Site Inspection Report for Abandoned and Inactive Mines on Land Administered by the U.S. Bureau of Land Management in the Challis Resource Area, Idaho: Lemhi and Custer Counties

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Site Inspection Report for Abandoned and Inactive Mines on Lands Administered by the U.S. Bureau of Land Management in the Challis Resource Area, Idaho

Lemhi and Custer Counties

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2005

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AML Site Inspection Report for the Challis Area

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Introduction

This report is part of ongoing work to assess hazards associated with abandoned and inactive mine lands (AML) throughout Idaho. Work performed under the same contract in the Boise Foothills will be in a separate report. Although the focus of this report is properties on BLM administered land, some properties may be partially or totally on private ground, typically surrounded by BLM land, or on other Federal lands adjacent to BLM land. In addition to this written report, an accompanying CDROM contains all the information in digital format including extra photos, maps, and files used to create digital maps using the ArcMap GIS program.

Previous work in the Challis area includes reports for the BLM by the Idaho Geological Survey in 2001 and 2002 (Gillerman and others, 2001, 2002) and a report for the Idaho Department of Parks and Recreation in 2004 (Gillerman and others, 2004) that covered mines in the Bayhorse area on private, BLM and Forest Service administered lands. This report primarily covers mines not included in these reports, though some of the previously studied areas were revisited. Revisited properties included the Ima Mine area south of Patterson Creek, additional workings to the north of the main workings at the Riverview Mine, and the “Powderbox Mine.”

Location

A total of nine properties were investigated in the Challis Resource Area (Figure 1). Two of these properties, the Ima Mine and the Big Creek Mine are in Lemhi County, the rest are in Custer County. Two of the Custer County properties are relatively close to Challis and five properties are near Clayton. The Custer County properties are all on the White Cloud Peaks 1:100,000 quadrangle and the Lemhi County properties are on the Leadore 1:100,000 quadrangle. Information on these properties is summarized in Tables 1 through 4 and provided digitally in the Summary Data spreadsheet. Note that the BLM Resource Area numbers were changed since the 2000-2001 studies, so that is why the numbers may not match up (Table 1).
Figure 1: Project Area. Small blue diamonds indicate mine locations.
### AML Site Inspection Report for the Challis Area, 2005

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<th>Alt/Proposed Name</th>
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**Table 2: Site Locations, Legal descriptions**
AML Site Inspection Report for the Challis Area, 2005

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Table 3: Site Location Coordinates, UTM and Latitude/Longitude.
Figure 2: Custer County Mines with land status. Stars indicate mine location. BLM administered lands in yellow. Grid is UTM Zone 11, NAD27.
Figure 3: Lemhi County Mines with land status. Stars indicate mine location. BLM administered lands in yellow. Grid is UTM Zone 12, NAD27.
Data collection and organization

Field work was conducted in the fall of 2003 through the summer of 2004. Site selection was primarily based on a list provided by the BLM. GPS (Global Positioning System) waypoints were obtained using a handheld Garmin unit (eTrex Legend). This unit typically gives an estimated error within 30 feet, though in some areas where reception was poor the accuracy may be less. Waypoints are UTM with a NAD27 datum. All maps are based on NAD27, UTM Zones 11 and 12. No water or rock samples were collected.

Typically, a full day was spent at the larger properties. In some instances, the larger properties were revisited when additional features were identified or other information became available. Orthophotos proved invaluable for covering the properties more efficiently and locating features which otherwise may not have been found. In some cases, features were identified on the orthophotos or regular photos after fieldwork was completed and it was not feasible to return for a follow-up visit. These are noted in the individual AML Field Checklist reports. From the photos it is possible to see roads, waste piles and other large features though field work is required to verify the information, see if openings are present, and evaluate other hazards.

Most mines were in the IGS (Idaho Geological Survey) database. Where possible, historic names are used. In some cases a name has been assigned to the property based either on a geographic feature or on some other feature of the property. Two properties in the Challis area, the “Powderbox” and “Compressor”, were not in the IGS database although the “Powderbox” had previously been visited during 2001 (Unnamed Prospect Site ID-0084-0018). The quotation marks are used throughout this report to indicate these are not historical names. Though not initially a targeted property for this report, the “Compressor” was noticed during examination of orthophotos.

Maps

USGS 7.5 minute base maps for the Challis area are the Bayhorse, Bald Mountain, and Clayton quadrangles. The outlying Ima Mine and Big Creek Mine are on the west flank of the Lemhi Range, southeast of Ellis, on the Patterson and Big Creek Peak quads, respectively. Digital versions of these maps are available for free on the Idaho Department of Lands website. Orthophoto quads are also available at this site. For convenience, these files are included on the accompanying CD.

The Challis National Forest Travel Map is also useful for anyone working in this area since it has the Forest Service road numbers, identifies property ownership, and covers a large area.
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Data Organization

The AML Field Checklist contains the basic information for each property. These are included in digital format as Word documents. Most of this information is also on spreadsheets in Excel format accompanying this report. These are as follows:

Summary Data Spreadsheet: This includes basic information for each property including the name, a single location point usually based on the “main” adit, millsites, or other prominent feature, and other summary data.

Waypoints Summary: This spreadsheet includes information on each waypoint. For each waypoint, there is a Field ID# and a Final ID#. Maps all use the Final ID numbers. In addition to the property and location, this spreadsheet identifies the feature associated with each waypoint, the azimuth, size, and associated photos. Some waypoints are not directly associated with a mine feature. Typically, these were taken as reference points for a map location, frequently to identify the point a photo was taken from. Waypoints not associated with a specific feature also serve to identify areas that were field checked even if nothing was found there. For example, we would usually take a waypoint on a road which was “walked out” even if no mine workings were found there.

Photo Inventory: This contains a listing of all photos taken. All photos were taken digitally, mostly with an Olympus D510 camera. In some instances, two or more photos were digitally merged to create panoramic views of the mine area. Only a few photos are included in each AML Field Checklist. All photos are included on the data CD accompanying this report. Photos used in the AML Field Checklist reports are resized to make a smaller file size which the Word program handles better.

Field Data Spreadsheet: These spreadsheets were used during fieldwork since they were much simpler to use for fieldwork than the multipage AML forms. They may contain additional comments not entered on the AML form.

Maps: Each AML report typically contains at least two maps. The first is a location map showing the general location of the mine and includes more nearby features. The second is a more detailed view of features at the mine site. These are included as both psd (photoshop) files and as jpg files. The base maps were created in ArcMap, exported as JPG files, then edited using Adobe Photoshop Elements 2.0.

GIS (Graphical Information System) files:

This project used the ESRI ArcMap program although the files should be compatible with other commonly used GIS systems including some of the free programs available on the Internet. Although less powerful than ArcMap, the free programs can be used on any computer for viewing data.
Due to problems with path names when installed on different drives, it is probably easiest to simply rebuild the GIS project on other computers by adding the appropriate data. The digital base maps, orthophotos, shapefiles and other files necessary to recreate the GIS maps are included on the CD. These are used to create a GIS map of the entire area with bookmarks for each property.
GEOLOGY

Custer County Area:

This description of the general geology of the region is excerpted in part from the previous report (Gillerman and others, 2002) with the addition of geologic maps, minor additional text, and deletion of parts not relevant to this project.

Ross (1937) originally mapped the Bayhorse area. More recent studies include Snyder (1978), Hobbs et al. (1991), Fisher (1985), and Worl (1989). Fisher, et al. (1992) published a geologic map of the Challis 1° X 2° quadrangle, which is the most recent coverage of the study area. Hobbs (1985) defined six stratigraphic terranes in the area, provided several more detailed maps, and noted that most of the mines in the area are related to either thrust faults or normal faults. The Bayhorse Anticline and Salmon River Lineament are additional significant structural features in the area.

Figure 4: Geologic Terrane Map. The approximate locations of Custer County mines visited are indicated by the red dots. The “Daugherty Springs Prospect” is just north of the map boundary. Note that most of the mines are very close to either vertical or thrust faults.
The Riverview Mine and "Daugherty Springs Mine" are both located in carbonates on the east flank of the Bayhorse Anticline (Figure 5). Note that the mine locations on these maps are only approximate.

Figure K3: Geologic maps of the Mill Creek-Garden Creek and Bayhorse Creek areas. Location of maps shown on figure K1.
From Hobbs, 1985, page 138

Figure 5: Geologic maps of the areas with the Riverview and "Daugherty Springs" Mine areas. Modified from Hobbs, 1985.
Figure 6: Geologic Maps of the Clayton and Squaw Creek Areas. Modified from Hobbs (1985, page 139)

The "Powderbox Mine" is within the Ella Dolomite with good exposures of base-metal replacement veins parallel to bedding. The Rob Roy Mine is within more siliciclastic lithologies of the Clayton Mine Quartzite. Good exposures of the mineralization were not observed.

The Williams, Rohlds and Ernst Mine is within the Ramshorn Slate (Figure 6), and the "Compressor Mine" is in quartzite very close to the thrust boundary of Terranes D and C (Figure 4).

Challis volcanic and volcanioclastic strata occur unconformably and structurally above the Paleozoic strata. None of the prospects or abandoned mines visited show any spatial association with the volcanic pile.
Lemhi County Area

The following geologic summary is excerpted directly from Gillerman (2002).

The Pahsimeroi Valley displays “classic” Basin and Range topography and structure. The range-front on the east side of the valley is steep and characterized by large alluvial fans where streams exited the uplifted block of the Lemhi Range. Rocks on the west flank of the Lemhi Range, and particularly in the Blue Wing mining district, consist predominantly of Precambrian quartzites with lesser argillite and siltite. The Precambrian units are thought to be Proterozoic in age and have been assigned to the Apple Creek and Gunsight Formations, with other units possible in the region. The exact stratigraphy is disputable and most of the units are in thrust contact with each other. Small exposures of Eocene-age volcanic rocks and Tertiary sediments are found on the down-thrown, valley side of the range-bounding fault. The steep sides of Patterson Canyon are dominantly quartzite talus eroded from the ridges above the mine area. Other Quaternary alluvial deposits and landslide deposits are locally present. Glacial deposits and a few Paleozoic units are found in the higher portions of the range. Geologic references are listed in the “References” section.

The mines in the Blue Wing mining district exploited tungsten and base metal-bearing quartz vein deposits localized around a granitic stock that was exposed in the lower level of the Ima mine and in drill core. The deposit is zoned with mineralization in the outer zone veins hosted by Gunsight and Apple Creek Formation metasediments, and the inner zone of disseminated and veinlet ore hosted by the granite. Outer zone minerals include pyrite, huebnerite (iron tungstate), scheelite (calcium tungstate), tetrahedrite, galena, sphalerite, and chalcopyrite in veins of quartz, fluorite, calcite, orthoclase, and rhodochrosite. The outer zone was as much as 900 feet wide, 2000 feet long, and 700 feet deep. The inner zone was below the mine workings and explored with drilling. Drill core of the granite was found in a trench onsite. Ore minerals of the inner zone include molybdenite, huebnerite, chalcopyrite, and pyrite in sericite and silica altered granite (McHugh and others, 1991, cited in Mitchell 1999; also see other general references). Tungsten was the major economic commodity.
Hazard Assessment

Summary

Most of the hazards found in this study are relatively minor, i.e., horizontal mine openings without easy public access. However, there are a few significant hazards such as open stopes. It should be noted that with the exception of the independent bat survey work at the Riverview Mine (Sherwin, undated report), underground hazards were not evaluated as part of this study.

<table>
<thead>
<tr>
<th>Map Name</th>
<th>IGS#</th>
<th>Open Adits</th>
<th>Open Shafts</th>
<th>Open Stopes</th>
<th>Aquatic Environmental Concerns</th>
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<td>CH390</td>
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</table>

**Table 4: Summary of physical and environmental hazards**

Physical Safety Hazards

The primary physical hazards found during this field work were associated with horizontal mine openings although open stopes were also found. Thirty two openings to underground workings were identified (Table 2).

Two of these are deep open stopes at the Redbird Mine and should be considered particularly hazardous, though they are on private ground. A related investigation (Sherwin, undated report) of underground workings at the Riverview Mine indicates hazards that include blasting caps, winzes, and unstable rock. Fortunately, most of these workings are not easily accessible to the public. The open adit at "Daugherty Springs" is close to Challis and receives a significant amount of public use. Therefore, it should be a priority closure.

The disturbance around the creek at the Ima Mine is also a significant hazard. The creek is confined to a straight narrow channel between the waste dumps and adjacent to the road. The artificial confinement makes it deeper and faster through this stretch and the
artificially steep banks above the creek composed of loose mine waste contribute to the danger. Mine workings on the south side of the creek provide an attraction and increase the possibility of people trying to cross the creek in this dangerous stretch.

**Environmental Concerns**

Environmental hazards at most of these sites are minimal. Relatively few sulfides were observed on most of the dumps, and most of them are on hillsides well above streams. Carbonate country rock at several mines precludes the formation of acid mine drainage. The most significant environmental hazard is at the Ima Mine where the stream is undercutting the sulfide-rich waste dump which could catastrophically fail, temporarily damming Patterson Creek and/or creating a mudflow down the creek. Such a flood or mudflow would remobilize portions of the extensive tailings pile located downstream. The lower dump at the Redbird Mine also encroaches on the stream, though it was not investigated due to private property concerns.
Site Descriptions, Access and Summary

For detailed descriptions of sites and site access, please see the individual Field Checklist reports for each property and the included maps.

Lemhi County

Ima Mine, South of Patterson Creek (ID-0330-DU399)

The Ima mine is a very large complex east of Patterson on the southwest flank of the Lemhi Range. The Ima was primarily a tungsten mine, though sulfides also occur there. Previous work (Gillerman, et al., 2002) focused on the area of the main workings and millsite north of Patterson Creek. This study was directed toward investigating the area south of Patterson Creek that is difficult to access due in part to the artificially confined creek. There are at least four open adits on the south side of Patterson Creek; two of them are near the main workings and one is on the northeast-facing slope along an old road. One is very short. Adits in the quartzite tend to stay open a long time. There is no place to cross Patterson creek near the Ima with a full size vehicle, although the roads on the northeast side along Inyo Creek could be used by ATVs. The area is well used by hunters with ATVs and horses, as noted during an October visit. Reaching the open adits on the northwest facing slope immediately south of Patterson creek (Adits A, B and D) requires a hazardous creek crossing and a hike up a steep slope without a trail. Therefore, any public danger is minimal. Although Adit F is immediately adjacent to a road, it is hidden by trees and most people on horseback or ATVs would probably go right by it without seeing it. This project did not include assessment of the large tailings piles south of Patterson Creek, since they were surveyed in the previous work. There is one area of probable workings farther south that was not visited but visible on the orthophotos.

The creek itself is a significant hazard because it is artificially confined to a narrow channel. Anyone attempting to cross the creek in this area could easily be swept downstream a considerable distance. The oversteepened banks in loose mine waste are hazardous to anyone attempting to cross the creek in this area.

Portions of Dump #1 adjacent to Patterson Creek are unstable, with surface cracks oriented subparallel to the creek. This dump contains abundant sulfides and could catastrophically fail due to saturation and/or undercutting by Patterson Creek, possibly temporarily damming Patterson Creek, destabilizing the tailings, and potentially causing a serious environmental problem.

Big Creek Mine (ID-0330-DU417)

The small property at Big Creek, on the southwest flank of the Lemhi Range southeast of Patterson has one open adit that appears to be unstable around the portal. This property is marked on the Big Creek Peak topographic quadrangle and is within a half mile of a FS
AML Site Inspection Report for the Challis Area, 2005

campground. The property is easily accessible. Therefore, it is a significant hazard to the
general public.

