Site Inspection Report for Abandoned and Inactive Mines on Land Administered by the U.S. Bureau of Land Management in the Boise Resource Area, Idaho: Boise Foothills, Ada County, and Osborne Mine, Gem County

Dave E. Leppert
Virginia S. Gillerman

Staff Reports present timely information for public distribution. This publication may not conform to the agency's standards.
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Dave E. Leppert
Idaho Geological Survey

Final Report Prepared by:
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Idaho Geological Survey

2005

Prepared for the U.S. Bureau of Land Management under 2003 CESU agreement for IGS support of BLM AML program
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Boise Foothills Area Overview

Introduction:

This report is part of ongoing work to assess hazards associated with abandoned and inactive mine lands (AML) throughout Idaho. 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 or State lands adjacent to BLM land. In addition to this written report, an accompanying CDROM contains all the information in a digital format, including extra photos and files used to create the digital maps.

To our knowledge, this IGS study is the first comprehensive look at the abandoned mines in the Boise Foothills, although the BLM has inventoried the workings at the Adelmann Mine near Lucky Peak. The Foothills area was considered to be a high priority due to the rapidly increasing population in the Boise Valley. Many people visit the Foothills for recreation, including by foot, bicycle, and ATV, as well as in 4WD vehicles.

Furthermore, there is considerable public land managed by the BLM in the Foothills, and several AML prospects are near publicly marked recreational trails endorsed by the BLM and other agencies. Twenty-three properties were visited as part of this study. Two nearby properties, the Levi near Aldape Summit and the Big Giant in the Robie Creek drainage were inventoried as part of an AML study for the Forest Service in 2002 (Leppert and others, 2003). One additional property, the Osborne Mine in the West View District west of Horseshoe Bend, is also included.

Data collection and organization

Field work was conducted from the Fall of 2003 through the Fall of 2004. GPS (Global Positioning System) waypoints were obtained using a handheld Garmin unit (eTrex Legend). Waypoints are given in UTM coordinates using the NAD27 datum. This unit typically gives an estimated error within 30 feet, though in some areas where reception was poor the accuracy may be less.

Typically, most of a day was spent in the field at the larger properties. Numerous properties in the Foothills are very small, and several could be visited in an afternoon. In some instances, the larger properties were revisited after additional features were identified on orthophotos or other new information became available. Orthophotos proved invaluable for mapping and surveying the properties more efficiently and for locating features which otherwise may not have been found. From the photos it was possible to see roads, waste piles and other large features. However, field work is required to verify the information and see if mine workings were still open.

Although most mines in this area were in the IGS (Idaho Geological Survey) Mines and Prospects (MPM) database, several additional properties were discovered during the course of fieldwork. Where possible, historic mine names are used, though in some cases a name has been assigned to the property based either on a geographic or other
Boise Foothills Area Overview

feature of the property. Assigned names are indicated by quotation marks. Most of the mines in the Central Foothills Area were not in the existing IGS MPM database.

Base Maps

USGS 7.5 minute topographic base maps for the Foothills area include the Robie Creek, Boise North, and Lucky Peak quadrangles. Digital versions of these maps (DRGs) are available for free on the Idaho Department of Lands website. Orthophoto quads are also available at this site. These files are included on the accompanying CD.

The Ridge to Rivers Trail System Map is also useful for anyone working in this area. It identifies road and trail numbers, property ownership, and covers the entire area, except for the Osborne Mine, on one map. It does not show all roads and trails, just those that are part of the official trail system. Those trails are marked with signs.

The land status of many areas in the Boise Foothills is changing due to recent and ongoing acquisition of lands by the City of Boise as part of their efforts to protect the Foothills and improve access. As part of this project, new trails are proposed that will increase accessibility to many old mining areas. This may lead to an increased hazard rating for some areas. Surface ownership, indicated by a color overlay on most maps, is based on coverage downloaded from the BLM website, and may not reflect recent ownership changes. The colors used to indicate ownership are: Yellow = BLM, Blue = State, Green = Forest Service, White, crosshatched = Private. Note that the “white” private lands show up as gray on most of the maps due to the color of the orthophoto layer in the GIS database.

Data Organization

The AML Field Checklist form contains the basic information for each property. These are included in digital format as Word documents. A short form was developed to use for many of the very small properties. Most of this information is also on Excel spreadsheets 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, millsite, or other prominent feature, and other summary data.

