
Virginia S. Gillerman
Forrest S. Griggs

Idaho Geological Survey
Morrill Hall, Third Floor
University of Idaho
Moscow, Idaho 83844-3014

Virginia S. Gillerman
Forrest S. Griggs

Staff Reports present timely information for public distribution. This publication may not conform to the agency's standards.
Report originally prepared in 2000 for the U.S. Bureau of Land Management
Under Participating Agreement No.1422-D910-A3-0206, Task Order #4

Field Inspection conducted by Virginia S. Gillerman and Mike Dunn
CONTENTS

GEOLOGY ............................................................................. 5
HAZARD ASSESSMENT .......................................................... 7
  Site ID-0054-00026: Eureka Mine/New York-Idaho Exploration Co. HA-320. .... 8
  Site ID-0054-00032: Bay State Mine (HA-315)/Upper Bullion Gulch. ............ 8
REFERENCES ........................................................................ 9
SITE INSPECTION REPORTS FOR MINES IN THE UPPER BULLION GULCH ...... 10
  Eureka Mine/ New York-Idaho Exploration Co. ............................................ 11
  Bay State Mine ........................................................................... 36

ILLUSTRATIONS

Figure 1. Location map of Upper Bullion Gulch area and vicinity near Hailey and Bellevue, Blaine County, Idaho (United States Forest Service Sawtooth National Forest Map, Scale: 1/2"= 1 mile). ................................................................. 6
Figure 26-1. Sketch map of the New York-Idaho Exploration Company property and Eureka Mine site. ................................................................. 17
Figure 26-2. Topographic map of Site 00026, New York-Idaho Exploration Company, Blaine County, Idaho (U.S. Geological Survey, Mahoney Butte 7.5 minute topographic map). 18
Figure 26-3. Adit 1, caved. The picture is looking 260°. (Roll 98-8, neg. #6741, frame #7; photograph by V. S. Gillerman; July 15,1998). ...................................................... 23
Figure 26-4. Adit 2 with water and vegetation. The picture is looking 230°. (Roll 98-8, neg. #6741, frame #8; photograph by V. S. Gillerman; July 15,1998). ...................... 23
Figure 26-5. Adit 2 close up of moss and water discharge. The picture is looking 210°. (Roll 98-8, neg. #6741, frame #9; photograph by V. S. Gillerman; July 15,1998). ............. 24
Figure 26-6. Dump 2 from distance. Note good sage/steppe vegetation. The picture is looking 220°. (Roll 98-8, neg. #6741, frame #10; photograph by V. S. Gillerman; July 15,1998). .............................................. 24
Figure 26-7. Adit 3 in gray limestone. Note: solid siderite (?) Gossan exposed in prospect at this elevation. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #11; photograph by V. S. Gillerman; July 15,1998). .............................................. 25
Figure 26-8. Dump 5. Large dump near creek. The picture is looking 360°. (Roll 98-8, neg. #6741, frame #12; photograph by V. S. Gillerman; July 15,1998). ...................... 25
Figure 26-9. Adit 4. Caved, under large Douglas fir tree. In gray limestone. The picture is looking 240°. (Roll 98-8, neg. #6741, frame #13; photograph by V. S. Gillerman; July 15,1998). ...................................................... 26
Figure 26-10. Adit 5, with heavy vegetation. The picture is looking 270°. (Roll 98-8, neg. #6741, frame #14; photograph by V. S. Gillerman; July 15,1998). ...................... 26
Figure 26-11. Dumps 3 and 4, with fir trees. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #15; photograph by V. S. Gillerman; July 15,1998). ........................................... 27

Figure 26-12. Building 1, by road. Wood frame, metal roof, walls nearly gone. The picture is looking 330°. (Roll 98-8, neg. #6741, frame #16; photograph by V. S. Gillerman; July 15,1998). ........................................... 27

Figure 26-13. Large dump by creek and Building 1. The picture is looking 200°. (Roll 98-8, neg. #6741, frame #17; photograph by V. S. Gillerman; July 15,1998). ........................................... 28

Figure 26-14. Adit 6/Dump 6, from below. Adit 9 in front. The picture is looking 250°. (Roll 98-8, neg. #6741, frame #18; photograph by V. S. Gillerman; July 15,1998). ........................................... 28

Figure 26-15. Adit 9, caved. The picture is looking 250°. (Roll 98-8, neg. #6741, frame #19; photograph by V. S. Gillerman; July 15,1998). ........................................... 29

Figure 26-16. Creek through Dump 9. The picture is looking 120°. (Roll 98-8, neg. #6741, frame #20; photograph by V. S. Gillerman; July 15,1998). ........................................... 29

Figure 26-17. Shaft 1 and buildings. The picture is looking 160°. (Roll 98-8, neg. #6741, frame #21; photograph by V. S. Gillerman; July 15,1998). ........................................... 30

Figure 26-18. Sheep by Shaft 1. The picture is looking 090°. (Roll 98-8, neg. #6741, frame #22; photograph by V. S. Gillerman; July 15,1998). ........................................... 30

Figure 26-19. Headframe for Shaft 1, with Mr. Fisher. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #23; photograph by V. S. Gillerman; July 15,1998). ........................................... 31

Figure 26-20. Dump 7 with Adit 7 cut. Upper dump not examined, probably caved. The picture is looking 270°. (Roll 98-8, neg. #6741, frame #24; photograph by V. S. Gillerman; July 15,1998). ........................................... 31

Figure 26-21. Building 3, a 2-story boarding house (?) with stairs. The picture is looking 350°. (Roll 98-9, neg. #6738, frame #1; photograph by V. S. Gillerman; July 15,1998). ........................................... 32