Custer County

Riverview Mine, North end (ID-0330-CH390)

The Riverview Mine was previously investigated as part of the 2002 AML study
(Gillerman et al., 2002). Additional work was requested due to the discovery of
additional open adits by BLM personnel to the north of the main workings. Contract
work suggesting that a "bat gate" be installed on one of the open adits, apparently on
BLM administered lands, also prompted additional work. The Riverview Mine is south of
Bayhorse Creek, approximately two miles up Bayhorse Creek Road (FS Rd #051) from
Highway 75. From the lower road, it is a moderately rough ford across Bayhorse Creek
to access the mine workings. Farther up, the Bayhorse Creek Road crosses Bayhorse
Creek, so you are already on the south side of it and can easily get on the roads that lead
to the workings. Although the main workings of the Riverview are on patented ground,
the area to the north investigated as part of this study is on public lands.

Four additional open adits were found at the Riverview Mine. These adits are fairly close
to mine access roads that are passable to most 4WD vehicles. Underground work to
evaluate bat habitat (Donahoo and Sherwin, undated copy) indicates serious hazards
(blasting caps, winzes, etc.) to anyone venturing underground. It is unknown if the open
adits found during this investigation at the Riverview connect to the extensive
underground workings. We were unable to find this adit and have contacted the author of
the "bat study" in an attempt to obtain better location information. Increasing popularity
of the Bayhorse Area makes these a greater hazard than mines in more remote areas. No
environmental hazards were noted at the Riverview and the development of the mine in
the Ella Dolomite precludes the formation of acid mine drainage.

"Daugherty Springs Mine" (ID-0330-CH1166)

The fluorite mine at Daugherty Springs, approximately 5 miles west of Challis, is easily
accessible to the general public. The large open adit may pose significant hazards and the
portal should probably be closed off. Although there is a door on the portal, it is
unlocked, but even if locked, a person could easily climb around it. Although there are
no significant environmental hazards, the area has been used as a local dumping ground
and may warrant cleanup in addition to closure of the adit.
Rob Roy Mine (ID-0330-CH1202)

The Rob Roy Mine is in a relatively remote area north of Clayton. The site can be driven to with 4WD vehicles though a moderately rough creek crossing is required if you don’t want to take your chances with the small rotting bridge. Adits in the area of the main workings were caved, although there was a partially open adit approximately 1000 vertical feet above the main area. There is a smaller area to the south visible on the orthophoto that was not visited and possible additional workings up near the ridge observed on the orthophoto. No sulfides were observed on the dumps, and the remote site does not pose significant safety or environmental hazards.

Williams, Rohlds, Ernst Mine (ID-0330-CH1213)

The Williams, Rohlds, and Ernst Mine is approximately one and a half miles east of Clayton, approximately 1000 vertical feet above and north of highway 75. It is indicated by X’s on the topographic map. Although there are two partially open adits and a small open stope, the only access is by hiking up the steep south-facing slope and it is unlikely to receive many visitors. It would be difficult to access the site with heavy equipment. The site was dry and poses no apparent environmental hazard. Due to the difficult access, no action is warranted.

Redbird Mine (ID-0330-CH1232)

The Redbird Mine, immediately off Squaw Creek Road (FS RD #041) west of Clayton, is a large complex primarily on private property but surrounded by BLM administered public lands. It is developed in carbonates of the Ordovician Saturday Mountain Formation (Hobbs, 1985). The main area at road level is in use as indicated by recently mown grass at one of the buildings. The upper workings pose significant dangers with several open stopes and adits. The road to the upper workings is on the topographic map as a “jeep trail” and accessible to 4WD vehicles, although the workings are not visible from the road. The presence of orange safety fencing in one of the adits indicates the owners have at least considered some safety measures. Since the hazards are on private property, little can be done here other than posting warning signs on BLM lands near the boundaries and on the access road. The presence of patented claims to the north and northeast suggests additional workings may be in this area though these were not investigated. Only a half day was spent at this property and inspection of the orthophotos suggests additional disturbed ground near UTM coordinates 701830E / 4909380N (Zone 11T).
“Compressor” Mine (ID-0330-CH1318)

The “Compressor” Mine was not in the IGS database nor on the original target list provided by the BLM. It was identified from orthophotos of the area. No historical information is available for this property. The assigned name is from an old compressor on the road. The road to the property is approximately 3 miles east of Clayton on the north side of Highway 75 in Section 21. The site is reached by hiking up the road approximately one-half mile. A locked cable gate blocks the road, though it could easily be bypassed with an ATV or motorcycle. There were indications of recent use.

The mine contains six open or partially open adits. The main adit, Adit #2, is readily visible to the casual visitor, though the others require climbing above the steep roadcut to see. The portal to Adit #2 is partially blocked by rockfall from above and a BLM “Danger, Abandoned Mine Hazards” sign was posted there during the site visit. Minimal sulfides were observed on the waste dumps and the site was dry. The site is a minimal hazard to the public since it cannot be seen from the highway, is not marked on maps of the area, and is not readily accessible to 4WD vehicles. However, the property is easily accessible with an ATV or motorcycle.

“Powderbox” Mine (ID-0330-CH1319)

The “Powderbox” Mine was not in the IGS database, but was previously investigated (ID-0084-00018 in Gillerman, et al., 2002). It is high on the hill immediately northwest of Clayton and is accessed via a 4WD road off of the Squaw Creek Road, Forest Service Road #041. The last part of the road is blocked with rockfall, but ATVs could still easily reach the site. The BLM requested additional work here after an old box of dynamite was discovered in one of the adits and detonated by a Hazmat team. Although relatively remote, the area apparently gets some use during hunting season. There are at least five open adits on the property. Dumps are difficult to discern from the natural talus slopes, increasing the difficulty of finding all the workings. Due to the relative remoteness of the site, closure of the adits probably is not warranted. However, due to the presence of explosives in one adit, a more thorough search for additional underground hazards may be warranted. The largest open adit was entered a very short ways, just enough to see a large packrat nest approximately 200 feet back, at which point the tunnel turned. No attempt was made to examine the full extent of the workings as the safety equipment had not been hauled in. The site was dry and is in carbonate rocks of the Ella Formation, precluding problems with acid drainage.
References


A. SITE IDENTIFICATION
ID Number: ID-0330-DU399
Site/Mine Name: Ima, area south of Patterson Creek  
Primary Commodity: Tungsten, 641
IGS Number: DU399 (Also Cu, 170; Ag 540 and Zn 700)
Note: two previous reports on the Ima Mine and Millsite cover the area on the north side of Patterson Creek. ID-0084-00010, DU401, Ima Millsite and; ID-0084-00011, DU399, Ima Mine

B. LOCATION DATA
USGS Quad: Patterson  
LAT: LONG: OR
UTM Coord: WP#96 4934111 N 286166 E Zone 12T AND
Township: 14N  
Range: 23E_ Section: 23,24 Subdivision: NW of S 24 and SENE of 23  
Meridian: 08, Boise County: Lemhi, ID059
Surface: BLM X / Non-BLM X  
Mineral Estate: BLM X / Non-BLM X
Most of the workings are on patented ground

C. ACCESS
Visible from: Nearest road 3 / Trail 3 / Population center 0
Access by: 2wd X / 4wd / Hike X / Other
Access disturbance in need of reclamation: Length ______ / Width ______ / Acres ______
Road Log: ________________
Main road up Patterson Creek, FS Rd #096.1. Area south of the creek accessed via a log (below Adit A) and piece of rail track (near the E end of the large culvert) used as bridges. These may not be useable during high water in the spring or early summer. The large log was wet and slippery from splashing water when crossed in June and was only reasonably safe with the use of ski poles for balance. Patterson Creek was easily waded higher up where the road goes up along Inyo Creek.  
Recent human use: Y  
Describe: Numerous vehicles in the area and people stopped there. Many campsites

D. SITE DESCRIPTION
Acreage: 2 (southside, not including tailings)  
Elevation: 6200-7200

General slope (degrees): 0-10 / 11-35 X / >35 X
Floodplain: Disturbance in X / Adjacent to X / NA
Recent mineral activity No  
Describe: ________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 4 / Closed adits 2 / Open inclines ___ / Closed inclines
Open shafts ___ / Closed shafts ___ / Stopes
Other openings ___ Type __________
Trenches ___ Length _______ / Prospects 1 / Open drill holes

Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac X, not mapped,
Heaps ___ / Dredge
Ponds ___ / Dams
Mills No / Type ___ , ___
Explosives ___ Describe: ________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways X
Powerlines X
Structures 2 / Type Mine building, small building above adit D
Condition: Good / Fair / Poor X / Number Locked 0
Other: Stone Chimney
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent

ANIMALS
Evidence: ____ X / Presence: ____ / Describe: elk scat

GEOLOGY
Staining of soils ____ Describe: yellow staining on dump in places
Sulfide minerals ____ Type(s): py, mo, wolf
Tailings: Confined ____ / Unconfined ____ / Unknown
Tailings previously tested.

HYDROLOGY
See previous reports, all adits in this area were dry.

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<td>____</td>
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<tr>
<td>ore:</td>
<td>____</td>
<td>____</td>
<td>____</td>
<td>____</td>
<td>____</td>
</tr>
</tbody>
</table>

Adjacent water sources:

| Ground water:            | ____ | ____ | ____ |
| Surface water:           | ____ | ____ | ____ |
| Surface H2O above site:  | ____ | ____ | ____ |
| Surface H2O below site:  | ____ | ____ | ____ |

Evidence of aquatic life ____ Location: ____ Describe:

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

Samples collected: ____ Sketch #(s):

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

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

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

Other:

Other: ____ ____ ____ ____ ____ ____ ____ ____ ____ (03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills / Gullies / Sheetwash
Unstable Rock / X / Slope instability / X / Wind erosion / X, tailings blowing
The dump material the creek has cut through is unstable. There are cracks opening up parallel to the creek indicated the material could fail.

MITIGATION STATUS
None / Fencing / Signs / Safety hazards mitigated
Other: ____________________________
*Note: posted BLM "Danger, Abandoned Mine Hazards" sign at Adit B

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

OPTIONAL: Identify the critical reclamation measures needed:

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

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

Although there are numerous easily accessible open adits on the north side of Patterson Creek, this area is much more difficult to get to and its doubtful they are a significant hazard to the general public. The small building at adit D is rickety and could collapse if someone climbed in there. The open adits on the northwest facing slope above Patterson Creek require a hazardous creek crossing and a climb up a steep, slippery hillside. A few people probably venture up the road on the NE facing slope above Inyo Creek during hunting season. However, even though adjacent to the road, this adit is difficult to see with the trees in front of it. There is a lot of junk, boards, etc near Adit C.

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

J. GLOBAL POSITIONING SYSTEM DATA _______ Rover File name: ______ NA
Garmin, final WPs 93-112, 278 to 283
K. PHOTOGRAPHS
Number of photographs taken: 31, digital

L. ACTION None
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM HAZMAT _____ / Other ____________________________
Figure 399-1: Ima Mine Location Map.
Figure 399-2: Ima Mine Site Map, area south of Patterson Creek. Scale bar has 500 foot divisions.
Lemhi County, Ima Mine, IGS# DU399

Figure 399-3: Main workings south of Patterson Creek. Photo PA010010, View NE

Figure 399-4: Adit D with building. Open adit. Virginia Gillerman photo #IMGP0580
Lemhi County, Ima Mine, IGSR# DU399

Figure 399-5: Shaft or decline, caved. Photo P6300053, view SE, near WP#281

Figure 399-6: Tailings along south side of Patterson Creek from near Adit D. Photo PA010018, View SW
Lemhi County, Ima Mine, IGS# DU399

Figure 399-7: Adit C, caved. Note the windblown tailings in the foreground. Photo PA010008, view South

Figure 399-8: Adit A, open. This only goes in about 10 feet, but the portal looks unstable. Photo PA010003, View South
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

Waypoints from October 1, 2003

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<th>Width (par)</th>
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<td>On Road, shoot to Adit B</td>
<td>160</td>
<td>286645</td>
<td>4934539</td>
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<td>108</td>
<td>Wood Bldg,NW cor,S dump</td>
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<td>286195</td>
<td>4934201</td>
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<td>109</td>
<td>Chimney, S edge</td>
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<td>286137</td>
<td>4934134</td>
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<td>110</td>
<td>Southside dump, west edge</td>
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<td>286026</td>
<td>4934063</td>
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<td>111</td>
<td>BLM cadastral marker</td>
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<td>Adit D, Open</td>
<td>155</td>
<td>286226</td>
<td>4934056</td>
<td>open</td>
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Waypoints from June 30, 2004

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<th>Northing</th>
<th>Elevation</th>
<th>L W Ht/Dep</th>
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<td>278 Adit B, Open, revisit</td>
<td>286679</td>
<td>4934437</td>
<td>6499</td>
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<tr>
<td>279 Road, overgrown</td>
<td>286665</td>
<td>4934374</td>
<td>6578</td>
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<td>280 Road</td>
<td>286636</td>
<td>4934279</td>
<td>6577</td>
<td>10</td>
<td>10</td>
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<tr>
<td>281 Shaft, Collapsed</td>
<td>286846</td>
<td>4934152</td>
<td>7076</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>
Field Notes:
Adits A and B were reached by crossing the creek on a large log. The cut of Adit B is barely visible from the road. Adit C is caved immediately behind the portal. The adit D portal appears ready to collapse, the crossbeams are bent and cracked. The tailings are shown on the topographic map and visible on photos. Only the upper boundary was field checked. Previous studies checked the lower boundary of the tailings.

The main area on the southside of the creek was accessed via a piece of rail laid across the creek near the large piece of culvert. This was submerged during the 2004 site visit and the creek crossing through this area was treacherous due to fast water in the area confined to a narrow channel by mine waste.

The 2004 visit focused on areas seen on the orthophoto which was not available during the 2003 visit. No workings were found along the roads on the northwest facing slope above adit B. These may have just been drill roads. An open adit (F) was found much higher up on the road which comes in from Inyo Creek to the northeast. There used to be a bridge crossing Patterson creek to get to this road, but only the foundation remains. ATVs would have no trouble getting up this road. There were a couple areas I did not get to along these roads on the "backside". The road forks near its end and leads to two areas of apparent workings at estimated UTM coordinates 287125E/4933900N and 287140E/4933860N. Additionally, portions of a road could be seen following just to the SW of Inyo Creek. I thought I would be able to see this area better when following the road along the NE side of Inyo Creek, but most of the views were blocked by brush. In most places, it would be difficult to cross Inyo Creek due to thick brush and beaver ponds, though there are a couple places it would be easy to cross near talus slopes. No dumps are apparent on the photo, but they would not be distinguishable from the talus slopes. The road on the NE corner just above where Inyo Creek joins with Patterson Creek was also checked, but no workings were found there. This was most likely a drill site.

This area provided excellent views of the main workings on the north side of Patterson Creek, so several photos were taken and put together as a photomosaic of this area. Two adits could be seen that were open and apparently not covered in the previous work (Photos P6300045 and 46), though more recent work at the Ima may have found these. With binoculars, they definitely looked like they were open.

