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

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SITE INSPECTION REPORT FOR THE
ABANDONED AND INACTIVE MINES
IN IDAHO
ON U.S. BUREAU OF
LAND MANAGEMENT PROPERTY
IN THE HAILEY-BELLEVUE AREA

BULLION GULCH,
HAILEY-BELLEVUE AREA,
BLAINE COUNTY, IDAHO

FIELD INSPECTION BY:

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MIKE DUNN
Idaho Geological Survey

FINAL REPORT PREPARED BY:

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2000

Prepared for the U.S Bureau of Land Management
Under Agreement No. 1422-D910-A3-0206, Task Order #4
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GEOLOGY

The Bullion Gulch area (Figure 1), as covered in this report, consists of the segment of Bullion Gulch north of Croy Creek and south of the northern boundary of the Richardson Summit 7.5 minute topographic quadrangle. The area was one of the larger mining districts in the Hailey area and is essentially a continuation of the Red Elephant mine (Site ID-0054-00007) which lies adjacent and over a ridge to the west of the Bullion Gulch mines. For convenience due to the numerous workings in Bullion Gulch and the side canyons west of Bullion Gulch, the area was subdivided into five sites (ID-0054-00027 to 00031) according to the major mines and claims, as mapped by Fryklund and Kiilsgaard (Fryklund, 1950, Plate 3). Figure 2 is a copy of that map.

As at the Red Elephant mine (Gillerman and Mitchell, 1999), the Bullion Gulch area is underlain by the Lower Member of the Pennsylvanian-Permian Dollarhide Formation (Link and others, 1995). The Lower Dollarhide is at least 800 meters thick and consists of interbedded dark gray carbonaceous silty micritic limestone and very fine-grained light gray to brown micritic sandstone with subordinate light brown micritic sandstone and gray conglomeratic lenses. The more detailed mapping of the Mayflower area, described in Fryklund (1950), shows two principal units: a Pqu unit of quartzite with undifferentiated sandstones, limestones, and argillites; and a Pal unit of argillite with interbedded limestones. A Cretaceous age pluton of hornblende-biotite granodiorite intrudes the sedimentary rocks to the north and east of the Bullion Gulch area. Tertiary Challis-age volcanic rocks overlie the sediments on the lower end of Bullion Gulch near Croy Creek (Worl and others, 1991; Link and others, 1995).

The mines in the Bullion Gulch, or Mayflower Area, were first exploited in the 1880's, and probably last worked just after 1949 when Apache Mining Company constructed a 100-ton mill to retreat the old tailings (Fryklund, 1950, p. 63). The major mines (from Jay Gould on northwest to Ophir shafts on southeast) are all located along the N50W-striking Mayflower Lode, which dips steeply (70-85 degrees) to the southeast. The alignment of prospects and workings is readily discernible in the field, and large portions of the vein have been stoped to the surface, particularly on the Mayflower claim itself (ID-0054-00029). The workings were originally interconnected across the various properties. Considerable limestone is present in outcrop and on dumps. There is probably enough carbonate rock to alleviate any acid-generating potential. Sulfides, especially galena, sphalerite, and tetrahedrite, plus pyrite and chalcopyrite, were reported in the ores, along with a siderite-calcite-quartz gangue. Oxidation was only about 40 feet deep according to the old reports. Gossan was noted alongside several of the old workings. Descriptions of the mines and structural geology can be found in Umpleby and others (1930) and in Fryklund (1950).
Figure 1. Location map of the Bullion Gulch area and vicinity near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Fairfield 30x60-minute quadrangle, scale 1:100,000).
Figure 2. Geologic and topographic map of the Mayflower and Red Elephant areas, Blaine County, Idaho (Fryklund, 1950).
HAZARD ASSESSMENT

SUMMARY

There are several significant physical hazards in the Bullion Gulch area, as summarized in Table 1. The danger from open shafts and adits is compounded by the easy access of the area to local residents and unknowing tourists. During the summer of 1997, a new gravel road was built up Bullion Gulch for about a half mile up from the main Croy Creek road. The property was subdivided and utilities installed, and by 1998 signs advertising real estate lots available were in place. The mill tailings (see Site 28) are only a half mile above the subdivision site, and there was evidence in 1998 that the sandy tailings had been used for camping and beach parties. The main Jay Gould and Mayflower workings are just under 3 miles, on a good road, from the Croy Creek road junction with Bullion Gulch. Numerous residences occupy the Croy Creek valley.

The most hazardous features in the Bullion Gulch area are the several open shafts. These typically are near vertical with sheer walls and no warning of their presence until one is adjacent to the shafts. Luckily the open shafts are all located on steep hillsides, requiring a hike, thus they are somewhat less accessible. The several open adits, include one near the main road. Most of the adits are sheltered by nettles and other vegetation.

More detailed descriptions, characterization, maps, GPS information, feature lists, and photographs for the individual properties can be found in the Site Inspection Checklists in the second half of this report.

SITE ID-0054-00027: JAY GOULD MINE (HA-327)

The workings of the Jay Gould mine are located in the northwest quarter of Section 22, T2N, R17E, up the canyon and ridge above the left fork of the road up Bullion Gulch. A jeep trail ends at the Jay Gould Tunnel (Adit 1) and associated dump. A modest flow of water discharges from the tunnel in limestone. With a pH of 7.9 and healthy-looking mosses and sedges at the entrance, it is unlikely that there is an acid problem. The adit has a 2-foot high opening, obscured by the vegetation, and not very inviting to visitors. A large iron boiler sits below the Jay Gould dump next to remnants of what appear to be very old tailings along the drainage. Most of the tailings (indicated on map in Figure 2) appear to have been excavated out of the bottom of the drainage, presumably by Apache Mining Company. Fryklund’s 1950 map (Figure 2) accurately portrays the location of the various workings.

Major physical hazards at the Jay Gould property include two open shafts and a stope, all located on the steep, talus and dump-covered ridge west of Adit 1 and north of the gulch that extends west up to the OK Tunnel dump (Point “Other 2”). The OK Tunnel was mapped as part of the Red Elephant mine (ID-0054-00007, HA-326) site investigation in 1997 (Gillerman and Mitchell, 1999). On the Jay Gould site, Shaft 1 is an 8’ by 4’, vertical-walled, wide open shaft above a modest red brown dump, approximately 400 feet NNE of the OK Tunnel dump. The shaft is difficult to see until one is right next to it. It needs filling or at least a fence and warning sign. Stope 1 and Shaft 2 are along the same structure downhill to the southeast. Both are steep
declines which someone could fall into while traversing the sagebrush covered slopes. It would be impossible to climb out of the shafts without ropes. Shaft 2 is at the top of a large coalescing group of dumps; it is closest to the road and a fence and sign would be easy to install.

SITE ID-0054-00028: BULLION MILL (HA-329m)

The Bullion mill site is located a half mile up Bullion Gulch, adjacent to the road and creek. The mill itself has burned down, but abundant trash, litter, and burned remains have been left at the site. The site is an eyesore and needs to be cleaned up. The mill foundation walls include a 20-foot high wall which could be dangerous to kids playing. It could be demolished. Visitors to the site are apparently numerous, and they use one of the remaining buildings for target practice and the tailings piles as campgrounds and party spots. The two shallow shaft-like features should probably be dozed in, and the rest of the buildings razed for safety reasons.