Figure 26-22. Hoist house interior. Big timbers, wheel, cable intact. The picture is looking ~040°. (Roll 98-9, neg. #6738, frame #2; photograph by V. S. Gillerman; July 15,1998). ........................................... 32

Figure 26-23. Shaft 1 headframe. The picture is looking 165°. (Roll 98-9, neg. #6738, frame #3; photograph by V. S. Gillerman; July 15,1998). ........................................... 33

Figure 26-24. Back side of headframe, collapsed loading dock below, with ore chute. The picture is looking 050°. (Roll 98-9, neg. #6738, frame #4; photograph by V. S. Gillerman; July 15,1998). ........................................... 34

Figure 26-25. Building 2, walls caving in. 2' double wall with rock fill in between. The picture is looking 150°. (Roll 98-9, neg. #6738, frame #5; photograph by V. S. Gillerman; July 15,1998). ........................................... 35

Figure 26-26. Dump 10, from Shaft 1. The picture is looking 170°. (Roll 98-9, neg. #6738, frame #6; photograph by V. S. Gillerman; July 15,1998). ........................................... 35

Figure 32-1. Area map of Bay State Mine, rover file R 071715a. ........................................... 41

Figure 32-2. Topographic map of site R071715A, Blaine County, Idaho, (from the U.S. Geological Survey, Mahoney Butte 7.5 minute topographic map). ........................................... 42

Figure 32-3. Upper Main Adit 2 and road with Dump 3. View looking 200° (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 20). ........................................... 46
Figure 32-4. Adit 8, near road, with middle adits 6 and 7. View looking 150° (Photograph by V.S. Gillerman, July 7, 1998, roll 98-10, neg# 6737, frame 21). ........................................... 46

Figure 32-5. Adit 2. Caved main adit. View looking 230° (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 22). ......................................................... 47

Figure 32-6. Adit 4, 1' opening in dark brown gossan replacement. It would require movement of rocks at the portal to enter. View looking 230° (Photograph by V.S. Gillerman, July 7, 1998, roll 98-10, neg# 6737, frame 23). ......................................................... 47

Figure 32-7. Adit 8, caved. Large brown dump is closest to creek and road. View looking 230° (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 24). .... 48

TABLES

Table 1. Summary of sites in Upper Bullion Gulch area, Blaine County, Idaho. ...................... 7
GEOLOGY

The Upper Bullion Gulch area (Figure 1), as covered in this report, consists of the segment of Bullion Gulch north of 43°30', the northern boundary of the Richardson Summit 7 1/2 minute topographic quadrangle. This portion of Bullion Gulch is located on the Mahoney Butte 7 1/2 minute topographic quadrangle in Section 15, T2N, R17E. Mines in Upper Bullion Gulch were inspected as sites ID-0054-00026 and ID-0054-00032. Unfortunately, the accurate names of workings, as mapped in 1930 were not known by the field geologists prior to the field investigation. Consequently, the names and IGS identification numbers have had to be revised from what was input in the field for the GPS files. The area was a modest-sized producer and is approximately a half mile north of the larger mines in the main Bullion Gulch area (ID-0054-00027 to 00031) along the Mayflower Lode system (see Gillerman and Griggs, 2000).

The geology of upper Bullion Gulch was mapped by R.W. Landwehr and published as Plate 20 in Umpleby, et al. (1930, U.S.G.S. Bulletin 814). At that time, the property was owned by the New York-Idaho Exploration Company, who in 1923 had acquired the claims of several of the lead-silver mines which were on the same lode system and had been active in the 1880's. In the vicinity of the Eureka and Whale mines (Site 26), Landwehr mapped two units: a shale, described as siliceous and calcareous with some interbedded limestone, and a limestone, described as dark to light gray with some interbedded shale. Near the Bay State mine (Site 32) Landwehr’s map also shows fault-bounded slices of a quartzite unit along with shale and limestone, plus a granite intrusion on the northeast side of Bullion Gulch.

More recent work by Link and others (1995) correlates the sediments with the Lower Member of the Pennsylvanian-Permian Dollarhide Formation and names the granite as the Deer Creek Stock, a Cretaceous hornblende-biotite granodiorite. The same Lower Dollarhide unit is also exposed at workings of the Red Elephant mine and the numerous mines in the Bullion Gulch area (see previous AML reports by Gillerman and Mitchell, 1999; Gillerman and Griggs, 2000). 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 (Link and others, 1995). The Cretaceous age Deer Creek Stock 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).

Although the Cretaceous plutons do metamorphose the sediments in some locales (Lindgren, 1900), no calc-silicate minerals were seen during the field investigations and Umpleby also reported that mines of the New York-Idaho Exploration Company do not show much of the effects of metamorphism. The veins and workings generally show a northwest-trending structural orientation similar to the Red Elephant and Bullion Gulch areas. Gossan was noted alongside several of the old workings. Primary minerals included galena, sphalerite, and pyrite with minor tetrahedrite in a gangue of altered country rock, quartz, siderite, and calcite. Descriptions of the mines and structural geology can be found in Umpleby and others (1930).
Figure 1. Location map of Upper Bullion Gulch area and vicinity near Hailey and Bellevue, Blaine County, Idaho (United States Forest Service Sawtooth National Forest Map, Scale: 1/2" = 1 mile).
HAZARD ASSESSMENT

SUMMARY

Mine hazards in Upper Bullion Gulch are summarized in Table 1. Overall, the workings in Upper Bullion Gulch are significantly less hazardous than those in the main Bullion Gulch area further south. Most of the adits on the New York-Idaho Exploration Company property are caved and many are difficult to access except by foot. However, the area does see some traffic and visitors. Some workings, notably the Eureka Shaft, are adjacent to a road. A wayward sheep was seen hanging out on the dump around the Eureka Shaft, so it is likely that sheep also graze the area. The Eureka Shaft is open and should be grated or at least fenced off and posted “No Trespassing.” The nearby wood buildings and impressive head frame are partially collapsed but include some historic features, including the hoist cable and winch. If possible, the historic features should be saved. They are all clearly visible and only someone who is consciously entering them is in danger.