INSPECTED BY: Dave Leppert    TITLE: Geologist    DATE: 10/1/03 and 6/30/04
INSPECTED BY: Virginia Gillerman    TITLE: Geologist    DATE: 10/1/03 (03/95)
**Lemhi County, Ima Mine, IGS# DU399**

**BLM AML INVENTORY FIELD CHECKLIST**

**PHOTO LOG**

**ID Number:** ID-0330-DU399  
**IGS:** DU399

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<th>Nearest WP</th>
<th>Azimuth</th>
<th>Description</th>
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<tr>
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<td>107</td>
<td>SE</td>
<td>Adit A from N side of creek</td>
</tr>
<tr>
<td>IMG0572</td>
<td>107</td>
<td>SE</td>
<td>Adit B from N side of creek</td>
</tr>
<tr>
<td>IMG0573</td>
<td>107</td>
<td>SW</td>
<td>Main workings from road</td>
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<tr>
<td>IMG0574</td>
<td>109</td>
<td>NE</td>
<td>Stone Chimney</td>
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<tr>
<td>IMG0575</td>
<td>96</td>
<td>E</td>
<td>Junk, scrap wood below Adit C</td>
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<tr>
<td>IMG0576</td>
<td>108</td>
<td>SW</td>
<td>Small building adjacent to tailings</td>
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<tr>
<td>IMG0577</td>
<td>110</td>
<td>N</td>
<td>Mill foundation from S side of creek</td>
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<td>IMG0578</td>
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<td>NW</td>
<td>North side dumps from S side of creek</td>
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<tr>
<td>IMG0579</td>
<td>106</td>
<td>N</td>
<td>Adit E from above</td>
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<td>SE</td>
<td>Adit D portal</td>
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<td>IMG0581</td>
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<td>North side workings from Adit D</td>
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<td>NW</td>
<td>North side workings from below Adit B, with 4</td>
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<td>PA010006</td>
<td>95</td>
<td>155</td>
<td>Adit B</td>
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<td>Adit B</td>
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<tr>
<td>PA010008</td>
<td>96</td>
<td>145</td>
<td>Adit C portal, note windblown tailings</td>
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<td>SW</td>
<td>Tailings pile</td>
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<td>NE</td>
<td>Main southside dump, rail bed and trestle to E</td>
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<td>North side workings with 12 thru 15, 2x2 pan</td>
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<td>PA010016</td>
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<td>Large vein above Adit D portal</td>
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<td>PA010017</td>
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<td>NW</td>
<td>Mill foundation from Adit D</td>
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<tr>
<td>PA010018</td>
<td>112</td>
<td>SE</td>
<td>Tailings along Patterson creek</td>
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*Note: Photos with IMG prefix by Virginia Gillerman, others by Dave Leppert*
Lemhi County, Ima Mine, IGS# DU399  

June, 2004 photos

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<td>S</td>
<td>Adit B, Open, with Danger sign</td>
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<td>335</td>
<td>Open Adit, possibly not mapped</td>
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<td>NE</td>
<td>Photomosaic, P630047 thru 52</td>
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<td>P6300048</td>
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<td>P6300053</td>
<td>355</td>
<td>S</td>
<td>Shaft or decline, caved</td>
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<td>P6300054</td>
<td>355</td>
<td>135</td>
<td>Access road</td>
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<td>P6300055</td>
<td>356</td>
<td>205</td>
<td>Adit F, Open, hidden behind trees</td>
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</table>
A. SITE IDENTIFICATION
Other BLM ID Number: 
Locatable _____ / Leasable _____ / Salable
Operator (last known): 
Commodities: Primary __________ / Secondary __________
Other Agency ID Number: ____________________________ Agency: ________

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

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

D. SITE DESCRIPTION
Nearest named drainage: Patterson Creek __________ Distance: 0____

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

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

Date reclamation completed: __________________________ Cost: __________________________
Comments: __________________________

Monitoring frequency: _______ Dates of monitoring visits: __________________________

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

(03/95)
I. INTERVIEWS

<table>
<thead>
<tr>
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<th>Informal discussion, did not get names, etc.</th>
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<td>Phone</td>
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<tr>
<td>Affiliation</td>
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<td>Comments</td>
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Two of the people we talked to at the minesite said they have extensively explored the old tunnels.

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(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0330-DU417  
Site/Mine Name: Big Creek  
Primary Commodity: Tungsten, 641
IGS Number: DU417

B. LOCATION DATA
USGS Quad: Big Creek Peak 44113-DF-TF-024  
UTM Coord: 4924279 N 292475 E at waypoint 113  
Township: 13N  
Range: 24E  
Section: 21  
Meridian: Boise, 08  
County: Lemhi, ID059  
Surface: BLM / Non-BLM  
Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road Trail Population center  
Access by: 2wd X 4wd Hike X Other  
Access disturbance in need of reclamation: Length Width Acres Road Log:  
Approximately 6 miles south of Patterson on the Pahtsimeroi Road, take Rd #097 toward the Big Creek Campground. This road is accessible to all vehicles. There are a couple short steep roads which get you over closer to the mine site which probably require 4WD and it is a short hike from there. There is a footbridge that provides access across the creek, although it could be forded by 4WD vehicles.
Recent human use: No  
Describe: ________________________________

D. SITE DESCRIPTION
Acreage: <0.1  
Elevation: 6520  
General slope (degrees): 0-10 / 11-35 X / >35  
Floodplain: Disturbance in X / Adjacent to X / NA  
Recent mineral activity: No  
Describe: ________________________________

E. MINING/EXPLORATION FEATURES
Open adits 1 / Closed adits / Open inclines / Closed inclines  
Open shafts / Closed shafts / Stopes  
Other openings Type  
Trenches Length / Prospects / Open drill holes  
Pits >30 ft. deep / Pits <30 ft. deep / Pit highwall length  
Waste dumps: <0.1 ac / 0.1 - 5 ac / >5 ac  
Tailings: <0.1 ac / 0.1 - 5 ac / >5 ac  
Heaps / Dredge  
Ponds / Dams 1. Small diversion dam on the creek, not really part of the mine  
Mills ___ Type ___ , ___  
Explosives ___ Describe: ________________________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways  
Powerlines  
Structures ___ Type ___  
Condition: Good X / Fair / Poor / Number Locked ___  
Homesites  
Other: typical debris, wood, part of a woodstove, glass, scrap metal, etc. ________________________________

(08/97, swm)
Lemhi County, Big Creek Mine, IGS# DU417

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: / Describe: ________________________________
Brush and sage on dump

ANIMALS
Evidence: ____ / Presence: ____ / Describe: ________________________________

GEOLOGY
Staining of soils  No / Describe: ________________________________
Sulfide minerals  Tr / Type(s): mostly Cu hydroxides, some wolframite on dump, presumably W was the primary commodity produced.
Tailings: Confined ____ / Unconfined ____ / Unknown

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

Water bed color:  White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Samples collected: ____ Sketch #(s): ______________________________________

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos
Petrochemical Products ____ / Dump sites
Power Substations ____ / Transformers
Barrels, Tanks, Containers ____ Leaking ____ Contents: ______________________
Evidence of Underground Storage Tanks ____ Describe: ______________________

Other: ________________________________________________________________

RADIATION
Background
Adit/Incline
Shaft
Other: ______  ______  ______  ______

Sketch #  mR/hr gamma  WL alpha

(03/95)
Lemhi County, Big Creek Mine, IGS# DU417
BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0330-DU417
IGS: DU417

H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ___ / Gullies ___ / Sheetwash
Unstable Rock ___ / Slope instability ___ / Wind erosion
Loose talus on dump

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

BLM warning sign present. Due to its proximity to a FS campground and visibility from the main road, the adit should probably be closed/gated. The portal looks unstable.

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

J. GLOBAL POSITIONING SYSTEM DATA _____ Rover File name: ___ NA,
Garmin Etrex, 2 waypoints

K. PHOTOGRAPHS
Number of photographs taken: ___ 3, digital.

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

Reason: ____________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
(03/95)
Figure 417-1: Big Creek Location Map
Figure 417-2: Big Creek Site Map
Lemhi County, Big Creek Mine, IGS# DU417

Figure 417-3: Big Creek adit. Photo PA010019, view North

Figure 417-4: Big Creek Mine building and dump. V. Gillerman photo #IMGP0583, view west
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Waypoint</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length W</th>
<th>Ht/Dep</th>
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<tr>
<td>113</td>
<td>Adit #1, open</td>
<td>292475</td>
<td>4924279</td>
<td>6521</td>
<td>open</td>
<td>4</td>
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<tr>
<td>114</td>
<td>Building #1, dump 1</td>
<td>292478</td>
<td>4924286</td>
<td>6530</td>
<td>40</td>
<td>30</td>
</tr>
</tbody>
</table>

Building approx 10' x 15'

Field Notes:

Precambrian quartzite with minor sulfides, Cu, granitic intrusive. Wolframite on the dump. The short steep road we drove down a steep hill to get near the site probably requires 4WD, but another branch of the road is not as steep and probably okay for 2WD. There is a prospect shown on the topographic map approximately 800 vertical feet above this site that was not visited.

INSPECTED BY: Dave Leppert          TITLE: Geologist      DATE: 10/1/2003
INSPECTED BY: Virginia Gillerman    TITLE: Geologist      DATE: 10/1/03

BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0330-DU417
PHOTO LOG

Fill out the following for each photo:

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<th>File Number</th>
<th>Nearest WP</th>
<th>Azimuth</th>
<th>Feature</th>
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<td>Building</td>
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<td>Adit #1 portal</td>
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<td>PA010020</td>
<td>113</td>
<td>SE</td>
<td>Footbridge, small diversion dam/gate</td>
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</table>

(03/95)
Lemhi County, Big Creek Mine, IGS# DU417

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

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

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

D. SITE DESCRIPTION
Nearest named drainage: __________________________
Distance: _______

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

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

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

Monitoring frequency: _______ Dates of monitoring visits: __________________________

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

(03/95)
I. INTERVIEWS

<table>
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<th>Address</th>
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</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0330-CH390
Site/Mine Name: Riverview
Primary Commodity: Ag, 540
IGS Number: CH390
Note: Old BLM Number ID-0084-00014 from 2002 report

B. LOCATION DATA
USGS Quad: Bayhorse
LAT: _______ LONG: _______ OR
UTM Coord: 4918130 N 715355 E Zone 11T AND
Note: Location from previous report, no current corresponding WP#
Township: 12N Range: 18E Section: 11 Subdivision: S2NE
Meridian: Boise, 08 County: Custer ID037
Surface: BLM / Non-BLM
Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road _2_ / Trail _ _ / Population center _0_
Access by: 2wd _ / 4wd _ / Hike _ / Other
Access disturbance in need of reclamation: Length _ / Width _ / Acres _
Road Log: _
Recent human use: Y Describe: Cans, Fire ring by creek

D. SITE DESCRIPTION
Acreage: <1 (North area only) Elevation: 6300-6400
General slope (degrees): 0-10 _ / 11-35 _ / >35
Floodplain: Disturbance in _ / Adjacent to _ / NA X
Recent mineral activity No Describe: 

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
NORTH AREA ONLY, DOES NOT INCLUDE PREVIOUS WORK
Open adits _4_ / Closed adits _3_ / Open inclines _ _ / Closed inclines
Open shafts _ _ / Closed shafts _ _ / Stopes
Other openings _ _ Type _
Trenches _ _ Length _ _ / Prospects _ _ / Open drill holes
Pits >30 ft. deep _ / Pits <30 ft. deep _ / Pit highwall length
Waste dumps: <0.1 ac _ / 0.1 - 5 ac _ / >5 ac
Tailings: <0.1 ac _ / 0.1 - 5 ac _ / >5 ac
Heaps _ / Dredge
Ponds _ / Dams
Mills _ _ Type _ _ , _ _
Explosives _ Describe: 
Equipment/Machinery _ _ / Headframes _ _ / Trestles/tramways
Powerlines
Structures _ _ Type _ _ Condition: Good _ / Fair _ / Poor _ / Number Locked
Homesites
Other: 

45
Custer County, Riverview Mine, IGS# CH390
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0330-CH390

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed _____ / Dead _____ / Nonexistent
Evidence of natural revegetation: Y / Describe: Some dumps have trees and brush growing on them, others barren

ANIMALS
Evidence: X / Presence: _____ / Describe: scat

GEOLOGY
Bayhorse Dolomite country rock
Staining of soils _____ Describe: 
Sulfide minerals _____ Type(s): 
Tailings: Confined ____ / Unconfined ____ / Unknown

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

Water bed color: White ____ / Yellow ____ / Yellow-Orange ____ / Orange __
Samples collected: _____ Sketch #(s): _____________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features) NO

Chemical piles or spills _____ / Acid or Chemical odor _____ / Asbestos
Petrochemical Products _____ / Dump sites
Power Substations _____ / Transformers
Barrels, Tanks, Containers _____ Leaking _____ Contents: _____________
Evidence of Underground Storage Tanks _____ Describe: _____________

Other: _____________

RADIATION
Background Sketch # mR/hr gamma WL alpha
Adit/Incline ________ ________ ________
Shaft ________ ________ ________
Other: ________ ________ ________ (03/95)
Custer County, Riverview Mine, IGS# CH390
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0330-CH390
IGS:_____ 

H. RECLAMATION

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

A bat gate has been recommended for at least one opening on BLM ground. The underground workings apparently are extensive and dangerous based on the “bat study”, with winzes, blasting caps, and other hazards. Overall, the openings probably pose little hazard to the general public due to their location in steep terrain and because they cannot be seen from the road. However, increasing use of the Bayhorse area may make these a higher priority.

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

J. GLOBAL POSITIONING SYSTEM DATA _____  Rover File name: ___ NA
Garmin Etrex, 14 waypoints

K. PHOTOGRAPHS
Number of photographs taken: ___ 22, digital

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

Reason:
Probably not “immediate” requirement due to difficult to find location.
R. Sherwin in the “bat study” noted blasting caps in the open adit.
Figure 390-2: Riverview Mine Site Map. Note this does not include details of the main workings which are mostly on the private ground and detailed in the previous report.
Custer County, Riverview Mine, IGS# CH390

Figure 390-3: Adit E location. The adit is directly above the end of the road. Photo P7010056, View South

Figure 390-4: Adit E, open. Photo P7010059, View West. Although difficult to tell from the photo, this adit could be easily entered.
Custer County, Riverview Mine, IGS# CH390

Figure 390-5: Adits A and B. These are both right on the road on the north side. Construction of the road may have cut preexisting adits. Adit A is very short. Adit B curves to the left and although the opening is small, it is passable. Photo P8040034, View South

Figure 390-5: Adit C, open. Unmilled timbers probably indicate older workings. Photo P8040037, View SSW
Figure 390-7: Top of Adit D dump. Adit C is slightly below and to the right. The exact location of Adit D was not distinct but obviously was in the disturbed area above this dump. This dump has trees up to 6 inches in diameter growing on it. Photo P8040038, View Southeast.

Figure 390-8: Mineralized Breccia at Adit D. Photo P8040041
Figure 390-9: Trail. This engineered trail follows up the gulch immediately to the west and may lead to additional workings to the southwest as observed on the orthophotos after the site visit. Photo P8040044, View West. There was a smaller side trail that may go to workings to the west also.
Figure 390-10: Original photo from Sherwin’s “Figure 3” with arrow added to rocks that provide positive correlation with Figure 14-4 (Figure 390-11 below) from the 2002 report. Note the two large rocks to the upper left of the portal in Figure 390-11 are gone.

Figure 14-4: Adit #1 with a wooden door (Upper adit), View looking 250 degrees (Roll 01-5; Neg #6815, Frame 12; photograph by V. S. Gilleran; July 20, 2001).

