below. There is ample scrap iron and old timber on the dumps, as well as adjacent to several of the buildings.

Pit 1- Approx. 200' long highwall. Open cut follows quartz vein, cutting dolomite. Quartz veins outcrop and contain galena and green Cu oxide minerals.

Pit 2- S side of cliff-lined gulch, in and adjacent to altered dolomite. 8" drill hole in floor of Pit 2. Placed large rocks to restrict access.

Adit 6 is on upper road next to small open cut and benched pit.

Adit 7- On lower level with wood shack. Caved at portal. Dump has rails, much timber, collapsed cribbing, ore bin and loading dock, iron boiler, 55 gal. Drum (rusted), and associated detritus.
Figure 02-1: Sketch map of the Turtle Mine site.
Figure 02-2: Topographic map of the Turtle Mine, Custer County, Idaho (U.S. Geological Survey Bald Mountain 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<tbody>
<tr>
<td>99-3, Neg. 8293</td>
<td>7</td>
<td>330</td>
<td>Adit 1, behind GPS gear, w/corner Bldg. 1.</td>
</tr>
<tr>
<td>“</td>
<td>8</td>
<td>210</td>
<td>Bldg 2, shingle/wood shack, bldg 3 to left</td>
</tr>
<tr>
<td>“</td>
<td>9</td>
<td>300</td>
<td>Adit 2, caved, at portal with wood</td>
</tr>
<tr>
<td>“</td>
<td>10</td>
<td>330</td>
<td>Adit 6, open at least 20', possibly more</td>
</tr>
<tr>
<td>“</td>
<td>11</td>
<td>280</td>
<td>Pit 1, Cu oxide minerals in qtz vein which outcrops in highwall of Pit 1.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Note green Cu stain above hammer.</td>
</tr>
<tr>
<td>“</td>
<td>13</td>
<td>290</td>
<td>Pit 2, note drill holes in vertical wall.</td>
</tr>
<tr>
<td>“</td>
<td>14</td>
<td>040</td>
<td>Turtle Mine overview from above. Pit 1 is on lower left of photo.</td>
</tr>
<tr>
<td>99-3, Neg. 8293</td>
<td>15</td>
<td>290</td>
<td>Adit 7, lower level, caved, wood portal with wood shack and iron boiler.</td>
</tr>
</tbody>
</table>
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)
### I. INTERVIEWS

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Figure 02-3: Adit #1, behind GPS antenna. Corner of building #1 to far right. View looking 330 degrees. (Roll 99-3, Neg# 8293, frame 7; photographed by V.S. Gillerman; July 15, 1999).

Figure 02-4: Building #2, shingle and wood shack with collapsed building #3 to left. View looking 210 degrees. (Roll 99-3, Neg# 8293, frame 8; photographed by V.S. Gillerman; July 15, 1999).
Figure 02-5: Adit #2, caved at portal. Portal wood debris evident. View looking 300 degrees. (Roll 99-3, Neg# 8293, frame 9; photographed by V.S. Gillerman; July 15, 1999).

Figure 02-6: Adit #6. Open at least 20 feet. View looking 280 degrees. (Roll 99-3, Neg# 8293, frame 10; photographed by V.S. Gillerman; July 15, 1999).
Figure 02-7: Cu oxide minerals in outcropping quartz vein in highwall of Pit #1. View looking 280 degrees. (Roll 99-3, Neg# 8293, frame 11; photographed by V.S. Gillerman; July 15, 1999).

Figure 02-8: Pit #2. Note drill holes in vertical wall. (Roll 99-3, Neg# 8293, frame 13; photographed by V.S. Gillerman; July 15, 1999).
Figure 02-9: Overview of the Turtle Mine site from above. Pit #1 in lower left of photo. View looking 040 degrees. (Roll 99-3, Neg# 8293, frame 14; photographed by V.S. Gillerman; July 15, 1999).