Waypoints Summary: This spreadsheet includes information on each waypoint. For each waypoint, there is a FieldID # 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, feature size, and associated photos. Some waypoints are not directly associated with a minesite. Typically, these were taken as reference points for a map location, often to identify the point a photo was taken from. Waypoints not associated with a specific feature also serve to identify areas that were 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 mining related features were found there.
Boise Foothills Area Overview

Photo Inventory: This spreadsheet contains a listing of all the photos taken. All photos were digital. In some instances, two or more photos were merged to create panoramic views of the mine area. There was a problem with the digital files from some of the initial field work in the Rocky Canyon area, and thus, these are of poor quality.

Maps: Each AML report typically contains at least two maps. The first is a location map showing the general location of the mine and 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 image files. Some of the very small properties have only one map.

GIS (Geographic 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 to view data 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. The map bases were created with ArcMap though many of the details and labels were added with Photoshop.

The surface ownership shapefile does not accurately overlay the DRG files. In general, the surface ownership boundaries are shifted approximately 40 meters to the north. This apparently is due to the difference in scale of using the statewide ownership coverage with the 1:24,000 DRGs. Attempts to use different projections did not make them coincide. Nor do they accurately overlay the 1:100K DRGs. The surface ownership is provided as a general guideline only. Ownership is indicated by different colors. BLM administered grounds are yellow, Forest Service lands are green, State lands are blue, and private lands are white with a crosshatch pattern. However, the “white” private lands appear gray on most of the maps due to the color from the orthophoto.
Geology

Several literature references describe the geology of the Foothills area. The relatively recent map of the Boise Basin (Kiilsgaard, et. al, 1997) includes the Robie Creek 7.5 minute quadrangle, but not the rest of the project area. Figure 1 is a portion of the Boise Basin map. Othberg (1992) mapped the Boise Valley, but did not map details of the bedrock geology and simply shows the entire area of this project as Cretaceous granite. Other information includes the early report and map by Lindgren (1898). Recent work by Wood and others (2004) discusses the tectonic history of the region. Leppert and Gillerman (2004) recognized additional NW-trending faults in the area.

Cretaceous granites of the Idaho Batholith underlie the entire mineralized portion of the Foothills area. Tertiary rhyolite dikes intrude the granite throughout the area, and there is a rhyolite flow dome in the lower part of Rocky Canyon. The rhyolite dikes primarily follow preexisting faults. No attempt was made to document the numerous rhyolite dikes encountered during field work. There are many more dikes than shown on the existing geologic maps. Mineral deposits are probably related to Tertiary (Eocene) intrusive/volcanic activity.

Northeast-trending faults associated with the Trans-Challis fault system cut the area. (Kiilsgaard, et al, 1997). There is an excellent exposure of one of these on the side road that leads to the Zether mine. Additionally, there are northwest-trending faults in the area (Wood and Clemens, 2002) with at least one exposed in a roadcut on Bogus Basin Road (Leppert and Gillerman, 2004). Lindgren (1898) provides historical and geological information on many of the mines in this area. Historical information (Lindgren, 1898) indicates that gold was the primary metal mined, though some mines also contained base metals. Many properties have large quartz veins up to several feet wide. The quartz veins are shattered to various degrees, frequently with iron staining from weathered pyrite. Most of the veins had little evidence of open space filling, i.e. open spaces with subhedral to euhedral quartz crystals. It is likely that much of the ore from these mines was hand sorted which explains why minimal mineralized rock is seen at many of the properties.
Figure 1: Geologic map of a portion of the project area (modified from Kilsgaard et. al., 1997). The small numbers refer to mine names: 61 is the Grubstake; 62 is Scorpion; 69 is Turntable Tunnel; 70 is Nevada; 71 is Zether. Map Key: Kgd, pink, biotite granodiorite; Kg, blue, biotite-muscovite granite; Tr, red, rhyolite (Eocene); Ta, andesite (Eocene); Tcb, orange, Columbia River Basalt (Miocene)
Boise Foothills Area Overview

Hazard Assessment

Physical Hazards

The Foothills area physical hazards are ranked low to moderate and summarized in Table 1. The primary physical hazards are open adits. In the Lucky Peak Area, the three open adits at the Black Hornet require short but steep hikes up talus and/or through thick brush to reach. Only one opening (Adit #2) is readily visible from below. Historical records and large dumps indicate several thousand feet of workings at the Black Hornet. The two openings at the Queen mine are not readily visible and the small size openings would require crawling to reach where the tunnel becomes full size. The dumps at the Queen were relatively small, suggesting limited workings.

