
Victoria E. Mitchell
Earl H. Bennett

Victoria E. Mitchell
Earl H. Bennett

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

Field Inspection conducted by Earl H. Bennett and Tamra A. Schiappa
CONTENTS

Geology ........................................ 1
References .................................... 1
Minnie Moore Mine .......................... 7
Apache millsites .............................. 12
Red Elephant Mill ............................ 19
Snoose Mine .................................. 26
Liberty Gem Mine ............................ 34
Treasure Vault Mine ......................... 42
Bullion Mine (Durango tunnel) ............. 48
Red Elephant Mine (upper workings) ...... 53
Democrat (Idaho-Democrat) Mine .......... 60
Bullion Mine ................................ 65
Eureka Mine .................................. 70
Mayflower Mine .............................. 75
Croesus Mine ................................ 80
Bay State Mine ............................... 87
King of the Hills Mine (Granite Tunnel) .. 91
Whale Mine .................................. 95
Idahoan Mine ................................. 100
Red Elephant Mine (Lipman Tunnel) ..... 106
Jay Gould Mine .............................. 111
War Eagle Tunnel ............................ 116
Brown tunnel/Ophir shaft .................... 121
Magdalena Mine .............................. 125
Tip Top Mine ................................ 134
Golden Star Mine ............................ 139

FIGURES

Figure 1. Location map of the Mineral Hill and Camas mining districts near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Sun Valley and Fairfield 30x60-minute quadrangles, scale 1:100,000). ..................................................... 5
Figure 2. Geologic map of the area around the Mineral Hill and Camas mining districts (Worl and others, 1991). ........................................... 6
Figure 3. Topographic map of the Minnie Moore Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map). ...................... 10
Figure 4. Looking east at the Minnie Moore tailings pond from just in front of the hoist house (Roll 519128, frame #6A). .................................. 11
Figure 5. Open inclined shaft at the third dump up Minnie Moore Gulch above the Minnie Moore Mine (Roll 519128, frame #4A). ................. 11
Figure 6. Topographic map of the Apache millsite and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).

Figure 7. Footings of the Apache mill in Bullion Gulch (Roll 519125, frame #19A).

Figure 8. Mill tailings at the Apache mill in Bullion Gulch (Roll 519125, frame #20A).

Figure 9. Close up of flotation tailings at the Apache mill (Roll 519125, frame #21A).

Figure 10. Topographic map of the Red Elephant millsite and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).

Figure 11. Upper wooden impoundment dam at the Red Elephant mill (Roll 519125, frame #34A).

Figure 12. Second downstream impoundment dam by the mill footings at the Red Elephant millsite (Roll 519125, frame #35A).

Figure 13. Mill tailings from the Red Elephant mill by a parking place near a fence at the private property line (Roll 519125, frame #36A).

Figure 14. Old mill tailings from the Red Elephant mill located near the mouth of Red Elephant Gulch (Roll 519125, frame #31A).

Figure 15. Red Elephant millsite, with an ore stockpile across the road (Roll 519125, frame #32A).

Figure 16. Topographic map of the Snoose Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map).

Figure 17. Closed and boarded adit at Site A of the Snoose Mine (Roll 8450 (T2), frame #14A).

Figure 18. Open adit at Site B of the Snoose Mine (Roll 8450 (T2), frame #8A).

Figure 19. Headframe at Site B of the Snoose Mine (Roll 8450 (T2), frame #16A).

Figure 20. Hoist for the shaft at Site B of the Snoose Mine (Roll 8450 (T2), frame #13A).

Figure 21. Ore bin at Site B of the Snoose Mine (Roll 8450 (T2), frame #10A).

Figure 22. Miscellaneous junk and scrap metal at Site B of the Snoose Mine (Roll 8450 (T2), frame #9A).

Figure 23. Closed adit at Site C of the Snoose Mine (Roll 8450 (T2), frame #17A).

Figure 24. Collapsed building and associated junk at Site C of the Snoose Mine (Roll 8450 (T2), frame #18A).

Figure 25. Topographic map of the Liberty Gem Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).

Figure 26. Ore bin at the end of the collapsed adit at the Liberty Gem Mine (Roll 519127, frame #6A).

Figure 27. Overview of the Liberty Gem Mine (Roll 519127, frame #9A).

Figure 28. Liberty Gem Mine in Liberty Gulch (Roll 519127, frame #5A).
Figure 29. Looking down the shallow open shaft at the Liberty Gem Mine (Roll 519127, frame #12A). .............................................................. 39
Figure 30. Collapsed headframe building over an old shaft at the Liberty Gem Mine (Roll 519127, frame #8A). ......................................................... 40
Figure 31. Robert Bartlett and Jeff Gabardi (U.S. Forest Service) standing inside the collapsed headframe at the Liberty Gem Mine on Croy Creek (Roll 519128, frame #1A). ......................................................... 40
Figure 32. Collapsed adit at the Liberty Gem Mine (Roll 519127, frame #7A). ................................................................................................. 41
Figure 33. Old winch at the Liberty Gem Mine (Roll 519127, frame #11A). .......................................................... 41
Figure 34. Topographic map of the Treasure Vault Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). .... 45
Figure 35. Open shaft at the Treasure Vault Mine (Roll 8450 (T2), frame #22). .......................................................... 46
Figure 36. Headframe above the shaft at the Treasure Vault Mine (Roll 8450 (T2), frame #24). ................................. 46
Figure 37. Prospect pits at the Treasure Vault Mine (Roll 8450 (T2), frame #23). .......................................................... 47
Figure 38. Topographic map of the Bullion Mine (Durango Tunnel) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). ................................................................. 51
Figure 39. Main dump of the Bullion Mine (Roll 519125, frame #14A). .......................................................... 52
Figure 40. Topographic map of the Red Elephant Mine (main workings) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). ......................................................... 56
Figure 41. Lipman dump at the Red Elephant Mine (Roll 519125, frame #22A). .......................................................... 57
Figure 42. Overview of the Red Elephant upper, No. 1, No. 2, and No. 6 dumps (Roll 519125, frame #28A). ................................. 57
Figure 43. Probable location of the caved adit on the Red Elephant No. 1 dump (Roll 519125, frame #27A). .......................................................... 58
Figure 44. Open adit along the road between the Red Elephant No. 6 and No. 2 levels (Roll 519125, frame #25A). .......................................................... 58
Figure 45. Main dump at the Red Elephant No. 2 (Roll 519125, frame #24A). .......................................................... 59
Figure 46. Red Elephant No. 3 dump (Roll 519125, frame #26A). .......................................................... 59
Figure 47. Topographic map of the Democrat (Democrat-Idaho) Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map). ................................................................. 63
Figure 48. Lowest yellow dump (No. 1 of 5) at the Democrat Mine (Roll 519127, frame #14A). .......................................................... 64
Figure 49. Dumps 2, 3, and 4 at the Democrat Mine in Democrat Gulch (Roll 519127, frame #15A). .......................................................... 64
Figure 50. Topographic map of the Bullion Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). ............ 68
Figure 51. Possible jig tailings at the Bullion Mine in Bullion Gulch (Roll 519125, frame #13A). ........................................ 69

Figure 52. Topographic map of the Eureka Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map). ........................................ 73

Figure 53. Mayflower and/or Eureka dumps (Roll 519125, frame #8A). ........................................ 74

Figure 54. Topographic map of the Mayflower Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). ........................................ 78

Figure 55. Site of the open adit on the upper dump at the Mayflower Mine (Roll 519125, frame #12A). ........................................ 79

Figure 56. Topographic map of the Croesus Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map). ........................................ 83

Figure 57. Mill foundation at Site A of the Croesus Mine (Roll 8443 (T1), frame #36A). ........................................ 84

Figure 58. Rails coming out of a collapsed adit at Site A of the Croesus Mine (Roll 8443 (T1), frame #34A). ........................................ 84

Figure 59. Collapsed shaft at Site A of the Croesus Mine (Roll 8443 (T1), frame #35A). ........................................ 85

Figure 60. Caved adit at Site B of the Croesus Mine (Roll 8443 (T1), frame #32A). ........................................ 85

Figure 61. Looking upward toward Site B at the Croesus Mine (Roll 8443 (T1), frame #31A). ........................................ 86

Figure 62. Compressor adjacent to the adit at Site B of the Croesus Mine (Roll 8443 (T1), frame #33A). ........................................ 86

Figure 63. Topographic map of the Bay State Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map). ........................................ 90

Figure 64. Topographic map of the King of the Hills Mine (Granite Tunnel) and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map). ........................................ 94

Figure 65. Topographic map of the Whale Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map). ........................................ 98

Figure 66. Whale dump (Roll 519125, frame #9A). ........................................ 99

Figure 67. Topographic map of the Idahoan Mine and vicinity (U.S. Geological Survey Mahoney Butte and Richardson Summit 7.5-minute topographic maps). ........................................ 103

Figure 68. Idahoan dump, which is in a gulch that is tributary to Bullion Gulch (Roll 519125, frame #18A). ........................................ 104

Figure 69. Caved shaft at the Idahoan Mine, with the remains of the foundation for the headframe at the top of the picture (Roll 519125, frame #15A). ........................................ 105

Figure 70. Topographic map of the Red Elephant Mine (Lipman tunnel) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map). ........................................ 109

Figure 71. Lower dump in Red Elephant Gulch at the Lipman tunnel of the Red Elephant Mine (Roll 519125, frame #23A). ........................................ 110
Figure 72. Topographic map of the Jay Gould Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map) .................................................. 114
Figure 73. Upper dump of the Jay Gould Mine (Roll 519125, frame #11A) .................................................. 115
Figure 74. Topographic map of the War Eagle Tunnel and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map) .................................................. 119
Figure 75. Mine dump at the War Eagle tunnel, just south of the Jay Gould Mine (Roll 519125, frame #10A) .................................................. 120
Figure 76. Topographic map of the Brown Tunnel/Ophir Shaft area and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map) .................................................. 124
Figure 77. Topographic map of the Magdalena Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map) .................................................. 128
Figure 78. Closed adit with a compressor beside it at Site A of the Magdalena Mine (Roll 8450 (T2), frame #1A) .................................................. 129
Figure 79. Truck axle, a drum from a hoist, and other machine parts at Site A of the Magdalena Mine (Roll 8450 (T2), frame #2A) .................................................. 129
Figure 80. Dump at Site A of the Magdalena Mine (Roll 8450 (T2), frame #3A) .................................................. 130
Figure 81. Old adit (posted) and compressed air storage tank at Site A1 of the Magdalena Mine (Roll 8450 (T2), frame #5A) .................................................. 130
Figure 82. Collapsed metal building at Site A1 of the Magdalena Mine (Roll 8450 (T2), frame #4A) .................................................. 131
Figure 83. Metal storage building at Site A1 of the Magdalena Mine (Roll 8450 (T2), frame #7A) .................................................. 131
Figure 84. Fuel tank and a blower from the ventilation system for the mine at Site A1 of the Magdalena Mine (Roll 8450 (T2), frame #6A) .................................................. 132
Figure 85. Loading dock and trash, with the collapsed compressor building in the background, at Site A1 of the Magdalena Mine (Roll 8450 (T2), frame #21A) .................................................. 132
Figure 86. Storage shed for heavy equipment at Site B of the Magdalena Mine (Roll 8450 (T2), frame #20A) .................................................. 133
Figure 87. Topographic map of the Tip Top Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map) .................................................. 137
Figure 88. Collapsed adit, covered with vegetation, at the Tip Top Mine (Roll 8450 (T2), frame #25) .................................................. 138
Figure 89. Dump from the adit at the Tip Top Mine (Roll 1060 (T3), frame #1) .................................................. 138
Figure 90. Topographic map of the Golden Star Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map) .................................................. 142
Figure 91. Large pit, possibly being mined to supply gravel for road construction, at the Golden Star Mine (Roll 1060 (T3), frame #5A) .................................................. 143

vi
TABLE

Table 1. Summary of the results of the field inspection of the mines on U.S. Bureau of Land Management property in the Hailey-Bellevue area, Blaine County, Idaho. ......................................................... 3

Table 2. Analyses of tailings samples from the Apache and Red Elephant mills. ............................................................... 15
Geology

The Mineral Hill and Camas mining districts (Figure 1) are underlain by the Devonian Milligen Formation, the Dollarhide and Wood River formations of Pennsylvanian and Permian age, and by intrusive granitic rocks of Cretaceous age (Figure 2). The Milligen Formation is black argillite and phyllite, dark-colored calcareous sandstone and siltstone, and carbonaceous limestone (Worl and others, 1991). The Minnie Moore and Snoose Mines are believed to be Cretaceous silver-lead-zinc vein deposits hosted by the Milligen Formation (Link and others, 1995; Worl and Johnson, 1995). The Dollarhide Formation is composed of dark-colored and carbonaceous calcareous sandstone, calcareous siltstone, silty and sandy limestone, and silty argillite (Worl and others, 1991). The lead-silver deposits in Bullion and Red Elephant Gulches are hosted by the lower member of the Dollarhide Formation (Link and others, 1995; Worl and Johnson, 1995). Cretaceous intrusive rocks, primarily quartz diorite and hornblende-biotite granodiorite, intrude the older sedimentary rocks in several parts of the area (Figure 1; Worl and others, 1991). In addition to hosting some of the deposits in the southern part of the area (Treasure Vault, Tip Top, and Golden Star Mines), the intrusive rocks are closely associated with many of the other deposits in the area (Worl and Johnson, 1995; Link and others, 1995).