The open adits are remote and barely open, but Adit 7 should probably be dozed shut if work is being done at the site. Environmental hazards appear to be minimal, though if work is being done, some dump material could be moved out of the stream channel. This is all low priority work, except for the shaft, which is probably a “moderate” priority item.

Table 1. Summary of sites in Upper 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 (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-0054-00026 (Rover file: HA-315)</td>
<td>HA-320</td>
<td>Eureka Mine</td>
<td>2AO, 8AC 1SO 3P</td>
<td>Wood buildings</td>
<td>Main shaft is open with headframe. Need fence, sign, and rehab?</td>
</tr>
<tr>
<td>ID-0054-00032 (R071715a)</td>
<td>HA-315</td>
<td>Bay State/Upper Bullion Gulch</td>
<td>1AO, 7AC 2P</td>
<td></td>
<td>No action needed.</td>
</tr>
</tbody>
</table>
SITE ID-0054-00026: EUREKA MINE/NEW YORK-IDAHO EXPLORATION CO. (HA-320)

The features mapped at Site 26 cover a large area in the southeastern quarter of Section 15, T2N, R17E. The site is accessed from Hailey by going west on the Croy Creek road, north on the main dirt road up Bullion Gulch, and continuing right a half mile past the turnoff to the Jay Gould mine (Site ID-0054-00027). A new subdivision plat is located in lower Bullion Gulch near the Croy Creek main access road. The GPS data file and site name during the field investigation was HA-315, the Bay State mine or New York-Idaho. Literature review and evaluation of the field-mapped features subsequently showed that our original name was in error. Site 26 actually covers the workings of several mines, all of which were part of the New York-Idaho Exploration Company in 1930, and appear to have not had much work since the 1930's. These mines include the Eureka, the Chicago, the Garfield, King of the Hills, and Homestake claim. The Eureka mine (HA-320) and its shaft (Shaft 1) are the most prominent feature at the site. The open shaft, a steep decline, sits on a large flat-topped dump next to the road and has a large wooden headframe. Nearby are a partially collapsed hoist house, boarding house and possible powder house. The wood structures are somewhat dangerous should anyone try climbing on or entering the buildings. The shaft should be examined by an engineer to see the best way to close it or grate it, while hopefully preserving some of the historic headframe and hoist house.

Adit 9, probably the Whale Tunnel, and its dump are next to the road. The creek flows through the dump. The adit was closed and the dump consisted largely of limestone. The creek and its riparian vegetation appeared healthy; below the dump the creek had a pH of 8.4 and conductivity of 200. Adit 7, further up the hill has a 2'-high opening, but is guarded by nettles.

Adit 2 is the only other open working. It is located high on the ridge further up the gulch. It is most likely the Day Tunnel on the Garfield claim. It also has a 2'-high opening with a small amount of water discharge, measured at a pH of 8.6 and conductivity of 270. Moss and other riparian vegetation abound and suggest there is no environmental problem.

SITE ID-0054-00032: BAY STATE MINE (HA-315)/UPPER BULLION GULCH

This site was logged under Rover file R071715a since its identification was unknown at the time of the field visit. It is shown as the Bay State mine in Umpleby (1930), and was part of the New York-Idaho Exploration Company property. The workings are at the uppermost end of Bullion Gulch. A jeep trail extends up to a spring near the Site ID point, and from there a more tenuous jeep trail climbs uphill to Adit 2 and thence to the north over the pass into Narrow Gauge Gulch and onto Forest Service ground. Fresh tire tracks showed that even these remote adits and roads are visited. Several medium-size dumps dot the hillside on the southeast of Bullion Gulch, and old trails connect them to the main road. All of the workings were caved and the dumps well vegetated, suggesting their old age. The country rock is shale and limestone with granite exposed at Adit 1 on the northeast side of the main canyon. The only open working was at Adit 4, a small (1-foot) opening into a gossan replacement in the limestone. That area was difficult to access or find, and it is not considered a significant hazard. The stream in Bullion Gulch was clear and supported excellent riparian habitat on and below the site.
REFERENCES


SITE INSPECTION REPORTS FOR MINES IN THE UPPER BULLION GULCH
A. SITE IDENTIFICATION
ID Number: 1D00540026
Site/Mine Name: New York-Idaho/Eureka Mine
Primary Commodity: 540/340 Ag-Pb
IGS Number: HA-320 (Rover file named HA-315).