In the Central Foothills Area, the “Curlew Tunnel” has a full size opening, but the property is relatively difficult to access and the small dump suggests the workings are not extensive. “Curlew NW Adit” is easily accessible from Foothills Trail #5 which is open to motorized vehicles (ATV’s, motorcycles) but probably receives relatively little foot traffic. No tracks were seen on the roads leading to the mine. The dump is moderate in size.

In the Rocky Canyon Area, the only opening, at the Grubstake mine, is very large but poses minimal hazard. Ground conditions of the tunnel looked relatively good. It does not seem to pose a significant hazard from falling rock and does not appear to extend very far. However, it is easily accessible to motorized trail vehicles. At the Scorpion, there is a slight hazard from unstable rock on steep dumps above the creekbed. However, it is unlikely that many people venture up this steep side gulch.

No physical hazards were observed in the 8th Street Area.

Environmental Hazards

Environmental hazards are limited to relatively small tailings piles. Most of these are in or adjacent to drainages that are dry most of the year. The tailings at the Buffalo Group support vegetation, but are immediately above small springs. Most of the sites were dry when visited and the minimal amount of sulfides at most of the sites suggests a minimal potential for acid mine drainage.

ALS Chemex in Reno, Nevada performed all solids analyses under package codes MEICP61m (multielement ICP utilizing 4-acid digestion), AU-AA23, AU-GRA21 (gold assays), and AgAA62 (silver assay). Results are in Table 2. Although there are not EPA standards for background concentrations of metals, these analyses provide a general idea of potential problems. The tailings at the Osborne Mine were the only ones with significant levels of arsenic and heavy metals.
Boise Foothills Area Overview

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Table 1: Hazards Summary.
### Boise Foothills Area Overview

#### Table 2: Tailings samples analytical results. The four spot samples are not necessarily representative of the entire piles. Analyses by ALS Chemex.
Figure 2: Boise Foothills Area Location Map. Green circles indicate mines visited as part of this study. Colors indicate surface ownership, Cross-hatched, gray = Private, blue = State, yellow = BLM, green = Forest Service
Figure 3: Boise Foothills Area Location Map. Green circles indicate mines visited as part of this study. Yellow = BLM administered lands, Blue = State Lands, Green = Forest Service Lands, White = Private lands.
Boise Foothills Area Overview

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Table 4: Location Summary with Latitude/Longitude conversion. Converted using National Geographic TOPO! Program and NAD 27 datum.
**Boise Foothills Area Overview**

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Table 5: Foothills Location Data, GIS information

For this report, the mines in this area were informally divided into 4 areas: 8th Street Area, Central Foothills Area, Rocky Canyon Area, and Lucky Peak Area. Mines throughout the Foothills were mostly small - for many of them, just a simple prospect pit was found. Most of the larger properties are in the Lucky Peak area.

Many of these small mines were not in the IGS database and there is no known historical record of them. For others, identification is tentative, particularly in the Rocky Canyon Area where there are numerous small mines/prospects in the area and only poor historical locality data. Properties in the IGS MPM database were located originally on 1:250,000 scale maps using a variety of historical map sources. Thus, the new coordinates provided by these field visits are more accurate.
Lucky Peak Area

Figure 4: Lucky Peak Area Location Map. Coordinate grid is UTM Zone 11, NAD27
Boise Foothills Area Overview

Three mines were visited in the Lucky Peak Area. This area contains some of the larger mines in the Foothills, notably the Adelmann, Black Hornet and Queen Mines, as well as the Buffalo Group. This area is south of Lucky Peak (Shaw Mountain) and is reached from Road F (Highland Valley Road) and Road E, off of Highway 21 approximately one-half mile below Highland Valley Summit. Although one 2WD vehicle was seen on this road, 4WD is recommended. There are deep ruts in a few areas with loose sand on some of the steep road sections. Numerous open adits were found in this area at the Black Hornet Mine (3 open adits) and the Queen Mine (2 open adits). Two relatively small tailings piles were sampled at the Black Hornet and Buffalo Group Mines (Table 2). One significant historic artifact was discovered at the Buffalo Group, the remains of a 5-stamp mill. There are additional mines in this area on State lands that were not investigated. The BLM had already looked at the Adelmann, though we have not seen their report and do not know if they covered the other properties of the “Adelmann Group”, i.e. the Sorrel Horse, Montana and others (Lindgren, 1898). Access to the Adelmann is limited by a locked gate.