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

References


Table 1. Summary of the results of the field inspection of the mines on U.S. Bureau of Land Management property in the Hailey-Bellevue area, Blaine County, Idaho.

<table>
<thead>
<tr>
<th>Site No.</th>
<th>Name</th>
<th>Rating</th>
<th>Adit discharge?</th>
<th>Open workings?</th>
<th>Hazardous materials?</th>
<th>Recommendations and Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA 303</td>
<td>Minnie Moore Mine</td>
<td>High</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Secure shafts. Large tailings pile on outskirts of Bellevue.</td>
</tr>
<tr>
<td>HA 326M1</td>
<td>Apache millsite</td>
<td>High</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Sample tailings and determine impact.</td>
</tr>
<tr>
<td>HA 326M2</td>
<td>Red Elephant millsite</td>
<td>High</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Sample tailings and determine impact.</td>
</tr>
<tr>
<td>HA 367</td>
<td>Snoose Mine</td>
<td>Medium</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Secure shaft and close open adit.</td>
</tr>
<tr>
<td>HA 340</td>
<td>Liberty Gem Mine</td>
<td>Medium</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Secure shafts and remove building.</td>
</tr>
<tr>
<td>HA 1209</td>
<td>Treasure Vault Mine</td>
<td>Medium</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Secure shaft.</td>
</tr>
<tr>
<td>HA 310</td>
<td>Democrat Mine (Idaho-Democrat)</td>
<td>Medium</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Lower dump has been breached by the creek and may pose a possible silt hazard.</td>
</tr>
<tr>
<td>HA 330</td>
<td>Bullion Mine (Durango Tunnel)</td>
<td>Medium</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Close open adit and sample tailings.</td>
</tr>
<tr>
<td>HA 326</td>
<td>Red Elephant Mine (main workings)</td>
<td>Medium</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Close open adits.</td>
</tr>
<tr>
<td>HA 329</td>
<td>Bullion Mine</td>
<td>Medium</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Sample the tailings.</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------</td>
<td>----------------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>--------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>HA 320</td>
<td>Eureka Mine</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Low</td>
<td>Secure the shaft</td>
</tr>
<tr>
<td>HA 328</td>
<td>Mayflower Mine</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Low</td>
<td>Close the open adits</td>
</tr>
<tr>
<td>HA 354</td>
<td>Croesus Mine</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Low</td>
<td>Tailings are revegetated</td>
</tr>
<tr>
<td>HA 315</td>
<td>Baby State Mine</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 317</td>
<td>King of the Hills Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 319</td>
<td>Whale Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 321</td>
<td>Idahoan Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 326A</td>
<td>Red Elephant Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 327</td>
<td>Jay Gould Mine (Lipman Tunnel)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 328A</td>
<td>War Eagle Tunnel</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>HA 331</td>
<td>Brown Tunnel/Ophir Shaft</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 368</td>
<td>Magdalena Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 1217</td>
<td>Tip Top Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>HA 1222</td>
<td>Golden Star Mine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
Figure 1. Location map of the Mineral Hill and Camas mining districts near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Sun Valley and Fairfield 30x60-minute quadrangles, scale 1:100,000).
Figure 2. Geologic map of the area around the Mineral Hill and Camas mining districts. 
Dm = Milligen Formation; PPdl, Pdm, Pdu = Dollarhide Formation; Pwh, PPe, 
Pww = Wood River Formation; Kgdk, Kfgd, Kgd, Kqd = Idaho batholith; Tqm, Td 
= Tertiary intrusive rocks; Tr, Trd, Tda = Tertiary dike rocks; Tcd, Tct, Tca = 
Challis Volcanics; Tv = Miocene Idavada Volcanics; Tb, Tmf = Miocene lava flows 
(Magic Mountain eruptive center); Qt = terrace gravels; Ql = landslide deposits; Qa 
= alluvium. Heavy lines are faults: ball and bar on downthrown side of normal 
fault, sawteeth on upper plate of thrust fault, and hachures on upper plate of low- 
angle normal faults (Worl and others, 1991).
AIM SITE DISCOVERY FORM

Name: Minnie Moore Mine  Region  Forest  BLM   District   Site No. HA 383

State ID  County Blaine  Lat. 43-28-03  Long. 114-17-21  Tract #

Principal Meridian BOISE Section 34, 35 Township 2N Range 18E USGS 7.5 Quad Bellevue

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y=yes or N=no.

N 1. Are there adits with discharge or evidence of discharge?

Y 2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   Y (a) Is the potential source located in a municipal watershed?

   Y (b) Is the potential source located in a floodplain?

   Y (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   Y (d) Are there domestic wells within a 4-mile radius of the site?

   Y (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

   5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 30 /

Level of public interest: Low  Medium  X  High

EHB  

Signature  8/08/94  Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name: Minnie Moore Mine  Region: Forest  [BLM]  District:  Site No.: HA 383

CRITERIA B  Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

Y  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

| (a) Is surface water discolored? | Yes | No |
| (b) Is vegetation affected?     | Yes | No |
| (c) Is pH value < 4?            | Yes | No |
| (d) Others (explain)            | Yes | No |

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
- Flow rate (cfs)
- pH value
- Specific conductivity

<table>
<thead>
<tr>
<th></th>
<th>date</th>
<th>value</th>
<th>date</th>
<th>value</th>
</tr>
</thead>
</table>

NFS Watershed Code: Affected stream name and length: Minnie Moore Gulch; Wood River

Total area/Disturbed area (acres): 30 / 2
Adit No.: 2  Shaft No.: 1

Impoundment area (acres): 10  Tailings (yd³): Waste Rock (yd³):

Structures (buildings, headframes, mills, etc.) Explain: several at millsite.

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No  If YES Film roll number: 519128; video Frame numbers 4A-6A

EHB
Signature: ____________________________  Date: 8/08/94
Minnie Moore Mine — HA 383

The town of Bellevue is built right up to the east end of the mill tailings disposal pile at the Minnie Moore (Figures 3 and 4). The old mine buildings are just west of the mill tailings. One of these buildings was refurbished by Exxon in the mid-1980s; the rest are part of the old mill.

About 100 yards west of the buildings and on a slight hill is the Minnie Moore shaft. The shaft is open but fenced. It is due south of the Queen of the Hills Mine that is across the canyon to the north. The hoist house is just south of the shaft. The old hoist (round wire cable with hand clutches) is still in the hoist room. The hoist house is small and made of galvanized sheet steel.

There is an open decline shaft about ½ mile up the road to the west of the Minnie Moore shaft (Figure 5). There is a large glory hole where the decline had caved in around the portal. This decline is not fenced and is a definite hazard. A large dump is at the mouth of the decline. There are other, less significant workings farther up the canyon.

See the videotape for additional information on this site.

Summary and Recommendations

1) The mill tailings are a problem.

2) The inclined shaft is very dangerous.
Figure 3. Topographic map of the Minnie Moore Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 4. Looking east at the Minnie Moore tailings pond from just in front of the hoist house (Roll 519128, frame #6A).

Figure 5. Open inclined shaft at the third dump up Minnie Moore Gulch above the Minnie Moore Mine (Roll 519128, frame #4A).
AIM SITE DISCOVERY FORM

Name: Apache millsite  Region ___  Forest BLM  District ___  Site No. HA 326M1

State ID  County Blaine  Lat. 43-29-00 Long. 114-22-56 Tract #

Prin. Meridian BOISE  Section 25  Township 2N  Range 17E  USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A  Answer each question with Y = yes or N = no.

   N  1. Are there adits with discharge or evidence of discharge?

   Y  2. Are there millsites or tailings present?

      3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   N  (a) Is the potential source located in a municipal watershed?

   Y  (b) Is the potential source located in a floodplain?

   Y  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   Y  (d) Are there domestic wells within a 4-mile radius of the site?

   N  (e) Are there surface water intakes within 15 miles downstream of the site?

   N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

   N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one)  yes  no

Are there dangerous structures present? (circle one)  yes  no

Total area/Disturbed area (acres) 20 /

Level of public interest: Low  X  Medium ___  High ___

EHB  8/02/94

Signature  Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name __Apache millsit____ Region ___ Forest___ BLM ___ District _____ Site No. HA 326M1

CRITERIA B Answer each question with Y = yes, or N = no.

_N_  6. Is site under regulatory or legal action?

_Y_  7. Is there a mine waste stability concern?

_N_  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No
(b) Is vegetation affected? Yes No
(c) Is pH value < 4? Yes No
(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date____ value_____ date____ value_____
pH value date____ value_____ date____ value_____
Specific conductivity date____ value_____ date____ value_____

NFS Watershed Code____________ AFFECTED stream name and length Bullion Gulch

Total area/Disturbed area (acres) = 20 / Adit No. 0 Shaft No. 0

Impoundment area (acres) 20 Tailings (yd³) many Waste Rock (yd³) none

Structures (buildings, headframes, mills, etc.) Explain: 1 old building

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No___ If YES Film roll number 519125 Frame numbers 19A-21A

EHB __________________________ 8/02/94 __________________________
Signature Date
Site Description

This is a large area of jig and flotation mill tailings which covers about 20 acres (Figure 6). There is no water in the drainage now. The footings of the old mill and an old building are at the site (Figure 7). A sample of the tailings was collected (B8029401; Table 2). Water in the stream in Bullion Gulch is impounded in a pond behind a ranch house at the mouth of the gulch. A marshy area separates the tailings from this pond. This would be an excellent place to study metal migration in an arid environment. There are many thousands of tons of mill tailings in this drainage (Figures 8 and 9).

Summary and Preliminary Recommendations

The mill tailings should be sampled and the impact on the stream in Bullion Gulch determined. Probably the best course of action is to leave the old tailings alone, as this is an arid environment.
Table 2. Analyses of tailings samples from the Apache and Red Elephant mills.