Figure 02-10: Lower level of the site. Adit is caved, with wood portal material, wood shack, and iron boiler. View looking 290 degrees. (Roll 99-3, Neg# 8293, frame 15; photographed by V.S. Gillerman; July 15, 1999).
A. SITE IDENTIFICATION

| ID Number: | 1D - 0458 - 00003 |
| Site/Mine Name: | Unnamed prospect |
| Primary Commodity: | Cu(?) |
| IGS Number: | CH-388 |

B. LOCATION DATA

| USGS Quad: | Bayhorse |
| LAT: | 715433 |
| LONG: | OR |
| UTM Coord: | 4918990/4918830 N |
| Zone: | 11 |
| AND Township: | 12N |
| Range: | 18E |
| Section: | 2 |
| Subdivision: | SE,SE |
| Meridian: | 08 |
| County: | 037 |
| Surface: | BLM X / Non-BLM ___ |
| Mineral Estate: | BLM X / 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: **Jeep trail leads to lowermost adit.**

Recent human use: Y Describe: **Near tourist road, tracks on jeep trail.**

D. SITE DESCRIPTION

| Acreage: | |
| Elevation: | |
| General slope (degrees): | 0-10 ___ / 11-35 ___ / >35 X |
| Floodplain: | Disturbance in ___ / Adjacent to ___ / NA X |
| Recent mineral activity: | Describe: **Old claim post at adit 1.** |

E. MINING/EXPLORATION FEATURES (Provide numbers of features)

| Open adits | 2 / Closed adits ___ / Open inclines ___ / Closed inclines ___ |
| Open shafts | ___ / Closed shafts ___ / Stopes ___ |
| Other openings | Type |
| Trenches | Length ___ / Prospects 2 / Open drill holes ___ |
| Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___ |
| Waste dumps: | <0.1 ac 2 / 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: | |

---

form: amiform99.blm
Vsg06/99
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent ___

ANIMALS

GEOLOGY
Staining of soils Describe:
Sulfide minerals Type(s):
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:


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: _____________________________________________________

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  X   Rover File name:  R 071615A

K. PHOTOGRAPHS
Number of photographs taken: Roll 99-3, Neg # 8293, Frames #21 and 22, 2 photos.

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

Reason: __________________________________________________________
_______________________________________________________________
_______________________________________________________________
_______________________________________________________________
_______________________________________________________________
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

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<th>mitigation</th>
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<td>Adit 1</td>
<td>40'</td>
<td>2'</td>
<td>2'</td>
<td>Open(?) Length unknown</td>
</tr>
<tr>
<td>Dump 1</td>
<td>40'</td>
<td>15'</td>
<td>3'</td>
<td></td>
</tr>
<tr>
<td>Adit 2</td>
<td>40'</td>
<td>6'</td>
<td>8'</td>
<td>Open, remote access</td>
</tr>
<tr>
<td>Prospect 1</td>
<td>6'</td>
<td>8'</td>
<td>10'</td>
<td>hole in side of cliff</td>
</tr>
<tr>
<td>Prospect 2</td>
<td>10'</td>
<td>5'</td>
<td>6'</td>
<td>hole in side of cliff</td>
</tr>
<tr>
<td>Other 1</td>
<td>200'</td>
<td>N50W bearing to prospect</td>
<td>200' N50W bearing to prospect</td>
<td></td>
</tr>
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</table>

**INSPECTED BY:** Virginia Gillerman  
**TITLE:** IGS Geologist  
**DATE:** 7-16-99

**INSPECTED BY:** Forrest Griggs  
**TITLE:** IGS Geologist  
**DATE:** 7-16-99
Obvious short jeep trail leads off north side of Bayhorse Creek road. The workings are hard against wall of cliff, along fault between dolomite and shale.

Adit 1 against S. wall of dolomite cliff. Large blocks have fallen down and partially obscured the opening. Opening still large enough to allow access. Skeleton of unknown creature inside adit near portal.

No action needed, openings hard to access.
Figure 03-1: Sketch map of the Unnamed Prospect ID-0458-00003.
Figure 03-2: Site map for the ID-0458-00003 Mine site, Custer County, Idaho. (U. S. Geological Survey Bayhorse 7.5 minute topographic map).
Fill out the following for each photo:

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<th>Location/Feature</th>
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<td>21</td>
<td>200</td>
<td>Adit 1 in cliff. Wood claim post to</td>
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<tr>
<td></td>
<td>22</td>
<td>350</td>
<td>Left of opening, which is behind large rock</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Adit 2, along shear at side of cliff.</td>
</tr>
</tbody>
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...
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: ____________
Comments: _____________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
Monitoring frequency: _______ Dates of monitoring visits: __________________________________________________________________
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(NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
### I. INTERVIEWS

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Figure 03-3: Adit #1 in cliff. Wood claim post in upper left, barely visible. Opening in lower right behind rock with orange lichen. View looking 300 degrees. (Roll 99-3, Negative 8293, Frame 21. Photograph by V. Gillerman, July 16, 1999.)