The tailings pile is upstream of an 8-foot high earthen dam, which has been breached by the creek that borders the west side of the tailings pile. Although the tailings contain anomalous metal contents, the host rock to the ores includes much limestone. Perhaps because of that, the pH of the creek that flows through the tailings actually showed a slight increase in pH from above to below the tailings pile. The small creek is slightly basic (pH = 8.3 at B) and has a low specific conductivity, suggesting that the water quality is acceptable. The tailings are gray and show no apparent oxidation. The abundant aspen, sage, and grass growing in the tailings also suggests there is not an environmental problem here. While there appeared to be little transport of the tails past the lower dam, additional residential development work is not recommended downstream or at the mill site.
Table 1. Summary of sites in the Bullion Gulch area, Blaine 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 (Corrected 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-0054-00027 (HA327.cor)</td>
<td>HA 327</td>
<td>Jay Gould Mine</td>
<td></td>
<td>2AO, 1AC 2SO 1StO 3P</td>
<td>Open shafts and stope are dangerous. Need fence, sign or fill.</td>
</tr>
<tr>
<td>ID-0054-00028 (HA329M.cor)</td>
<td>HA 329M</td>
<td>Bullion Mill (Apache Mines)</td>
<td>T</td>
<td>2SO Trash, Concrete foundation wall.</td>
<td>Minor physical hazards, but creek runs through tails; WQ looked good, should check.</td>
</tr>
<tr>
<td>ID-0054-00029 (HA328.cor)</td>
<td>HA 328</td>
<td>Mayflower Mine</td>
<td></td>
<td>2AO 1SO 3StO 1trench, 3P</td>
<td>Dangerous open stopes, shaft, and high walls. Open Adit 1 needs gate.</td>
</tr>
<tr>
<td>ID-0054-00030 (HA329.cor)</td>
<td>HA 329</td>
<td>Bullion Mine</td>
<td></td>
<td>1AO 1P 1 open pit</td>
<td>Should gate or close adit.</td>
</tr>
<tr>
<td>ID-0054-00031 (HA331.cor)</td>
<td>HA 331</td>
<td>Ophir/Brown Mine</td>
<td></td>
<td>1AO, 3AC 3SO 2P</td>
<td>Open Durango Shafts are extremely dangerous.</td>
</tr>
</tbody>
</table>
SITE ID-0054-00029: MAYFLOWER MINE (HA-328)

The Mayflower Mine area includes the best-exposed geology in the district (see Figure 2 and site inspection report) and workings developed on the War Eagle and Mayflower claims. Much of the property is hidden in the trees, probably to be scouted out only by those interested in the geology or mining history. The Mayflower Tunnel (Adit 1) has a prominent dump visible from the jeep trail along the left fork of Bullion Gulch. The adit has a 2-foot high opening in solid limestone with a considerable amount of cool air flowing out of the workings, suggesting that it connects with the open stopes above it on the hill. A bat gate should probably be installed at the tunnel entrance. Adit 2 is only open a short distance and then is caved. No work is needed.

Shaft 1 is located correctly on Fryklund’s map (Figure 2) on the steep hill slope west of the Mayflower Tunnel. The shaft and modest brown dump are partially hidden by trees approximately 50 feet above an old trail. The vertical shaft was open at least 100 feet; it should be filled and closed. The line of stopes marking the main Mayflower Lode can be followed by going uphill from the shaft to the first collapsed stope. The line of stopes trends S65E, rising uphill to the nose of the ridge, as shown in the sketch map in the Site 00029 checklist. GPS control on the workings was difficult to obtain due to the heavy timber. The collapsed stopes are 20-30 feet wide and 30 feet deep. In places the original timbered stope is still in place. These are very dangerous narrow, steeply dipping openings at least 50-100 feet deep. They would be inviting, but dangerous places to explore. They are also historic features. Highwalls up to 30 feet high are on the uphill side of several of the stopes. The size and length of the open stopes makes it difficult to mitigate the dangers. Warning signs and strategically placed fences might be advisable.

SITE ID-0054-00030: BULLION MINE (HA-330)

The workings of the Bullion Mine include those principally on the Bullion claim, which adjoins the southeast of the Mayflower claim along a prominent northeast-trending ridge line. The Mayflower Lode trends slightly more south southeasterly on the Bullion claim. It is marked by a large trench or shallow, collapsed stope ending in a small open pit (Pit 1) in the gulch. The high wall to the pit is up to 25 feet high, but readily visible. The area can only be reached by hikers. An old rusty generator sits on skids at the pit, and a large dump extends down the gulch. Other dumps on the sage and grass-covered, south-facing slope appear to originate at small prospects, now caved. Adit 1 has a 2-foot high opening and portal across the gulch from the pit, also near the top of the large Dump 6. The timber portal has a leaf nest in it, and has served as an animal shelter. It is not particularly inviting and is fairly difficult to get to. A gate on Adit 1 is a lower priority than closing shafts and stopes on the nearby sites.
SITE ID-0054-00031: OPHIR/BROWN MINE (HA-331)

Two areas of workings were mapped at this site, an upper one along the Mayflower Lode, and a lower area along the main Bullion Gulch road and creek. Shafts on the upper area of the Ophir/Brown Mine may actually belong to the Durango mine. They constitute some of the most dangerous hazards seen in the Hailey area. The upper workings visited at this site are located on the south half of the Bullion claim, the Ophir claim, and probably another claim or possibly a non patented area. Fryklund's map (Figure 2) is not clear on the ownership near the Durango Shaft (Shafts 1, 2, and 3). The Ophir and Brown workings can be reached by following a faint trail or old road through the woods southeast of Adit 1 of the Bullion Mine. Adit 3, the Brown Tunnel is caved, and a nearby Adit 2 on the road is partially open and should be closed.

The Durango Shafts are reached by bushwacking along trend uphill. The dump and the three steep-walled shafts are heavily vegetated and difficult to see until one is right next to them. Only a few feet separate the shafts and the area around the shaft collars are undercut. An old pipe sticks out of one, but no concrete reinforcement was seen. All three shafts are wide open and very deep. Any person or deer approaching from above would fall in and never be able to get out. They should be totally closed and the whole area fenced off as well. Workings of the Mountain View claim, further up the hill, were not examined, but Figure 2 does not show any open workings or shafts in that area.

The lower area of workings on Site 031 are those on the Indian Queen and Oneida claims. Most prominent is the Durango Tunnel (Adit 4) and Dump 8 along the main Bullion Gulch road. The adit is caved, but it does have a discharge. The water had a pH of 8.9 and specific conductivity of 290, along with a healthy wetland vegetation. No environmental problem is indicated, though some iron and manganese stain is apparent. An open adit, not examined, is located approximately one-third mile further down the main road on the west side of the road. It should probably be gated as it is very visible to visitors.

REFERENCES


SITE INSPECTION REPORTS FOR MINES IN THE BULLION GULCH AREA
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
ID Number: 1D-0054-00027
Site/Mine Name: Jay Gould mine/Apache
IGS Number: HA-327
Primary Commodity: Ag-Pb
Area: 540/340

B. LOCATION DATA
USGS Quad: Richardson Summit
LAT: ___________ LONG: ___________ OR
UTM Coord: 4819270 N 708884 E Zone 11
Township: 2N Range: 17E Section: 22 Subdivision: NE/NW
Meridian: 08 County: 013

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: Right fork off left fork of road up Bullion Gulch. Road goes to large grey dump in gulch.

Recent human use: X Describe: tire tracks, beer cans, ammo

D. SITE DESCRIPTION
Acreage: ___________ Elevation: ___________
General slope (degrees): 0-10 ________ 11-35 X ________ >35 ________
Floodplain: Disturbance in ________ Adjacent to X ________ NA ________ Most on steep slopes
Recent mineral activity No ________ Describe: ___________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 2 / Closed adits 1+ / Open inclines ________ Closed inclines ________
Open shafts 2 / Closed shafts 0 / Stopes 1 open
Other openings ________ Type ________

Trenches ________ Length ________ Prospects 3+ / Open drill holes ________
Pits >30 ft. deep ________ Pits <30 ft. deep ________ Pit highwall length ________

Waste dumps: <0.1 ac 5 / 0.1 - 5 ac 1 / >5 ac 1 composite “dump 2”
Tailings: <0.1 ac 1 / 0.1 - 5 ac ________ / >5 ac ________
Heaps ________ Dredge ________ Dark grey remnant tails below Dump 1 in gulch. Literature (Pamphlet 90) notes tails fill gulch below Jay Gould Tunnel (Adit 1). Coarse, dark grey brown with some fines. Tails most likely taken for mill in 1950.

Ponds ________ Dams ________ Mills ________ Type ________
Explosives ________ Describe: ___________
Equipment/Machinery ? home made smelter, / Headframes ________ Trestles/tramways
Powerlines ________ iron boiler or furnace left
Structures 0 Type ________
Condition: Good ________ Fair ________ Poor ________ Number Locked ________

Homesties ________
Other: Stockpile 1- small dump below road from Adit 1 to Dump 2 is only place with any trace of sulfides.
ENVIROMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent ____
Evidence of natural revegetation: Y / Describe: Dumps have large trees, mostly conifers, and shrubs.