<table>
<thead>
<tr>
<th>Element</th>
<th>Apache Tailings</th>
<th>Red Elephant Tailings</th>
<th>Estimated Detection Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (ppm)</td>
<td>650.00</td>
<td>1,100.00</td>
<td>10.00 ppm</td>
</tr>
<tr>
<td>Cadmium (ppm)</td>
<td>75.00</td>
<td>440.00</td>
<td>0.03 ppm</td>
</tr>
<tr>
<td>Cobalt (ppm)</td>
<td>9.10</td>
<td>9.60</td>
<td>0.18 ppm</td>
</tr>
<tr>
<td>Chromium (ppm)</td>
<td>39.00</td>
<td>120.00</td>
<td>0.46 ppm</td>
</tr>
<tr>
<td>Copper (ppm)</td>
<td>200.00</td>
<td>560.00</td>
<td>0.32 ppm</td>
</tr>
<tr>
<td>Lead (ppm)</td>
<td>6,500</td>
<td>13,000</td>
<td>1.12 ppm</td>
</tr>
<tr>
<td>Molybdenum (ppm)</td>
<td>15.0</td>
<td>19</td>
<td>0.55 ppm</td>
</tr>
<tr>
<td>Nickel (ppm)</td>
<td>30.00</td>
<td>30.00</td>
<td>0.38 ppm</td>
</tr>
<tr>
<td>Zinc (ppm)</td>
<td>8,700</td>
<td>38,000</td>
<td>0.29 ppm</td>
</tr>
<tr>
<td>Sulfur (percent)</td>
<td>1.4</td>
<td>3.9</td>
<td>1.97 ppm</td>
</tr>
<tr>
<td>Aluminum (ppm)</td>
<td>2,700</td>
<td>7,200</td>
<td>1.05 ppm</td>
</tr>
<tr>
<td>Barium (ppm)</td>
<td>31.0</td>
<td>55.0</td>
<td>1.13 ppm</td>
</tr>
<tr>
<td>Beryllium (ppm)</td>
<td>0.36</td>
<td>0.62</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>Phosphorus (ppm)</td>
<td>540</td>
<td>900</td>
<td>1.06 ppm</td>
</tr>
<tr>
<td>Potassium (ppm)</td>
<td>470</td>
<td>820</td>
<td>0.61 ppm</td>
</tr>
<tr>
<td>Sodium (ppm)</td>
<td>190.0</td>
<td>280</td>
<td>0.11 ppm</td>
</tr>
<tr>
<td>Calcium (percent)</td>
<td>3.1</td>
<td>1.9</td>
<td>2.93 ppm</td>
</tr>
<tr>
<td>Iron (percent)</td>
<td>6.4</td>
<td>5.1</td>
<td>0.29 ppm</td>
</tr>
<tr>
<td>Magnesium (percent)</td>
<td>0.68</td>
<td>0.56</td>
<td>1.20 ppm</td>
</tr>
<tr>
<td>Manganese (percent)</td>
<td>1.4</td>
<td>0.70</td>
<td>3.923 ppm</td>
</tr>
</tbody>
</table>
Figure 6. Topographic map of the Apache millsite and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 7. Footings of the Apache mill in Bullion Gulch (Roll 519125, frame #19A).

Figure 8. Mill tailings at the Apache mill in Bullion Gulch (Roll 519125, frame #20A).
Figure 9. Close up of flotation tailings at the Apache mill (Roll 519125, frame #21A).
AIM SITE DISCOVERY FORM

Name: **Red Elephant Mill**  Region: Forest  **BLM**  District:  Site No. **HA 326M2**

State ID  County **Blaine**  Lat. 43-28-08  Long. 114-25-33  Tract #

Prin. Mfr. **BOISE**  Sect. 27, 28, 33, 34  T. 2N  R. 17E  USGS 7.5 Quad **Richardson Summit**

Land Ownership (circle one) Private land; **BLM land; State land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

**CRITERIA A** Answer each question with **Y**=yes or **N**=no.

**N**  1. Are there adits with discharge or evidence of discharge?

**Y**  2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

**N**  (a) Is the potential source located in a municipal watershed?

**Y**  (b) Is the potential source located in a floodplain?

**Y**  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

**Y**  (d) Are there domestic wells within a 4-mile radius of the site?

**Y**  (e) Are there surface water intakes within 15 miles downstream of the site?

**N**  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

**N**  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

**GENERAL INFORMATION**

Are there open adits or shafts present? (circle one) **yes**  **no**

Are there dangerous structures present? (circle one) **yes**  **no**

Total area/Disturbed area (acres) **20+**  /

Level of public interest: Low  ![X]  Medium  **High**

**EHB**  8/02/94

Signature  **Date**

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name: Red Elephant Mill  Region: Forest  BLM District: Site No.: HA 326M2

CRITERIA B Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

Y  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes  No
(b) Is vegetation affected? Yes  No
(c) Is pH value < 4? Yes  No
(d) Others (explain) Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
- Flow rate (cfs) date_ value_ date_ value_
- pH value date_8/02/94_ value_8.3_ date_ value_
- Specific conductivity date_8/02/94_ value_210_ date_ value_

NFS Watershed Code: Affected stream name and length: Elk Creek-Red Elephant Gulch

Total area/Disturbed area (acres) 20+ / Adit No. 0  Shaft No. 0

Impoundment area (acres) 20+ Tailings (yd³) 20+ Waste Rock (yd³) ----

Structures (buildings, headframes, mills, etc.) Explain: old mill foundation

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No If YES Film roll number 519125 Frame numbers 31A, 32A, 34A-36A

EHB Signature  8/02/94 Date
Red Elephant Mill — HA 326

Site Description

Just below the juncture of the west fork of Elk Creek (Elk Creek is the creek that flows in Red Elephant Gulch) and the main stream is the tailings site for the old Red Elephant Mill (Figure 10). The mill was about 3/4 mile south of this confluence, and the tailings cover the gulch from the confluence to past the fence that marks the edge of the private property to the south (Figures 11, 12, 13, and 14). The water in Elk Creek (sampled just above the tailings) has a pH of 8.3 and a conductivity of 210. Water by the fence south of the green gate has a pH of 8.6 and a conductivity of 250, so the little water flowing in the creek at this time of the year has not been severely contaminated from the tailings. A sample of the tailings (B8029415; Table 2) was collected by the old mill footings (Figure 15).

Summary and Preliminary Recommendations

There are at least two old containment dams in the tailings area (and perhaps at least two more); all have been breached by the creek. The water from Elk Creek is captured in a stock pond behind the house at the mouth of the gulch. Sediments and water from this pond would make an interesting study of metal mobility from the old tailings in this arid environment. (As noted, this same type of study could be done in Bullion Gulch.) Collectively, there are many tons of tailings in this part of Red Elephant Gulch.
Figure 10. Topographic map of the Red Elephant millsite and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 11. Upper wooden impoundment dam at the Red Elephant mill (Roll 519125, frame #34A).

Figure 12. Second downstream impoundment dam by the mill footings at the Red Elephant millsite (Roll 519125, frame #35A).
Figure 13. Mill tailings from the Red Elephant mill by a parking place near a fence at the private property line (Roll 519125, frame #36A).

Figure 14. Old mill tailings from the Red Elephant mill located near the mouth of Red Elephant Gulch (Roll 519125, frame #31A).
Figure 15. Red Elephant millsite, with an ore stockpile across the road. The tailings are in the left center and bottom of the picture. This may have been a stamp mill, based on the channels in the concrete foundation (Roll 519125, frame #32A).
AIM SITE DISCOVERY FORM

Name: Snoose Mine  Region  Forest  BLM  District  Site No.  HA 367

State  ID  County  Blaine  Lat. 43-29-20  Long. 114-19-20  Tract # 

Principal Meridian  BOISE  Section  21  Township  2N  Range  18E  USGS 7.5 Quad  Bellevue

Land Ownership (circle one)  Private land;  BLM land;  FS land;  Mixture;  Undetermined;  if private land, does it affect FS land?  If no, stop here.

CRITERIA A  Answer each question with Y = yes or N = no.

N  1. Are there adits with discharge or evidence of discharge?

N  2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

maybe  (a) Is the potential source located in a municipal watershed?

(b) Is the potential source located in a floodplain?  Colorado Gulch drains into Big Wood River.

(c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

maybe  (d) Are there domestic wells within a 4-mile radius of the site?  on the outskirts of Hailey.

maybe  (e) Are there surface water intakes within 15 miles downstream of the site?

N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one)  yes  no

Are there dangerous structures present? (circle one)  yes  no

Total area/Disturbed area (acres)  40 / 20

Level of public interest: Low  ___  Medium  X  High ___

Tamra Schiappa  8/05/94
Signature  Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name: Snoose Mine  Region: Forest  BLM  District:  Site No.: HA 367

CRITERIA B  Answer each question with Y=yes, or N=no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes  No
(b) Is vegetation affected? Yes  No
(c) Is pH value < 4? Yes  No
(d) Others (explain) Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date  value  date  value
pH value date  value  date  value
Specific conductivity date  value  date  value

Dry.

NFS Watershed Code Affected stream name and length

Total area/Disturbed area (acres) / Adit No. Shaft No.

Impoundment area (acres) Tailings (yd³) Waste Rock (yd³) 5,000

Structures (buildings, headframes, mills, etc.) Explain: Headframe, hoist, cinder block building, ore bin, water tank, collapsed cabin, portals

Other data, comments, and explanations included on the back of this page? Yes  No

Picture taken? Yes  No  If YES Film roll number 8450 (T2)  Frame numbers 8A-18A

Tamra Schiappa  Signature  8/05/94  Date
Snoose Mine — HA 367

See Figure 16 for locations of features at this site.

**Site A: Closed adit**

This adit is across the access road from the main mine site (Site B). Boards have been placed across the entrance to the adit to block the opening (Figure 17).

**Site B: Main mine site**

An adit and a shaft are located at this site. The adit has a sturdy portal and is open for a minimum of 50 or 60 feet (Figure 18). The shaft is at least partially open; it is possible to see down it at least 20 or 30 feet. The headframe is intact (Figure 19), and the hoist (along with its motor and the associated pulley system) is still in place (Figure 20). A large ore bin is near the base of the dump (Figure 21). The dump contains about 5,000 cubic yards of material. Miscellaneous junk and scrap metal are scattered on top of the dump, below the dump, and near the ore bin (Figures 20 and 22).

**Site C: Closed adit and collapsed building**

The entrance to this adit is covered by boards and a door (Figure 23). The door does not have a lock, but is held shut by dirt that has been piled in front of it. There is enough space between boards on either side of the door so that someone could squeeze through the gaps. A collapsed building is located nearby (Figure 24). Lumber, metal roofing, nails, and other trash are scattered near the remains of the building. A small dump at the site contains less than 500 cubic yards of material.
Figure 16. Topographic map of the Snoose Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 17. Closed and boarded adit at Site A of the Snoose Mine (Roll 8450 (T2), frame #14A).

Figure 18. Open adit at Site B of the Snoose Mine (Roll 8450 (T2), frame #8A).
Figure 19. Headframe at Site B of the Snoose Mine (Roll 8450 (T2), frame #16A).

Figure 20. Hoist for the shaft at Site B of the Snoose Mine (Roll 8450 (T2), frame #13A).
Figure 21. Ore bin at Site B of the Snoose Mine. Note the junk scattered on the ground around the bin. The headframe is barely visible in the trees in the upper left of the photograph (Roll 8450 (T2), frame #10A).

Figure 22. Miscellaneous junk and scrap metal at Site B of the Snoose Mine (Roll 8450 (T2), frame #9A).
Figure 23. Closed adit at Site C of the Snoose Mine (Roll 8450 (T2), frame #17A).

Figure 24. Collapsed building and associated junk at Site C of the Snoose Mine (Roll 8450 (T2), frame #18A).
<table>
<thead>
<tr>
<th>Potential</th>
<th>LOW</th>
<th>MEDIUM</th>
<th>HIGH</th>
</tr>
</thead>
</table>

**AIM SITE DISCOVERY FORM**

Name: Liberty Gem Mine  Region  Forest  BLM  District  Site No. HA 340

State ID  County Blaine  Lat. 43-27-25  Long. 114-26-16  Tract #

Prin. Meridian BOISE  Section 33  Township 2N  Range 17E  USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

**CRITERIA A** Answer each question with Y=yes or N=no.

- **N** 1. Are there adits with discharge or evidence of discharge?