B. LOCATION DATA
USGS Quad: Mahoney Butte
LAT: ___ LONG: ___ OR
UTM Coord: 4820149 N 709225 E Zone 11 AND Township: 2N Range: 17E
Section: 15 Subdivision: NW/SE Meridian: 08 County: 013
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 X / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ Width ___ / Acres ___
Road Log: Good road to Shaft 1, 4WD after that
Recent human use: X Describe: People out for drive, beer cans, ammo shell casings
Homesites ___

D. SITE DESCRIPTION
Acreage: ___________ Elevation: ___________
General slope (degrees): 0-10 ___ / 11-35 X / >35 ___
Floodplain: Disturbance in ___ / Adjacent to X / NA ___
Recent mineral activity ___ Describe: Not recent

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 2 / Closed adits 8 / Open inclines ___ / Closed inclines ___
Open shafts 1 / Closed shafts ___ / Stopes ___
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 9+ / 0.1 - 5 ac 2 / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___ A few prospects and
Heaps ___ / Dredge ___ Ponds ___ / Dams ___ dumps Not GPS'd.
Mills 0 Type ___ / ___ Explosives ___ Describe: ___
Equipment/Machinery Hoist / Headframes 1 / Trestles/tramways 0
Powerlines ___
Structures 4 Type Wood buildings, also 2 cement foundations
Condition: Good ___ / Fair 4 / Poor ___ / Number Locked 0 Homesites ___
Other: 2 cement foundations, misc. wood scraps with nails, old stove, junk. Nails hazardous

form: amiform99.blm
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent ____
Evidence of natural revegetation: X / Describe: Shrubs, aspen, conifers.

ANIMALS
Evidence: X / Presence: X / Describe: 3 deer seen, 1 sheep, abundant elk and deer droppings, abundant bugs.

GEOLOGY
Staining of soils No Describe: Minor outcrop is Fe gossan.
Sulfide minerals No Type(s): Possible oxide Pb mineral, sphalerite (?) / siderite (?)
Tailings: Confined No / Unconfined No / Unknown No

HYDROLOGY
Type pH Conductivity Flow (GPM) Sketch #
Water flowing from workings: __ 8.6 270 3 Adit 2
Standing water in workings: ____ ____ ____ ____
Water through/over tailings: ____ ____ ____ ____
waste rock: 2 8.6 210 30 Dump 9 - B
ore: ____ ____ ____ ____

Adjacent water sources:
Ground water: Type pH Conductivity Flow (GPM) Distance
Surface water: ____ ____ ____ ____
Surface H2O above site: Creek 7.6 180 30 10' above at A
Surface H2O below site: Creek 8.4 200 30 10' below at C

Water bed color: White ____ / Yellow ____ / Yellow-Orange ____ / Orange ____
Brown Adit 2 / Green Dump 9 / 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 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
X Fences _____ Wildlife closure
_____ Warning signs _____ No action
_____ Plug open drill holes _____ Trash / clean up
_____ Other: Fence and signs needed around shaft by road. Open adits are barely open and remote.

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-315
(Property name not accurately known in field, so GPS file is HA-315, minesite is HA-320).

K. PHOTOGRAPHS
Number of photographs taken: 24 photographs: roll 98-9 (Neg. #6741) frames 7-24,
roll 98-9 (Neg. #6738) frames 1-6.

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>15'</td>
<td>15'</td>
<td>10'</td>
<td>OK.</td>
</tr>
<tr>
<td>Prospect 2</td>
<td>35'</td>
<td>15'</td>
<td>3'</td>
<td>Tiny Dump.</td>
</tr>
<tr>
<td>Adit 1</td>
<td></td>
<td></td>
<td></td>
<td>Caved and vegetated.</td>
</tr>
<tr>
<td>Dump 1</td>
<td>60'</td>
<td>60'</td>
<td>30'</td>
<td>Heavily vegetated.</td>
</tr>
<tr>
<td>Prospect 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit 2</td>
<td>?</td>
<td>3'</td>
<td>2'</td>
<td>Open, unknown length, with H₂O.</td>
</tr>
<tr>
<td>Dump 2</td>
<td>120'</td>
<td>50'</td>
<td>20'</td>
<td>Dark gray, heavily vegetated.</td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Side Hill Cut</td>
<td>50'</td>
<td>2'</td>
<td></td>
<td>Adjacent to Adit 3.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>40'</td>
<td>100'</td>
<td>10'</td>
<td>With Fe gossan?</td>
</tr>
<tr>
<td>Adit 4</td>
<td></td>
<td></td>
<td></td>
<td>Caved, under fir tree.</td>
</tr>
<tr>
<td>Dump 4</td>
<td>120'</td>
<td>30'</td>
<td>10'</td>
<td>Light brown, OK.</td>
</tr>
<tr>
<td>Adit 5</td>
<td></td>
<td></td>
<td></td>
<td>Caved, near creek, heavy vegetation.</td>
</tr>
<tr>
<td>Dump 5</td>
<td>50'</td>
<td>50'</td>
<td>10'</td>
<td>Old, sage on top.</td>
</tr>
<tr>
<td>Adit 6</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Dump 6</td>
<td>80'</td>
<td>35'</td>
<td>10'</td>
<td>Open, nettles at portal.</td>
</tr>
<tr>
<td>Adit 7</td>
<td>20'</td>
<td>3'</td>
<td>2'</td>
<td></td>
</tr>
<tr>
<td>Dump 7</td>
<td>70'</td>
<td>30'</td>
<td>8'</td>
<td></td>
</tr>
<tr>
<td>Adit 8</td>
<td></td>
<td></td>
<td></td>
<td>Caved, small.</td>
</tr>
<tr>
<td>Dump 8</td>
<td>60'</td>
<td>15'</td>
<td>2'</td>
<td>Small dump, light brown.</td>
</tr>
<tr>
<td>Adit 9</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Dump 9 (Perimeter 1)</td>
<td>120'</td>
<td>50'</td>
<td>30'</td>
<td>Creek goes through it.</td>
</tr>
<tr>
<td>Feature</td>
<td>Length</td>
<td>Width</td>
<td>Height or Depth</td>
<td>Mitigation</td>
</tr>
<tr>
<td>------------------</td>
<td>--------</td>
<td>-------</td>
<td>----------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Shaft 1 Eureka Shaft</td>
<td>10'</td>
<td>10'</td>
<td>30'+</td>
<td>Open, 65° decline to 050. Head-frame and hoist house.</td>
</tr>
<tr>
<td>Dump 10</td>
<td></td>
<td></td>
<td></td>
<td>For Shaft 1. Perimeter 2; large.</td>
</tr>
<tr>
<td>Adit 10</td>
<td></td>
<td></td>
<td></td>
<td>Caved.</td>
</tr>
<tr>
<td>Dump 11</td>
<td>50'</td>
<td>30'</td>
<td>4'</td>
<td>For Adit 10.</td>
</tr>
<tr>
<td>Other 2</td>
<td></td>
<td></td>
<td></td>
<td>Building 2.</td>
</tr>
<tr>
<td>Other 3</td>
<td>25'</td>
<td>20'</td>
<td>40'</td>
<td>Building 3, 2 story, wood and metal.</td>
</tr>
<tr>
<td>Hoist House</td>
<td>10'</td>
<td>10'</td>
<td>10'</td>
<td>Wood, 20' from Shaft 1 with winch and cable intact.</td>
</tr>
</tbody>
</table>