ANIMALS

GEOLOGY
Staining of soils Y / Describe: Large amount of brown iron oxide replacement of limestone.
Sulfide minerals N. Type(s): Limestone with mostly (99%) oxidized ore/waste. Only sulfides were trace pyrite, sphalerite seen in stockpile.
Tailings: Confined ____ / Unconfined X / Unknown ____

HYDROLOGY
Water flowing from workings: Y / pH 7.9 / Conductivity 280 / Flow (GPM) 5 / Sketch # Adit 1
Nice moss, sedges

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 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 ____
Power Substations ____ / Transformers ___

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

Other: ________________________________________________
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills N / Gullies / Sheetwash
Unstable Rock N / 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
_____ Permanent seal
_____ Gates
_____ Backfill openings, pit
_____ Recontour
X Fences
X Warning signs
_____ Plug open drill holes

Other: There are 2 dangerous shafts and 1 open stope - all raised to surface.
Though remote and on steep side slope, they would be easy to fall into. Fences and
warning signs are needed.

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  Yes  Rover File name:  HA 327
K. PHOTOGRAPHS
Number of photographs taken: Roll 98-9 (neg. 6738), frames #7-17  11 photos

L. ACTION
Site requires immediate investigation ___ by: Law Enforcement ___ / BLM ___
HAZMAT ___ / Other ________________________________
Reason: Dangerous areas require steep hike up hill. Otherwise they would pose
even greater hazard.

(03/95)
<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 (Jay Gould Tunnel)</td>
<td>?</td>
<td>3'</td>
<td>2'</td>
<td>OPEN with H2O discharge; vegetated. Main J.G. Tunnel.</td>
</tr>
<tr>
<td>Dump 1 (A.1)</td>
<td>150</td>
<td>100</td>
<td>50'</td>
<td>Grey siliceous argillite, limestone.</td>
</tr>
<tr>
<td>Other 1: stockpile</td>
<td>10</td>
<td>10</td>
<td>3</td>
<td>Dark brown rock, large pieces.</td>
</tr>
<tr>
<td>Dump 2 (upper end)</td>
<td>200+</td>
<td>80+</td>
<td>20+</td>
<td>No obvious source; dumps uphill?</td>
</tr>
<tr>
<td>Shaft 1</td>
<td>8'</td>
<td>4'</td>
<td>&gt;200' vertical</td>
<td>OPEN, **very dangerous.</td>
</tr>
<tr>
<td>Dump 3 (Sh.1)</td>
<td>60</td>
<td>30</td>
<td>2</td>
<td>Red brown color.</td>
</tr>
<tr>
<td>Prospect 1 Dump</td>
<td>20</td>
<td>6</td>
<td>4</td>
<td>In limestone.</td>
</tr>
<tr>
<td>Dump 4</td>
<td>100</td>
<td>40</td>
<td>2</td>
<td>Red brown.</td>
</tr>
<tr>
<td>Adit 2</td>
<td>250' only</td>
<td>4</td>
<td>2</td>
<td>OPEN 1'-2', remote.</td>
</tr>
<tr>
<td>Dump 5 (A.2)</td>
<td>50</td>
<td>30</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Stope 1</td>
<td>10'</td>
<td>5'</td>
<td>&gt; 50'</td>
<td>OPEN, **dangerous; with raise, tunnel.</td>
</tr>
<tr>
<td>Dump 6 (S.1)</td>
<td>60</td>
<td>50</td>
<td>8</td>
<td>Dark red brown.</td>
</tr>
<tr>
<td>Adit 3 and dump (not logged)</td>
<td>20</td>
<td>8</td>
<td>6</td>
<td>Caved.</td>
</tr>
<tr>
<td>Prospect 2</td>
<td>10</td>
<td>6</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Shaft 2 (Decline, -35°)</td>
<td>100' down, cut is 50'</td>
<td>10</td>
<td>100' ?</td>
<td>Stoped &amp; trenched, but caved. Also 50' cut.</td>
</tr>
<tr>
<td>Dump 7 (Sh.2)</td>
<td>80</td>
<td>30</td>
<td>5</td>
<td>Brown.</td>
</tr>
</tbody>
</table>

Field Notes: SEE SEPARATE PAGE FOR NOTES AND SKETCH MAP.

INSPECTED BY: M. Dunn. TITLE: IGS Geologist DATE: 7-15-98
FIELD NOTES:

Jay Gould Tunnel is Adit 1, according to map in IBMG Pamphlet 90.

Shaft 1 is open, vertical and very dangerous. It is accurately located on map in Pamphlet 90. Stope 1 strikes N50W, and dips 55° SW. It also is accurately shown in Pamphlet 90 map. The stope is along a gossan/jasper zone along a fault in limestone. Additional dumps are uphill.

“Dump 2” consists of many coalescing dumps on a side hill with and upper and lower limit. Full extent of Dump 2 is approximately 400' long, 20-50' wide near the gulch, and 100' up x 200' long on the side hill. Total covered area estimated at 5 acres. No definite source of the dump material was seen; only a few small pits or caved stopes.

Workings of the Jay Gould (HA-327) are located up the canyon above the left fork of the road up Bullion Gulch. A jeep trail ends at a large grey dump in bottom of the gulch. The workings of the Jay Gould mine and several other adjacent claims are accurately shown on Plate 3, the geologic and topographic map of the Mayflower and Red Elephant areas, in IBMG Pamphlet 90. That 1949 map should be used in conjunction with this checklist and inventory. Workings on the Jay Gould are principally on the Jay Gould and the War Eagle claims.

The 1949 map shows tailings in the bottom of Bullion Gulch and the side gulch extending up to just below the Jay Gould Tunnel, which was inventoried as Adit 1 (Figure 27-3). A modest flow of water discharges from the adit, but the pH of 7.9 and the healthy-looking moss and sedges suggest there is no environmental problem here. The country rock is limestone. The tailings appeared to have been partially excavated out of the bottom of the gulches. A large, historic iron boiler (or cylinder of unknown function) sits below the dump material at the Jay Gould and next to the tailings.

Major physical hazards at site ID-0054-00027, the Jay Gould property, include two open shafts and a stope, all shown in Plate 3, located on the steep, talus and dump-covered ridge west of Adit 1 and north of the gulch which extends westward up to the OK Tunnel (Other 2) dump. The OK Tunnel was mapped as part of the Red Elephant mine (HA-326) in 1997. Shaft 1 (Figure 27-6) lies along the Caledonia Fault and vein system. The modest red brown dump is below a small (8'x4') vertical-walled, wide open shaft which is difficult to see from the slope below. The shaft needs fencing and warning signs. Shaft 1 is approximately 400' NNE of the OK Tunnel dump.

Adit 2, which has a small opening, and Stope 1 are downhill and on the nose of the ridge. They are the uppermost of a nearly continuous line of dumps and workings. Stope 1 (Figure 27-9) is open; it has both a tunnel and a decline with steep walls. It also is dangerous.

Shaft 2 (Figure 27-11), a decline at minus 35 degrees, is at the top of a large coalescing group of dumps. It is partly caved, but a person could easily enter. Shaft 2 is closer to the road than the other open workings at site 00027. A fence and sign would be easy to install.
Figure 27-1. Sketch map of the Jay Gould Mine workings.
Jay Gould Mine Site
BLM#: ID-0054-00027
IGS#: HA-327

Problems:
Open shafts,
Lower adit near road.
Mine tailings.

Figure 27-2. Topographic map of the Jay Gould Mine site, Blaine County, Idaho (U.S. Geological Survey, Richardson Summit, 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-9</td>
<td>7</td>
<td>260</td>
<td>Adit 1 w/ vegetation - open, H2O: 2' high opening.</td>
</tr>
<tr>
<td>(neg. 6738)</td>
<td>8</td>
<td>030</td>
<td>Dump 1 - Main dump.</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>350</td>
<td>Dump 2 - Note collapsed building on far slope.</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>270</td>
<td>Shaft 1 - open and dangerous: on Caledonia vein. Person could easily fall in if approaching from above.</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>045</td>
<td>Note: limestone and FeOx.</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>280</td>
<td>Dump 5 - w/Pioneer or Boulder Mtns. in distance.</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>025</td>
<td>Adit 2 - open slightly: remote.</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>120</td>
<td>Stope 1. Tunnel with raise to the surface, looking down at ~70°.</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>330</td>
<td>Stope 1, horizontal portion and Dump 6. Looking down.</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>030</td>
<td>Shaft 2 decline - open. Looking down at ~35 degrees.</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>270</td>
<td>Mystery Equipment - Iron cylinder ~15' long, 3' wide w/ box on one end. 2&quot; diameter iron pipes go thru cylinder's center part.</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>290</td>
<td>Boiler (?) part of cylinder, opposite fire box??</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tailings by collapsed loading dock below Dump 1. Coarse tails, w/fines. May be jig tails?</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)

(03/95)
Figure 27-3. Adit 1 of Jay Gould mine. Adit has 2 foot high opening, with vegetation and water. The picture is looking to west. (Roll 98-9, neg. #6738, frame #7; photograph by V. S. Gillerman; July 15, 1998).