- **Y** 2. Are there millsites or tailings present?

  - 3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

  - **N** (a) Is the potential source located in a municipal watershed?

  - **Y** (b) Is the potential source located in a floodplain?

  - **N** (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

  - **Y** (d) Are there domestic wells within a 4-mile radius of the site?

  - **Y** (e) Are there surface water intakes within 15 miles downstream of the site?

- **N** 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

- **N** 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

**GENERAL INFORMATION**

- Are there open adits or shafts present? (circle one) **yes**  no

- Are there dangerous structures present? (circle one) **yes**  no

- Total area/Disturbed area (acres)  **15**

- Level of public interest: Low ___  Medium  X  High ___

**EHB**  Signature  **8/03/94**  Date

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name: Liberty Gem Mine  Region: Forest  District: BLM  Site No: HA 340

CRITERIA B Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes  No

(b) Is vegetation affected? Yes  No

(c) Is pH value < 4? Yes  No

(d) Others (explain) Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value
pH value  date  value  date  value
Specific conductivity  date  value  date  value

NFS Watershed Code: Liberty Gulch

Affected stream name and length: Liberty Gulch

Total area/Disturbed area (acres): 15  / Adit No: 1  Shaft No: 2

Impoundment area (acres): Tailings (yd³): Waste Rock (yd³):

Structures (buildings, headframes, mills, etc.) Explain: several

Other data, comments, and explanations included on the back of this page? Yes  X  No

Picture taken? Yes  X  No  If YES Film roll number 519127; 519128  Frame numbers 5A-12A: 1A

EHB  Signature  8/03/94

Date
Liberty Gem Mine — HA 340

Site Description (Figure 25)

There is an old ore bin beside the Croy Creek road at the mouth of Liberty Gulch (Figure 26). Just west of the ore bin is a small pile of what looks like high grade ore. There is a big, empty metal tank at the entrance to the mine property, which is only a short distance from the Croy Creek road. The mine site contains two shafts, piles of ore, numerous trenches, and several buildings (Figure 27). The first shaft by the first building has a good wooden headframe (Figure 28). The shaft is open and probably not very deep (Figure 29). The second shaft is inside of the collapsed aluminum sheet metal-covered building (Figure 30 and 31) that is located 100 yards north of the first shaft. The building housed a headframe, which has collapsed into the shaft. This shaft is probably also shallow. Another wooden structure just east of the second shaft looks like an old ore bin. There is a collapsed adit just north of this bin (Figure 32. A fair amount of is junk scattered about this site (Figure 33).

Summary and Preliminary Recommendations

The shafts should be secured and the surface buildings removed. This site poses a physical hazard because it is close to the main Croy Creek road.
Figure 25. Topographic map of the Liberty Gem Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 26. Ore bin at the end of the collapsed adit (just to the left of the ore bin) at the Liberty Gem Mine. An old ore dump is in the foreground (Roll 519127, frame #6A).

Figure 27. Overview of the Liberty Gem Mine. A collapsed ore bin and an adit are on the left, a shallow open shaft is in the center, and a collapsed headframe over a shaft is at the right. The dark piles are old ore dumps (Roll 519127, frame #9A).
Figure 28. Liberty Gem Mine in Liberty Gulch. An open shaft, along with its headframe, is to the right of the truck (Roll 519127, frame #5A).

Figure 29. Looking down the shallow open shaft at the Liberty Gem Mine (Roll 519127, frame #12A).
Figure 30. Collapsed headframe building over an old shaft at the Liberty Gem Mine (Roll 519127, frame #8A).

Figure 31. Robert Bartlett and Jeff Gabardi (U.S. Forest Service) standing inside the collapsed headframe at the Liberty Gem Mine on Croy Creek. Timbers from the headframe have fallen into the shaft (Roll 519128, frame #1A).
Figure 32. Collapsed adit at the Liberty Gem Mine (Roll 519127, frame #7A).

Figure 33. Old winch at the Liberty Gem Mine. The iron-stained pit behind the winch is just west of the open shaft (Roll 519127, frame #11A).
AIM SITE DISCOVERY FORM

Name: Treasure Vault Mine Region Forest BLM District Site No. HA 1209

State ID County Blaine Lat. 43-25-50 Long. 114-27-18 Tract #

Prin. Meridian BOISE Section Township 1N Range 17E USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N (d) Are there domestic wells within a 4-mile radius of the site?

N (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 10 / 5

Level of public interest: Low __ X Medium ___ High ___

Tamra Schiappa 8/05/94

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
CRITERIA B  Answer each question with Y = yes, or N = no.

6. Is site under regulatory or legal action?  

7. Is there a mine waste stability concern?

8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.
   (a) Is surface water discolored?  Yes  No
   (b) Is vegetation affected?  Yes  No
   (c) Is pH value < 4?  Yes  No
   (d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
   Flow rate (cfs)  date_____  value_____  date_____  value_____  date_____  value_____
   pH value  date_____  value_____  date_____  value_____  date_____  value_____
   Specific conductivity  date_____  value_____  date_____  value_____  date_____  value_____

NFS Watershed Code__________  Affected stream name and length__________

Total area/Disturbed area (acres)_____ /  Adit No._____  Shaft No._____

Impoundment area (acres)________  Tailings (yd³)______  Waste Rock (yd³) __2,500____

Structures (buildings, headframes, mills, etc.) Explain:__________headframe__________

Other data, comments, and explanations included on the back of this page? Yes X  No____

Picture taken? Yes X  No  If YES Film roll number  8450 (T2)  Frame numbers  22-24____

Tamra Schiappa  8/05/94
Signature  Date
Treasure Vault Mine — HA 1209

See Figure 34 for a map of the mine. The shaft at this site is open for 40 or 50 feet (Figure 35). It is lined with concrete, and the headframe is still in place at the top of the shaft (Figure 36).

Miscellaneous junk is scattered around the site. This material includes lumber, nails, fencing, and other scrap iron. Prospect pits litter the hillsides to the west and southwest of the shaft (Figure 37). These pits vary in size from 3 to 5 feet deep. The dumps from the pits are between 5 and 15 feet high. The dump at the main site contains about 2,500 cubic yards of material.
Figure 34. Topographic map of the Treasure Vault Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 35. Open shaft at the Treasure Vault Mine (Roll 8450 (T2), frame #22).

Figure 36. Headframe above the shaft at the Treasure Vault Mine (Roll 8450 (T2), frame #24).
Figure 37. Prospect pits at the Treasure Vault Mine (Roll 8450 (T2), frame #23).
AIM SITE DISCOVERY FORM

Name: Bullion Mine (Durango tunnel) Region __ Forest BLM District __ Site No. HA 330

State ID County Blaine Lat. 43-29-46 Long. 114-24-37 Tract # __________

Prin. Meridian BOISE Section 22 Township 2N Range 17E USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y=yes or N=no.

Y 1. Are there adits with discharge or evidence of discharge?

Y 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N   (a) Is the potential source located in a municipal watershed?

Y   (b) Is the potential source located in a floodplain?

N   (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N   (d) Are there domestic wells within a 4-mile radius of the site?

N   (e) Are there surface water intakes within 15 miles downstream of the site?

N   4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N   5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 2 /

Level of public interest: Low X Medium ___ High ___

EHB __________________________ 8/02/94 __________________________

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name Bullion Mine (Durango tunnel) Region __ Forest _BLM_ District __ Site No. HA 330

CRITERIA B Answer each question with Y=yes, or N=no.

N 6. Is site under regulatory or legal action?

Y 7. Is there a mine waste stability concern?

N 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No

(b) Is vegetation affected? Yes No

(c) Is pH value < 4? Yes No

(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date 8/02/94 value 3-4 gpm date____ value____
pH value date 8/02/94 value 8.0 date____ value____
Specific conductivity date 8/02/94 value 400 date____ value____

NFS Watershed Code_________ Affected stream name and length Bullion Gulch

Total area/Disturbed area (acres)_________/_______ Adit No. 1 Shaft No._______

Impoundment area (acres)_________ Tailings (yd³) 2 Waste Rock (yd³)_______

Structures (buildings, headframes, mills, etc.) Explain: None.

Other data, comments, and explanations included on the back of this page? Yes ___ No____

Picture taken? Yes ___ No____ If YES Film roll number 519125 Frame numbers 14A_____

EHB ___________________________ 8/02/94 Date

Signature ____________________________
Bullion Mine (Durango Tunnel) — HA 330

Site Description

This is the largest dump in Bullion Gulch (Figures 38 and 39). A great blast of cold air issues from the open adit, indicating a lot of underground workings and probably other surface openings as well. About 3-4 gallons of water per minute is coming out of the adit. The water has a pH of 8.0 and a conductivity of 400. The dump covers several acres and is about 20 feet thick. There is a concrete pedestal by the adit.

Summary and Preliminary Recommendations

The entire drainage in Bullion Gulch from the Jay Gould Mine to below this tunnel site is full of old mill tailings. However, these pale in significance compared to the mill tailings at the Apache mill located about a mile from the mouth of the gulch. The Bullion Gulch tailings should be mapped and sampled. Because of the arid nature of this country, it is probably best to leave the tailings alone.
Figure 38. Topographic map of the Bullion Mine (Durango Tunnel) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 39. Main dump of the Bullion Mine (Roll 519125, frame #14A).
AIM SITE DISCOVERY FORM

(Upper (main) workings)
Name: Red Elephant Mine Region Forest BLM District Site No. HA 326
State ID County Blaine Lat. 43-29-43 Long. 114-25-33 Tract #
Prin. Mer. BOISE Sect. 21, 22 Township 2N Range 17E USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y=yes or N=no.

N  1. Are there adits with discharge or evidence of discharge?
N  2. Are there millsites or tailings present?
   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.
   N (a) Is the potential source located in a municipal watershed?
   Y (b) Is the potential source located in a floodplain?
   N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?
   Y (d) Are there domestic wells within a 4-mile radius of the site?
   Y (e) Are there surface water intakes within 15 miles downstream of the site?
N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?
N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no
Are there dangerous structures present? (circle one) yes no
Total area/Disturbed area (acres) 20 /
Level of public interest: Low X Medium ___ High ___

EHB ______________________ 8/02/94 ______________________
Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
(Upper (main) workings)
Name Red Elephant Mine Region Forest BLM District Site No. HA 326

CRITERIA B Answer each question with Y = yes, or N = no.

N 6. Is site under regulatory or legal action?

Y 7. Is there a mine waste stability concern?

N 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No
(b) Is vegetation affected? Yes No
(c) Is pH value < 4? Yes No
(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date value date value
pH value date value date value
Specific conductivity date value date value

NFS Watershed Code Affected stream name and length Elk Creek-Red Elephant Gulch

Total area/Disturbed area (acres) 20 / Adit No. 4 Shaft No. 0

Impoundment area (acres) Tailings (yd³) Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain: _____________________________________________________________

_______________________________________________________________________________________

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No If YES Film roll number 519125 Frame numbers 23A-29A

EHB ___________________ 8/02/94
Signature Date

54
Red Elephant Mine (Upper Workings) — HA 326

Site Description (Figure 40)

A large dump lies just off the road that goes from the turnoff to the Red Elephant mill up the north fork of Red Elephant Gulch. This is the dump for the Lipman tunnel (Figure 41; see page 106).

At the upper Red Elephant workings, there are four dumps, two large and two medium (Figure 42). The No. 6 level dump is the lowest of the four. It is large and iron-stained. A caved adit is probably located by a small marshy area on the north side of the dump that has some old timbers by it (Figure 43). There was not enough water to sample. This dump covers about 1 acre and has been breached by the stream in the gulch.