Figure 03-4: Adit #2 along shear at side of cliff. View looking 350 degrees. (Roll 99-3, Negative 8293, Frame 22. Photograph by V. Gillerman, July 16, 1999.)
BUREAU OF LAND MANAGEMENT

ABANDONED/INACTIVE MINE LAND INVENTORY

FIELD CHECKLIST

A. SITE IDENTIFICATION

ID Number: 1D-045800004
Site/Mine Name: Unknown
Primary Commodity: Cu(?)
IGS Number: CH-1191

B. LOCATION DATA

USGS Quad: Bald Mountain
LAT: ___________ LONG: ___________ OR
UTM Coord: 4912554 N 713366 E Zone 11 AND
Township: 12N Range: 18E Section: 27 Subdivision: SE/SW
Meridian: 08 County: 037
Surface: BLM ___ / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS

Visible from: Nearest road ____ / Trail ____ / Population center ____
Access by: 2wd ____ / 4wd ____ / Hike X / Other ____
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ____
Road Log: Remote!

Recent human use: N Describe: __________________________

D. SITE DESCRIPTION

Acreage: ___________ Elevation: ___________ 7800'
General slope (degrees): 0-10 ____ / 11-35 ____ / >35 X
Floodplain: Disturbance in ____ / Adjacent to ____ / NA ____
Recent mineral activity ____ Describe: Said to be prospected occasionally.

E. MINING/EXPLORATION FEATURES (Provide numbers of features)

Open adits ____ / Closed adits 1 / Open inclines ____ / Closed inclines ____
Open shafts ____ / Closed shafts 1 (?) / 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 ____ / Headframes ____ / Trestles/tramways ____
Powerlines ____
Structures 1 Type Collapsed building.
Condition: Good ____ / Fair ____ / Poor X / Number Locked ____
Homesites ____
Other: __________________________

form: amlform99.blm
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent ___

ANIMALS

GEOLOGY
Staining of soils _____ Describe: Fe in carbonate rocks, silica alteration.
Sulfide minerals _____ Type(s): Cu oxides.
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: 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: ____________________________
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:

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
Rover File name: R 071521A

K. PHOTOGRAPHS
Number of photographs taken: Roll 99-3, #16, 17

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

Other:

---

ID-0458-00004
NONE
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></td>
<td></td>
<td></td>
<td>Caved w/ wood portal</td>
</tr>
<tr>
<td>Shaft 1</td>
<td></td>
<td></td>
<td></td>
<td>Caved, depression below portal to adit</td>
</tr>
</tbody>
</table>

REMOTE! No hazards. Rocky jeep trail must be hiked. Map shows shaft, but appears more like adit or decline, which is caved.

No action needed.
Figure 04-01: Sketch Map of the Unknown Prospect ID-0458-00004.
Figure 04-2: Topographic map of the Unnamed Prospect ID-0458-00004, Custer County, Idaho. (U. S. Geological Survey Bald Mountain 7.5 minute topographic map).
Fill out the following for each photo:

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<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<tr>
<td>99-3, Neg 8293</td>
<td>16</td>
<td>360</td>
<td>Adit 1, caved.</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>120</td>
<td>Collapsed building on adit 1 dump.</td>
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</table>
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: ______________________
_______________________________________________________________
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(NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
### INTERVIEWS

<table>
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Figure 04-3: Adit #1. Caved, with portion of wood portal still visible. View looking 300 degrees. (Roll 99-3, Negative # 8293, Frame 16. Photograph by V. Gillerman, July 15, 1999).

Figure 04-4: Collapsed building on dump. View looking 350 degrees. (Roll 99-3, Negative # 8293, Frame 17. Photograph by V. Gillerman, July 15, 1999).
A. SITE IDENTIFICATION

ID Number: I D - 0 4 5 8 - 0 0 0 0 5
Site/Mine Name: Barton Mine Primary Commodity: Pb-Ag
IGS Number: Ch-392

B. LOCATION DATA

USGS Quad: Bayhorse LAT:________ LONG:________ OR
UTM Coord: 4919472.67585 N 713340.53683 E Zone 11 AND
Township: 12N Range: 18E Section: 3 Subdivision: NW, SE
Meridian: 08 County: 037
Surface: BLM X / Non-BLM X Mineral Estate: BLM X / Non-BLM X

C. ACCESS

Visible from: Nearest road 3 / Trail ____ / Population center ____
Access by: 2wd X / 4wd ____ / Hike ____ / Other ____
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ______
Road Log: ________________________________

Recent human use: X Describe: Adjacent to main tourist road, abundant traffic.