27-4. Dump 1, which is the main dump of Jay Gould mine. The picture is looking to northeast. (Roll 98-9, neg. #6738, frame #8; photograph by V. S. Gillerman; July 15, 1998).
Figure 27-5. Dump 2 of Jay Gould mine. Note the collapsed building on far slope. The picture is looking to north. (Roll 98-9, neg. #6738, frame #9; photograph by V. S. Gillerman; July 15, 1998).

Figure 27-6. Shaft 1 of Jay Gould mine is open and dangerous. It is located on Caledonia vein. A person could easily fall in if he/she approached shaft from above. Note limestone and FeOx. The picture is looking to west. (Roll 98-9, neg. #6738, frame #10; photograph by V. S. Gillerman; July 15, 1998).
Figure 27-7. Dump 5 of Jay Gould mine, with Pioneer or Boulder Mountains in distance. The picture is looking to northeast. (Roll 98-9, neg. #6738, frame #11; photograph by V. S. Gillerman; July 15, 1998).

Figure 27-8. Adit 2 of Jay Gould mine. Adit is open slightly and located in a remote area. The picture is looking to west. (Roll 98-9, neg. #6738, frame #12; photograph by V. S. Gillerman; July 15, 1998).
Figure 27-9. Stope 1, Jay Gould mine, with tunnel and raise to the surface. Looking down at 70 degrees. The picture is looking to north northeast. (Roll 98-9, neg. #6738, frame #13; photograph by V. S. Gillerman; July 15, 1998).

Figure 27-10. Stope 1, horizontal portion, and Dump 6, looking down. The picture is looking to southeast. (Roll 98-9, neg. #6738, frame #14; photograph by V. S. Gillerman; July 15, 1998).
Figure 27-11. Shaft 2, Jay Gould mine, with open decline. The picture is looking to north and down at 35 degrees. (Roll 98-9, neg. #6738, frame #15; photograph by V. S. Gillerman; July 15, 1998).

Figure 27-12. The mystery equipment at Jay Gould mine. Iron cylinder, 15 feet long, 3 feet wide with box on one end, and 2 inch diameter iron pipes thru cylinder's center part. The picture is looking to northeast. (Roll 98-9, neg. #6738, frame #16; photograph by V. S. Gillerman; July 15, 1998).
Figure 27-13. Boiler (?) part of cylinder, opposite fire box? The picture is looking to west. (Roll 98-9, neg. #6738, frame #17; photograph by V. S. Gillerman; July 15, 1998).

Figure 27-14. Tailings by collapsed loading dock below Dump 1 at Jay Gould mine. Tails are both coarse and fine and may be jig tails. The picture is looking to west. (Roll 98-9, neg. #6738, frame #18; photograph by V. S. Gillerman; July 15, 1998).
A. SITE IDENTIFICATION
ID Number: 1D 0 0 5 4 0 0 0 2 8
Site/Mine Name: Bullion Mill __ Primary Commodity: Pb-Ag __
IGS Number: HA-329M __________ 340/540

B. LOCATION DATA
USGS Quad: Richardson Summit __ LAT: ________ LONG: ________ OR
UTM Coord: **4817595 N **711655 E Zone 11
** Site ID point in ARCVIEW located at 4816211N, 711655E on NAD 27 topographic DRG.
Township: 2N Range: 17E Section: 25 Subdivision: NE/NW Meridian: 08 County: 013
Surface: BLM X / Non-BLM X Mineral Estate: BLM __/ Non-BLM __

C. ACCESS
Visible from: Nearest road _/ Trail _ Population center 1
Access by: 2wd X / 4wd _/ Hike _/ Other __
Access disturbance in need of reclamation: Length _/ Width _/ Acres __
Road Log: Adjacent to main road up Bullion gulch and only short distance off Croy Creek road west of Hailey
Recent human use: X Describe: traffic, trash abundant, ammo

D. SITE DESCRIPTION
Acreage: __________ Elevation: ________
General slope (degrees): 0-10 X / 11-35 _ / >35 _
Floodplain: Disturbance in X _/ Adjacent to _/ NA __
Recent mineral activity Yes _ Describe: In 1949 Apache Mining Co began operating a “100-ton mill for treatment of old tailings.” (Source of tailings is not clear in field, but some tailings appear to have been extracted from mines further up Bullion Gulch, such as the Jay Gould and Mayflower. The Red Elephant millsite is another possible source.)

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits _/ Closed adits _/ Open inclines _/ Closed inclines __
Open shafts _/ Closed shafts _/ Stopes 0
Other openings Type __________
Trenches _ Length __/ Prospects _/ Open drill holes __
Pits >30 ft. deep _/ Pits <30 ft. deep _/ Pit highwall length __
Waste dumps: (only 1 was GPS’d) <0.1 ac 3 / 0.1 - 5 ac _ / >5 ac __
Tailings: <0.1 ac _ / 0.1 - 5 ac _ / >5 ac _
Heaps _/ Dredge _ (Approx. 600’ x 100’)
Ponds _/ Dams _ (Breached earthen/tailings dam.)
Mills _ Type 3 __ Flotation presumably, 100-ton?
Explosives _ Describe: __________
Equipment/Machinery X remnants / Headframes _/ Trestles/tramways __
Powerlines __________
Structures 4 Type Old buildings - half-fallen down
Condition: Good _/ Fair X _ / Poor _/ Number Locked Q
Homesites 0 _ but new subdivision may be going in downstream
Other: Lots of junk and trash left at mill, including burned lumber, nails, glass.
More recent human litter left by campers and party goers on sandy, beach-like tailings.

29
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed X where driven on / Dead ___ / Nonexistent ___
Evidence of natural revegetation: Y ___ / Describe: Sage & aspen growing on/near
tails - plus grass/riparian vegetation downstream.

ANIMALS

GEOLOGY
Staining of soils N Describe: ____________________________
Sulfide minerals N Type(s): ____________________________
Tailings: Confined X ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: __ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: ____________________________
Water adjacent to tailings: 1 8.3 250 50 Site B
waste rock: ____________________________
ore: ____________________________
Creek flows alongside tailings
Adjacent water sources: Ground water: ____________________________
Surface water: ____________________________
Surface H2O above site: stream 8.1 250 50+ 150' site A
above tailings.
Surface H2O below site: stream 8.9 260 50 50' site C
Below tailings in jungle of lush vegetation.
Evidence of aquatic life: ___ Location: _________ Describe: ____________________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Brown ___ / Green ___ / Grey-Black X ___ / Other Very clear water.

Samples collected: ____ Sketch #(s): 1 tailings sample.

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 2 Leaking: 2 burned & open Contents: White powder,
lime?

Evidence of Underground Storage Tanks: ____ Describe: ____________________________

Other: Old oil cans ~ riddled with bullets, long empty.
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 X Trash / clean up
____ Other: Doze in shafts.

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 Yes Rover File name: HA 329m

K. PHOTOGRAPHS
Number of photographs taken: 8 photos, Roll 98-9 (Neg, #6738), frames #19-25; Roll 98-10
(Neg # 6767), frame #1.

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

Reason: Trash should be cleaned up & shafts covered or dozed in. Area has no
major hazards but is more of an eyesore. The high wall could be a hazard.
There is a (1997) new gravel road at lower Bullion Gulch, only 1/4-1/2 mile below
tailings dam. The property is subdivided with utilities in, ready for lot sales. The site
will be very close to these homes and recreational camping will probably increase at
the mill site.