Field Notes: See following page.

INSPECTED BY: **V. Gillerman** TITLE: **IGS Geologist** DATE: **7-15-98**
INSPECTED BY: **M. Dunn** TITLE: **IGS Geologist** DATE: **7-15-98**
Site 00026 includes workings in Bullion Gulch, approximately 1/2 mile further up the canyon from the Jay Gould turn off. The hills are mostly covered with sagebrush and grass, but trees line the creek in the bottom of Bullion Gulch. The country rock is dominantly black, siliceous argillite with much limestone and is mapped as the Lower Member of the Pennsylvanian-Permian Dollarhide Formation. A granodioritic stock is exposed further up the canyon. The mine was listed in the initial database as “Bay State/New York and HA-315”. Thus, the rover file was named HA-315 in the field and the computer files are so labelled. However, the workings logged at Site 00026 actually include parts of several mines, all owned by the New York-Idaho Exploration Company in 1930, according to the principal reference: Umpleby et al. in USGS Bulletin 814. The map in Plate 20 of Bulletin 814 shows the individual mine workings, names, claims, and geologic and topographic features. The workings mapped at Site 00026 were very similar to those shown in Plate 20, suggesting that little work had been done in the area since the 1930’s. The IGS number for the Eureka mine (HA-320) is probably the best one for the site; the Bay State mine is actually further up the canyon and in fact was logged as ID-0054-00032 with Rover File R071715a, and named “Upper Bullion Gulch.” Mines inspected as part of site ID-0054-00026 include:

The Eureka Shaft (Shaft 1) of the Eureka Mine (HA-320) is prominently located on a large dump next to the main road with a wooden head frame and partially collapsed, wood hoist house with concrete foundation. The shaft is open, and tourists and local prospectors visit the area. The shaft is the most hazardous - and historic - feature at the site. The adjacent buildings include the hoist house with cable and winch intact, and a 2-story wood boarding house (Building 3) with a metal roof. Building 2 at the south end of the dump may have been a powder house. Plate 20 in USGS Bulletin 814 shows a portal of the Eureka Tunnel approximately 100 feet south of the shaft. The portal was not seen in the field investigation and is presumed caved.

According to Umpleby et al., (1930, USGS Bull. 814) the property of the New York-Idaho Exploration Company also includes the Whale, Idahoan, Bay State, Garfield and King of the Hills mines, all on the same lode system and all silver-lead producers in the 1880’s. New York-Idaho Exploration Company acquired the mines in 1923 but ceased operations in 1924. Ore minerals included galena, sphalerite, pyrite and minor tetrahedrite (?) in a gangue of quartz, siderite, and calcite. Massive iron gossan replacing limestone was seen in exposures near Adit 3. A review of Umpleby's maps (especially Plate 9, a 1:62500 scale claim map of the large Mineral Hill Mining District, and Plate 20, a 1"=200' topographic and geologic map of the Property of the New York-Idaho Exploration Company with geology by R.W. Landwehr) shows that the workings at site ID-0054-00032 (Rover File R071715a) are actually those of the Bay State Mine (HA-315), and the workings at Site 00026 are principally those of the Eureka (HA-320), Whale (HA-319), Garfield (HA-318), Chicago (HA-316), and King of the Hills (HA-317) mines. The Idahoan mine should be located in the next gulch to the east and was not visited during the field exam of Site 00026.

Above the Eureka Shaft, old wagon trails and roads lead to some adits. The roads stop and start and are heavily overgrown in places. Adit 9, which is caved, is adjacent to and on the west side of the main road and creek. Surface water samples above, within, and below Dump 9 were slightly alkaline and with normal specific conductivities (200uS), suggesting no environmental problems. Dump 9 consists predominantly of limestone and recrystallized limestone with lesser argillite and gossan. Abundant elk, deer, and horse tracks and droppings were scattered near Dump 9. Adit 7 is open and only a short distance from the road, but up a steep hill. Nettles guard the portal. Adit 2, further up the gulch and high on the northeast-facing slope, is open and discharging water. Healthy vegetation and clear water suggest no significant environmental problem.