Figure 390-11: Copy of Figure 14-4 from the 2002 report.
Custer County, Riverview Mine, IGS# CH390

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

Note: adits are labeled with letters to avoid confusion with previous work.

<table>
<thead>
<tr>
<th>WP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elevation</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
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<tbody>
<tr>
<td>284</td>
<td>Park at road junction</td>
<td>715602</td>
<td>4918441</td>
<td>6013</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>285</td>
<td>Reference Point, on Ridge</td>
<td>715372</td>
<td>4918484</td>
<td>6248</td>
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<td></td>
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<tr>
<td>286</td>
<td>Adit E, Open</td>
<td>715375</td>
<td>4918398</td>
<td>6254 Curved</td>
<td>4</td>
<td>6</td>
<td></td>
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<tr>
<td>287</td>
<td>Adit F/Stop, Caved</td>
<td>715377</td>
<td>4918398</td>
<td>6235</td>
<td></td>
<td></td>
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<tr>
<td>288</td>
<td>Dump</td>
<td>715363</td>
<td>4918303</td>
<td>6367</td>
<td>50</td>
<td>30</td>
<td>5</td>
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<td>289</td>
<td>Adit G, Caved</td>
<td>715355</td>
<td>4918303</td>
<td>6354</td>
<td>30</td>
<td>10</td>
<td>15</td>
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<tr>
<td>290</td>
<td>End of Road</td>
<td>715338</td>
<td>4918267</td>
<td>6424</td>
<td></td>
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<td>310</td>
<td>End of Road, no workings</td>
<td>715280</td>
<td>4918470</td>
<td>6366</td>
<td>20</td>
<td>10</td>
<td></td>
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<tr>
<td>311</td>
<td>Adit A, open</td>
<td>715217</td>
<td>4918518</td>
<td>6359</td>
<td>20</td>
<td>4</td>
<td>7</td>
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<tr>
<td>312</td>
<td>Adit B, open (small opening)</td>
<td>715211</td>
<td>4918516</td>
<td>6380 Unk</td>
<td>4</td>
<td>7</td>
<td></td>
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<td>313</td>
<td>Adit C, open</td>
<td>715200</td>
<td>4918495</td>
<td>6433 Unk</td>
<td>4</td>
<td>7</td>
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<td>Adit D, caved, Dump D</td>
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<td>4918492</td>
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<td>315</td>
<td>Trail/Road junction</td>
<td>715071</td>
<td>4918612</td>
<td>6251</td>
<td></td>
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<td></td>
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<tr>
<td>316</td>
<td>Trail, possibly trail to Clayton</td>
<td>714723</td>
<td>4918361</td>
<td>6580 Long</td>
<td>3</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

Note: Waypoints 310 through 316 plot to the north of where they actually are. Possibly an error with the GPS datum settings and/or due to poor signal reception on the steep north-facing slope? Each should be approximately 20 meters farther south. They are all either on the road or south of the road.
Custer County, Riverview Mine, IGS# CH390

Field Notes:
The Riverview complex is south of the main road to Bayhorse, (FS Road #051), approximately two miles up the road from Highway 75. The creek crossing to reach the mine roads requires 4WD. The road which switchbacks up the north facing slope was passable to 4WD vehicles, though it was walked. The road which parallels Bayhorse slope is relatively level was only partially investigated, but was in good shape for the distance it was followed from the west. It may be the easiest way to access the main mine workings and avoid the relatively rough creek crossing, though it would need to be checked out.

The Riverview was previously studied in 2001 and is in the 2002 report to the BLM for the Challis Area (Gillerman et. al, 2002). Previous work focused on the main mine area which is mostly on patented ground. This work was to document additional workings noted by the BLM to the north of the main workings. Part of the goal was to also verify the location of the adit entered by R. Sherwin in the “bat study” (Biological Evaluations and Closure Recommendations for the Riverview and Ima Mine Complexes, Challis BLM Field Office, Challis, Idaho) to access the underground workings. This opening was not found. Dr. Sherwin was contacted last summer (2004) in an attempt to determine the correct coordinates, at which time he “confirmed” that his map on page 8 was correct which indicates the adit was on a north-facing slope. This map was incorrect. A copy of his original photo shows a definite match with Figure 14-4 from the 2002 report. Dr. Sherwin confirmed that his original coordinates (44.38602 North, 114.29683 West) were in NAD27. Using the TOPO! Program, these convert to UTM Zone 11, 715322 Easting, 4918086 Northing. Unfortunately, the “caved adit” symbol for Adit 1 in the 2002 report was incorrect, which also contributed to the confusion. As noted in the 2002 report text, Adit 1 is open with wood portal.

The Riverview was visited twice during the course of the field work. On the first visit, Ken Gardner accompanied Dave Leppert in the field since Ken had previously been to a couple of the open, undocumented adits on the property north of the area covered in the previous report. Although we found one opening and two caved workings, we were not able to find the “bat adit”. We used two different GPS units, walked to the coordinates given by Sherwin, and found nothing. On the second visit, Dave Leppert investigated workings along and near the road which switchbacks up the north facing slope, an area that the previous study did not cover. This area is apparently on public lands. The northern area was primarily looked at in an attempt to find the open adit described in the “bat study” since his map indicated the entrance was on a north facing slope with road access.

A trail was found off the road which switchbacks up the north side of the mountain. It went to the south, as roughly indicated on the map (waypoint 316). This is an engineered trail, with a steady grade for the most part, switchbacks, and a graded trail bed typically 3 feet wide. One side trail going off to the west may lead to additional mining areas, though nothing could be definitively picked on the photo. Inspection of the orthophoto also suggests additional mining areas farther south near UTM coordinates 714560E/4918290N, near where this trail goes. It is possible this trail connected to Clayton? This could make for an excellent hiking trail in the area. It would require a minimal amount of work to clear fallen trees and brush from the trail, though it would require checking for additional hazards in the area.

Workings above the road on the north face appear to be old. In particular, the portal of Adit C is constructed of timbers that were simply cut off, not milled, in contrast to the milled timbers in photos from the 2002 study at the main workings (Photo P8040037). Although the dump was small, it is close to caved adit D which has a much larger dump and may connect with it. The dump with adit D has relatively large trees (6 inch plus diameter) growing on it, also indicating it is older. Additionally, the apparently newer road cuts the trail to these adits and cuts the toe of the dumps. Since no workings were at the end of the road, it is suspected this was either a drill road or for planned workings that were never started. There is just a small trail going to these adits.
Custer County, Riverview Mine, IGS# CH390
from the road. Adits A and B also may predate the road, though that is less certain.

INSPECTED BY: ______________________ TITLE: ___________ DATE: ___________

Additional Notes on the "Bat Adit"

Original pictures from Dr. Sherwin are included on the accompanying CD ROM. Rocks low and to the left of the portal are a definite match with the Figure 14-4 photo from the 2002 report, which is also included (Figures 390-11 and 390-12). Note the large rocks to the upper left of the portal in the 14-4 photo are not in Sherwin’s photo, part of the reason they did not look the same in the black and white copy I had from his report Sherwin’s map on page 8 and the accompanying descriptive text are incorrect. The North arrow on the map (page 8) is actually approximately due east. In his written description, “east” is actually south and “south” should be west.

Figure 390-12: Sketch map of underground workings at the Riverview Mine. Modified from Sherwin bat study, page 8
Fill out the following for each photo:
Note: Digital Photos. First part of the file number indicates the date it was taken.

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<th>Azimuth</th>
<th>Feature</th>
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<td>P7010056</td>
<td>359</td>
<td>S</td>
<td>Dump, from ridgeline</td>
</tr>
<tr>
<td>P7010057</td>
<td>359</td>
<td>NW</td>
<td>View of Bayhorse</td>
</tr>
<tr>
<td>P7010058</td>
<td>360</td>
<td>280</td>
<td>Adit E, Open</td>
</tr>
<tr>
<td>P7010060</td>
<td>360</td>
<td>300</td>
<td>Adit E, Open</td>
</tr>
<tr>
<td>P7010061</td>
<td>361</td>
<td></td>
<td>Adit F/stope?, caved</td>
</tr>
<tr>
<td>P7010062</td>
<td>363</td>
<td>260</td>
<td>Adit G, caved</td>
</tr>
<tr>
<td>P8040030</td>
<td>310</td>
<td>SE</td>
<td>End of Road, no workings</td>
</tr>
<tr>
<td>P8040031</td>
<td>311</td>
<td>190</td>
<td>Adit A, Open</td>
</tr>
<tr>
<td>P8040032</td>
<td>312</td>
<td>SW</td>
<td>Adit B, inside (very poor picture)</td>
</tr>
<tr>
<td>P8040033</td>
<td>312</td>
<td>190</td>
<td>Adit B, closeup of opening</td>
</tr>
<tr>
<td>P8040034</td>
<td>312</td>
<td>SE</td>
<td>Adit B and A</td>
</tr>
<tr>
<td>P8040035</td>
<td>312</td>
<td>S</td>
<td>View up of dump with Adit D</td>
</tr>
<tr>
<td>P8040036</td>
<td>313</td>
<td>195</td>
<td>Adit C, Open, through trees</td>
</tr>
<tr>
<td>P8040037</td>
<td>313</td>
<td>195</td>
<td>Adit C, Open, closeup of portal</td>
</tr>
<tr>
<td>P8040038</td>
<td>314</td>
<td>E</td>
<td>Adit D dump top, platform</td>
</tr>
<tr>
<td>P8040039</td>
<td>314</td>
<td>N</td>
<td>Adit D Dump</td>
</tr>
<tr>
<td>P8040040</td>
<td>314</td>
<td>S</td>
<td>Adit D, apparent location</td>
</tr>
<tr>
<td>P8040041</td>
<td>314</td>
<td>S</td>
<td>Breccia near Adit D</td>
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<tr>
<td>P8040042</td>
<td>315</td>
<td>W</td>
<td>Trail to Adits C,D with large blaze on tree</td>
</tr>
<tr>
<td>P8040043</td>
<td>316</td>
<td>N</td>
<td>View to North with apparent open adits</td>
</tr>
<tr>
<td>P8040044</td>
<td>316</td>
<td>W</td>
<td>Trail to SW, possibly to Clayton??</td>
</tr>
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(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: ____________________________
Locatable _____ / Leasable _____ / Salable
Operator (last known): ____________________________
Commodities: Primary __________________ / Secondary __________________
Other Agency ID Number: ____________________ Agency: __________

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

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

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

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

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

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

Monitoring frequency: _____ Dates of monitoring visits: ____________________

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

(03/95)
### INTERVIEWS

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(03/95)
A. SITE IDENTIFICATION
ID Number:  **ID-0330-CH1166**
Site/Mine Name: Unnamed Prospect, “Daugherty Springs”  Primary Commodity: Fluorite, 235
IGS Number: **CH1166**

B. LOCATION DATA
USGS Quad: Bayhorse  LAT: _______ LONG: _______ OR
UTM Coord:  **4928985**N **712535**E Zone **11T**
Based on Waypoint 149 AND
Township: **13N** Range: **18E** Section:  **3** Subdivision: **NORTH**
Meridian: Boise, 08 County: Custer, ID037
Surface: BLM / Non-BLM X Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road 3 / Trail ___ / Population center __
Access by: 2wd X / 4wd / Hike ___ / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: ___
**Turn West on main road through downtown Challis from highway 93 (0.0 miles). Bear right at 5.2 miles, sign toward Mill Creek Campground. At 5.9 miles turn right (north) to minesite.**

Recent human use: **Y** Describe: Trash, apparently used as local dumping ground

D. SITE DESCRIPTION
Acreage: 5 Elevation: 6400 to 6500
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in ___ / Adjacent to ___ / NA X
Recent mineral activity **No** Describe: 

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 0 / Open inclines ___ / Closed inclines
Open shafts ___ / Closed shafts ___ / Stopes
Other openings ___
Trenches ___ Length ___ / Prospects ___ / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac 1* / 0.1 - 5 ac 1 / >5 ac
*Not mapped as a distinct feature. Waste above dump #1. Large disturbed area, but not a distinct dump.
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac
Heaps ___ / Dredge
Ponds 2 / Dams ___ Ponds apparently were never used
Mills ___ Type ___ / ___
Explosives ___ Describe: 
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
Powerlines X, with transformers, in good condition.
Structures 2 Type small mine buildings
Condition: Good ___ / Fair X ___ / Poor ___ / Number Locked 1
Homesites
Other: Concrete foundation, ramp/rebar partial structure, retaining wall, concrete equipment foundations, concrete building foundations, ore bin

---

**61**
F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: No / Presence: No / Describe:

GEOLOGY
Staining of soils Describe:
Sulfide minerals No Type(s): 
Tailings: Confined / Unconfined / Unknown

HYDROLOGY
Water flowing from workings: pH Conductivity Flow (GPM) Sketch #
Standing water in workings: 
Water through/over tailings:
  waste rock: 
  ore: 
Adjacent water sources:
  Type pH Conductivity Flow (GPM) Distance
  Ground water: 
  Surface water: Spring 8.1 310 100+ 
  Surface H2O above site: 
  Surface H2O below site: 
Evidence of aquatic life No Location: Describe:

Waterbed color: White / Yellow / Yellow-Orange / Orange
  Brown / Green / Grey-Black / Other
Samples collected: No Sketch #(s):

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills / Acid or Chemical odor / Asbestos
Petrochemical Products / Dump sites
Power Substations / Transformers 4

Barrels, Tanks, Containers X Leaking Contents: Empty barrels
Evidence of Underground Storage Tanks Describe:

Other:

RADIATION
Background Sketch # mR/hr gamma WL alpha
Adit/Incline
Shaft
Custer County, “Daugherty Springs Prospect” IGS# CH1166

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0330-CH1166

H. RECLAMATION

SITE CONDITIONS
Erosion: Rills / Gullies / Sheetwash
Unstable Rock / Slope instability / Wind erosion
Partial caving above portal

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

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

OPTIONAL: Identify the critical reclamation measures needed:

_____ Cable nets, grates
_____ Permanent seal
_____ X Gates
_____ Backfill openings, pit
_____ Recontour
_____ Fences
_____ Warning signs
_____ Plug open drill holes
_____ X Trash / clean up
_____ Other: ________________________________

Adit has a door, but it isn’t locked and a person could climb around the gate even if it was locked. Lots of trash around the site, it apparently is used as a dump. This area apparently gets a lot of use since it is so close to town and easily accessible.