(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>Shaft 1</td>
<td>5</td>
<td>5</td>
<td>20</td>
<td>OPEN, needs cover or closing. Dump is by road.</td>
</tr>
<tr>
<td>Mill</td>
<td></td>
<td></td>
<td></td>
<td>Clean up trash and mill remains.</td>
</tr>
<tr>
<td>Other 1: Building 1</td>
<td>50</td>
<td>30</td>
<td>30</td>
<td>Wood building w/ metal roof, in poor condition.</td>
</tr>
<tr>
<td>Other 2: Foundation</td>
<td>50</td>
<td>20</td>
<td></td>
<td>Concrete foundation to burned Quonset hut.</td>
</tr>
<tr>
<td>Shaft 2 or cellar?</td>
<td>5</td>
<td>3</td>
<td>30?</td>
<td>Open decline (?) in metal, pyramidal-shaped building.</td>
</tr>
<tr>
<td>Dump - shaft 2</td>
<td>10'</td>
<td>60'</td>
<td>2'</td>
<td>Dark grey.</td>
</tr>
<tr>
<td>Tailings Pile</td>
<td>fine, grey sandy textured</td>
<td></td>
<td></td>
<td>Abundant human trash and litter on pile. Partially vegetated.</td>
</tr>
<tr>
<td>Perimeter 1 - tailings pile</td>
<td>600'</td>
<td>100'</td>
<td>3'</td>
<td></td>
</tr>
<tr>
<td>Point 3</td>
<td></td>
<td></td>
<td></td>
<td>West end of tailings dam.</td>
</tr>
<tr>
<td>Point 4</td>
<td></td>
<td></td>
<td></td>
<td>East end of dam.</td>
</tr>
<tr>
<td>Prospect 1</td>
<td></td>
<td></td>
<td></td>
<td>Vegetated.</td>
</tr>
<tr>
<td>Dump 1</td>
<td>20</td>
<td>30</td>
<td>2</td>
<td>For Prospect 1.</td>
</tr>
</tbody>
</table>

Field Notes:

SEE NOTES and SKETCH MAP on following pages.
Field Notes:

Shaft 1 (Frame 19) is just above and east of main road. It is a small wood-timbered prospect shaft, with wood ladder, metal pipes. Could have been just for pump. Should be covered and sealed.

Mill had an approximately 100'x60' four-level, concrete foundation (Frames 20, 21, 24). It is burned with much scrap metal remaining, including sheet metal, nails, pipe, ovens, old metal drums some half filled with white powder probably lime, also old rubber tires, hose, a sluice box? There is a lot of junk that needs to be cleaned up, including much modern graffiti, bullet holes, and broken glass. The lower concrete wall is a 20'- high wall and kids playing on site could be in danger.

Bldg. 1 is extensively bullet-hole ridden (Frame 22). The floor is half caved in and walls shot out. The metal roof is in good shape, but structure should be demolished. A concrete pad foundation and junk metal sits nearby.

Shaft 2 (Frame 23) is a very odd-looking decline enclosed in small metal shack. Should demolish.

The Bullion Gulch mill site has several minor physical hazards, but does not appear to represent a significant environmental problem, judging from the healthy vegetation growing through the tailings pile as well as adjacent to the creek downstream of the breached tailings dam. However, being located immediately adjacent to the road up Bullion Gulch and less than a mile from the major Croy Creek road west of Hailey, the mill site has clearly attracted significant public interest. The foundations are within a hundred feet of the road and the entire site is easily visible from the Bullion Gulch road (Frame 20). This may increase when the new subdivision lots are developed a half mile down the road. Utility hookups were noticed for at least four or five lots next to a newly graveled section of the Bullion Gulch road.

The mill itself, which probably dated only from the late 1940’s, is no longer standing. What is left is an assortment of burned timbers, nails, sheet metal, pipe, rubber hoses and tires, broken glass and several concrete foundations, including one 20-foot high wall to the old mill (Frames 20, 21, 24). There are also two buildings still partially standing and at least two other concrete slabs for old buildings. The two shafts, one of which is marked as such on the topographic map and is just above the road, are only open a short distance now, but an inquisitive kid could climb into them. The shafts are probably not deep, but the surrounding wood structures do not look very stable (Frame 19, 23).

Extensive modern litter at the mill site and on the tailings pile, plus numerous bullet holes in the wood buildings attest to the mill site’s considerable use by the public as a camping and party spot and target range (Frame 22). A clean up of the milling-related, as well as the more recent human-related, trash is recommended. Destruction of the concrete high wall and bulldozing or covering the two small shafts would also help protect the public.

Although the tailings contain anomalous metal contents, the host rock to most deposits in the region includes a major amount of limestone. Perhaps because of that, the pH of the creek which flows through the tailings showed an increase in pH from above to below the tailings pile. The creek water is slightly basic, and the low specific conductivity of the water suggests that metal values are low in the water. The typically grey color suggests that oxidation of the tailings is not significant (Frame 25). The aspen, sage, and grass growing in the tailings also suggests that there is no significant environmental problem associated with the tailings (Frame 25, 1). The creek is probably too small and low gradient to transport the tail past the breached dam very often. And the lush vegetation downstream does not seem negatively impacted.
Figure 28-1. Sketch map of the Bullion Mill site.
Figure 28-2. Topographic map of the Bullion Mill site, Blaine County, Idaho (U.S. Geological Survey, Richardson Summit, 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-9</td>
<td>19</td>
<td>250</td>
<td>Shaft 1 - few timbers, above road. Concrete pad w/steel in background.</td>
</tr>
<tr>
<td>(Neg.6738)</td>
<td>20</td>
<td>250</td>
<td>Mill site - mill foundation w/old building in back.</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>330</td>
<td>Scrap &amp; junk on mill site (building).</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>320</td>
<td>Wood building 1 with bullet holes, floor and wall gone.</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>035</td>
<td>Shaft 2 interior. An open decline to ~30'. Caving in. There is recent can at bottom of shaft.</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>350</td>
<td>Mill site - from lower elevation</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>190</td>
<td>Tailings - fine &amp; sand-sized, w/human campfire &amp; party remains, and litter. Sagebrush grows on tailings, and there is lush riparian vegetation and aspen along adjacent creek.</td>
</tr>
<tr>
<td>98-10</td>
<td>1</td>
<td>325</td>
<td>Tailings - both unvegetated and with good sage &amp; aspen on tails. Note caliche (?) on top in places.</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: ________________________________ 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)
Figure 28-3. Shaft 1 at Bullion mill site is just a few timbers. Concrete pad in background is across road. Picture is looking to southwest. (Roll 98-9, neg. #6738, frame #19; photograph by V. S. Gillerman; July 16, 1998).

Figure 28-4. Bullion mill foundation with old building in back. Picture is looking to southwest. (Roll 98-9, neg. #6738, frame #20; photograph by V. S. Gillerman; July 16, 1998).
Figure 28-5. Scrap and junk on Bullion mill site. Picture is looking to northwest. (Roll 98-9, neg. #6738, frame #21; photograph by V. S. Gillerman; July 16, 1998).

Figure 28-6. Bullion mill, wood building 1 with bullet holes; floor and wall are gone. Picture is looking to northwest. (Roll 98-9, neg. #6738, frame #22; photograph by V. S. Gillerman; July 16, 1998).
Figure 28-7. Bullion mill shaft #2 interior - a decline open to 30 feet. Structure is caving in, but there is recent cren at bottom of shaft. Picture is looking to northeast. (Roll 98-9, neg. #6738, frame #23; photograph by V. S. Gillerman; July 16, 1998).

Figure 28-8. The Bullion mill site from lower elevation. Picture is looking to north. (Roll 98-9, neg. #6738, frame #24; photograph by V. S. Gillerman; July 16, 1998).
Figure 28-9. Bullion mill tailings, fine and sand sized, with campfire, party remains, and human litter. Sage brush grows on tailings, and there is lush riparian vegetation and aspen along adjacent creek. Picture is looking to south. (Roll 98-9, neg. #6738, frame #25; photograph by V. S. Gillerman; July 16, 1998).

Figure 28-10. Bullion mill tailings, un-vegetated and also with good sage and aspen cover. Note local caliche (?) on top. Picture is looking to northwest. (Roll 98-10, neg. #6737, frame #01; photograph by V. S. Gillerman; July 16, 1998).
A. SITE IDENTIFICATION

ID Number: 1 0 0 5 4 0 0 0 2 9
Site/Mine Name: Mayflower Mine
Primary Commodity: Ag-Pb
IGS Number: HA-328 540/340

B. LOCATION DATA

USGS Quad: Richardson Summit LAT: LONG: OR
UTM Coord: 4819134 N 708994 E Zone 11
Township: 2N Range: 17E Section: 22 Subdivision: NE/NW
Meridian: 08 County: 013 Blaine
Surface: BLM X / Non-BLM X Mineral Estate: BLM X / Non-BLM X?