Based on a review of Plate 20 in Bulletin 814, the following correlations are made:
Shaft 1 = Eureka Shaft of Eureka mine (HA-320) on the Eureka claim;
Adit 1 = Chicago Tunnel (HA-316), Chicago claim;
Adit 2 = Day Tunnel, Garfield Claim;
Adits 3 and 4 = Garfield Tunnel, Garfield mine and claim (HA-318);
Adit 5 = King of the Hills mine (HA-317), Granite Tunnel;
Adit 7 = Homestake claim ?;
Adit 9 = Whale Tunnel, Whale claim and mine (HA-319).
Figure 26-1. Sketch map of the New York-Idaho Exploration Company property and Eureka Mine site.
Figure 26-2. Topographic map of Site 00026, New York-Idaho Exploration Company, Blaine County, Idaho (U.S. Geological Survey, Mahoney Butte 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>98-8 (Neg #6741)</td>
<td>7</td>
<td>260</td>
<td>Adit 1, caved.</td>
</tr>
<tr>
<td>&quot;</td>
<td>8</td>
<td>230</td>
<td>Adit 2 with water and vegetation.</td>
</tr>
<tr>
<td>&quot;</td>
<td>9</td>
<td>210</td>
<td>Adit 2 close up of moss and water discharge.</td>
</tr>
<tr>
<td>&quot;</td>
<td>10</td>
<td>220</td>
<td>Dump 2 from distance. Note good sage/steppe vegetation.</td>
</tr>
<tr>
<td>&quot;</td>
<td>11</td>
<td>170</td>
<td>Adit 3, in gray limestone. Note: solid siderite(?) gossan exposed in prospect at this elevation.</td>
</tr>
<tr>
<td>&quot;</td>
<td>12</td>
<td>360</td>
<td>Dump 5. Large dump near creek.</td>
</tr>
<tr>
<td>&quot;</td>
<td>14</td>
<td>270</td>
<td>Adit 5, with heavy vegetation.</td>
</tr>
<tr>
<td>&quot;</td>
<td>15</td>
<td>170</td>
<td>Dumps 3 and 4, with fir tree.</td>
</tr>
<tr>
<td>&quot;</td>
<td>16</td>
<td>330</td>
<td>Building 1, by road. Wood frame, metal roof, walls nearly gone.</td>
</tr>
<tr>
<td>&quot;</td>
<td>17</td>
<td>200</td>
<td>Large dump by creek and Building 1.</td>
</tr>
<tr>
<td>&quot;</td>
<td>18</td>
<td>250</td>
<td>Adit 6/Dump 6 from below, Adit 9 in front.</td>
</tr>
<tr>
<td>&quot;</td>
<td>19</td>
<td>250</td>
<td>Adit 9, caved.</td>
</tr>
<tr>
<td>&quot;</td>
<td>20</td>
<td>120</td>
<td>Creek through Dump 9.</td>
</tr>
<tr>
<td>&quot;</td>
<td>21</td>
<td>160</td>
<td>Shaft 1 and buildings.</td>
</tr>
<tr>
<td>&quot;</td>
<td>22</td>
<td>090</td>
<td>Sheep by Shaft 1.</td>
</tr>
<tr>
<td>&quot;</td>
<td>23</td>
<td>170</td>
<td>Headframe for Shaft 1, with Mr. Fisher.</td>
</tr>
<tr>
<td>&quot;</td>
<td>24</td>
<td>270</td>
<td>Dump 7 with Adit 7 cut. Upper dump not examined, probably caved.</td>
</tr>
<tr>
<td>98-9 (Neg #6738)</td>
<td>1</td>
<td>350</td>
<td>Building 3, 2 story boarding house(?) with stairs.</td>
</tr>
<tr>
<td>&quot;</td>
<td>2</td>
<td>~040</td>
<td>Hoist house interior, big timbers, wheel, cable intact.</td>
</tr>
<tr>
<td>Number</td>
<td>98-9 (Neg #6738)</td>
<td>3</td>
<td>165</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------</td>
<td>---</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td>&quot;</td>
<td>4</td>
<td>050</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;</td>
<td>5</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;</td>
<td>6</td>
<td>170</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: __________________________ 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)
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Address</td>
</tr>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Address</td>
</tr>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
</tr>
</tbody>
</table>
Figure 26-3. Adit 1, caved. The picture is looking 260°. (Roll 98-8, neg. #6741, frame #7; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-4. Adit 2 with water and vegetation. The picture is looking 230°. (Roll 98-8, neg. #6741, frame #8; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-5. Adit 2 close up of moss and water discharge. The picture is looking 210°. (Roll 98-8, neg. #6741, frame #9; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-6. Dump 2 from distance. Note good sage/steppe vegetation. The picture is looking 220°. (Roll 98-8, neg. #6741, frame #10; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-7. Adit 3 in gray limestone. Note: solid siderite (?) Gossan exposed in prospect at this elevation. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #11; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-8. Dump 5. Large dump near creek. The picture is looking 360°. (Roll 98-8, neg. #6741, frame #12; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-9. Adit 4. Caved, under large Douglas fir tree. In gray limestone. The picture is looking 240°. (Roll 98-8, neg. #6741, frame #13; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-10. Adit 5, with heavy vegetation. The picture is looking 270°. (Roll 98-8, neg. #6741, frame #14; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-11. Dumps 3 and 4, with fir trees. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #15; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-12. Building 1, by road. Wood frame, metal roof, walls nearly gone. The picture is looking 330°. (Roll 98-8, neg. #6741, frame #16; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-13. Large dump by creek and Building 1. The picture is looking 200°. (Roll 98-8, neg. #6741, frame #17; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-14. Adit 6/Dump 6, from below. Adit 9 in front. The picture is looking 250°. (Roll 98-8, neg. #6741, frame #18; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-15. Adit 9, caved. The picture is looking 250°. (Roll 98-8, neg. #6741, frame #19; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-16. Creek through Dump 9. The picture is looking 120°. (Roll 98-8, neg. #6741, frame #20; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-17. Shaft 1 and buildings. The picture is looking 160°. (Roll 98-8, neg. #6741, frame #21; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-18. Sheep by Shaft 1. The picture is looking 090°. (Roll 98-8, neg. #6741, frame #22; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-19. Headframe for Shaft 1, with Mr. Fisher. The picture is looking 170°. (Roll 98-8, neg. #6741, frame #23; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-20. Dump 7 with Adit 7 cut. Upper dump not examined, probably caved. The picture is looking 270°. (Roll 98-8, neg. #6741, frame #24; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-21. Building 3, a 2-story boarding house (?) with stairs. The picture is looking 350°. (Roll 98-9, neg. #6738, frame #1; photograph by V. S. Gillerman; July 15, 1998).