Next up the gulch is an open adit (Figure 44). It was gated, but the boards have been taken off.

Continuing north is another large dump, which covers over one acre and is 50 feet thick. An open adit here was gated, but the lock has been broken off (Figure 45). Lots of cold air coming from the adit indicates open underground and other surface connections. Water flows from this adit in the spring, but it was dry by the time of the site visit. There is a large ore bin near the dump which contains good ore samples (one was collected). This is the No. 2 level.

Above this dump and around the switchback on the road is another dump with an open adit (Figure 42). This is the No. 1 level tunnel, and the dump is smaller than the No. 2 dump. The dump above the No. 1 level is unnamed.

Summary and Preliminary Recommendations

The adits could be closed or more securely gated. No other action is suggested in this arid environment.
Figure 40. Topographic map of the Red Elephant Mine (main workings) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 41. Lipman dump at the Red Elephant Mine. This is the lowest dump in Red Elephant Gulch (Roll 519125, frame #22A).

Figure 42. Overview of the Red Elephant upper, No. 1, No. 2, and No. 6 dumps. The open adit is visible along the road opposite the white streak in the right center of the picture (Roll 519125, frame #28A).
Figure 43. Probable location of the caved adit on the Red Elephant No. 1 dump. There is a boggy area in here and old timbers are in the bushes (Roll 519125, frame #27A).

Figure 44. Open adit along the road between the Red Elephant No. 6 and No. 2 levels (Roll 519125, frame #25A).
Figure 45. Main dump at the Red Elephant No. 2. The open adit has a wooden gate, but the door is open and the hasp for the lock was broken (Roll 519125, frame #24A).

Figure 46. Red Elephant No. 3 dump. The adit has an unlocked wooden gate (picture 519125-24A) (Roll 519125, frame #26A).
AIM SITE DISCOVERY FORM

Name: Democrat (Idaho-Democrat) Mine Reg. ___ Forest ___ BLM ___ Dist. ___ Site No. HA 310

State ID County Blaine ___ Lat. 43-31-32 Long. 114-24-15 Tract # ____________

Principal Meridian BOISE Section 11 Township 2N Range 17E USGS 7.5 Quad Mahoney Butte

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y=yes or N=no.

Y 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

Y (d) Are there domestic wells within a 4-mile radius of the site?

Y (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 20 / 

Level of public interest: Low ___ Medium ___ High ___

EHB Signature 8/02/94 Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name Democrat (Idaho-Democrat) Mine Region Forest BLM District Site No. HA 310

CRITERIA B Answer each question with Y = yes, or N = no.

N 6. Is site under regulatory or legal action?

Y 7. Is there a mine waste stability concern?

N 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No
(b) Is vegetation affected? Yes No
(c) Is pH value < 4? Yes No
(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date 8/02/94 value 10+ gpm date value
pH value date 8/02/94 value 8.0 date value
Specific conductivity date 8/02/94 value 310 date value

NFS Watershed Code______________ Affected stream name and length Democrat Gulch

Total area/Disturbed area (acres) __________ Adit No. 5 Shaft No. 0

Impoundment area (acres) __________ Tailings (yd^3) __________ Waste Rock (yd^3) __________

Structures (buildings, headframes, mills, etc.) Explain: collapsed building at lower adit

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No If YES Film roll number 519127 Frame numbers 13A-16A

EHB ___________ 8/02/94
Signature Date

61
Democrat (Idaho-Democrat) Mine — HA 310

Site Description (Figure 47)

The mine is in the granite/syenite that intrudes the Dollarhide Formation in this area. Workings include a large lower dump (Figure 48) and five large upper dumps progressing up a tributary gulch to the west of Democrat Gulch. The lower dump (No. 1 here, but referred to as the old No. 10 in the literature) has a caved adit with a considerable stream of good cold water. The flow rate is greater than 10 gallons per minute, and the water has a pH of 8.0 and a conductivity of 310. A large dump just south of the adit extends across and has been breached by the creek. The dump contains both granite and Dollarhide Formation rock. There is a lot of wood from collapsed buildings by the lower dump.

Extending up the gulch from the lower dump is a series of four iron-stained dumps (Figure 49), all in granite. All of these dumps have caved, dry adits, and there is little water in the gulch. Spring runoff and flash floods over the years have distributed the sediment from the dumps, but as with many other mines in this semi-arid region, the dumps appear quite stable. A small pile of ore was noted on the uppermost dump (No. 5), and a sample was collected. All of these dumps are in granite/syenite. Our No. 2 dump is probably the old No. 7 mentioned in the literature. What is probably a caved stope was noted on the hillside between dumps four and three.

Summary and Preliminary Recommendations

The lower dump could pose a siltation hazard during flash floods. Otherwise, no action is required at this site.
Figure 47. Topographic map of the Democrat (Democrat-Idaho) Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map).
Figure 48. Lowest yellow dump (No. 1 of 5) at the Democrat Mine (Roll 519127, frame #14A).

Figure 49. Dumps 2, 3, and 4 at the Democrat Mine in Democrat Gulch (Roll 519127, frame #15A).
**AIM SITE DISCOVERY FORM**

Name: **Bullion Mine**  
Region ____  
Forest _BLM_  
District ____  
Site No. **HA 329**

State **ID**  
County **Blaine**  
Lat. **43-29-42**  
Long. **114-24-34**  
Tract # ____________

Prin. Meridian **BOISE**  
Section **22**  
Township **2N**  
Range **17E**  
USGS 7.5 Quad **Richardson Summit**

Land Ownership (circle one)  
 Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? **If no, stop here.**

**CRITERIA A** Answer each question with **Y** = yes or **N** = no.

1. Are there adits with discharge or evidence of discharge? **N**

2. Are there millsites or tailings present? **Y**

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   (a) Is the potential source located in a municipal watershed? **N**

   (b) Is the potential source located in a floodplain? **Y**

   (c) Are there dwellings, residences, camp sites, or other public use areas nearby (e.g. 200 feet)? **N**

   (d) Are there domestic wells within a 4-mile radius of the site? **N**

   (e) Are there surface water intakes within 15 miles downstream of the site? **N**

4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments? **N**

5. Are there unidentified materials, chemicals, or wastes, etc., on site? **N**

**GENERAL INFORMATION**

Are there open adits or shafts present? (circle one) **yes**  
**no**

Are there dangerous structures present? (circle one) **yes**  
**no**

Total area/Disturbed area (acres) **1**  
/ 

Level of public interest: Low **X**  
Medium ____  
High ____

**EHB**  
Signature  
**8/02/94**  
Date

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name: Bullion Mine Region: Forest BLM District: Site No: HA 329

CRITERIA B Answer each question with Y = yes, or N = no.

N 6. Is site under regulatory or legal action?

Y 7. Is there a mine waste stability concern?

N 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No
(b) Is vegetation affected? Yes No
(c) Is pH value < 4? Yes No
(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, It is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date value date value
pH value date value date value
Specific conductivity date value date value

NFS Watershed Code: Affected stream name and length: Bullion Gulch

Total area/Disturbed area (acres) 2 / Adit No. Shaft No.

Impoundment area (acres) Tailings (yd³) Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain:

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No If YES Film roll number 519125 Frame numbers 13A

EHB Signature 8/02/94 Date

66
Bullion Mine (upper dump) — HA 329

Site Description (Figure 50)

The dump here looks like jig tailings, which covered this area according to Plate 3 in Anderson and others, 1950 (IBMG Pamphlet 90). The main dump of the Durango tunnel is about 500 feet down the road.

Summary and Preliminary Recommendations

The old tailings all along Bullion Gulch should be sampled. Because of the arid environment, it is probably best to leave them alone.
Figure 50. Topographic map of the Bullion Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 51. Possible jig tailings at the Bullion Mine in Bullion Gulch (Roll 519125, frame #13A).
AIM SITE DISCOVERY FORM

Name: Eureka Mine Region Forest BLM District Site No. HA 320

State ID County Blaine Lat. 43-30-11 Long. 114-24-33 Tract #

Principal Meridian BOISE Section 15 Township 2N Range 17E USGS 7.5 Quad Mahoney Butte


CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

  3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N (d) Are there domestic wells within a 4-mile radius of the site?

N (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 0.75

Level of public interest: Low X Medium ___ High ___

EHB Signature 8/02/94 Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
(circle one potential)  

Name _Eureka Mine_  Region ___  Forest  _BLM_  District ___  Site No.  _HA 320_

CRITERIA B  Answer each question with Y=yes, or N=no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  
   Yes  No

(b) Is vegetation affected?  
   Yes  No

(c) Is pH value < 4?  
   Yes  No

(d) Others (explain)  
   Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:

<table>
<thead>
<tr>
<th>Flow rate (cfs)</th>
<th>date</th>
<th>value</th>
<th>date</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>date</td>
<td>value</td>
<td>date</td>
<td>value</td>
</tr>
<tr>
<td>Specific conductivity</td>
<td>date</td>
<td>value</td>
<td>date</td>
<td>value</td>
</tr>
</tbody>
</table>

NFS Watershed Code_____________  Affected stream name and length______________

Total area/Disturbed area (acres)________/________  Adit No.______  Shaft No.______

Impoundment area (acres)__________  Tailings (yd³)________  Waste Rock (yd³)________

Structures (buildings, headframes, mills, etc.) Explain: _headframe, hoist shed_

Other data, comments, and explanations included on the back of this page? Yes _X_  No____

Picture taken? Yes _X_  No___  If YES Film roll number 519125; 519128  Frame numbers 8A; 2A-3A

EHB ________   8/02/94

Signature  Date
Eureka Mine (shaft and lower dump) — HA 320

Site Description (Figure 52)

The Eureka Mine is located on the east fork of Bullion Gulch about 1/2 mile north of the junction with the road that goes to the Jay Gould Mine. The Eureka has an inclined shaft and a dry, caved adit on a large dump (Figure 53). The hoist is intact, and the shaft is caved about 15 feet down. The dump covers about 3/4 acre and is about 20 feet deep. There is no water issuing from the site.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 52. Topographic map of the Eureka Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map).
Figure 53. Mayflower and/or Eureka dumps. The building is the hoist house for the inclined shaft. The upper (Whale) dump has a small building by the road (Roll 519125, frame #8A).
**AIM SITE DISCOVERY FORM**

Name: **Mayflower Mine** Region ___ Forest **BLM** District ___ Site No. **HA 328**

State ID County **Blaine** Lat. **43-29-55** Long. **114-24-59** Tract #

Prin. Meridian **BOISE** Section 22 Township 2E Range 17E USGS 7.5 Quad **Richardson Summit**

Land Ownership (circle one) **Private land; BLM land; FS land; Mixture; Undetermined**; if private land, does it affect FS land? **If no, stop here.**

**CRITERIA A** Answer each question with Y = yes or N = no.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Y</strong></td>
<td>1. Are there adits with discharge or evidence of discharge?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>2. Are there millsites or tailings present?</td>
</tr>
<tr>
<td></td>
<td>3. If the mine waste rock volume is &gt; 500 yd³, then complete (a) through (e), otherwise go to 4.</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(a) Is the potential source located in a municipal watershed?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(b) Is the potential source located in a floodplain?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(d) Are there domestic wells within a 4-mile radius of the site?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(e) Are there surface water intakes within 15 miles downstream of the site?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>4. Is there known damage to fisheries, T&amp;E species, downstream aquatic communities, wetlands, or other sensitive environments?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>5. Are there unidentified materials, chemicals, or wastes, etc., on site?</td>
</tr>
</tbody>
</table>

**GENERAL INFORMATION**

Are there open adits or shafts present? (circle one) **yes** **no**

Are there dangerous structures present? (circle one) **yes** **no**

Total area/Disturbed area (acres) **2** /

Level of public interest: Low **X** Medium ____ High ____

**EHB** **8/02/94**

Signature **Date**

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name  Mayflower Mine  Region  Forest  BLM  District  Site No.  HA 328

CRITERIA B  Answer each question with Y=yes, or N=no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No
(b) Is vegetation affected?  Yes  No
(c) Is pH value < 4?  Yes  No
(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, It is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
  Flow rate (cfs)  date 8/02/94  value trickle  date___  value___
  pH value  date 8/02/94  value 8.1  date___  value___
  Specific conductivity  date 8/02/94  value 550  date___  value___

NFS Watershed Code  Affected stream name and length  Bullion Gulch

Total area/Disturbed area (acres) 2 /  Adit No. 1  Shaft No.