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: ________________________________

Recent human use: X
Describe: Trash on road and in Adit 1

D. SITE DESCRIPTION

Acreage: _________________________ Elevation: _________________________
General slope (degrees): 0-10 ___ / 11-35 ___ / >35 Some of this.
Floodplain: Disturbance in ___ / Adjacent to ___ / NA Most on steep hills.
Recent mineral activity: No
Describe: ________________________________

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

Open adits 2 ___ / Closed adits 0 ___ / Open inclines ___ / Closed inclines ___
Open shafts 1 ___ / Closed shafts 0 ___ / Stopes 3 Big & open along Mayflower Lode.
Other openings ___ Type Miscellaneous open cuts.
Trenches 1 ___ Length 30' ___ / Prospects 3 ___ / Open drill holes ___
Pits >30 ft. deep Stope 1 ___ / Pits <30 ft. deep ___ / Pit highwall length 25' high walls on stopes

Waste dumps: <0.1 ac 4 ___ / 0.1 - 5 ac 1 ___ / >5 ac ___
Tailings: <0.1 ac 0 ___ / 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: ________________________________
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: Y / Describe: Conifers.

ANIMALS
Evidence: Yes / Presence: Yes / Describe: Deer.

GEOLOGY
Staining of soils No / Describe: ____________________________
Sulfide minerals No / Type(s): Oxide Ore - FeOx Gossan replacement in limestone.
Tailings: Confined No / Unconfined No / Unknown No

HYDROLOGY

<table>
<thead>
<tr>
<th>Dry</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water flowing from workings: ____________
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 #(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: ______ NO

Evidence of Underground Storage Tanks: ______ Describe: ____________________________

Other: ____________________________

__________________________
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills No / Gullies No / Sheetwash No
Unstable Rock No / Slope instability No / Wind erosion No

MITIGATION STATUS
None X / Fencing / Signs O / Safety hazards mitigated O
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: Open stopes.

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 Yes Rover File name: HA 328

K. PHOTOGRAPHS
Number of photographs taken: 5 photos, Roll 98-10, (Neg. # 6737), frames #2-6.

L. ACTION
Site requires immediate investigation _by: Law Enforcement ____ / BLM ____
HAZMAT ____ / Other ____________________________

Reason: Site has major physical hazards, but they are fairly inaccessible. Approach from uphill side could result into a fall into the stopes with vertical walls. All are in heavy tree cover.

(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>Mayflower Adit 1 Tunnel</td>
<td>open at least 50'</td>
<td>4'</td>
<td>2'</td>
<td>OPEN. With air flow. Needs grate.</td>
</tr>
<tr>
<td>Dump 1</td>
<td>50'</td>
<td>200'</td>
<td>30'</td>
<td>OK, large dump with narrow extension.</td>
</tr>
<tr>
<td>Shaft 1</td>
<td>12'</td>
<td>8'</td>
<td>&gt;100'</td>
<td>*OPEN, dangerous.</td>
</tr>
<tr>
<td>Dump 2</td>
<td>100</td>
<td>30</td>
<td>6</td>
<td>Grey limestone.</td>
</tr>
<tr>
<td>*Stope 1 - May Flower lode</td>
<td>250'</td>
<td>30'</td>
<td>20'</td>
<td>Stope, very dangerous from uphill side.</td>
</tr>
<tr>
<td>Trench 1</td>
<td>30</td>
<td>5</td>
<td>5</td>
<td>Along Mayflower Lode.</td>
</tr>
<tr>
<td>Stope 2</td>
<td>~60</td>
<td>10</td>
<td>40</td>
<td>Open, dips 60 degree, dangerous.</td>
</tr>
<tr>
<td>Adit 2</td>
<td>10' then caved</td>
<td>5'</td>
<td>2'</td>
<td>Open 10', caved inside.</td>
</tr>
<tr>
<td>Stope 3</td>
<td>100</td>
<td>15</td>
<td>15'</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:
Recent beer cans next to Adit 1, which is in good solid limestone and excellent condition. Good, air conditioned airflow and size of dump suggests that Adit 1 is Mayflower Tunnel. Stope 1 is hidden in trees; it forms connected series of open cuts, stopes, glory holes with 20-30' vertical shear drop from uphill side. Several declines and open stopes along it; though part is caved and looks more like a trench. Some inviting openings for explorers. DANGEROUS!!!

Trench 1 - along continuation of Mayflower Lode - 6' massive Fe-silica jasperoid
Stope 2 - No GPS due to thick tree canopy - more trenches
Stope 3 - Generally OK.
Figure 29-1. Sketch map of the Mayflower Mine site.
Mayflower Mine Site
BLM#: ID-00054-00029
IGS#: HA-328

Figure 29-1. Topographic map of the Mayflower Mine, Blaine County, Idaho (U.S. Geological Survey, Richardson Summit, 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>98-10</td>
<td>2</td>
<td>220</td>
<td>Mayflower Tunnel (Adit 1)</td>
</tr>
<tr>
<td>neg. 6737</td>
<td>3</td>
<td>230</td>
<td>Shaft 1 - Open with 50 degree plunge</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>300</td>
<td>Stope1 - only part of it is in photo. Note decline on far side</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>140</td>
<td>Timbered stope/ ~5' wide, strikes N55W, dip 70 degrees SW.</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>340</td>
<td>Stope 3 (NW end) where lode changes trend.</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: ____________________________ 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)
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Affiliation</th>
<th>Comments</th>
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</tr>
</tbody>
</table>

ID Number: ID-0054-00029
IGS: HA-328

03/95
Figure 29-3. Mayflower Tunnel (Adit 1). Picture is looking to southwest. (Roll 98-10, neg. #6737, frame #2a; photograph by V. S. Gillerman; July 16, 1998).

Figure 29-4. Shaft 1 of Mayflower Mine; it is open with 50 degree plunge. Picture is looking to southwest. (Roll 98-10, neg. #6737, frame #3; photograph by V. S. Gillerman; July 16, 1998).
Figure 29-5. Stope 1 of Mayflower mine, only part of it is in photo. Note decline on far side. Picture is looking to northwest. (Roll 98-10, neg. #6737, frame #4; photograph by V. S. Gillerman; July 16, 1998).

Figure 29-6. Timbered stope, 5 feet wide, strikes N55W, dip 70 degrees SW. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #5; photograph by V. S. Gillerman; July 16, 1998).
Figure 29-7. Stope 3 (NW end) where lode changes trend. Picture is looking to north northwest. (Roll 98-10, neg. #6737, frame #6; photograph by V. S. Gillerman; July 16, 1998).
### A. SITE IDENTIFICATION

<table>
<thead>
<tr>
<th>ID Number:</th>
<th>1 D 0 0 5 4 0 0 3 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site/Mine Name:</td>
<td>Bullion Mine</td>
</tr>
<tr>
<td>Primary Commodity:</td>
<td>Ag-Pb</td>
</tr>
<tr>
<td>IGS Number:</td>
<td>HA-329</td>
</tr>
<tr>
<td></td>
<td>540/340</td>
</tr>
</tbody>
</table>

### B. LOCATION DATA

- **USGS Quad**: Richardson Summit
- **LH**:
- **LONG**: E
- **Zone**: 11
- **Township**: 2N
- **Range**: 17E
- **Section**: 22
- **Subdivision**: NW/NE
- **Meridian**: 08
- **County**: 013
- **Surface**: BLM X / Non-BLM X
- **Mineral Estate**: BLM X / Non-BLM X

### C. ACCESS

- Visible from: Nearest road 3 / Trail / Population center 1
- Access by: 2wd X / 4wd / Hike / Other
- Access disturbance in need of reclamation: Length / Width / Acres
- **Road Log**: Old trail up from road junction in Bullion Gulch

### D. SITE DESCRIPTION

- **Acreage**: __________
- **Elevation**: __________
- **General slope (degrees)**: 0-10 / 11-35 X / >35 Very steep
- **Floodplain**: Disturbance in / Adjacent to / NA X
- **Recent mineral activity**: no