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

J. GLOBAL POSITIONING SYSTEM DATA
Rover File name: NA
Garmin, Etrex Legend, 26 waypoints

K. PHOTOGRAPHS
Number of photographs taken: 15

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

Reason: ________________________________

(03/95)

BLM AML INVENTORY FIELD CHECKLIST
ID Number: ID-0330-CH1166
SKETCH MAP
IGS: CH1166

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Figure 1166-1: "Daugherty Springs" Location Map. Heavy dashed line is main road. Other roads in red.
Figure 1166-2: "Daugherty Springs Prospect" Site Map. Red lines are roads.
Custer County, "Daugherty Springs Prospect" IGS# CH1166

Figure 1166-3: Dump #1 Overview. View S. Foundation in foreground; equipment foundation and large bin in center; retaining wall upper right. Virginia Gillerman Photo #PA030058

Figure 1166-4: Equipment Foundation and Ore Bin. View N. Virginia Gillerman Photo #PA030060
Custer County, "Daugherty Springs Prospect" IGS# CH1166

Figure 1166-5: Daugherty Springs overview, View S. Virginia Gillerman Photo #PA030062

Figure 1166-6: Daugherty Springs "spring" from Adit #1. This is a piece of culvert buried vertically with a PVC pipe coming into it from Adit #1, then out another pipe. It is near the entrance to Adit #1. Virginia Gillerman Photo #PA030063
Figure 1166-7: Daugherty Springs Adit #1. The portal door was not locked and could be easily bypassed to the right. Note the unstable rock above. Virginia Gillerman Photo #PA030066
Custer County, “Daugherty Springs Prospect” IGS# CH1166

BLM AML INVENTORY FIELD CHECKLIST  ID Number: **ID-0330-CH1166**
IGS: CH1166

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Final</th>
<th>Feature/comment</th>
<th>Azimuth</th>
<th>Easting</th>
<th>Northing</th>
<th>Feet Elev</th>
<th>Lngt (dowhill)</th>
<th>Width parallel</th>
<th>Ht/D ep</th>
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<tr>
<td>128</td>
<td>Foundation #1, SW corner</td>
<td>10, long</td>
<td>712635</td>
<td>4929018</td>
<td>6422</td>
<td>40</td>
<td>25</td>
<td>na</td>
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<tr>
<td></td>
<td>Lots of junk, sheet rock, boards, nails</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>129</td>
<td>Well, concrete</td>
<td>na</td>
<td>712640</td>
<td>4929035</td>
<td>6429</td>
<td>6 ft diameter</td>
<td></td>
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<td></td>
<td>Power line from pole at well, 305 degrees</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>130</td>
<td>Corner Dump #1</td>
<td></td>
<td>712651</td>
<td>4929031</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>131</td>
<td>Triple power pole w/transformer</td>
<td></td>
<td>712656</td>
<td>4929008</td>
<td>6415</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Also edge of dump, 15 feet high</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>132</td>
<td>Building #1</td>
<td>270, long</td>
<td>712645</td>
<td>4928995</td>
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<td>Dump #1, edge</td>
<td></td>
<td>712648</td>
<td>4928977</td>
<td>6423</td>
<td></td>
<td>15</td>
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<td>134</td>
<td>Dump #1, edge</td>
<td></td>
<td>712643</td>
<td>4928946</td>
<td>6415</td>
<td></td>
<td>Buried concrete with rebar, voids</td>
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<td>Dump #1, corner</td>
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<td>712652</td>
<td>4928924</td>
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<td>136</td>
<td>Dump #1, edge, road</td>
<td>30, road</td>
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<td>4928923</td>
<td>6440</td>
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<td>137</td>
<td>Equipment Foundation, conc</td>
<td></td>
<td>712603</td>
<td>4928971</td>
<td></td>
<td>15</td>
<td>10</td>
<td>7</td>
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<tr>
<td>138</td>
<td>Ore bin</td>
<td></td>
<td>712599</td>
<td>4928977</td>
<td>6430</td>
<td>20</td>
<td>20</td>
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<tr>
<td></td>
<td>empty drums and barrels, junk, wood, insulation on edge of dump</td>
<td></td>
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<tr>
<td>139</td>
<td>Conc Ramp and Rebar, S end</td>
<td>25</td>
<td>712675</td>
<td>4929026</td>
<td>6417</td>
<td>85</td>
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<td>140</td>
<td>Foundation #2, concrete</td>
<td>45</td>
<td>712664</td>
<td>4929029</td>
<td>6408</td>
<td>25</td>
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<td>141</td>
<td>Cut, edge of flat area</td>
<td>270</td>
<td>712675</td>
<td>4929064</td>
<td>6422</td>
<td>150</td>
<td>6</td>
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<td>Pond, NE corner</td>
<td>berm,200</td>
<td>712710</td>
<td>4929045</td>
<td>6407</td>
<td>100</td>
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<td>143</td>
<td>Hole, overflow pond</td>
<td>290,long</td>
<td>712738</td>
<td>4929028</td>
<td>6388</td>
<td>75</td>
<td>45</td>
<td>10</td>
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<tr>
<td>144</td>
<td>small shed, corrugated metal</td>
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<td>712772</td>
<td>4929021</td>
<td>6355</td>
<td>8</td>
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### Custer County, “Daugherty Springs Prospect” IGS# CH1166

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<th>8 inch</th>
<th>Height/</th>
<th>Depth</th>
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<td>145</td>
<td>Retaining wall</td>
<td>10</td>
<td>712576</td>
<td>4928975</td>
<td>6485</td>
<td>80</td>
<td>8</td>
<td>inches</td>
<td>8to20</td>
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<td>concrete foundation at base w/ collapsed shed, bends to 50 degrees in middle.</td>
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<td>146</td>
<td>Power pole</td>
<td></td>
<td>712587</td>
<td>4929042</td>
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<td></td>
<td>30 feet past end of upper flat area, lots of boards, timbers, small road @350 on W side of pole</td>
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<td>147</td>
<td>Foundation #3, NW corner</td>
<td>220,long</td>
<td>712560</td>
<td>4929024</td>
<td>6499</td>
<td>30</td>
<td>14</td>
<td>na</td>
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<td>148</td>
<td>&quot;spring&quot;</td>
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<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>grate covering pipe from adit, 3' diameter, 12 inch pipe in upright culvert, est 2-300 gpm</td>
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<td></td>
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<td>149</td>
<td>Adit #1</td>
<td>295</td>
<td>712535</td>
<td>4928895</td>
<td>6486</td>
<td></td>
<td>long</td>
<td>8</td>
<td>8</td>
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<td></td>
<td>Steel doors on adit, no lock, could get around doors even if locked, widens to 12 feet past portal, partially caved above portal. Cut in front of portal 80 x 20 x 15</td>
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<tr>
<td>150</td>
<td>Cut, NW corner(building pad)</td>
<td>215</td>
<td>712521</td>
<td>4929038</td>
<td>6521</td>
<td>100</td>
<td>30</td>
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<td>151</td>
<td>Exposed Agg slab, junk</td>
<td></td>
<td>712526</td>
<td>4928882</td>
<td>6404</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>a dozen 3 x 3 x 4inch slabs of exposed aggregate concrete with lots of miscellaneous junk, wood, metal, pallets</td>
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<tr>
<td>152</td>
<td>Spring</td>
<td></td>
<td>712549</td>
<td>4928906</td>
<td>6467</td>
<td>est 100+ gpm</td>
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<tr>
<td>153</td>
<td>Foundation #4, NE corner</td>
<td>210</td>
<td>712579</td>
<td>4928958</td>
<td>6443</td>
<td></td>
<td>60</td>
<td>12</td>
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#### Field Notes:

**Access:**

Turn West on main road through downtown Challis from highway 93 (0.0 miles). Bear right at 5.2 miles, sign toward Mill Creek Campground. At 5.9 miles turn right (north) to minesite. The road is accessible to all vehicles. Only the main area was inspected as requested by the BLM. There are workings higher up the hill visible on the orthophoto which appear to be mostly on private ground.

There is a lot of junk around this site but the only significant hazard is the open adit. The water at the site draining from the adit is an issue because someone wants to use it.

---

**INSPECTED BY:** Dave Leppert ____________ **TITLE:** Geologist____ **DATE:** 10/3/03

**INSPECTED BY:** Virginia Gillerman __________ **TITLE:** Geologist____ **DATE:** 10/3/03

(03/95)
## Digital Photos

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<td>PA030055</td>
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<td>Concrete well</td>
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<td>PA030056</td>
<td>128</td>
<td>315</td>
<td>Foundation #1</td>
</tr>
<tr>
<td>PA030057</td>
<td>130</td>
<td>S</td>
<td>Power poles with transformers, Bldg #1</td>
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<td>PA030058</td>
<td>128</td>
<td>230</td>
<td>Overview of Dump #1 surface, concrete equip found, etc.</td>
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<tr>
<td>PA030059</td>
<td>135</td>
<td>310</td>
<td>Dump #1, retaining wall,</td>
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<tr>
<td>PA030060</td>
<td>137</td>
<td>W</td>
<td>Ore bin, equipment foundation</td>
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<td>20</td>
<td>Ramp with rebar</td>
</tr>
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<td>142</td>
<td>240</td>
<td>Pond, ramp with rebar, dump #1, wall</td>
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<td>148</td>
<td>NA</td>
<td>Grate over &quot;spring&quot; from adit</td>
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<tr>
<td>PA030064</td>
<td>148</td>
<td>NA</td>
<td>?12? Inch pvc pipe &quot;spring&quot;</td>
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<td>PA030065</td>
<td>149</td>
<td>295</td>
<td>Adit #1 portal</td>
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<tr>
<td>PA030066</td>
<td>149</td>
<td>295</td>
<td>Adit #1 portal, note partial collapse above</td>
</tr>
<tr>
<td>PA030067</td>
<td>S of 149</td>
<td>N</td>
<td>Overview of upper level</td>
</tr>
<tr>
<td>PA030068</td>
<td>152</td>
<td>250</td>
<td>Spring</td>
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<tr>
<td>PA030069</td>
<td>153</td>
<td>S</td>
<td>Foundation #4</td>
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</table>

Note: all photos by Virginia Gillerman (03/95)
### A. SITE IDENTIFICATION
- Other BLM ID Number: 
- Locatable _____ / Leasable _____ / Salable
- Operator (last known): 
- Commodities: Primary __________ / Secondary __________
- Other Agency ID Number: __________ Agency: __________

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

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

### D. SITE DESCRIPTION
- Nearest named drainage: ___________________________ Distance: __

### G. POTENTIAL HAZARDOUS MATERIALS
- Site is under regulatory action
- CERCLIS Number ___________________________ OR
- Federal Docket Number ___________________________

### H. RECLAMATION: Closure Information
- Clearances:
  - Threatened & Endangered Species ___________________________
  - Cultural Resources ___________________________
  - Historic ___________________________
  - Other ___________________________

- Date reclamation completed: ___________________________
- Type of closure: ___________________________
- Cost: ___________________________
- Comments:
  - ___________________________
  - ___________________________
  - ___________________________

- Monitoring frequency: ________ Dates of monitoring visits:
  - ___________________________
  - ___________________________
  - ___________________________
  - ___________________________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
## Custer County, "Daugherty Springs Prospect" IGS# CH1166

**BLM AML INVENTORY**

**ID Number:** ID-0330-CH1166

**SUPPLEMENTAL OFFICE DATA SHEET**

**IGS:** CH1167

---

### I. INTERVIEWS

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(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0330-CH1202
Site/Mine Name: Rob Roy Primary Commodity: Silver, 540
IGS Number: CH1202 also listed as Cu, Pb, Zn producer

B. LOCATION DATA
USGS Quad: Clayton LAT: _________ LONG: _________ OR
UTM Coord: _________ N _________ E Zone 11T AND
Township: 11N Range: 17E Section: 12 Subdivision: SWNW
Meridian: Boise, 08 County: Custer, ID037
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road 3 / Trail ___ / Population center 0
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___
Only visible from road which goes to the mine, may be visible from FS RD 530 but was not noticed while driving there.
Recent human use: No Describe:

D. SITE DESCRIPTION
Acreage: 3 Elevation: 7000 to 7800
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in ___ / Adjacent to ___ / NA
Recent mineral activity None Describe:

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 5 / Open inclines ___ / Closed inclines
Open shafts ___ / Closed shafts ___ / Stopes
Other openings ___ Type ___
Trenches ___ Length ___ / Prospects ___ / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac 2 / 0.1 - 5 ac 1 / >5 ac
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac
Heaps ___ / Dredge
Ponds ___ / Dams
Mills ___ Type ___ , ___,
Explosives ___ Describe:
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
Powerlines
Structures 2 Type Log cabins, no roof. With outhouse.
Condition: Good ___ / Fair ___ / Poor X / Number Locked
Homesites
Other: Rails from adit #2 with support structure, concrete foundation
(08/97, swm)
Custer County, Rob Roy Mine, IGS# CH1202

BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1202

IGS:____

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy / Stressed / Dead / Nonexistent
Evidence of natural revegetation: Describe: Older dumps well covered with trees and brush, more recent dumps (1950-60s) barren.

ANIMALS
Evidence: / Presence: / Describe: Scat, tracks

GEOLOGY
Staining of soils Describe:
Sulfide minerals Type(s): None observed, some gossan on upper dump
Tailings: Confined / Unconfined / Unknown

HYDROLOGY Entire site was dry

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

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

Evidence of aquatic life Location: Describe:

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

Samples collected: Sketch #(s):

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features) None

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

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

Other:

RADIATION

<table>
<thead>
<tr>
<th>Sketch #</th>
<th>mR/hr gamma</th>
<th>WL alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit/Incline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaft</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1202

IGS:____
Custer County, Rob Roy Mine, IGS# CH1202

H. RECLAMATION

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

The one open adit has a small opening, but large enough to easily crawl through to where it opens up to full size. The site is fairly remote and although the road is good except for the moderately rough creek crossing, it is not shown on the topo maps or other area maps. A BLM "Danger, Abandoned Mine Hazards" sign was posted on the adjacent cabin. A minor amount of scrap wood and junk is at the main site, mostly on the dump face.

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

J. GLOBAL POSITIONING SYSTEM DATA _____ Rover File name: NA Garman, Waypoints 330 thru 344
K. PHOTOGRAPHS
Number of photographs taken: Digital Photos, P8050066 thru 79, 13

L. ACTION None
Site requires immediate investigation ___ by: Law Enforcement ____ / BLM HAZMAT ____ / Other ____________________________________________
Reason: _______________________________________________________

______________________________________________________________

71 ☑
Figure 1202-1: Rob Roy Location Map. Entire area is BLM administered lands.
Figure 1202-2: Rob Roy Site Map. 100 m UTM grid, NAD27 datum
Custer County, Rob Roy Mine, IGS# CH1202

Figure 1202-3: Overview of main workings at the Rob Roy Mine. Photo P8050068, View SSW

Figure 1202-4: Rob Roy Adit #2. Apparently the main workings. Caved immediately behind portal. Photo P8050068, View West
Custer County, Rob Roy Mine, IGS# CH1202

Figure 1202-4: Rob Roy Mine, rails on loading platform made of massive logs at Adit #2. Photo P8050089, View NNE

Figure 1202-5: Rob Roy Mine, Adit #3, open, at upper workings. Ski pole for scale in center of photo. Photo P8050072, View West
Figure 1202-6: Cabins adjacent to Adit #3. These are at the “upper workings”. Note the BLM sign posted on the cabin. Photo P8050074, View North

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

See Field Data Spreadsheet for complete information, attached

<table>
<thead>
<tr>
<th>Waypoint</th>
<th>Easting,</th>
<th>Northing,</th>
<th>Feature</th>
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<tr>
<td>330</td>
<td>706786</td>
<td>4908088</td>
<td>Main road, 4 way intersection</td>
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<td>331</td>
<td>706613</td>
<td>4908032</td>
<td>Adit #1, caved</td>
</tr>
<tr>
<td>332</td>
<td>706582</td>
<td>4907927</td>
<td>Adit #2, caved, MAIN LOCATION</td>
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<tr>
<td>333</td>
<td>706398</td>
<td>4907546</td>
<td>Road, switchback</td>
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<td>334</td>
<td>706426</td>
<td>4907731</td>
<td>Road, switchback #2</td>
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<td>335</td>
<td>706316</td>
<td>4907602</td>
<td>Road, switchback #3</td>
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<tr>
<td>336</td>
<td>706272</td>
<td>4908039</td>
<td>End of smaller road, no workings</td>
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<tr>
<td>337</td>
<td>706173</td>
<td>4907691</td>
<td>Adit #3, open, dump #3</td>
</tr>
<tr>
<td>338</td>
<td>706179</td>
<td>4907743</td>
<td>Adit #4, caved, dump #4</td>
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<tr>
<td>339</td>
<td>705829</td>
<td>4907827</td>
<td>Switchback, no visible workings above</td>
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<tr>
<td>340</td>
<td>706423</td>
<td>4907968</td>
<td>Adit #5 w/dump, caved, older</td>
</tr>
<tr>
<td>341</td>
<td>706534</td>
<td>4908216</td>
<td>Adit #6, caved, older, dump cut by road</td>
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<tr>
<td>342</td>
<td>706500</td>
<td>4908267</td>
<td>End of road, no works, above pit</td>
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<tr>
<td>343</td>
<td>706650</td>
<td>4907966</td>
<td>Concrete equipment foundation</td>
</tr>
<tr>
<td>344</td>
<td>706630</td>
<td>4907833</td>
<td>Lower road, continues to probable additional works</td>
</tr>
</tbody>
</table>
Custer County, Rob Roy Mine, IGS# CH1202

Field Notes:

The site is accessed via FS Road 530 north of Clayton. Just before the Clayon mine, bear right, up the steep hill. Follow the road approximately 1.5 miles then take the left fork which goes down to the creek.