Figure 26-22. Hoist house interior. Big timbers, wheel, cable intact. The picture is looking ~040°. (Roll 98-9, neg. #6738, frame #2; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-23. Shaft 1 headframe. The picture is looking 165°. (Roll 98-9, neg. #6738, frame #3; photograph by V. S. Gilleran; July 15, 1998).
Figure 26-24. Back side of headframe, collapsed loading dock below, with ore chute. The picture is looking 050°. (Roll 98-9, neg. #6738, frame #4; photograph by V. S. Gillerman; July 15, 1998).
Figure 26-25. Building 2, walls caving in. 2' double wall with rock fill in between. The picture is looking 150°. (Roll 98-9, neg. #6738, frame #5; photograph by V. S. Gillerman; July 15,1998).

Figure 26-26. Dump 10, from Shaft 1. The picture is looking 170°. (Roll 98-9, neg. #6738, frame #6; photograph by V. S. Gillerman; July 15,1998).
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 2
Site/Mine Name: Bay State Mine / Upper Bullion Gulch Primary Commodity: 540 Ag-Pb
IGS Number: HA-315 / Rover file R071715a

B. LOCATION DATA
USGS Quad: Mahoney Butte LAT: ____________ LONG: ____________ OR
UTM Coord: 4820698 N 708282 E Zone 11
Township: 2N Range: 17E Section: 15 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 __ / 4wd X / Hike __ / Other __
Access disturbance in need of reclamation: Length __ / Width __ / Acres __
Road Log: Near spring at end of jeep trail - all the way up Bullion Gulch. Several adits are marked on topo map.
Recent human use: X Describe: fire tracks

D. SITE DESCRIPTION
Acres: __________________ Elevation: ____________________
General slope (degrees): 0-10 __ / 11-35 X / >35 X
Floodplain: Disturbance in __ / Adjacent to ___ / NA X
Recent mineral activity no Describe: __________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 7 / Open inclines __ / Closed inclines __
Open shafts 0 / Closed shafts 0 / Stopes 0
Other openings 0 Type __________________
Trenches 0 Length ______ / Prospects 2 / Open drill holes __
Pits >30 ft. deep 0 / Pits <30 ft. deep __ / Pit highwall length __
Waste dumps:<0.1 ac 10 / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds No / Dams ___
Mills No Type ___, ____
Explosives ___ Describe: __________________________
Equipment/Machinery __ / Headframes __ / Trestles/tramways NO
Powerlines ___
Structures __ Type ______
Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___
Homesites __________
Other: __________________________________________
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: Y / Describe: Shrubs, sage, grass, conifers.

ANIMALS
Evidence: Y / Presence: Y / Describe: Tracks, chipmunk

GEOLOGY
Staining of soils No / Describe: Minor local Fe stain by iron gossan in intrusive area.
Sulfide minerals No / Type(s): All oxide minerals on dump.
Tailings: Confined No / Unconfined / Unknown

HYDROLOGY
Dry
Water flowing from workings: 
Standing water in workings: 
Water through/over tailings:
    waste rock: 
    ore: 
Adjacent water sources: Type
    Ground water: 
    Surface water: Stream looks great.
    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: ______ NO
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: _______________________________________

No action needed. Only 1 adit had tiny opening; vigorous hike needed to find that inconspicuous adit.

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:  R071715a

K. PHOTOGRAPHS
Number of photographs taken:  5 photographs, Roll 98-10, neg# 6737, frames #20-24.

L. ACTION
Site requires immediate investigation __by: Law Enforcement ____/ BLM ____
HAZMAT ____/ Other No action needed.

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit 1/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 1</td>
<td>40'</td>
<td>20'</td>
<td>8'</td>
<td>Caved, east of road.</td>
</tr>
<tr>
<td>Prospect 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dozer cut/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 2</td>
<td>20'</td>
<td>50'</td>
<td>2'</td>
<td>OK.</td>
</tr>
<tr>
<td>Adit 2/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 3</td>
<td>80'</td>
<td>120'</td>
<td>10'</td>
<td>Caved; main adit on road.</td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>no photo</td>
<td>Caved 100' above Dump 3.</td>
</tr>
<tr>
<td>Prospect 2</td>
<td>20'</td>
<td>5'</td>
<td>5''</td>
<td>Vegetated.</td>
</tr>
<tr>
<td>Adit 4/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 4</td>
<td>20' open</td>
<td>2'</td>
<td>1'</td>
<td>OPEN in Fe gossan replacement.</td>
</tr>
<tr>
<td></td>
<td>30'</td>
<td>20'</td>
<td>3'</td>
<td></td>
</tr>
<tr>
<td>Adit 5/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 5</td>
<td>100'</td>
<td>40'</td>
<td>10'</td>
<td>Caved, vegetated.</td>
</tr>
<tr>
<td>Adit 6/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 6</td>
<td>80'</td>
<td>40'</td>
<td>20'</td>
<td>Caved, vegetated.</td>
</tr>
<tr>
<td>Adit 7/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 7</td>
<td>on map</td>
<td>40'</td>
<td>20'</td>
<td>Caved, with large brown dump.</td>
</tr>
<tr>
<td></td>
<td>100'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit 8/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump 8</td>
<td>100'</td>
<td>80'</td>
<td>20'</td>
<td>Caved, intrusive rocks outcrop, some argillite also on dump.</td>
</tr>
</tbody>
</table>

Field Notes:

See following page.