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

- **Open adits**: 1 / Closed adits 0 / Open inclines / Closed inclines
- **Open shafts**: 0 / Closed shafts / Stope 0
- **Other openings**
  - **Type**: __________
- **Trenches**
  - **Length**: __________
  - **Prospects**: 1 / Open drill holes
- **Pits >30 ft. deep** / **Pits <30 ft. deep**: 1 / Pit highwall length 40'
- **Waste dumps**:<0.1 ac / 0.1 - 5 ac / >5 ac Coalescing dumps.
- **Tailings**:<0.1 ac / 0.1 - 5 ac / >5 ac
- **Heaps**: / Dredge
- **Ponds**: / Dams
- **Mills**
  - **Type**: __________
- **Explosives**
  - **Describe**:
- **Equipment/Machinery**
  - **Headframes**: / Trestles/tramways
- **Powerlines**
  - **At Pit 1 rusty generator - 4'x2'x3' on skids.**
- **Structures**
  - **Type**: __________
- **Condition**: Good / Fair / Poor / Number Locked
- **Homesites**: __________

### Other:

---

**54**
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: Y / Describe: Conifers, sage and brush on sunny slope.

ANIMALS

GEOLOGY
Staining of soils: No / Describe:
Sulfide minerals: No / Type(s): All Oxide minerals - Fe gossan in limestone / jasperoid
Tailings: Confined: No / Unconfined: No / Unknown: No

HYDROLOGY
Dry 
Water flowing from workings: 
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:

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
Petroleum Products / Dump sites
Power Substations / Transformers

Barrels, Tanks, Containers: Leaking: Contents: NO

Evidence of Underground Storage Tanks: Describe:

Other:
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills No / Gullies No / Sheetwash No
Unstable Rock No / Slope instability No / Wind erosion No

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
- Permanent seal
- Gates X
- Backfill openings, pit
- Recontour
- Fences
- Warning signs
- Plug open drill holes
- Other: Adit 1 is open, but not real inviting. This is a fairly benign property.

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 Yes Rover File name: HA 329

K. PHOTOGRAPHS
Number of photographs taken: 5 photos, roll 98-10 (Neg# 6737), frames #7-11.

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

(03/95)
## BLM AML INVENTORY FIELD CHECKLIST

**ID Number:** ID-0054-00030  
**IGS:** HA-329

### 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>Dump 1</td>
<td>60</td>
<td>30</td>
<td>5</td>
<td>OK. Source, none obvious. On south facing 35° sage covered slope.</td>
</tr>
<tr>
<td>Dump 2</td>
<td>80</td>
<td>20</td>
<td>2</td>
<td>No source.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>60</td>
<td>30</td>
<td>4</td>
<td>Flat spot above it.</td>
</tr>
<tr>
<td>Pit 1</td>
<td>50'</td>
<td>60'</td>
<td>High wall up to 25' high</td>
<td>OK. Minor danger with high wall.</td>
</tr>
<tr>
<td>Dump 6</td>
<td>80</td>
<td>100'</td>
<td>20'</td>
<td>For Pit 1.</td>
</tr>
<tr>
<td>Prospect 1</td>
<td>20</td>
<td>60</td>
<td>4</td>
<td>Very old pit, in solid rock, with 10&quot; dia Douglas fir in prospect.</td>
</tr>
<tr>
<td>Dump 4</td>
<td>80</td>
<td>50</td>
<td>5</td>
<td>Source? Caved Stopes?</td>
</tr>
<tr>
<td>Other 1</td>
<td></td>
<td></td>
<td></td>
<td>Near end of Mayflower claims and stopes.</td>
</tr>
<tr>
<td></td>
<td>Claim boundary</td>
<td>Near end of Mayflower</td>
<td>claims/stopes</td>
<td></td>
</tr>
<tr>
<td>Dump 5</td>
<td>80</td>
<td>80</td>
<td>5</td>
<td>Source? Caved stopes?</td>
</tr>
<tr>
<td>Adit 1</td>
<td>50'</td>
<td>4'</td>
<td>2'</td>
<td>Open.</td>
</tr>
<tr>
<td>Dump 7</td>
<td>70</td>
<td>40</td>
<td>10</td>
<td>On Ophir property, on old road.</td>
</tr>
</tbody>
</table>

Field Notes:
Source for Dump 1 may be hidden in thick trees, willows and bushes, or caved in. Thick tree in Prospect 1.

Old rusty diesel engine, sits on Dump 6 by Pit 1.
Rock is limestone with Fe rich jasperoid and gossan.
Workings must be very old.
HA-329 consists of features on Bullion claim using map in Pamphlet 90.

---

**INSPECTED BY:** M. Dunn  
**TITLE:** IGS Geologist  
**DATE:** 7-16-98

**INSPECTED BY:** V. Gillerman  
**TITLE:** IGS Geologist  
**DATE:** 7-16-98

(03/95)
Figure 30-1. Sketch map of the Bullion Mine site.
Figure 30-1. Topographic map of the Bullion Mine site, Blaine County, Idaho (U.S. Geological Survey, Richardson Summit, 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-10</td>
<td>7</td>
<td>210</td>
<td>Dump 2 - small, no source. Very old prospect- caved &amp; vegetated.</td>
</tr>
<tr>
<td>Neg. #6737</td>
<td>8</td>
<td>130</td>
<td>From Dump 5 looking at dumps from Bullion workings, down ravine.</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>220</td>
<td>Pit 1 - with high wall</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>320</td>
<td>Pit 1 with lode above it and Dump 5 below trench.</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>140</td>
<td>Adit 1, open with leaf nest, timbered and good shape.</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:
ACMEC _____ / WSA _____ / Wilderness Area _____ / Riparian Area _____
Nominated for Designation to National Wild & Scenic River System _____

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

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

E. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action _____
CERCLIS Number ____________________________ OR
Federal Docket Number ____________________________

F. 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)
I. INTERVIEWS

Name ____________________________________________
Address ____________________________________________________________________________

Phone ____________________________________________
Affiliation ______________________________________
Comments: _________________________________________________________________________

______________________________________________________________________________

Name ____________________________________________
Address ____________________________________________________________________________

Phone ____________________________________________
Affiliation ______________________________________
Comments: _________________________________________________________________________

______________________________________________________________________________

Name ____________________________________________
Address ____________________________________________________________________________

Phone ____________________________________________
Affiliation ______________________________________
Comments: _________________________________________________________________________

______________________________________________________________________________

(3/95)
Figure 30-3. Dump 2 of Bullion Mine, which is small, no source. Very old prospect, it is caved and vegetated. Picture is looking to west. (Roll 98-10, neg. #6737, frame #7; photograph by V. S. Gillerman; July 16, 1998).

Figure 30-4. From Dump 5, looking at dumps from Bullion workings down ravine. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #8; photograph by V. S. Gillerman; July 16, 1998).
Figure 30-5. Pit 1 with high wall. Picture is looking to southwest. (Roll 98-10, neg. #6737, frame #9; photograph by V. S. Gillerman; July 16, 1998).

Figure 30-6. Pit 1 with lode above it and Dump 5 below trench. Picture is looking to northwest. (Roll 98-10, neg. #6737, frame #10; photograph by V. S. Gillerman; July 16, 1998).
Figure 30-7. Adit 1, which is open with leaf nest, timbered and good shape. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #11; photograph by V. S. Gillerman; July 16, 1998).
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
ID Number: 1 D - 0 0 5 4 - 0 0 0 3 1
Site/Mine Name: Ophir/Brown Mine Primary Commodity: 540 Ag-Pb
IGS Number: HA-331

B. LOCATION DATA
USGS Quad: Richardson Summit LAT: _______ LONG: _______ OR
UTM Coord: 4818664 N 709371 E Zone 11
Township: 2N Range: 17E Section: 22 Subdivision: NW NE SW NE
Meridian: 08 County: 013
Surface: BLM X / Non-BLM X Mineral Estate: BLM X / Non-BLM X

C. ACCESS
Visible from: Nearest road 1 / Trail 0 / Population center 1
Access by: 2wd ___ / 4wd ___ / Hike X / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Trails and old road through woods.

Recent human use: Y Describe: Beer cans.