Rocky Canyon Area

Ten properties were visited in the Rocky Canyon Area, most of them near Five Mile Gulch (Figure 5). Additional small workings are on nearby Forest Service and private ground. One property in the IGS database, the Rising Sun, plotted on BLM ground in the upper part of Orchard Gulch. Although numerous roads were in this area, no workings were found and another map (Lindgren, 1898) shows the Rising Sun is actually farther to the northeast, probably on private lands.

The old toll stage road from Boise to Idaho City went through Rocky Canyon along Cottonwood Creek. The current road up Rocky Canyon is a good gravel road accessible to all vehicles. It follows the old stage route. The majority of mines in this area are in or near Five Mile Gulch, though a few are on the southeast side of the Rocky Canyon road. Additional mines are along Rocky Canyon Road near Aldape Summit on Forest Service lands that were not inventoried as part of this study. Information from Lindgren (1898) assisted greatly in deciding which historic names probably correspond to which properties in this area. The Ridge to Rivers trail system in this area is being expanded, which will ultimately lead to greater use. Many of the trails in this area are open to motorized vehicles, but not all trails are shown on the Ridge to Rivers map. Only one open adit was found in this area, at the Grubstake, and it is not particularly hazardous due to good ground conditions. No historic artifacts or tailings were found in this area. One stone building was found, up Five Mile Gulch near where the drainage branches past the Freegold mine.
Figure 5: Rocky Canyon Area Location Map. Coordinate grid is UTM Zone 11, NAD27. Note slight northward shift of ownership boundaries as discussed above.
Boise Foothills Area Overview

Central Foothills Area

Six properties were found in the Central Foothills Area (Figure 6). This area, between Rocky Canyon and 8th Street (Hulls Gulch) is relatively difficult to access, requiring longer hikes and off-trail travel. Some of the trails in this area are open to ATVs and motorcycles. 2WD vehicles can reach the trailheads in this area, though the steeper sandy sections on 8th Street could be a problem without 4WD. Recent acquisitions and planned new trails in the area will make this area easier to access from Military Reserve, though I went in from Rocky Canyon and the parking/motorcycle unloading area on 8th Street. None of the properties in this area were in the IGS database, but most were indicated on the topographic map and/or visible on the orthophotos. Some were noticed while visiting other areas. Two open adits, and a "spider hole" pit from a collapsed shaft are potential hazards in this area. One significant historical artifact was discovered in this area, an old boiler at the site designated "Curlew Shaft". One small tailings pile was at the "Curlew Tunnel" site.

8th Street Area.

Four properties are listed in the IGS database along the upper part of 8th Street (Figure 7). 2WD vehicles can probably get up this road, though 4WD is recommended. Other possible workings were noted in the area, though they may be disturbances from non-mining related activities. In particular, there are disturbances associated with fighting the Foothills fire in 1996 and subsequent reclamation/flood control efforts. These properties were all small, and only the properties in the IGS database and a few nearby prospects were visited. No hazards were found in this area. No historical artifacts or tailings were found.

West View District, Osborne Mine, (IGS# BO7)

The Osborne Mine, approximately one mile west of Horseshoe Bend and south of highway 52, was also visited as part of this project. We originally targeted more mines in this area, but the discovery of numerous additional workings in the Foothills expanded the project in that area and prevented additional work in the West View District.

The Osborne is accessed with a short hike up a road with a locked gate. The AML Field Checklist contains the maps and other locality information.

No underground openings were found. Although numerous equipment foundations are at the site, no tailings were recognized at the main millsite, possibly indicating that partially processed ore was shipped elsewhere for smelting. There is a small tailings pile higher up that was sampled. It contains significant amounts of gold, arsenic, and heavy metals (Table 2). No historical artifacts were found at the site.
Figure 6: Central Foothills Area Location Map (Note: Capital Group is part of the 8th Street Area). Coordinate grid is UTM Zone 11, NAD27. Note slight northward shift of ownership boundaries as discussed above.
Figure 7: 8th Street Area Location Map. Coordinate grid is UTM Zone 11, NAD27. The “Freestone”, “Upper Curlew”, and “Curlew Shaft” are in the Central Foothills Area. Note slight northward shift of ownership boundaries as discussed above.
References