There is a cable across the road, but it is simply stuck through the chain and not secured so it can be removed. The small bridge across Kinnikinic Creek is rotted and blocked with a log. Relatively recent tracks have used a ford immediately south of the bridge. Cross the creek and follow the road back through the Carrothers-Hines property to the Rob Roy. The road to the upper workings could have been driven. There was plenty of room to turn around at each switchback. Beyond the upper workings, large rocks block the road but they could probably be bypassed with an ATV, possibly even a Jeep or similar vehicle.

There is an additional disturbed area to the south visible on the orthophoto that was not visited. The photo coverage I had with me in the field did not extend that far south. I walked a 100 yards or so down the road, didn’t see anything, and turned around. It was only another 100 yards or so to the disturbed area visible on the orthophoto.

There are older roads that switchback up the mountainside mostly to the north of the good road. Some, but not all of these were explored. Workings that were found were caved and overgrown. Parts of the older road were also overgrown. Above the upper workings, Adits 3 and 4, no additional workings were found although the road continues up the hill. A BLM “Danger” sign was posted on the cabin near open adit #3 since there was no place to secure it at the adit. I followed the road for a few switchbacks above the upper workings and turned around near waypoint 339. Detailed examination of the orthophoto suggests additional workings higher up at approximate UTM coordinates 708200 Easting, 4908750 Northing, near the southern boundary of section 2, just below the ridgeline.

Note: This property is listed in USGS Open File Report 97-439 (Kiilsgaard, 1997) as OME 6437, page 19. A copy of the PDF file is on the CD that accompanies this report.

INSPECTED BY: Dave Leppard TITLE: Geologist DATE: 8/5/04
INSPECTED BY: ___________________________ TITLE: ___________ DATE: ___________

(03/95)
Fill out the following for each photo:
Digital photo files included. Number refers to file name.

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<tr>
<td>P8050066</td>
<td>330</td>
<td>SW</td>
<td>Overview of Rob Roy main area</td>
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<tr>
<td>P8050067</td>
<td>331</td>
<td>280</td>
<td>Adit #1</td>
</tr>
<tr>
<td>P8050068</td>
<td>332</td>
<td>270</td>
<td>Adit #2 Portal with gate</td>
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<tr>
<td>P8050069</td>
<td>332</td>
<td>NE</td>
<td>Rails to loading area</td>
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<td>P8050070</td>
<td>335</td>
<td>150</td>
<td>Unnamed prospect, right center</td>
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<td>P8050071</td>
<td>337</td>
<td>NW</td>
<td>Two cabins</td>
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<td>P8050072</td>
<td>337</td>
<td>345</td>
<td>Adit #3, open</td>
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<tr>
<td>P8050073</td>
<td>337</td>
<td>NE</td>
<td>outhouse</td>
</tr>
<tr>
<td>P8050074</td>
<td>337</td>
<td>N</td>
<td>cabin with BLM danger sign</td>
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<td>P8050075</td>
<td>338</td>
<td>350</td>
<td>Adit #4, caved</td>
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<tr>
<td>P8050076</td>
<td>339</td>
<td>SW</td>
<td>Road</td>
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<td>P8050077</td>
<td>340</td>
<td>245</td>
<td>Adit #5, caved, older workings</td>
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<td>P8050078</td>
<td>343</td>
<td>NW</td>
<td>Concrete foundation</td>
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<tr>
<td>P8050079</td>
<td>343</td>
<td>SW</td>
<td>Foundation, main dump, loading platform with rails</td>
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(03/95)
Custer County, Rob Roy Mine, IGS# CH1202

BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

ID Number: ID-0330-CH1202
IGS: __________

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

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

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

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

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

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

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

Monitoring frequency: _______ Dates of monitoring visits: __________________________

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

(03/95)
## INTERVIEWS

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(03/95)
A. SITE IDENTIFICATION
ID Number: **ID-0330-CH1213**
Site/Mine Name: **Williams, Rohlds, and Ernst Mine**
Primary Commodity: Unknown, probably silver
IGS Number: **CH1213**

B. LOCATION DATA
USGS Quad: Bald Mountain
LAT: ___ LONG: ___ OR
UTM Coord: 4904380N 710098E Zone 11T at Waypoint 262 AND
Township: 11N Range: 18E Section: 20 Subdivision: SWSW
Meridian: Boise, 08 County: Custer, ID037
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road __ / Trail NA / Population center __
Access by: 2wd ___ / 4wd ___ / Hike X / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log:
**No road access. The site is visible from Highway 75, but not readily apparent.**
Recent human use: No Describe:

D. SITE DESCRIPTION
Acreage: **One acre** Elevation: 6400 to 6800
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in ___ / Adjacent to ___ / NA
Recent mineral activity: **None** Describe:
**There are pvc claimposts in the area. It is unknown if the claims are current.**

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 2 / Closed adits 3 / Open inclines ___ / Closed inclines
Open shafts ___ / Closed shafts ___ / Stopes 1
Other openings ___ Type
Trenches 4 Length 830 feet ___ / Prospects ___ / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac 1 ___ / >5 ac
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac
Heaps ___ / Dredge
Ponds ___ / Dams
Mills ___ Type ____ , ____.
Explosives ___ Describe: **No equipment etc on site. Very minor scrap metal**
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
Powerlines ___ Type ____
Structures ___ Type ____
Condition: Good ____ / Fair ____ / Poor ____ / Number Locked
Homesites ___
Other: _____________________________

(08/97, swm)
Custer County, Williams, Rohlds and Ernst Mine, IGS# CH1213
BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1213
IGS: CH1213

F. ENVIRONMENTAL FEATURES

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

Some revegetation of dump tops with sage and other brush, dump slopes mostly barren

ANIMALS
Evidence: ___ / Presence: ____ / Describe: scat, deer, elk_____________________

GEOLOGY
Staining of soils ___ Describe: ________________________________
Sulfide minerals ___ Type(s): minor amount of dark gray sulfide in quartz________
Tailings: Confined ____ / Unconfined ___ / Unknown

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

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

Evidence of aquatic life ___ Location: ________________ Describe: ________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___

Samples collected: ___ Sketch #(s): ________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features) NONE

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

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

Other: ________________________________

RADIATION Sketch # mR/hr gamma WL alpha
Background ___________ ___________________ __________________
Adit/Incline ___________ ___________________ __________________
Shaft ___________ ___________________ __________________
Other: ___________ ___________________ __________________

(03/95)
H. RECLAMATION

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

The two open adits have unstable openings in partially cemented colluvium. The open stope did not appear to be very deep, but would be difficult for someone to climb out of. Due to difficult access, reclamation is not considered critical.

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

J. GLOBAL POSITIONING SYSTEM DATA Rover File name: Garmin, Waypoints 259 to 277

K. PHOTOGRAPHS
Number of photographs taken: 19, Digital photos, P6290025 thru 43

L. ACTION None
Site requires immediate investigation by: Law Enforcement / BLM
HAZMAT / Other ________________________

Reason: ________________________
____________________________
____________________________
____________________________
____________________________

(03/95)
Figure 1213-1: Location Map. Entire area is BLM administered lands.
Figure 1213-2: Site Map. Note that Dump 4 and Dump 5 are actually several coalescing dumps.
Custer County, Williams, Rohlds and Ernst Mine, IGS# CH1213
BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1213
IGS: CH1213

Figure 1213-3: Overview of the Williams, Rohlds, Ernst Mine from below. Photo P6290028

Figure 1213-4: Adit #3, open. Photo P6290029. Note the large unstable sloughing colluvium.
Figure 1213-5: Stope #1, open. Photo P6290031

Figure 1213-6: Adit #4, Open. Photo P6290034, View NNE
**Custer County, Williams, Rohlds and Ernst Mine, IGS# CH1213**

BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0330-CH1213

**IGS: CH1213**

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>WP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>W</th>
<th>Ht/Depth</th>
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<td>263</td>
<td>Dump #3, tipple point</td>
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<td>271</td>
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Field Notes:
Park along Hwy 75 approximately one and a half miles east of Clayton by the small road with a cable gate across it on the North side of the highway (Sulfide Prospect). The dumps are visible from the road. Walk uphill approximately 1000 vertical feet. Although close to the road, it is a steep hike to the mine without a trail and probably attracts very few visitors.

Ken Gardner (BLM, Challis office) mentioned going by a building to the west since he had parked near the steel bridge and angled up to the property. There is a building indicated on the topographic map, but I did not see it since I parked directly below the property and went straight up the hill.

Several additional mines and/or possible workings were visible from this property, including at least two which do not appear to be in the IGS database. One is on the relatively level part of the ridge above Spud Creek, approximate UTM coordinates 711300 E/4902500N, on the ridge below the Mule Shoe Mine. The other is directly across the Salmon River, approximate UTM coordinates 709800 E/4903000 N. When returning to the road, I cut to the east to check out some of the light colored areas on the photo. These are deposits from several springs.

**INSPECTED BY:** Dave Leppert

**TITLE:** Geologist

**DATE:** 6/29/2004
Custer County, Williams, Rohlds and Ernst Mine, IGS# CH1213
BLM AML INVENTORY FIELD CHECKLIST ID Number: : ID-0330-CH1213
PHOTO LOG

Fill out the following for each photo: Digital Photos

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<td>336</td>
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<td>View SSE, site ID-0084-0012</td>
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<td>P6290042</td>
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<td>Mule Shoe Mine, ID-0084-0017</td>
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<td>P6290043</td>
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<td>&quot;modern&quot; breccia, cemented by springwaters</td>
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(03/95)
Custer County, Williams, Rohlds and Ernst Mine, IGS# CH1213

BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

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

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

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

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

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

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

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

Monitoring frequency: _______ Dates of monitoring visits: __________________________

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

(03/95)
I. INTERVIEWS

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<tr>
<td>Comments:</td>
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</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0330-CH1232
Site/Mine Name: Redbird Primary Commodity: Silver, 540
IGS Number: CH1232

B. LOCATION DATA
USGS Quad: Clayton LAT: _______ LONG: _______ OR
UTM Coord: 4909223N_701255E Zone 11T AND
Township: 11N Range: 18E Section: 5 Subdivision: NESE
Meridian: Boise, 08 County: Custer ID037
Surface: BLM __ / Non-BLM x Mineral Estate: BLM __ / Non-BLM x

C. ACCESS
Visible from: Nearest road 3 / Trail ___ / Population center
Access by: 2wd x / 4wd x / Hike x / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___
It is a good gravel road to the main area, Squaw Creek Road, FS Rd 041. 4WD is recommended for the steep road which goes near the upper workings though a short hike is required from this road. Walk or drive to the upper switchback, with a large dirt pile on the corner, and cut over from there to the uppermost workings. The area is mostly patented ground, though unsure if all workings are on private ground. It is surrounded by BLM ground

Recent human use: Y Describe: At least one building in use with recently mown grass. Trailers appeared to have current plates. Orange safety fencing in one adit.

D. SITE DESCRIPTION
Acreage: 4 Elevation: 5900 to 6800
About one plus acre for area with buildings, nearly an acre for the lower dump, and acre for the main hillside dump, and less than an acre for upper workings.
General slope (degrees): 0-10 X (base area) / 11-35 ___ / >35 X
Floodplain: Disturbance in x / Adjacent to ___ / NA
Recent mineral activity? Describe: There is a bulldozer at the lower site and it appeared, from a distance, that there was relatively recent disturbance on the lower dump. This was not investigated up close due to the fact it was posted "No Trespassing" and there was obvious recent use of the property. Only the upper workings were examined up close.

Continued on next page
Custer County, Redbird Mine, IGS# CH1232

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

Open adits 4 / Closed adits 3 / Open inclines / Closed inclines
Open shafts / Closed shafts / Stopped 2 open plus 1 caved. One of the open adits may actually be a decline or open stope.
Other openings / Type
Trenches / Length / Prospects / Open drill holes

Pits >30 ft. deep / Pits <30 ft. deep / Pit highwall length
Waste dumps: <0.1 ac / 0.1 - 5 ac / >5 ac

The dumps were not well defined from the upper workings. There are steep natural talus slopes in the area and it is difficult to tell where the mine waste ends and the natural material begins. There are two large distinct dumps, one at the base, which was not visited due to numerous "No Trespassing" signs and recent use. The other large dump covers a significant part of the hillside as seen in photo 49.

Tailings: <0.1 ac / 0.1 - 5 ac / >5 ac
Heaps / Dredge
Ponds / Dams
Mills / Type

Explosives / Describe:
Equipment/Machinery / Bulldozer / Headframes / Trestles/tramways
Powerlines / substation, in use
Structures / Numerous / Type Dwellings, other unknown.
Condition: Good / Fair / Poor / Number Locked
Homesites

Other: Rails, scrap metal of unknown origin

No buildings on upper workings
Custer County, Redbird Mine, IGS# CH1232

BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1232

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy x / Stressed / Dead / Nonexistent
Evidence of natural revegetation: y / Describe: Trees and brush on level areas of the dumps near workings. Steeper dump slopes mostly barren.

ANIMALS
Evidence: x / Presence: / Describe: scat, elk, deer

GEOLOGY
Carbonates of the Saturday Mountain Formation (Hobbs, 1983, Chapter K)
Staining of soils x / Describe: Some of the rocks on the dump have dark red Fe staining
Sulfide minerals / Type(s): 
Tailings: Confined / Unconfined / Unknown

HYDROLOGY
Entire upper workings dry. Squaw Creek flows through the lower part of the property. No samples taken. Water quality not checked

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<th>Conductivity</th>
<th>Flow (GPM)</th>
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<td>Adjacent water sources:</td>
<td>Type</td>
<td>pH</td>
<td>Conductivity</td>
<td>Flow (GPM)</td>
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<td>Ground water:</td>
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<tr>
<td>Surface water:</td>
<td></td>
<td></td>
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<tr>
<td>Surface H2O above site:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface H2O below site:</td>
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<td></td>
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<tr>
<td>Water bed color: White / Yellow / Yellow-Orange / Orange / Brown / Green / Grey-Black / Other</td>
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</table>

Samples collected: Sketch #(s): __________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills / Acid or Chemical odor / Asbestos
Petrochemical Products / Dump sites
Power Substations x, in use / Transformers

Barrels, Tanks, Containers Leaking Contents: __________________________
Evidence of Underground Storage Tanks Describe: __________________________ (03/95)
Custer County, Redbird Mine, IGS# CH1232
BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1232

H. RECLAMATION

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

MITIGATION STATUS
None / Fencing / Signs / Safety hazards mitigated

Other:

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

OPTIONAL: Identify the critical reclamation measures needed:

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

Other:

The two open stopes are dangerous. There is a roll of orange safety fencing in one of the adits suggesting someone has at least considered fencing off the open stopes. One warning sign was placed on a tree at the uppermost workings. Since this is on private property, the BLM may only be able to post warning signs on the road and/or near property boundaries.