D. SITE DESCRIPTION
Acreage: _______ Elevation: _______
General slope (degrees): 0-10 ___ / 11-35 X / >35 X
Floodplain: Disturbance in ___ / Adjacent to X NA X Mostly NA
Recent mineral activity NO Describe: _______

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 3 / Open inclines ___ / Closed inclines ___
Open shafts 3 / Closed shafts 0 / Stopes 0
Other openings ___ Type _______
Trenches ___ Length _______/ Prospects 2 big ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length _______
Waste dumps: < 0.1 ac 7 / 0.1 - 5 ac 1 / >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 Collapsed building, outhouse.
Condition: Good ___ / Fair ___ / Poor X / Number Locked 0
Homesites ___
Other: _______

66
ENVIRONMENTAL FEATURES

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

ANIMALS

GEOLOGY
Staining of soils No Describe:
Sulfide minerals No Type(s): All oxide - gossan in limestone.
Tailings: Confined No / Unconfined No / Unknown ?

HYDROLOGY
Durango tunnel With lush vegetation

<table>
<thead>
<tr>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.9</td>
<td>290</td>
<td>15</td>
<td>Adit 4</td>
</tr>
</tbody>
</table>

Water flowing from workings: 1
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: see mill site

Evidence of aquatic life: yes Location: Adit 4 Describe: Diving beetles, watercress, wetlands.

Water bed color: White X / Yellow / Yellow-Orange / Orange
Brown X / Green / Grey-Black X some / Other Clear water.

Samples collected: 0 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: ________________________________

______________________________

______________________________

______________________________

______________________________

______________________________
BLM AML INVENTORY FIELD CHECKLIST  

ID Number: ID-0054-00031  
IGS: HA-331

H. RECLAMATION

SITE CONDITIONS
Erosion: Rills No / Gullies No / Sheetwash ___
Unstable Rock No / Slope instability No / Wind erosion ___

MITIGATION STATUS
None X / Fencing ___ / Signs 0 ___ / Safety hazards mitigated ___
Other:

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

OPTIONAL: Identify the critical reclamation measures needed

X Cable nets, grates
X Permanent seal
X Gates
X Backfill openings, pit
X Recontour
X Fences
X Warning signs
X Plug open drill holes

Other: The three open, near vertical shafts are very dangerous and need a permanent closure and/or fence. The shafts are surrounded by thick forest and are not easily seen until one is next to edge of shaft.

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: HA 331

K. PHOTOGRAPHS
Number of photographs taken: 8 photos taken. Roll 98-10. frames #12-19.

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

Reason: __________________________________________
_________________________________________________
_________________________________________________
<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>Prospect 1</td>
<td>10</td>
<td>20</td>
<td>5</td>
<td>At end of old road Also site ID point.</td>
</tr>
<tr>
<td>Adit 1* including dump</td>
<td>40</td>
<td>15</td>
<td>3</td>
<td>Caved in trees.</td>
</tr>
<tr>
<td>Shaft 1* (Durango Shafts)</td>
<td>15</td>
<td>15</td>
<td>VERY DEEP</td>
<td>*OPEN-VERY DANGEROUS-ONLY 3' APART.</td>
</tr>
<tr>
<td>Shaft 2*</td>
<td>10</td>
<td>10</td>
<td>VERY DEEP</td>
<td>*OPEN-VERY DANGEROUS-ONLY 3' APART.</td>
</tr>
<tr>
<td>Shaft 3</td>
<td>8</td>
<td>8</td>
<td>OPEN AND DEEP</td>
<td>*OPEN DECLINE 50 DEGREES.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>60</td>
<td>80</td>
<td>4</td>
<td>For all shafts.</td>
</tr>
<tr>
<td>Prospect 2/Dump 2</td>
<td>50</td>
<td>60</td>
<td>4</td>
<td>15' high wall 20' long-in limestone.</td>
</tr>
<tr>
<td>Adit 2</td>
<td>2</td>
<td>3</td>
<td>&gt;40</td>
<td>Open on road.</td>
</tr>
<tr>
<td>Dump 4</td>
<td>60</td>
<td>20</td>
<td>4</td>
<td>Overgrown.</td>
</tr>
<tr>
<td>Dump 6/ Dump 7</td>
<td>60-150</td>
<td>20-100</td>
<td>5-20</td>
<td>Coalescing, vegetated dump by Main Bullion Gulch road.</td>
</tr>
<tr>
<td>Adit 4</td>
<td></td>
<td></td>
<td></td>
<td>Caved with H20. Durango tunnel.</td>
</tr>
<tr>
<td>Dump 8</td>
<td>60</td>
<td>200</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes: *Shafts 1, 2 and 3 are the Durango Shafts. They appear to be very old, and are surrounded by trees and hard to spot. DURANGO SHAFTS are VERY DANGEROUS.
HA-331 includes features on Bullion claim, Ophir claim, Oneida and Indian Queen claims.
Note: A highly visible open adit on west side of main road about one-third mile downstream from Adit 4/Dump 8 was not examined.

INSPECTED BY: V. Gillerman  TITLE: IGS Geologist  DATE: 7-16-98
INSPECTED BY: M. Dunn  TITLE: IGS Geologist  DATE: 7-16-98

(03/95)
Durango Shafts - Open and DANGEROUS

Shaft 3
20' highwall above shafts
Shaft 1 (vertical)
\[\angle 50^\circ\]
Shaft 2
Adit 1
Site ID Point and Prospect 1
Old Road
Adit 2
To Bullion Mine
Adit 3
(Brown tunnel)
Collapsed loading dock and timbers
Wood frame on tree

Note: Prospect 1 and dump below may be caved
Ophir Shaft

Figure 31-1. Sketch map of the Ophir/brown Mine site.
Figure 31-1. Topographic map of the Ophir Mine/Brown, Blaine County, Idaho (U.S. Geological Survey, Richardson Summit, 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-10</td>
<td>12</td>
<td>~160</td>
<td>Shaft #1-w/Mike looking at it.</td>
</tr>
<tr>
<td>neg. #6737</td>
<td>13</td>
<td>~160</td>
<td>Shaft#1-Durango shaft, pen looking straight down vertical square, sheer walls.</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>090</td>
<td>Shaft#2-looking down and at overhanging edge. Shaft is open.</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>280</td>
<td>Shaft#3-decline open.</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>240</td>
<td>Adit#3-caved portal w/timbers &amp; rails, could be small opening, behind dirt pile- check when do shaft.</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>210</td>
<td>Adit#4-caved w/H20, lush vegetation-grass, sedge, roses, birch tree, moss.</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>240</td>
<td>Water discharge from Adit #4 with lush vegetation.</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>150</td>
<td>Dump #8 - Durango Tunnel.</td>
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BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

ID Number: ID-0054-00031
IGS: HA-331

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: ________________

E. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action _____
CERCLIS Number ___________________________ OR
Federal Docket Number ___________________________

F. 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)
# BLM AML INVENTORY
## SUPPLEMENTAL OFFICE DATA SHEET

## I. INTERVIEWS

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03/95
Figure 31-3. Shaft 1 with geologist Mike looking at it. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #12; photograph by V. S. Gillerman; July 16, 1998).

Figure 31-4. Shaft 1 - Durango shaft, open and looking straight down vertical, square, sheer walls. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #13; photograph by V. S. Gillerman; July 16, 1998).
Figure 31-5. Shaft 2 - looking down and at overhanging edge. Picture is looking to east. (Roll 98-10, neg. #6737, frame #14; photograph by V. S. Gillerman; July 16, 1998).

Figure 31-6. Shaft 3 - decline open. Picture is looking to west. (Roll 98-10, neg. #6737, frame #15; photograph by V. S. Gillerman; July 16, 1998).
Figure 31-7. Adit 3 - caved portal with timbers and rails, which could be small opening behind dirt pile - check when do shaft. Picture is looking to southwest. (Roll 98-10, neg. #5737, frame #16; photograph by V. S. Gillerman; July 16, 1998).

Figure 31-8. Adit 4 - caved with water, lush vegetation, most of them are grass, sedge, roses, birch tree and moss. Picture is looking to southwest. (Roll 98-10, neg. #6737, frame #17; photograph by V. S. Gillerman; July 16, 1998).
Figure 31-9. Water discharge from Adit 4 with lush vegetation. Picture is looking to southwest. (Roll 98-10, neg. #6737, frame #18; photograph by V. S. Gillerman; July 16, 1998).

Figure 31-10. Dump 8 - Durango Tunnel. Picture is looking to southeast. (Roll 98-10, neg. #6737, frame #19; photograph by V. S. Gillerman; July 16, 1998).