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain: none

Other data, comments, and explanations included on the back of this page?  Yes  No

Picture taken?  Yes  No  If YES Film roll number 519125  Frame numbers 12A

EHB  Signature  8/02/94  Date
Mayflower Mine — HA 328

Site Description (Figure 54)

This property is at a sharp turn in the road to the Jay Gould Mine, which is higher up Bullion Gulch. The Mayflower was a major producing mine with thousands of feet of underground workings. Probably both of the large, iron-stained dumps at this site are part of it. An open adit has a trickle of water coming out of it (Figure 55). The water has a pH of 8.1 and a conductivity of 550. The dumps cover about 2 acres. There is part of an old compressor at the base of the main dump.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 54. Topographic map of the Mayflower Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 55. Site of the open adit on the upper dump at the Mayflower Mine (Roll 519125, frame #12A).
AIM SITE DISCOVERY FORM

Name: Croesus Mine Region Forest BLM District Site No. HA 354

State ID County Blaine Lat. 43-28-26 Long. 114-20-49 Tract 

Principal Meridian BOISE Section 30 Township 2N Range 18E USGS 7.5 Quad Bellevue

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

Y 2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   maybe (a) Is the potential source located in a municipal watershed?

   (b) Is the potential source located in a floodplain? Croesus Gulch enters Croy Creek.

   N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   maybe (d) Are there domestic wells within a 4-mile radius of the site?

   maybe (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no 1 structurally weak platform at Site B

Total area/Disturbed area (acres) 40 / 20

Level of public interest: Low Medium X High

Tamra Schiappa ________________ 8/05/94

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name Croesus Mine, Region Forest BLM District Site No. HA 354

CRITERIA B Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No

(b) Is vegetation affected? Yes No

(c) Is pH value < 4? Yes No

(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date____ value____ date____ value____
pH value date____ value____ date____ value____
Specific conductivity date____ value____ date____ value____

Dry.

NFS Watershed Code Affected stream name and length

Total area/Disturbed area (acres) / Adit No. Shaft No.

Impoundment area (acres) Tailings (yd³) Waste Rock (yd³) 5,000

Structures (buildings, headframes, mills, etc.) Explain: Mill foundation, platform at site B for loading ore

Other data, comments, and explanations included on the back of this page? Yes X No

Picture taken? Yes X No If YES Film roll number 8443 (T1) Frame numbers 29 - 36

Tamra Schiappa Signature 8/04/94 Date

81
Croesus Mine — HA 354

See Figure 56 for locations of the features at this site.

**Site A: Mill foundation**

The foundation for the mill is at this site (Figure 57). Mine workings consist of a collapsed adit (Figure 58) and a caved shaft (Figure 59). No drainage from the adit was noted. A fairly large dump contains about 5,000 cubic yards of material. The tailings pile is covered with vegetation. Prospect pits, none of which is very large, are located around the area. The pits average about 4 feet deep and 5 feet in diameter. Miscellaneous junk is scattered around the site, including lumber, scrap iron, nails, cable, pipes, metal roofing, nuts and bolts, and rails.

**Site B: Adit with loading platform**

The adit has caved, but the timbers at the portal are in good shape (Figure 60). A loading platform near the adit may be somewhat dangerous. It does not appear to be very sturdy. The dump at this site contains less than 50 cubic yards of material (Figure 61). A compressor is adjacent to the adit (Figure 62).
Figure 56. Topographic map of the Croesus Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 57. Mill foundation at Site A of the Croesus Mine (Roll 8443 (T1), frame #36A).

Figure 58. Rails coming out of a collapsed adit at Site A of the Croesus Mine (Roll 8443 (T1), frame #34A).
Figure 59. Collapsed shaft at Site A of the Croesus Mine (Roll 8443 (T1), frame #35A).

Figure 60. Caved adit at Site B of the Croesus Mine (Roll 8443 (T1), frame #32A).
Figure 61. Looking upward toward Site B at the Croesus Mine. Note the top of the compressor to the left of the adit (Roll 8443 (T1), frame #31A).

Figure 62. Compressor adjacent to the adit at Site B of the Croesus Mine (Roll 8443 (T1), frame #33A).
<table>
<thead>
<tr>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
</table>

**AIM SITE DISCOVERY FORM**

Name: Bay State Mine  Region  Forest  BLM  District  Site No: HA 315

State  ID  County  Blaine  Lat. 43-30-41  Long. 114-25-20  Tract #

Principal Meridian BOISE  Section 15  Township 2N  Range 17E  USGS 7.5 Quad Mahoney Butte

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? **If no, stop here.**

**CRITERIA A** Answer each question with Y=yes or N=no.

N  1. Are there adits with discharge or evidence of discharge?

N  2. Are there millsites or tailings present?

3. If the mine waste rock volume is $> 500 \text{ yd}^3$, then complete (a) through (e), otherwise go to 4.

N  (a) Is the potential source located in a municipal watershed?

N  (b) Is the potential source located in a floodplain?

N  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N  (d) Are there domestic wells within a 4-mile radius of the site?

N  (e) Are there surface water intakes within 15 miles downstream of the site?

N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

**GENERAL INFORMATION**

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 2

Level of public interest: Low  X  Medium  High

EHB  Signature  8/02/94  Date

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name  Bay State Mine    Region  Forest    BLM    District    Site No.  HA 315

CRITERIA B Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes  No
(b) Is vegetation affected? Yes  No
(c) Is pH value < 4? Yes  No
(d) Others (explain) Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date___ value___ date___ value___
pH value date___ value___ date___ value___
Specific conductivity date___ value___ date___ value___

NFS Watershed Code_______ Affected stream name and length___________

Total area/Disturbed area (acres)_______ / _______ Adit No._______ Shaft No._______

Impoundment area (acres)___________ Tailings (yd³)_______ Waste Rock (yd³)_______

Structures (buildings, headframes, mills, etc.) Explain:______________________________

Other data, comments, and explanations included on the back of this page? Yes  X  No____

Picture taken? Yes  No  X  If YES Film roll number ________ Frame numbers ________

EHB_______ 8/02/94
Signature  Date
Bay State Mine — HA 315

Site Description

A series of small pits and possible caved adits was noted at this site. A sample of spring water from east of the road near the Bay State Mine has a pH of 8.3 and conductivity of 340. Figure 63 shows the location of the mine.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 63. Topographic map of the Bay State Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map).
# AIM SITE DISCOVERY FORM

**Granite tunnel**

Name: **King of the Hills Mine** Region – Forest **BLM** District **HA 317**

State **ID** County **Blaine** Lat. **43-30-27** Long. **114-24-58** Tract # __________

Principal Meridian **BOISE** Section **15** Township **2N** Range **17E** USGS 7.5 Quad **Mahoney Butte**

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? **If no, stop here.**

**CRITERIA A** Answer each question with **Y = yes or N = no.**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>N</strong></td>
<td>1. Are there adits with discharge or evidence of discharge?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>2. Are there millsites or tailings present?</td>
</tr>
<tr>
<td></td>
<td>3. If the mine waste rock volume is &gt; 500 yd³, then complete (a) through (e), otherwise go to 4.</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(a) Is the potential source located in a municipal watershed?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(b) Is the potential source located in a floodplain?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(d) Are there domestic wells within a 4-mile radius of the site?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>(e) Are there surface water intakes within 15 miles downstream of the site?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>4. Is there known damage to fisheries, T&amp;E species, downstream aquatic communities, wetlands, or other sensitive environments?</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>5. Are there unidentified materials, chemicals, or wastes, etc., on site?</td>
</tr>
</tbody>
</table>

## GENERAL INFORMATION

Are there open adits or shafts present? (circle one) **yes** **no**

Are there dangerous structures present? (circle one) **yes** **no**

Total area/Disturbed area (acres) **0.5** / __________

Level of public interest: Low **X** Medium ____ High ____

<table>
<thead>
<tr>
<th><strong>EHB</strong></th>
<th><strong>8/02/94</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td>Date</td>
</tr>
</tbody>
</table>

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Granite tunnel)  
Name  King of the Hills Mine  Region  Forest  BLM  District  Site No.  HA 317

CRITERIA B  Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?
N  7. Is there a mine waste stability concern?
N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No
(b) Is vegetation affected?  Yes  No
(c) Is pH value < 4?  Yes  No
(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value  date  value
pH value  date  value  date  value  date  value
Specific conductivity  date  value  date  value  date  value

NFS Watershed Code  Affected stream name and length

Total area/Disturbed area (acres)  /  Adit No. 1  Shaft No.
Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain:

Other data, comments, and explanations included on the back of this page? Yes  X  No

Picture taken? Yes  No  X  If YES Film roll number  Frame numbers

EHB  8/02/94
Signature  Date
King of the Hills (Granite Tunnel) — HA 317

Site Description

This is a caved adit in granite. Figure 64 shows the location of the mine.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 64. Topographic map of the King of the Hills Mine (Granite Tunnel) and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map).
(circle one potential)  LOW  MEDIUM  HIGH

AIM SITE DISCOVERY FORM

Name: Whale Mine  Region  Forest  BLM  District  Site No.  HA 319

State  County  Blaine  Lat. 43-30-17  Long. 114-24-37  Tract #

Principal Meridian  Boise  Section 15  Township 2N  Range 17E  USGS 7.5 Quad Mahoney Butte

Land Ownership (circle one)  Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A  Answer each question with Y=yes or N=no.

N  1. Are there adits with discharge or evidence of discharge?

N  2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   N  (a) Is the potential source located in a municipal watershed?

   Y  (b) Is the potential source located in a floodplain?

   N  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   N  (d) Are there domestic wells within a 4-mile radius of the site?

   N  (e) Are there surface water intakes within 15 miles downstream of the site?

N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one)  yes  no

Are there dangerous structures present? (circle one)  yes  no

Total area/Disturbed area (acres)  0.75 /

Level of public interest: Low  X  Medium  High

EHB  8/02/94

Signature  Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
(circle one potential)  MEDIUM  HIGH

Name  Whale Mine  Region  Forest  BLM  District  Site No.  HA 319

CRITERIA B  Answer each question with Y = yes, or N = no.

____  6. Is site under regulatory or legal action?

____  7. Is there a mine waste stability concern?

____  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer
to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No

(b) Is vegetation affected?  Yes  No

(c) Is pH value < 4?  Yes  No

(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a
MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value
pH value  date  value  date  value
Specific conductivity  date  value  date  value

NFS Watershed Code  Affected stream name and length

Total area/Disturbed area (acres)  /  Adit No.  Shaft No.

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain: old building by the road.

Other data, comments, and explanations included on the back of this page? Yes  No

Picture taken? Yes  No  If YES Film roll number 519125  Frame numbers 8A, 9A

EHB  Signature  8/02/94  Date

96
Whale Mine (upper dump) — HA 319

Site Description (Figure 65)

There is a large dump with an old building by the road just north of the Eureka Mine in Bullion Gulch (Figure 53). The tunnel is caved and dry. The dump crosses the gulch (Figure 66). It covers about 3/4 acre and is about 20 feet deep.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 65. Topographic map of the Whale Mine and vicinity (U.S. Geological Survey Mahoney Butte 7.5-minute topographic map).
Figure 66. Whale dump. The Mayflower and/or Eureka dump is down the gully on the far left center of the picture (Roll 519125, frame #9A).
AIM SITE DISCOVERY FORM

Name: Idahoan Mine Region Forest BLM District Site No. HA 321

State ID County Blaine Lat. 43-30-01 Long. 114-24-13 Tract #

Principal Meridian BOISE Section 14 Township 2N Range 17E USGS 7.5 Quad Mahoney Butte

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there mill sites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

   N  (a) Is the potential source located in a municipal watershed?