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

J. GLOBAL POSITIONING SYSTEM DATA
Rover File name: NA
Garmin, 11 waypoints listed on the field data spreadsheet and in the Waypoints file

K. PHOTOGRAPHS
Number of photographs taken: 20, digital photos P8040045 thru 64

L. ACTION
None
Site requires immediate investigation by: Law Enforcement / BLM HAZMAT / Other
Reason:

95
Figure 1232-1: Redbird Site Location Map. Note the large extent of patented ground. Detailed inspection of the orthophotos indicates additional disturbed areas which may be related to mine workings.
Figure 1232-2: Redbird Site Map. The area around the base and Adit #1 was posted and not visited.
Figure 1232-3: Redbird Site Map, detail of upper workings.
Custer County, Redbird Mine, IGS# CH1232

Figure 1232-4: Redbird Main Base Area, Photo P8040045, View North

Figure 1232-5: Portal to Adit #1, Dump#1, bulldozer. Photo P8040048, view East
Figure 1232-6: Redbird Mine, view from Squaw Creek Road. View East, Photo P8040049

Figure 1232-7: Redbird Mine, Adit #3, Photo P8040052
Custer County, Redbird Mine, IGS# CH1232

Figure 1232-8: Redbird Mine, Stope #1, open Photo P8040053

Figure 1232-9: Redbird Mine, Stope #3. Very large open stope. Open adit #7 is to the left, downhill. Photo P8040062, view North
Figure 1232-10: Redbird Mine, Adit #7. This adit connects to Stope #3. Note the roll of orange safety fencing in the adit. Photo P8040063
Custer County, Redbird Mine, IGS# CH1232

BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1232

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
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<th>WP #</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Alt</th>
<th>L</th>
<th>W</th>
<th>Ht/Dep</th>
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<td>Adit #7, open</td>
<td>701729</td>
<td>4909205</td>
<td>6610</td>
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Field Notes:

The Redbird is on the Squaw Creek Road (Forest Road # 041) just north of the entrance to the Thompson Creek mine. There is a side road that goes near, but not directly to, the upper workings. This is marked as a “jeep trail” on the topo map and adjoins the Squaw Creek Road a couple hundred yards south of the entrance to the Thompson Creek Mine. Although a small pile of dirt partially blocks the entrance to this road, it was easily bypassed. No tracks were apparent though and any recent tracks would be easily visible here. Although narrow and with a steep dropoff in places, the road was in good condition with few large rocks on it and only small amounts of sloughing shale/slate from the roadcut.

The main area at creek level is posted “No Trespassing” with signs of recent use, recently mown grass around the buildings. Therefore, this area was not investigated. The portal could be seen from the road and it has a door that was closed. A bulldozer was also present on-site.

Re-examination of the maps and photos suggests there may be another adit near the first large switchback on the road that was missed during the site visit. There is an adit symbol in this area on the topo map. When descending from the upper workings, I veered to the south to avoid hitting my vehicle, parked at the first switchback, with rocks that were rolling down the steep slope. Benches in Photo P8040049 on the main hillside dump near the level of the first switchback suggest possible adit locations. Detailed examination of the orthophoto also suggests additional workings as marked on figure 1232-1.

Only a partial day was spent at the Redbird with a focus on what apparently were the main workings. The extent of the patented claim block, in addition to disturbances noted on the orthophotos, suggests a much wider area of operations.

INSPECTED BY: Dave Leppert
TITLE: Geologist
DATE: 8/4/04

INSPECTED BY: ________________________________ TITLE: __________ DATE: ________________________________

(03/95)
Custer County, Redbird Mine, IGS# CH1232

BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0330-CH1232
PHOTO LOG

Fill out the following for each photo: Digital photos.

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<th>Feature</th>
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<td>318</td>
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<td>Main area</td>
</tr>
<tr>
<td>P8040047</td>
<td>318</td>
<td>NE</td>
<td>Main area, dump #1</td>
</tr>
<tr>
<td>P8040048</td>
<td>318</td>
<td>E</td>
<td>Redbird, view of portal with door, Adit #1</td>
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<td>P8040049</td>
<td>318</td>
<td>E</td>
<td>Redbird, upper workings, dumps</td>
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<td>P8040050</td>
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<td>100</td>
<td>Adit #2</td>
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<td>P8040051</td>
<td>322</td>
<td>130</td>
<td>Adit #3, decline, open</td>
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<td>P8040052</td>
<td>322</td>
<td>130</td>
<td>Adit #3 from below, opening not visible</td>
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<tr>
<td>P8040053</td>
<td>323</td>
<td>SE</td>
<td>Stope #1, open</td>
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<td>P8040054</td>
<td>323</td>
<td>E</td>
<td>Adit #4, caved</td>
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<td>P8040055</td>
<td>324</td>
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<td>Stope? #2, caved</td>
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<td>P8040056</td>
<td>324</td>
<td>NW</td>
<td>View of Thompson Creek Mine</td>
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<td>P8040057</td>
<td>324</td>
<td>W</td>
<td>View of Main area from above</td>
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<td>P8040058</td>
<td>325</td>
<td>W</td>
<td>Big red rocks, scrap metal on Dump #3</td>
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<td>P8040059</td>
<td>326</td>
<td>160</td>
<td>Adit #5, open, small opening</td>
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<tr>
<td>P8040060</td>
<td>326</td>
<td>160</td>
<td>Adit #5, hidden behind trees</td>
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<td>P8040061</td>
<td>327</td>
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<td>Stope #3, large, open (shaft?)</td>
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<td>P8040062</td>
<td>328</td>
<td>N</td>
<td>Bench with open stope</td>
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<td>P8040063</td>
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<td>105</td>
<td>Adit #7, open, connects to Stope #3</td>
</tr>
<tr>
<td>P8040064</td>
<td>329</td>
<td>N</td>
<td>Rails from Adit #7 to tipple point</td>
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</tbody>
</table>

(03/95)
**Custer County, Redbird Mine, IGS# CH1232**

**BLM AML INVENTORY**

**SUPPLEMENTAL OFFICE DATA SHEET**

**ID Number:** ID-0330-CH1232

### A. SITE IDENTIFICATION

- **Other BLM ID Number:**
  - Locatable _____ / Leasable _____ / Salable _____

- **Operator (last known):**

- **Commodities:** Primary _____ / Secondary _____

- **Other Agency ID Number:**

### B. LOCATION DATA

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

### C. ACCESS

- **Distance in Miles to Closest Public:**
  - Road _____ Adjacent _____
  - Dwelling _____
  - School _____
  - Potable Water _____
  - Water Source _____
  - Trail _____
  - Campground/Picnic Area _____
  - Other Public Use _____

### D. SITE DESCRIPTION

- **Nearest named drainage:** Squaw Creek
  - **Distance:** _____

### G. POTENTIAL HAZARDOUS MATERIALS

- **Site is under regulatory action:**
  - CERCLIS Number _____
  - Federal Docket Number _____

### H. RECLAMATION: Closure Information

- **Clearances:**
  - Threatened & Endangered Species
  - Cultural Resources
  - Historic
  - Other

- **Date reclamation completed:**

- **Type of closure:**

- **Cost:**

- **Comments:**

- **Monitoring frequency:**

- **Dates of monitoring visits:**

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

(03/95)
## INTERVIEWS

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</table>

(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0330-CH1318
Site/Mine Name: "Compressor" Primary Commodity: Unknown, Ag?
Name is assigned, not historic
IGS Number: CH1318

B. LOCATION DATA
USGS Quad: Bald Mountain LAT: ______ LONG: _____ OR
UTM Coord: 4904660 N 712499E Zone 11T AND
Based on waypoint 295
Township: 11N Range: 18E Section: 21 Subdivision: NWSE
Meridian: Boise, 08 County: Custer, ID037
Surface: BLM X / Non-BLM __ Mineral Estate: BLM ____ / Non-BLM

C. ACCESS
Visible from: Nearest road _3* / Trail ___ / Population center ___
Access by: 2wd ___ / 4wd ___ / Hike X / Other
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ____ Road Log: ___
*Visible from gated dirt road, not visible from the highway

D. SITE DESCRIPTION
Acreage: <1 Elevation: 6200
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in ____ / Adjacent to ____ / NA
Recent mineral activity No Describe: __________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 6 / Closed adits 2 / Open inclines ____ / Closed inclines
Open shafts ____ / Closed shafts ____ / Stopes
Other openings Type __________
Trenches ____ Length ______ / Prospects ___ / Open drill holes

Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac 8 / 0.1 - 5 ac ___ / >5 ac
Tailings: <0.1 ac ____ / 0.1 - 5 ac ____ / >5 ac
Heaps ____ / Dredge
Ponds ____ / Dams
Mills ____ Type ____, ______.
Explosives ____ Describe: _________________________________
Equipment/Machinery Y, old compressor on road / Headframes ____ / Trestles/tramways

Powerlines
Structures ____ Type
Condition: Good ___ / Fair ____ / Poor ____ / Number Locked
Homesites
Other: misc pipe and wood on dump and in adit #2 ________
Custer County, “Compressor” Mine, IGS# CH1318

BLM AML INVENTORY FIELD CHECKLIST  
ID Number: **ID-0330-CH1318**

**F. ENVIRONMENTAL FEATURES**

**VEGETATION**
Vegetation: Healthy [ ] / Stressed [x] / Dead [ ] / Nonexistent
Evidence of natural revegetation: [ ] Describe: *minimal revegetation of road and upper dump surface*

**ANIMALS**
Evidence: No [ ] / Presence: [x] / Describe: ____________________________

**GEOLOGY**
Staining of soils: Describe: ____________________________________________
Sulfide minerals: No [ ] Type(s): ____________________________
Tailings: Confined [x] / Unconfined [ ] / Unknown

**HYDROLOGY DRY**
Water flowing from workings: __________________________________________
Standing water in workings: __________________________________________
Water through/over tailings: __________________________________________
   waste rock: __________________________________________
   ore: __________________________________________
Adjacent water sources:
   Ground water: ______________________ Type [ ] pH ______ Conductivity ______ Flow (GPM) ______ Sketch # ______
   Surface water: ______________________ Type [ ] pH ______ Conductivity ______ Flow (GPM) ______
   Surface H2O above site: ______________________ Type [ ] pH ______ Conductivity ______ Flow (GPM) ______
   Surface H2O below site: ______________________ Type [ ] pH ______ Conductivity ______ Flow (GPM) ______
Evidence of aquatic life: [ ] Location: ______ Describe: ____________________________

Water bed color: White [ ] / Yellow [x] / Yellow-Orange [ ] / Orange [ ]
Samples collected: ______ Sketch #(s): ____________________________

**G. POTENTIAL HAZARDOUS MATERIALS** (Provide numbers of features) NO

Chemical piles or spills: [ ] / Acid or Chemical odor [ ] / Asbestos
Petrochemical Products: [ ] / Dump sites
Power Substations: [ ] / Transformers
Barrels, Tanks, Containers: old barrels, propane? tank: [ ] Leaking: [ ] Contents: empty: [ ]
Evidence of Underground Storage Tanks: [ ] Describe: ____________________________

Other: ____________________________

**RADIATION**
Background: ____________________________
Adit/Incline: ____________________________
Shaft: ____________________________
Other: ____________________________

Sketch # [ ] mR/hr gamma [ ] WL alpha [ ]

(03/95)
Custer County, “Compressor” Mine, IGS# CH1318

BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0330-CH1318

H. RECLAMATION

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

MITIGATION STATUS
None X / Fencing _____ / Signs _____ / Safety hazards mitigated
Other: “Danger, Abandoned Mine Hazards” posted at Adit #2 during field visit

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

OPTIONAL: Identify the critical reclamation measures needed:

_____ Cable nets, grates
_____ Permanent seal
X  Gates
_____ Backfill openings, pit
_____ Recontour
_____ Fences
_____ Warning signs
_____ Plug open drill holes
_____ X Trash / clean up
_____ Other:

No critical reclamation measures. The site is relatively remote although the open adits are a potential hazard. There is a modest amount of junk strewn around the site, mostly old lumber and pipes. Adit #2 is relatively accessible and possibly should be gated.

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

J. GLOBAL POSITIONING SYSTEM DATA _____  Rover File name: _____ NA

Garmin, 16 waypoints

K. PHOTOGRAPHS
Number of photographs taken: 21

L. ACTION NO
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM HAZMAT _____ / Other ______________________

Reason:

________________________________________

(03/95)
Figure 1318-1: Location Map, "Compressor" Mine. Entire area is BLM administered lands.
Unknown, "Compressor"
SE Section 21 east of Clayton

Figure 1318-2: Compressor Mine Site Map

Figure 1318-3: Compressor, view SSE, Dump #1 and caved adit #1 in background. Photo 7290070
Figure 1318-4: Adit #2, Open, with newly posted BLM "Danger" sign. Photo P7290078

Figure 1318-5: Inside of Adit#2. Photo P7290075, View East
Custer County, "Compressor" Mine, IGS# CH1318

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID-0330-CH1318

Figure 1318-6: Adit #4, open. Photo P7290080
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
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<tr>
<th>Waypoint</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
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<td>712325</td>
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<td>712329</td>
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<td>712392</td>
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<td>712499</td>
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<td>4904652</td>
<td>6292</td>
<td>50</td>
<td>60</td>
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<td>301</td>
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<td>Dump #3 (with Adit #6)</td>
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<td>30?</td>
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**Field Notes:**

Access: Park on the north side of Hwy 75 approximately 3 miles east of Clayton on the dirt road which leads to a cable style gate. Walk up the road approximately ½ mile to the site. The cable gate could be easily bypassed with an ATV or motorcycle. If the gate was open, the road would be difficult with most full size vehicles due to deeply eroded ruts.

The adits above Adit #2 probably would not be noticed by the casual visitor. They are not visible from the road and from below the dumps look similar to natural talus slopes. Also, the steep road cut makes it difficult to get to these and the openings are fairly small.