A. SITE IDENTIFICATION
ID Number: ID-0110-BO334
Site/Mine Name: Buffalo Group Primary Commodity: Au lode, 261
IGS Number: BO334 Name is historic

B. LOCATION DATA
USGS Quad: Lucky Peak LAT: _____________ LONG: _____________ OR
UTM Coord: 4826648 N 575890 E at WP 62 Zone 11T AND
Township: 3N Range: 3E Section: 14 Subdivision: S1/2 SE
Meridian: Boise, 08 County: ADA, ID001
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center
Access by: 2wd ___ / 4wd X / Hike X / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___
The road has steep sandy areas with moderate ruts in places. 4WD recommended, but probably not essential.
Recent human use: NO ___ Describe: ________________________________

D. SITE DESCRIPTION
Acreage: <1 Elevation: 4800 to 5100
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in X / Adjacent to ___ / NA
Recent mineral activity NO ___ Describe: ________________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 0 / Closed adits 6 / Open inclines ____ / Closed inclines
Open shafts 0 / Closed shafts ____ / Stopes
Other openings ____ Type
Trenches 2 Length 110 __ / Prospects 2 / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac 8 / 0.1 - 5 ac 0 / >5 ac
Tailings: <0.1 ac 1 / 0.1 - 5 ac ____ / >5 ac
Heaps ____ / Dredge
Ponds ____ / Dams
Mills 1 Type Stamp Mill, 5 stamp, with concrete foundation. Metal parts mostly there, wood burned up. Rods scattered. Some stamp shoes present
Explosives ____ Describe: ________________________________
Equipment/Machinery ____ / Headframes ____ / Trestles/tramways
Powerlines
Structures ____ Type Condition: Good ___ / Fair ____ / Poor ____ / Number Locked
Homesites
Other: ________________________________

21
Lucky Peak Area, Buffalo Group Mines, IGS#BO334

BLM AML INVENTORY FIELD CHECKLIST   ID Number: ID-0110-BO334
IGS: ______

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ___ / Dead ___ / Nonexistent
Evidence of natural revegetation: Y / Describe: Vegetation on dumps and cuts: sage, bitterbrush, grasses

ANIMALS
Evidence: X / Presence: ___ / Describe: Scat, deer

GEOLOGY
Staining of soils Describe:
Sulfide minerals Y Type(s): PY, minimal, mostly just Fe staining on waste rock
Tailings: Confined ___ / Unconfined X / Unknown
Tailings are scattered on surface of overgrown area. The gulch has a flat surface indicating it has been filled in, an area approximately 30' x 80'. There are scattered piles of VF silty tan tailings.

HYDROLOGY
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) Distance
Surface water: 2 Very small springs. Not tested, did not have meters, no obvious discoloration or stressed vegetation

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) 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:

Shaft
Lucky Peak Area, Buffalo Group Mines, IGS#BO334

BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO334

IGS: ______

H.  RECLAMATION

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

Analysis of the tailings indicates no significant environmental hazard.

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

K.  PHOTOGRAPHS
Number of photographs taken: 10, P9240003 thru P9240012

L.  ACTION  NONE
Site requires immediate investigation _____ by:  Law Enforcement _____ / BLM HAZMAT _____ / Other ________________________________

Reason: ________________________________

(03/95)
Figure 334-1: Buffalo Group Location Map

Note: There is a "shift" of approximately 40 meters on the GIS surface ownership layer to the north. Ownership is provided as a general guideline only. Yellow = BLM
Figure 334-2: Buffalo Group Site Map
Figure 334-3: Adit #1, caved. Ski pole for scale. Photo P9240004, View NE

Figure 334-4: Buffalo Group Mill Area. The apparent tailings are overgrown and poorly defined, but make a relatively flat area filling the gulch. Minor junk including parts of a cast iron stove indicate a camp area near the clumps of willows.
Figure 334-5: Stamp Mill. Although the wood framework apparently has burned, there are a few charred fragments, the mill, feeder bin, and rods remain. Some of the dirt from the mill was panned, with abundant "color", i.e. tiny gold particles. The mill is bolted to a concrete foundation.
**Lucky Peak Area, Buffalo Group Mines, IGS#BO334**