---

**INSPECTED BY:** Virginia Gillerman  **TITLE:** IGS Geologist  **DATE:** 7-17-98  
**INSPECTED BY:** Mike Dunn  **TITLE:** IGS Geologist  **DATE:** 7-16-98

(03/95)
Field Notes:

The topographic map shows a jeep trail going to Adit 2, which is high on the hill and has one of the most prominent waste dumps at the site. The road continues beyond Adit 2 towards the saddle over to Forest Service land at Narrow Gauge Gulch. Recent tire tracks were seen on the road.

All of the adits were very old and caved except for Adit 4, which is a very old opening into a massive (40' x 20') outcrop of iron gossan, probably composed largely of siderite originally or perhaps magnetite. It is now goethite. The gossan replaced the host rock, which is composed of limestone and siliceous argillite with some quartzite. Prospect 1, north of the creek, and Adit 8, the main lower dump, are located in outcropping quartz monzonite or granite. The stream, which is partially sourced from a spring near the Site ID point, was clear and supported excellent riparian habitat on and below the site.

As the geologist's did not have all the literature before the field visit, we were not sure which mine this was and thus labelled the site as “Upper Bullion Gulch” since it is near the head of Bullion Gulch. The site ID was logged in with the Rover file number R071715a. That remains correct. However a subsequent review of Plate 20 in USGS Bulletin 814 (Upleby, 1930) shows clearly that the workings logged in as GPS file R071715a and BLM site number ID-0054-00032 actually belong to the Bay State Mine (HA-315), part of the holdings of the New York-Idaho Exploration Company in 1930. Unfortunately, a previously visited site (ID-0054-00026) approximately 3/4 of a mile down Bullion Gulch, was thought to be the Bay State Mine and New York-Idaho property and logged with the HA-315 number as the GPS rover file. Based on the map (plate 20) in Bulletin 814, the site ID-0054-00026 should have been labelled as the Eureka mine (HA-320) but also includes workings of the Whale Tunnel, Garfield, Chicago, and Homestake mines, all of which are in close proximity and were controlled by the New York-Idaho Exploration Company in 1930. They have probably seen little work since the 1930's. The checklist for site ID-0054-00026 contains more details on those properties.

Using the map in Upleby's USGS Bulletin 814 for the Bay State mine area and the features logged at Site ID-0054-00032, Upper Bullion Gulch, the following correlations of specific mine workings with those present in 1930 at the Bay State property (HA-315) are suggested:

Adit 8 is Bay State No. 1 Tunnel, the lowest elevation working and collared in “granite;”
Adit 7 is Bay State No. 2 Tunnel;
Adit 6 is Bay State No. 3 Tunnel, driven into sediments.
All the above three tunnels were actually located on the Thanksgiving claim.

Adits 2, 3, and 4 are workings on the Bay State vein which cuts limestone interbedded with carbonaceous shale, according to the 1930 geologic map. These surface workings are actually on the Bay State claim. All of the workings were part of the New York-Idaho Exploration Company property in 1930. The current owner, if there is one, is unknown.
Figure 32-1. Area map of Bay State Mine, rover file R 071715a.
Figure 32-2. Topographic map of site R071715A, Blaine County, Idaho, (from the U.S. Geological Survey, Mahoney Butte 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 (neg# 6737)</td>
<td>20</td>
<td>200</td>
<td>Upper Main Adit 2 and Dump 3 with access road.</td>
</tr>
<tr>
<td>“”</td>
<td>21</td>
<td>150</td>
<td>Lower Adit 8, near road, with middle adits 6 and 7.</td>
</tr>
<tr>
<td>“”</td>
<td>22</td>
<td>230</td>
<td>Adit 2, caved; main adit.</td>
</tr>
<tr>
<td>“”</td>
<td>23</td>
<td>230</td>
<td>Adit 4, 1' open in dark brown gossan replacement. Would require movement of rocks to enter.</td>
</tr>
<tr>
<td>“”</td>
<td>24</td>
<td>230</td>
<td>Adit 8, caved, with its large brown dump closest to creek and road.</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)
I. INTERVIEWS

Name
Address
Phone
Affiliation
Comments:

Name
Address
Phone
Affiliation
Comments:

Name
Address
Phone
Affiliation
Comments:

03/95)
Figure 32-3. Upper Main Adit 2 and road with Dump 3. View looking 200° (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 20).

Figure 32-4. Adit 8, near road, with middle adits 6 and 7. View looking 150° (Photograph by V.S. Gillerman, July 7, 1998, roll 98-10, neg# 6737, frame 21).
Figure 32-5. Adit 2. Caved main adit. View looking 230°. (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 22).

Figure 32-6. Adit 4. 1' opening in dark brown gossan replacement. It would require movement of rocks at the portal to enter. View looking 230°. (Photograph by V.S. Gillerman, July 7, 1998, roll 98-10, neg# 6737, frame 23).
Figure 32-7. Adit 8, caved. Large brown dump is closest to creek and road. View looking 230° (Photograph by V.S. Gillerman, July 17, 1998, roll 98-10, neg # 6737, frame 24).