   Y  (b) Is the potential source located in a floodplain?

   N  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   N  (d) Are there domestic wells within a 4-mile radius of the site?

   N  (e) Are there surface water intakes within 15 miles downstream of the site?

N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) ≈ 20 /

Level of public interest: Low X Medium ___ High ___

EHB ___________________________ 8/02/94

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name Idahoan Mine  Region  Forest  BLM  District  Site No. HA 321

CRITERIA B Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

N  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No

(b) Is vegetation affected?  Yes  No

(c) Is pH value < 4?  Yes  No

(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value
pH value  date  value  date  value
Specific conductivity  date  value  date  value

NFS Watershed Code___  Affected stream name and length unnamed tributary to Bullion Gulch

Total area/Disturbed area (acres) ≈ 20  Adit No. ≈ 4  Shaft No. 1

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain: old caved shaft, brick foundation for headframe

Other data, comments, and explanations included on the back of this page? Yes X  No____

Picture taken? Yes X  No  If YES Film roll number 519125  Frame numbers 15A-18A

EHB  Signature  8/02/94  Date
Idahoan Mine — HA 321

Site Description (Figure 67)

About 1/4 mile south of the Durango Tunnel of the Bullion Mine in Bullion Gulch, a road goes up a gulch to the east. At the end of the road is a big dump on the north side of the gulch (Figure 68). At the east end of this dump is a pile of brick marking a hoist house and a caved shaft (Figure 69). Across the gulch to the south are three or four more small dumps and caved adits, each with several hundred feet of workings (based on the size of the dumps). The main dump is several hundred feet long, but only 15-20 feet wide and 50 feet thick. All workings are in the Dollarhide Formation and are dry.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 67. Topographic map of the Idahoan Mine and vicinity (U.S. Geological Survey Mahoney Butte and Richardson Summit 7.5-minute topographic map).
Figure 68. Idahoan dump, which is in a gulch that is tributary to Bullion Gulch (Roll 519125, frame #18A).
Figure 69. Caved shaft at the Idahoan Mine, with the remains of the foundation for the headframe at the top of the picture (Roll 519125, frame #15A).
Lipman tunnel
Name: Red Elephant Mine Region Forest BLM District Site No. HA 326A

State ID County Blaine Lat. 43-29-23 Long. 114-25-50 Tract #

Prin. Meridian BOISE Section 21 Township 2N Range 17E USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y = yes or N = no.

Y 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

Y 3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

Y (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

Y (d) Are there domestic wells within a 4-mile radius of the site?

Y (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 2 /

Level of public interest: Low X Medium ___ High ___

EHB ___________________________ 8/02/94 ___________________________

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Lipman tunnel
Name Red Elephant Mine Region Forest BLM District Site No. HA 326A

CRITERIA B Answer each question with Y=yes, or N=no.

N 6. Is site under regulatory or legal action?

N 7. Is there a mine waste stability concern?

N 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No
(b) Is vegetation affected? Yes No
(c) Is pH value < 4? Yes No
(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date 8/02/94 value 3-5 gpm date value
pH value date 8/02/94 value 7.7 date value
Specific conductivity date 8/02/94 value 300 date value

NFS Watershed Code Affected stream name and length Elk Creek; Red Elephant Gulch

Total area/Disturbed area (acres) 2 / Adit No. 1 Shaft No. 0
Impoundment area (acres) Tailings (yd³) Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain: collapsed building

Other data, comments, and explanations included on the back of this page? Yes X No__

Picture taken? Yes X No If YES Film roll number 519125 Frame numbers 22A, 30A

EHB Signature 8/02/94 Date
Red Elephant Mine (Red Elephant Consolidated or Lipman Tunnel) — HA 326

Site Description (Figure 70)

A big dump measuring about 100 feet long, 50 feet wide, and 15 feet high (Figure 71) is located in the valley of Red Elephant Gulch (Elk Creek). There is a caved adit with about 3-5 gallons of water per minute flowing out of it. The pH of this clear, cold water is 7.7 and the conductivity is 300. There is a collapsed structure on the site.

History

This tunnel, which is 2,000+ feet long, was started at the time of Umpleby’s visit in 1913 and is shown in Umpleby and others (1930, p. 149). It was intended that the Durango tunnel, which was driven from Bullion Gulch, would intercept this tunnel. However, the tunnels were never connected.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 70. Topographic map of the Red Elephant Mine (Lipman tunnel) and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 71. Lower dump in Red Elephant Gulch at the Lipman tunnel of the Red Elephant Mine. The other four dumps are up the gulch to the right (Roll 519125, frame #23A).
(circle one potential)            LOW                  MEDIUM               HIGH

AIM SITE DISCOVERY FORM

Name: Jay Gould Mine       Region ___ Forest  BLM  District ___ Site No.  HA 327

State ID  County Blaine ___ Lat. 43-29-55 Long. 114-25-00 Tract # ______________

Prin. Meridian BOISE  Section 22  Township 2N  Range 17E  USGS 7.5 Quad Richardson Summit

Land Ownership (circle one)  Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A  Answer each question with Y = yes or N = no.

N  1. Are there adits with discharge or evidence of discharge?

N  2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N  (a) Is the potential source located in a municipal watershed?

N  (b) Is the potential source located in a floodplain?

N  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N  (d) Are there domestic wells within a 4-mile radius of the site?

N  (e) Are there surface water intakes within 15 miles downstream of the site?

N  4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N  5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one)  yes  no

Are there dangerous structures present? (circle one)  yes  no

Total area/Disturbed area (acres)  3 / __________

Level of public interest: Low  X  Medium ___ High ___

EHB ___________________________  8/02/94

Signature    Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.

111
Name:  Jay Gould Mine  
Region:  Forest  BLM  District:  Site No.:  HA 327

CRITERIA B  Answer each question with Y = yes, or N = no.

N  6. Is site under regulatory or legal action?

Y  7. Is there a mine waste stability concern?

N  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No
(b) Is vegetation affected?  Yes  No
(c) Is pH value < 4?  Yes  No
(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value
pH value  date  value  date  value
Specific conductivity  date  value  date  value

NFS Watershed Code:  Affected stream name and length:  Bullion Gulch

Total area/Disturbed area (acres)  3  /  Adit No.  1  Shaft No.

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain:  none.

Other data, comments, and explanations included on the back of this page? Yes  X  No

Picture taken? Yes  X  No  If YES Film roll number 519125  Frame numbers 11A

EHB  Signature  8/02/94  Date

112
Jay Gould Mine — HA 327

Site Description (Figure 72)

A large dump (Figure 73) above what is believed to be the Mayflower Mine is probably the Jay Gould. This dump has a caved adit and is dry. There are several small dumps above this one. The Jay Gould and Mayflower were on the same vein and close together. All of these mines are in the Dollarhide Formation, which contains considerable carbonate. Even if there was an acid mine water problem, it would probably be neutralized by the lime in the rock.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 72. Topographic map of the Jay Gould Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 73. Upper dump of the Jay Gould Mine (Roll 519125, frame #11A).
AIM SITE DISCOVERY FORM

Name: **War Eagle Tunnel** Region **Forest** BLM District Site No. **HA 328A**

State ID County **Blaine** Lat. **43-29-49** Long. **114-24-53** Tract #

Prin. Meridian BOISE Section 22 Township 2N Range 17E USGS 7.5 Quad **Richardson Summit**

Land Ownership (circle one) **Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.**

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N (d) Are there domestic wells within a 4-mile radius of the site?

N (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 0.75 /

Level of public interest: Low X Medium High

EHB 8/02/94

Signature Date

*If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.*
Name  War Eagle Tunnel  Region  Forest  BLM  District  Site No.  HA 328A

CRITERIA B Answer each question with Y = yes, or N = no.

____  6. Is site under regulatory or legal action?

____  7. Is there a mine waste stability concern?

____  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No

(b) Is vegetation affected?  Yes  No

(c) Is pH value < 4?  Yes  No

(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:

<table>
<thead>
<tr>
<th>Flow rate (cfs)</th>
<th>Date</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>Date</td>
<td>Value</td>
</tr>
<tr>
<td>Specific conductivity</td>
<td>Date</td>
<td>Value</td>
</tr>
</tbody>
</table>

NFS Watershed Code  A affected stream name and length

Total area/Disturbed area (acres)  Adit No.  Shaft No.

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³)

Structures (buildings, headframes, mills, etc.) Explain:

Other data, comments, and explanations included on the back of this page? Yes  No

Picture taken? Yes  No  If YES Film roll number  519125  Frame numbers 10A

EHB  Signature  8/02/94  Date
Site Description (Figure 74)

This is a big dump and a dry caved adit. Parts of an old gas engine and a windlass are on the dump (Figure 75). There is no water problem.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 74. Topographic map of the War Eagle Tunnel and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 75. Mine dump at the War Eagle tunnel, just south of the Jay Gould Mine (Roll 519125, frame #10A).
AIM SITE DISCOVERY FORM

Name: Brown tunnel/Ophir shaft  Region    Forest  BLM  District    Site No. HA 331

State  ID  County  Blaine  Lat. 43-29-38  Long. 114-24-41  Tract #    

Prin. Meridian  BOISE  Section  22  Township  2N  Range  17E  USGS 7.5 Quad  Richardson Summit

Land Ownership (circle one)  Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land?  If no, stop here.

CRITERIA A  Answer each question with Y = yes or N = no.

N  1. Are there adits with discharge or evidence of discharge?

N  2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd^3, then complete (a) through (e), otherwise go to 4.

   (a) Is the potential source located in a municipal watershed?

   (b) Is the potential source located in a floodplain?

   (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

   (d) Are there domestic wells within a 4-mile radius of the site?

   (e) Are there surface water intakes within 15 miles downstream of the site?

   4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

   5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one)  yes  no

Are there dangerous structures present? (circle one)  yes  no

Total area/Disturbed area (acres)  <0.5  /

Level of public interest: Low  X  Medium  ___  High  ___

EHB  ______________________  8/02/94

Signature  Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name Brown tunnel/Ophir shaft Region ___ Forest ___ BLM ___ District ___ Site No. HA 331

CRITERIA B Answer each question with Y=yes, or N=no.

____ 6. Is site under regulatory or legal action?

____ 7. Is there a mine waste stability concern?

____ 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No

(b) Is vegetation affected? Yes No

(c) Is pH value < 4? Yes No

(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs) date____ value____ date____ value____
pH value date____ value____ date____ value____
Specific conductivity date____ value____ date____ value____

NFS Watershed Code___________ Affected stream name and length___________

Total area/Disturbed area (acres) / / Adit No._______ Shaft No._______

Impoundment area (acres)________ Tailings (yd³)_______ Waste Rock (yd³)_______

Structures (buildings, headframes, mills, etc.) Explain:________________________________________

________________________________________________________________________

Other data, comments, and explanations included on the back of this page? Yes X No____

Picture taken? Yes No X If YES Film roll number ___________ Frame numbers _____________

EHB ___________________________ 8/02/94

Signature __________________________ Date
Brown Tunnel and/or Ophir Shaft — HA 331

Site Description (Figure 76)

There is a caved adit and a small dump at this site. Both are dry.