**M. FEATURES - PROVIDE DIMENSIONS IN FEET.**

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**Field Notes:**
To reach the site from Boise, take Idaho 21 North toward Idaho City. It is approximately 5.6 miles from the intersection of Warm Springs Avenue and Hwy 21 to the turnoff, approx one half mile short of the summit, on Highland Valley Road, Road F. This becomes Road E. Continue on road E as indicated:
1.1 Right on E (11 to left)
2.3 Gate, steel, Right on E (8 to left)
2.6 Cattle guard
3.1 Rt on E
3.1+, left on E, 9 goes to the right.
About another half mile up, there is a large relatively flat parking area on the left. Either park here to take the trail or drive farther up and park near the base of the knobs on the left of the road to take the cross country route to the site. The trail, from the first parking area, is difficult to see from above, but most of it is a pretty good trail and goes across the bottom of the mine area.
Lucky Peak Area, Buffalo Group Mines, IGS#BO334

The dumps at this site are relatively small and at least partially overgrown. The “disturbed area” has loose talus and several areas of poorly defined workings. The area with the tailings was not recognized on the first visit to the site. An informal visit was made to the site to look at the stamp mill again. The tailings and springs were found below the site during this visit. The remnants of a cookstove suggest the camp was located here. Panning dirt from the stamp mill showed lots of “colors”.

---

INSPECTED BY: Dave Leppert  TITLE: Geologist  DATE: 9/24/03 and 10/20/03
INSPECTED BY:  TITLE:  DATE:  
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO334
PHOTO LOG  IGS:

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(03/95)
Lucky Peak Area, Buffalo Group Mines, IGS#BO334

BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

ID Number: 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 100 yards
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 _____ undeveloped
trail goes to the site.
Campground/Picnic Area _____ Other Public Use

D. SITE DESCRIPTION
Nearest named drainage: Maynard Gulch___________ Distance: _____0 (in upper part)

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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(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0110-BO335
Site/Mine Name: Black Hornet Primary Commodity: Au Lode, 261
IGS Number: BO335

B. LOCATION DATA
USGS Quad: Lucky Peak LAT: ________________ LONG: ________________ OR
UTM Coord: 4826243 N 577014 E Zone 11 AND
Township: 3N Range: 3E Section: 24 Subdivision: NENW Meridian: Boise, 08 County: ADA, ID001
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center
Access by: 2wd ___ / 4wd X / Hike ___ / Other
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ____
Road Log: ____
Road goes to the site, 4WD recommended, possible access with 2WD with good clearance.

Recent human use: Y Describe: motorcycle tracks

D. SITE DESCRIPTION
Acreage: <2 Elevation: 4500-4750
General slope (degrees): 0-10 ___ / 11-35 X / >35
Floodplain: Disturbance in / Adjacent to X / NA
Recent mineral activity No Describe:

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 3 / Closed adits 6 / Open inclines ____ / Closed inclines
Open shafts ____ / Closed shafts ____ / Stopes
Other openings ____ Type

Trenches 4 Length 430 / Prospects 2 / Open drill holes

Pits >30 ft. deep ____ / Pits <30 ft. deep ____ / Pit highwall length
Waste dumps: <0.1 ac 2 / 0.1 - 5 ac 3 / >5 ac
Tailings: <0.1 ac 1 / 0.1 - 5 ac ____ / >5 ac
Heaps ____ / Dredge
Ponds ____ / Dams
Mills ____ Type Type
Explosives ____ Describe:

Equipment/Machinery ____ / Headframes ____ / Trestles/tramways
Powerlines
Structures 1 Type Stone shed
Condition: Good ____ / Fair ____ / Poor X ____ / Number Locked
Homesites

Other: small amount of scrap, concrete foundations, stone retaining walls, cans and other junk

(08/97, swm)
Lucky Peak Area, Black Hornet Mine, IGS#BO335
BLM AML INVENTORY FIELD CHECKLIST ID Number: ID-0110-BO335
IGS: BO335

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: X ____ / Describe: Willows and brush on dumps ________

ANIMALS
Evidence: ____X ____ / Presence: ____ ____ / Describe: abundant scat, deer and elk__________

GEOLOGY
Staining of soils N ____ Describe: ________________________________
Sulfide minerals Y ____ Type(s): Minor dark grey sulfide on dump, not identifiable in field.___
Some vein material with abundant pyrite
Tailings: Confined ____ / Unconfined ___ / Unknown
Small tailings pile, sample# DL091903-R1