D. SITE DESCRIPTION

Acreage: __________________________ Elevation: __________________________
General slope (degrees): 0-10 / 11-35 X / >35 ___________________________
Floodplain: Disturbance in ____ / Adjacent to ____ / NA X
Recent mineral activity ____ Describe: BLM Survey

E. MINING/EXPLORATION FEATURES (Provide numbers of features)

Open adits 3 / Closed adits 10 / 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 10 / 0.1 - 5 ac 3 / >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 2 Type Cabin-collapsed. Ore bin/loading area.
Condition: Good ____ / Fair ____ / Poor ____ / Number Locked ____ Homesites ____
Other: Loading dock/bin next to main tourist road.

form: amlform99.blm
Vsg06/99
**ENVIRONMENTAL FEATURES**

**VEGETATION**
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: **Lots of deadfall/avalanches.**

**ANIMALS**
Evidence: ___ / Presence: ___ / Describe: **Deer/Elk droppings.**

**GEOLOGY**
- Staining of soils: N / Describe: **Fe on dumps.**
- Sulfide minerals: Y / Type(s): Pyrite, galena, tetrahedrite abundant.
- Tailings: Confined ___ / Unconfined ___ / Unknown ___

**HYDROLOGY**

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<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
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<td>___</td>
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<td>___</td>
<td>___</td>
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<td>Water through/over tailings:</td>
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<td>___</td>
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<td>waste rock: ___</td>
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<td>ore: ___</td>
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<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Distance</th>
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<td>Surface water:</td>
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<td>Surface H2O above site:</td>
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<td>___</td>
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<td>Surface H2O below site:</td>
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Evidence of aquatic life: ___ / Location: ______ / Describe: ________________________

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

Samples collected: ___ / Sketch #(s): ________________________________

**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: ________________________________
BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0458-00005
IGS: CH 392

H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ___ / Gullies ___ / Sheetwash ___
Unstable Rock ___ / Slope instability ___ X (Ore dump by road) ___ / 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 ___ Rover File name: ___CH-392___

K. PHOTOGRAPHS
Number of photographs taken: ___Roll 99-3, Negative # 8293, Frames #23-26.____

L. ACTION
Site requires immediate investigation ___ by: Law Enforcement ___ / BLM ___
HAZMAT ___ / Other _______________________________________________
Reason: ___________________________________________________________
_______________________________________________________________
_______________________________________________________________
_______________________________________________________________

66
### 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></td>
<td></td>
<td></td>
<td>Caved</td>
</tr>
<tr>
<td>Adit 2</td>
<td>(? 50’)</td>
<td>4’</td>
<td>4’</td>
<td>Open-decline(?)</td>
</tr>
<tr>
<td>Dump</td>
<td>30’</td>
<td>20’</td>
<td>5’</td>
<td>visible from main road</td>
</tr>
<tr>
<td>Adit 3</td>
<td>25’</td>
<td>10</td>
<td>8</td>
<td>Caved</td>
</tr>
<tr>
<td>Adit 4</td>
<td></td>
<td></td>
<td>Only 50’ from road</td>
<td>Caved</td>
</tr>
<tr>
<td>Dump 1*</td>
<td>80’</td>
<td>150’</td>
<td>6’</td>
<td>Monitor- Ore bin impinges on road</td>
</tr>
<tr>
<td>Adit 5</td>
<td>20’</td>
<td>30’</td>
<td>3’</td>
<td></td>
</tr>
<tr>
<td>Prospects 1&amp;2</td>
<td></td>
<td></td>
<td></td>
<td>Above S.E. of adit 3</td>
</tr>
<tr>
<td>Prospect 3</td>
<td></td>
<td></td>
<td></td>
<td>Caved</td>
</tr>
<tr>
<td>Adits 6-10</td>
<td></td>
<td></td>
<td></td>
<td>S45E Through woods, marked as prospects on topo</td>
</tr>
<tr>
<td>Adit 11</td>
<td>50’</td>
<td>4’</td>
<td>2’</td>
<td>Open</td>
</tr>
<tr>
<td>Dump 2</td>
<td>100’</td>
<td>30’</td>
<td>15’</td>
<td>In 2 lifts</td>
</tr>
<tr>
<td>Adit 12</td>
<td>40’+</td>
<td>21’</td>
<td>4’</td>
<td>Open, with caved conical pit-survey monument</td>
</tr>
<tr>
<td>Dump 3</td>
<td>25’</td>
<td>40’</td>
<td>10’</td>
<td>For adit 12</td>
</tr>
<tr>
<td>Adit 13</td>
<td></td>
<td></td>
<td></td>
<td>Caved, below ore bin next to road</td>
</tr>
</tbody>
</table>