Summary and Preliminary Recommendations

No action is required at this site.
Figure 76. Topographic map of the Brown Tunnel/Ophir Shaft area and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
AIM SITE DISCOVERY FORM

Name: Magdalena Mine Region ___ Forest BLM District ___ Site No. HA 368

State ID County Blaine Lat. 42-29-02 Long. 114-19-32 Tract #___________

Principal Meridian BOISE Section 29 Township 2N Range 18E USGS 7.5 Quad Bellevue

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y=yes or N=no.

Y 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

   3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

     maybe
     a) Is the potential source located in a municipal watershed?

     maybe
     (b) Is the potential source located in a floodplain? Colorado Gulch drains into Big Wood River

     N  (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

     maybe
     (d) Are there domestic wells within a 4-mile radius of the site?

     maybe
     (e) Are there surface water intakes within 15 miles downstream of the site?

Y 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) __yes___ no ___ partially open

Are there dangerous structures present? (circle one) __yes___ no ___

Total area/Disturbed area (acres) ___ 40/20___

Level of public interest: Low ___ Medium ___X___ High ___

Tamra Schiappa __Signature__ 8/05/94 ___Date___

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name **Magdalena Mine** Region _____ Forest BLM District ____ Site No. **HA 368**

**CRITERIA B** Answer each question with Y = yes, or N = no.

**N** 6. Is site under regulatory or legal action?

**N** 7. Is there a mine waste stability concern?

**N** 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.
   
   (a) Is surface water discolored? Yes No
   
   (b) Is vegetation affected? Yes No
   
   (c) Is pH value < 4? Yes No
   
   (d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

**DETAIL DESCRIPTION/COMMENTS** (fill in as much information as appropriate)

Stream or discharge water:
   
   Flow rate (cfs) date_____ value_____ date_____ value_____ date_____ value_____  
   pH value date_____ value_____ date_____ value_____ date_____ value_____  
   Specific conductivity date_____ value_____ date_____ value_____ date_____ value_____  

NFS Watershed Code_________ Affected stream name and length__________

Total area/Disturbed area (acres)_____ /_____ Adit No. _____ Shaft No. _____

Impoundment area (acres)_________ Tailings (yd^3)_____ Waste Rock (yd^3)_____  

Structures (buildings, headframes, mills, etc.) Explain: **Collapsed metal building, compressed air storage tank, large metal building (contains a trailer, bulldozer or backhoe, pickup, sedan, and barrels), above ground fuel tanks, loading dock, storage sheds (1 collapsed, 1 standing)**

Other data, comments, and explanations included on the back of this page? Yes [X] No ______

Picture taken? Yes [X] No If YES Film roll no. **8450 (T2)** Frame numbers **1A-7A, 20A, 21A**

_____ **Tamra Schiappa** Signature 8/05/94 Date

126
Magdalena Mine — HA 368

Figure 77 shows the locations of the features at this property.

Site A: Caved adit

The adit at this site has collapsed, and trenches have been excavated in the area. An old compressor is next to the adit (Figure 78). Some old car parts are near the compressor. The drum and cables for a hoist are lying on the ground near the adit (Figure 79). Iron rails and wooden timbers are on the dump near the adit (Figure 80). The dump contains less than 100 cubic yards of material.

Site A1: Main mine site (recent operation)

The tunnel at this site has collapsed. The area behind the portal appears to have been trenched (Figure 81). A compressed air storage tank with pipes connecting it to the adit and to the compressor building (Figure 82) is located nearby. The roof of the compressor building, which was constructed of sheet metal, has been caved in by heavy snow. A large metal building houses a trailer, a bulldozer, a backhoe, barrels, old cars, and an old pickup (Figure 83). The interior of the building smells oily. An above-ground fuel tank and miscellaneous machine parts are lying on the ground (Figure 84). A rail system leads to a loading dock (Figure 85). A pile of trash is next to the loading dock.

Site B: Large metal building

This building houses heavy equipment.

Atlantis Mining Company had a small pilot mill at the Magdalena in the mid-1980s. It was probably housed in this building.

Site T2

The collapsed adits at this site are probably part of the Magdalena. Anderson and others (1950) noted that some of the workings at the Magdalena extend across the divide between Colorado Gulch and Croy Creek and a short distance down the Croy Creek slope.
Figure 77. Topographic map of the Magdalena Mine and vicinity (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 78. Closed adit with a compressor beside it at Site A of the Magdalena Mine (Roll 8450 (T2), frame #1A).

Figure 79. Truck axle, a drum from a hoist, and other machine parts at Site A of the Magdalena Mine (Roll 8450 (T2), frame #2A).
Figure 80. Dump at Site A of the Magdalena Mine. The timbers and rails on the
dump are the remains of the rail system that led from the adit (Roll 8450 (T2),
frame #3A).

Figure 81. Old adit (posted) and compressed air storage tank at Site A₁ of the
Magdalena Mine (Roll 8450 (T2), frame #5A).
Figure 82. Collapsed metal building at Site A$_1$ of the Magdalena Mine. Note the compressed air storage tank at the extreme right edge of the photograph (Roll 8450 (T2), frame #4A).

Figure 83. Metal storage building at Site A$_1$ of the Magdalena Mine (Roll 8450 (T2), frame #7A).
Figure 84. Fuel tank and a blower from the ventilation system for the mine at Site $A_1$ of the Magdalena Mine (Roll 8450 (T2), frame #6A).

Figure 85. Loading dock and trash, with the collapsed compressor building in the background, at Site $A_1$ of the Magdalena Mine (Roll 8450 (T2), frame #21A).
Figure 86. Storage shed for heavy equipment at Site B of the Magdalena Mine (Roll 8450 (T2), frame #20A).
AIM SITE DISCOVERY FORM

Name: **Tip Top Mine** Region **Forest** BLM District **Site No. HA 1217**

State **ID** County **Blaine** Lat. **43-24-56** Long. **114-27-40** Tract # **_________**

Prin. Meridian **BOISE** Section **17** Township **1N** Range **17E** USGS 7.5 Quad **Richardson Summit**

Land Ownership (circle one) Private land; **BLM land**; FS land; Mixture; Undetermined; if private land, does it affect FS land? **If no, stop here.**

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N (d) Are there domestic wells within a 4-mile radius of the site?

N (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) **yes no**

Are there dangerous structures present? (circle one) **yes no**

Total area/Disturbed area (acres) **5 / 2**

Level of public interest: Low **X** Medium ____ High ____

**Tamra Schiappa** 8/05/94

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name  Tip Top Mine  Region  Forest  BLM  District  Site No. HA 1217

CRITERIA B  Answer each question with Y = yes, or N = no.

___  6. Is site under regulatory or legal action?

___  7. Is there a mine waste stability concern?

___  8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored?  Yes  No

(b) Is vegetation affected?  Yes  No

(c) Is pH value < 4?  Yes  No

(d) Others (explain)  Yes  No

If question (6), (7), or (8) is answered yes, it is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

DETAIL DESCRIPTION/COMMENTS (fill in as much information as appropriate)

Stream or discharge water:
Flow rate (cfs)  date  value  date  value
pH value  date  value  date  value
Specific conductivity  date  value  date  value

NFS Watershed Code  Affected stream name and length

Total area/Disturbed area (acres)  Adit No.  Shaft No.

Impoundment area (acres)  Tailings (yd³)  Waste Rock (yd³) < 500

Structures (buildings, headframes, mills, etc.) Explain:

Other data, comments, and explanations included on the back of this page? Yes  No

Picture taken? Yes  No  If YES Film roll number 8450 (T2); 1060 (T3) Frame numbers 25; 1-2

Tamra Schiappa  8/05/94
Signature  Date

135
Tip Top Mine — HA 1217

There is a closed adit at this site (Figure 87). Vegetation is growing in the collapsed area (Figure 88). There is a fairly large dump associated with the adit (Figure 89). Miscellaneous mine waste (i.e., lumber and iron scraps) is scattered around the site. There are two prospect pits in the surrounding area.
Figure 87. Topographic map of the Tip Top Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 88.Collapsed adit, covered with vegetation, at the Tip Top Mine (Roll 8450 (T2), frame #25).

Figure 89.Dump from the adit at the Tip Top Mine (Roll 1060 (T3), frame #1).
AIM SITE DISCOVERY FORM

Name: Golden Star Mine Region ____ Forest BLM District ____ Site No. HA 1222

State ID County Blaine Lat. 43-24-03 Long. 114-27-43 Tract # __________

Prin. Meridian BOISE Section 20 Township 1N Range 17E USGS 7.5 Quad Richardson Summit

Land Ownership (circle one) Private land; BLM land; FS land; Mixture; Undetermined; if private land, does it affect FS land? If no, stop here.

CRITERIA A Answer each question with Y = yes or N = no.

N 1. Are there adits with discharge or evidence of discharge?

N 2. Are there millsites or tailings present?

3. If the mine waste rock volume is > 500 yd³, then complete (a) through (e), otherwise go to 4.

N (a) Is the potential source located in a municipal watershed?

N (b) Is the potential source located in a floodplain?

N (c) Are there dwellings, residences, campsites, or other public use areas nearby (e.g. 200 feet)?

N (d) Are there domestic wells within a 4-mile radius of the site?

N (e) Are there surface water intakes within 15 miles downstream of the site?

N 4. Is there known damage to fisheries, T&E species, downstream aquatic communities, wetlands, or other sensitive environments?

N 5. Are there unidentified materials, chemicals, or wastes, etc., on site?

GENERAL INFORMATION

Are there open adits or shafts present? (circle one) yes no

Are there dangerous structures present? (circle one) yes no

Total area/Disturbed area (acres) 15 / 5-10

Level of public interest: Low _X_ Medium ____ High ____ area used for shooting range

Tamra A. Schiappa __________ 8/05/94

Signature Date

If any answer in CRITERIA A is yes, go to CRITERIA B, otherwise circle LOW on top of page and stop.
Name **Golden Star Mine** Region ____ Forest **BLM** District ____ Site No. **HA 1222**

**CRITERIA B** Answer each question with Y=yes, or N=no.

____ 6. Is site under regulatory or legal action?

____ 7. Is there a mine waste stability concern?

____ 8. Is there evidence of acidic and/or heavy metal conditions present? Check Y if any answer to questions (a) through (d) below is circled.

(a) Is surface water discolored? Yes No

(b) Is vegetation affected? Yes No

(c) Is pH value < 4? Yes No

(d) Others (explain) Yes No

If question (6), (7), or (8) is answered yes, It is a HIGH POTENTIAL SITE, otherwise, it is a MEDIUM POTENTIAL SITE. Circle the appropriate entry on the top of the page and continue.

**DETAIL DESCRIPTION/COMMENTS** (fill in as much information as appropriate)

Stream or discharge water:
- Flow rate (cfs) date_____ value_____ date_____ value_____
- pH value date_____ value_____ date_____ value_____ Specific conductivity date_____ value_____ date_____ value_____

NFS Watershed Code___________ Affected stream name and length__________

Total area/Disturbed area (acres)_____/______ Adit No.______ Shaft No._____

Impoundment area (acres)__________ Tailings (yd^3)______ Waste Rock (yd^3)_____

Structures (buildings, headframes, mills, etc.) Explain:____________________________________

Other data, comments, and explanations included on the back of this page? Yes _X_ No__

Picture taken? Yes _X_ No__ If YES Film roll number **1060 (T3)** Frame numbers 4, 5

_Tamra A. Schiappa_ 8/05/94
Signature Date

140
Golden Star Mine — HA 1222

There is a large pit on this property (Figures 90 and 91). It appears that someone may be mining this site for gravel or waste rock for road metal or other construction projects. No mining is occurring at present. A bulldozer and dump trucks are on the site.
Figure 90. Topographic map of the Golden Star Mine and vicinity (U.S. Geological Survey Richardson Summit 7.5-minute topographic map).
Figure 91. Large pit, possibly being mined to supply gravel for road construction, at the Golden Star Mine (Roll 1060 (T3), frame #5A).