---

**INSPECTED BY:** Dave Leppert
**TITLE:** Geologist
**DATE:** 7/29/2004

**INSPECTED BY:**
**TITLE:**
**DATE:** (03/95)
Fill out the following for each photo:

Digital photos

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<td>View of Main workings, road</td>
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<td>Dump #1</td>
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(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable _____ / Leasable _____ / Salable
Operator (last known): ________________________________
Commodities: Primary ______________ / Secondary ______________
Other Agency ID Number: _____________________________ Agency: ___________

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

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

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

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

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

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

Monitoring frequency: ______ Date of monitoring visits: __________________________
________________________________________
________________________________________
________________________________________
________________________________________

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

(03/95)
I. INTERVIEWS

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

(03/95)
A. SITE IDENTIFICATION
ID Number: **ID-0330-CH1319**
Site/Mine Name: “Powderbox” Primary Commodity: Unknown, possibly Ag, Cu, Pb?
Note: Name is assigned Name, not historic. Site partially inventoried as ID-0084-00018 in earlier 2002 IGS report which surveyed only Adit 5, as named herein in 2004.
IGS Number: CH1319

B. LOCATION DATA
USGS Quad: Clayton, N4415-W11422.5/7.5 LAT: _______ LONG: _______ OR
UTM Coord: 4904835 N 706251 E Zone 11T AND
Based on WP #122
Township: 11N Range: 17E Section: 23 Subdivision: SENE
Meridian: 08, Boise County: Custer, ID037 Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road 3 / Trail / Population center 0
Access by: 2wd / 4wd / Hike / Other
Access disturbance in need of reclamation: Length _______ Width _______ Acres _______ Road Log: _______
**A road goes to this site but is not passable due to a few large rocks in the road. An ATV could probably get by them with no problem. The site is not visible from Hwy 75.**

D. SITE DESCRIPTION
Acreage: _______ <1 Elevation: _______ 6900-7100
General slope (degrees): 0-10 _______ 11-35 X _______ >35 X
Floodplain: Disturbance in _______ / Adjacent to _______ / NA X
Recent mineral activity No. Describe: _______

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 5 / Closed adits 0 / Open inclines 0 / Closed inclines
Open shafts 1 / Closed shafts 0 / Stopes 1
Other openings _______ Type _______
Trenches _______ Length _______ / Prospects 2 / Open drill holes

Pits >30 ft. deep _______ / Pits <30 ft. deep _______ / Pit highwall length
Waste dumps: <0.1 ac 5 / 0.1 - 5 ac _______ / >5 ac
**Waste dumps merge with natural talus slopes.**
Tailings: <0.1 ac _______ / 0.1 - 5 ac _______ / >5 ac
Heaps _______ / Dredge
Ponds _______ / Dams
Mills _______ Type _______
Explosives _______ Describe: _______
Equipment/Machinery _______ / Headframes _______ / Trestles/tramways
Powerlines
Structures 1 Type Small Log Cabin _______
Condition: Good _______ / Fair _______ / Poor X _______ / Number Locked
Homesites
Other: **Small wooden ore chute adjacent to Adit 5**
(08/97, swm)
“Powderbox” Mine, IGS# CH1319

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0330-CH1319

IGS: ______

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy __ / Stressed ___ / Dead ___ / Nonexistent
Evidence of natural revegetation: ___Y___ / Describe: Some vegetation on dumps, mostly barren.

ANIMALS
Evidence: __X__ / Presence: ___ / Describe: elk scat _______________________________________

GEOLOGY
Staining of soils ___No____ Describe: _______________________________________
Sulfide minerals ___Y___ Type(s): Minimal, py, gal, Country rock is Ella Dolomite____
With traces of azurite and malachite
Tailings: Confined ____ / Unconfined ____ / Unknown

HYDROLOGY

<table>
<thead>
<tr>
<th>Water flowing from workings</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
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</thead>
<tbody>
<tr>
<td>Standing water in workings</td>
<td></td>
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<tr>
<td>Water through/over tailings</td>
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<tr>
<td>Waste rock</td>
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<tr>
<td>Ore</td>
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</tbody>
</table>

Adjacent water sources:
Ground water: Type ___pH ___Conductivity ___Flow (GPM) ___Distance
Surface water: Type ___pH ___Conductivity ___Flow (GPM) ___Distance
Surface H2O above site: Type ___pH ___Conductivity ___Flow (GPM) ___Distance
Surface H2O below site: Type ___pH ___Conductivity ___Flow (GPM) ___Distance

Evidence of aquatic life ___ Location: ___________ Describe: _______________________________________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Samples collected: ___ Sketch #(s): ________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features) NONE

Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos
Petrochemical Products ____ / Dump sites
Power Substations ____ / Transformers
Barrels, Tanks, Containers _____ Leaking _____ Contents: ____________________________
Evidence of Underground Storage Tanks ____ Describe: _____________________________

Other: ________________________________________________________________

RADIATION NA Sketch # mR/hr gamma WL alpha

(03/95)
H. RECLAMATION

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

MITIGATION STATUS
None / Fencing / Signs X / Safety hazards mitigated partly
Other: Previously discovered explosives had been detonated. These apparently were in Adit #4 as indicated by small pieces of a BLM sign found at this adit.

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

OPTIONAL: Identify the critical reclamation measures needed:

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

The open adits are not considered critical at this site due to its remote location.

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

J. GLOBAL POSITIONING SYSTEM DATA Rover File name: Garmin
WP #s 115 through 124

K. PHOTOGRAPHS
Number of photographs taken: 31: PA020031 to PA020054 plus 7 more

L. ACTION NO
Site requires immediate investigation by: Law Enforcement / BLM HAZMAT / Other

Reason: 

(03/95)
"Powderbox" Mine, IGS# CH1319

BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0330-CH1319
SKETCH MAP

Figure 1319-1: "Powderbox" Location Map showing land status.
Figure 1319-2: "Powderbox" Site Map. Dumps (not shown) associated with the adits tend to be long and narrow due to the steep terrain. They merge with the natural talus slopes with indistinct boundaries. Adit #5 was used as the site location.
Figure 1319-3 and 1319-4: Panoramic views of the "Powderbox" Mine
Figure 1319-5: "Powderbox", Cabin and Adit #1, View West, Photo PA020054

Figure 1319-6: "Powderbox" Adit #1, open, with BLM "Danger" sign. View North, Photo PA020037
"Powderbox" Mine, IGS# CH1319
BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0330-CH1319

Figure 1319-7: "Powderbox" Adit #4, Open. This adit apparently is the one where dynamite was found. Photos PA020041 and 42

Figure 1319-8: "Powderbox" Adit #5, Open. There is a small wooden ore chute near the entrance. Photo PA020044. This workings is the most conspicuous and was the only adit noted on the earlier survey.
“Powderbox” Mine, IGS# CH1319

BLM AML INVENTORY FIELD CHECKLIST

ID-0330-CH1319

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
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<tbody>
<tr>
<td>115</td>
<td>Cabin</td>
<td>706195</td>
<td>4904702</td>
<td>15</td>
<td>10</td>
<td></td>
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<tr>
<td>116</td>
<td>Adit #1, open</td>
<td>706204</td>
<td>4904706</td>
<td>Open</td>
<td>4</td>
<td>5</td>
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<td>117</td>
<td>Dump #1</td>
<td>706209</td>
<td>4904705</td>
<td>50</td>
<td>50</td>
<td>5</td>
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<tr>
<td>118</td>
<td>Adit #2, open</td>
<td>706196</td>
<td>4904827</td>
<td>12</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>119</td>
<td>Adit #3</td>
<td>706200</td>
<td>4904827</td>
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<td></td>
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<tr>
<td>120</td>
<td>Dump #2</td>
<td>706207</td>
<td>4904811</td>
<td>50</td>
<td>30</td>
<td>5</td>
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<tr>
<td>121</td>
<td>Dump #2, repeat,</td>
<td>706199</td>
<td>4904800</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>better GPS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>122</td>
<td>Dump #3</td>
<td>706251</td>
<td>4904835</td>
<td>80</td>
<td>30</td>
<td>3</td>
</tr>
<tr>
<td>123</td>
<td>Adit #5</td>
<td>706314</td>
<td>4904782</td>
<td></td>
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<tr>
<td>124</td>
<td>Prospect</td>
<td>706400</td>
<td>4904716</td>
<td></td>
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<td></td>
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<tr>
<td>125</td>
<td>Trail</td>
<td>706403</td>
<td>4904686</td>
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<tr>
<td>126</td>
<td>Trail</td>
<td>706364</td>
<td>4904702</td>
<td>Open</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>127</td>
<td>Trail</td>
<td>706344</td>
<td>4904732</td>
<td>80</td>
<td>20</td>
<td>4</td>
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</tbody>
</table>

Field Notes:

Access the site by turning north off of Hwy 75 up Squaw Creek approx. 3 miles west of Clayton on FS Road 041. At 1.6 miles, turn right, uphill to the NE. When the road gets to where the hill begins to get less steep, you will pass the South Butte Mine. Continue to the SE. There are a couple branches in the road, but just take the obvious route. At approximately 5.8 miles is the last place to turn around, about a hundred yards short of where there is a cluster of trees adjacent to the road. Walk the rest of the way to the property (may be passable with ATV). If any reclamation/safety work is done at the site, it would be relatively easy to throw enough rocks out of the way to make it passable with a 4WD vehicle. This site was logged as ID-0840-00018 (unnamed) in the 2002 report but some features were missed.

The dumps at this site are steep and blend into the talus slopes so in many areas there is no definite boundary between waste rock and natural talus. It was unclear what the primary mineral commodity was at this site. Copper minerals are present, but seem to be in relatively small quantities. Some of the other mines in this area were primarily silver producers and that certainly is possible for this one. The name “Powderbox” was assigned to this mine due to the presence of old explosives at the mine and several empty dynamite boxes. It is not the historical name.

The difficulty in distinguishing waste material from natural talus slopes at this site makes it more difficult to find the mine workings. It is possible there are additional workings higher up that were not found, but no roads or other obvious disturbances are visible on the orthophoto.

Two mines were noted that have not been investigated as part of the AML studies in the area. These are the Skyline, which is west of the Powderbox and in the IGS database, and a property south of the Salmon River near waypoint 317 which is visible from the highway and apparently not in the IGS database. There are no known historical references to the Powderbox mine.

INSPECTED BY:  Dave Leppert  TITLE: Geologist  DATE: 10/2/03
INSPECTED BY:  Virginia Gillerman  TITLE: Geologist  DATE: 10/2/03

BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0330-CH1319
PHOTO LOG  IGS: _____


<table>
<thead>
<tr>
<th>Digital File Number</th>
<th>Nearest WP</th>
<th>Azimuth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMGP0596</td>
<td>116</td>
<td>295</td>
<td>Metal box in Adit #1</td>
</tr>
<tr>
<td>IMGP0597</td>
<td>116</td>
<td>295</td>
<td>Metal box in Adit #1</td>
</tr>
<tr>
<td>IMGP0598</td>
<td>118</td>
<td>295</td>
<td>Adit #2</td>
</tr>
<tr>
<td>IMGP0599</td>
<td>NW</td>
<td></td>
<td>from Adit #2</td>
</tr>
<tr>
<td>IMGP0600</td>
<td>123</td>
<td>SW</td>
<td>Scenic</td>
</tr>
<tr>
<td>IMGP0601</td>
<td>123</td>
<td>NA</td>
<td>In adit #5</td>
</tr>
<tr>
<td>IMGP0602</td>
<td>126</td>
<td>W</td>
<td>Cabin</td>
</tr>
<tr>
<td>IMGP0603</td>
<td>126</td>
<td>NW</td>
<td>Adits 2,3,4 with dumps</td>
</tr>
<tr>
<td>PA020031</td>
<td>W of 115</td>
<td>70</td>
<td>Panorama, 31 thru 34, overview from &quot;knob&quot;</td>
</tr>
<tr>
<td>PA020032</td>
<td>W of 115</td>
<td></td>
<td>Panorama, 31 thru 34, overview from &quot;knob&quot;</td>
</tr>
<tr>
<td>PA020033</td>
<td>W of 115</td>
<td></td>
<td>Panorama, 31 thru 34, overview from &quot;knob&quot;</td>
</tr>
<tr>
<td>PA020034</td>
<td>W of 115</td>
<td>35</td>
<td>Panorama, 31 thru 34, overview from &quot;knob&quot;</td>
</tr>
<tr>
<td>PA020035</td>
<td>E</td>
<td></td>
<td>Cabin</td>
</tr>
<tr>
<td>PA020036</td>
<td>116</td>
<td>355</td>
<td>Dump #1 and adit, Note BLM sign</td>
</tr>
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<td>PA020037</td>
<td>116</td>
<td>295</td>
<td>Adit #1</td>
</tr>
<tr>
<td>PA020038</td>
<td>118</td>
<td>325</td>
<td>Adit #2, note BLM sign</td>
</tr>
<tr>
<td>PA020039</td>
<td>119</td>
<td>N</td>
<td>Adit #3</td>
</tr>
<tr>
<td>PA020040</td>
<td>118</td>
<td>N</td>
<td>Small prospect above adit #2</td>
</tr>
<tr>
<td>PA020041</td>
<td>121</td>
<td>340</td>
<td>Pan with 42, Adit #4</td>
</tr>
<tr>
<td>PA020042</td>
<td>121</td>
<td>NW</td>
<td>Pan with 41</td>
</tr>
<tr>
<td>PA020043</td>
<td>123</td>
<td>85</td>
<td>Adit #5 portal, dump #4</td>
</tr>
<tr>
<td>PA020044</td>
<td>123</td>
<td>85</td>
<td>Adit #5, note BLM sign, wiring for lights</td>
</tr>
<tr>
<td>PA020045</td>
<td>123</td>
<td>NA</td>
<td>Vein material near ore chute</td>
</tr>
<tr>
<td>PA020046</td>
<td>123</td>
<td>W</td>
<td>Ore chute</td>
</tr>
<tr>
<td>PA020047</td>
<td>124</td>
<td>N</td>
<td>Small prospect at base of cliff</td>
</tr>
<tr>
<td>PA020048</td>
<td>124</td>
<td>W</td>
<td>Access road</td>
</tr>
<tr>
<td>PA020049</td>
<td>126</td>
<td>NW</td>
<td>Prospect and stope above adits 2 and 3</td>
</tr>
<tr>
<td>PA020050</td>
<td>126</td>
<td>NW</td>
<td>Dump #4 and ore chute</td>
</tr>
<tr>
<td>PA020051</td>
<td>126</td>
<td>NW</td>
<td>Adit #4, note stope above</td>
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<tr>
<td>PA020052</td>
<td>126</td>
<td>NW</td>
<td>Road, adit 3</td>
</tr>
<tr>
<td>PA020053</td>
<td>126</td>
<td>WNW</td>
<td>Access road</td>
</tr>
<tr>
<td>PA020054</td>
<td>126</td>
<td>SW</td>
<td>Cabin, Salmon River in distance</td>
</tr>
<tr>
<td>PA020050, 53</td>
<td>NW to W</td>
<td></td>
<td>Panorama, 50 to 53, with labels</td>
</tr>
</tbody>
</table>

(03/95)
“Powderbox” Mine, IGS# CH1319
BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET
ID Number: ID-0330-CH1319

A. SITE IDENTIFICATION
Other BLM ID Number: _____________________________________________
Locatable / Leasable _____ / Salable
Operator (last known): ______________________________________________
Commodities: Primary __________ / Secondary ___________________________
Other Agency ID Number: ________________________________ Agency: ________

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

C. ACCESS
Distance in Miles to Closest Public:
Road ______ Dwelling _____ School
Potable Water _______ Water Source _____ Trail
Campground/Picnic Area _____ Other Public Use
The mine is approximately 1 mile from the town of Clayton.

D. SITE DESCRIPTION
Nearest named drainage: _______ Salmon River ______________________ Distance: 0.5 mile __

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action
CERCLIS Number __________________________ OR
Federal Docket Number _______________________

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

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

___________________________________________________________
___________________________________________________________
___________________________________________________________

Monitoring frequency: _______ Dates of monitoring visits:
___________________________________________________________
___________________________________________________________
___________________________________________________________
___________________________________________________________

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

(03/95)
# I. INTERVIEWS

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<th>Address</th>
<th>Phone</th>
<th>Affiliation</th>
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(03/95)