**INSPECTED BY:** Virginia Gillerman  **TITLE:** IGS Geologist  **DATE:** 7-16-99

**INSPECTED BY:** Forrest Griggs  **TITLE:** IGS Geologist  **DATE:** 7-16-99
Adit 1- Adjacent to pull out on main road. Lots of traffic (Friday, P.M.).

Adit 2- Brown dump only about 20 feet above adit 2. Trees and timbers, collapsed at portal, good, large opening still accessible, appears to be decline. Dangerous if entered.

Adit 4- Caved. Upper dump above ore bin adjacent to main Bayhorse Creek road.

Dump- Huge, heavy Fe stain, strong sulphur smell. Adjacent to main Bayhorse Creek road.

Adits 5-10- Caved. In a line, no GPS information recorded, too much satellite interference.

Adit 11- huge, double lift gray dump on SE end. Signs for land survey monument on N side of dump. Open for about 50’+.

Dump 2- Combination of dumps from adits 10 & 11. Abundant ore left on this dump, including kidneys of tetrahedrite rimmed by pyrite in siderite gangue cut by late stage clear fluorite.

Caved pit above adit 12 (about 15’ deep, 20’ above adit 12) open with timbers.

Open adits are difficult to find. Watch Dump and Ore Bin adjacent to main road. Timbers are near to collapse, with some slope instability above in the dump.

Survey monument Information:
Figure 05-01: Sketch map of the Barton Mine site, Custer County, Idaho.
Figure 05-2: Site map for the Barton Mine, Custer County, Idaho. (U. S. Geological Survey Bayhorse 7.5 minute topographic map).
### 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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</thead>
<tbody>
<tr>
<td>99-3, Neg 8293</td>
<td>23</td>
<td>170</td>
<td>Adit 2, open, collapsed, with brush and timber in front of portal.</td>
</tr>
<tr>
<td>“”</td>
<td>24</td>
<td>060</td>
<td>Dump 1 and ore bin w/ Bayhorse Creek Road in background.</td>
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<tr>
<td>“”</td>
<td>25</td>
<td>250</td>
<td>Dump 2. Adit 11 w/ adit 10 to side below survey monument sign.</td>
</tr>
<tr>
<td>“”</td>
<td>26</td>
<td>230</td>
<td>Adit 12, open, with caved pit above it, barely visible.</td>
</tr>
</tbody>
</table>
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)
## I. INTERVIEWS

<table>
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<th>Comments</th>
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Figure 05-03: Adit #2, open, with collapsed brush and timbers in portal area. View looking 170 degrees. (Roll 99-3, negative #8293, frame 23, photograph by V. Gillerman, July 16, 1999.)

Figure 05-04: Dump #1 with ore bin. Bayhorse Creek Road in background. The dump and ore bin are immediately adjacent to the road. Several vehicles, including RV's were observed using the road while being surveyed. View looking 060 degrees. (Roll 99-3, negative #8293, frame 24, photograph by V. Gillerman, July 16, 1999.)
Figure 05-5: Dump #2 with adits 10 and 11 to the side and below. Cadastral survey monument sign in center behind dog. View looking 250 degrees. (Roll 99-3, negative #8293, frame 25, photograph by V. Gillerman, July 16, 1999.)

Figure 05-6: Adit 12, open with caved pit up slope from portal, barely visible. View looking 230 degrees. (Roll 99-3, negative #8293, frame 26, photograph by V. Gillerman, July 16, 1999.)