HYDROLOGY
Water flowing from workings: ______________ pH Conductivity Flow (GPM) Sketch #
Standing water in workings: _____ 6.3 500 0 ______
Water through/over tailings: ______ waste rock: _____ 7.6 200 2 ______
ore: _______ _______ ________ ______

Adjacent water sources: Type pH Conductivity Flow (GPM) Distance
Ground water: _______________ __ __ __________
Surface water: _______________ __ __ __________
Surface H2O above site: _______________ 8.4 150 0 56.1 deg F_________
Surface H2O below site: _______________

Evidence of aquatic life ___ Location: __________ Describe: ______________________________________

Water bed color: White ____ / Yellow ___ / Yellow-Orange ___ / Orange ____
Samples collected: none ____ 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 (03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills / Gullies / Sheetwash
Unstable Rock / Slope instability / Wind erosion _Loose talus on waste dumps, especially dump #1_

MITIGATION STATUS
None / Fencing / Signs / Safety hazards mitigated
Other: Note: Adit #2 did have a piece of fencing there, but it was down.

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: ________________________________

Site is easily accessible in a high use recreation area. One adit (#2) is readily visible from below, but is apparently on private ground. A BLM "Danger" sign was placed there on a quick return visit. Analyses indicate the tailings contain a modest amount of arsenic (400ppm) and mercury (1.2ppm).

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: ___ Garmin

K. PHOTOGRAPHS
Number of photographs taken: ___ 34, digital ___

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

Reason: ________________________________ (03/95)
Figure 335-1: Black Hornet Site Map
Lucky Peak Area, Black Hornet Mine, IGS#BO335

Black Hornet

North

Two trenches seen from road, no WPs

Adit5

Prospect

Qtz

Adit6

Adit4

Prospect

Millsite

Tailings

Dump5

Adit9

Dump2

Approximate Scale 100Ft

Adit8

Adit7

Trench2

Trench1

Adit1

Adit2

Adit3

Dump3

Dump1

Water check

Figure 335-2: Black Hornet sketch map with dumps

Figure 335-3: Panoramic view of the Black Hornet from the parking area/turnaround. Merged photos P9180001 through P9180004. View NW to NE.
Lucky Peak Area, Black Hornet Mine, IGS#BO335

Figure 335-4: Trench #1. Photo P9180009, View SSW

Figure 335-5: Site Overview from near Trench #1. The low stone wall below the center of the photo is the mill area. Photos P9180010, View NW
Figure 335-6: Adit #2, open. Photo P9180011, View SW

Figure 335-7: Main Workings. Note that Adit #2 is easily visible, though access is moderately difficult due to the brush in the foreground and the steep, loose rock below it. There may be an additional adit that was missed to the left (south) of adit #2 at the base of the cliff. Photo P9180025, View West.
Figure 335-8: Open Adit #9. Adit is at the top of the large dump on the left side, above the parking area. Thick brush and the steep dump face makes it difficult to get to from below. This area apparently is on BLM administered lands. Photo P9180027, View WSW.

Figure 335-9: Panorama showing the entire main workings area. See labeling in the photos above. Marged photos P9180025 through 27. View West.
Figure 335-10: Millsite foundation. Photo P9180021, View NW

Figure 335-11: Probable tailings, below mill foundation. Pack and ski pole for scale. These tailings contain moderately elevated levels of arsenic and mercury. Photo P9180030, View NW
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

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<th>Feature</th>
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Lucky Peak Area, Black Hornet Mine, IGS#BO335

Field Notes:

Site Access: From the junction of Warm Springs Avenue and Hwy 21, go north on 21 5.6 miles to the Highland Valley Road turnoff, road F. Turn left and zero tripometer. At 1.1 miles, bear right on E (11 goes left). At 2.3, steel gate, right on E (8 goes left). At 2.6, cattle guard. At 3.1, bear right on E. At 3.1 plus, Right on 9 (E goes left). Road 9 contours across and up to a barbed wire fence/gate. Go through the gate and continue straight where Road 9 goes to the left (N) up a steep hill. The road goes down on a moderately steep grade and wraps around the hill to the Black Hornet. The road is in fairly good condition, though 4WD is definitely recommended. There is a firepit/campsite where the road deadends.

The site spreads out over a considerable area, but most of the workings are on the hill immediately above the parking area to the west. The area denoted as “dump #1” is a large disturbed area that is partly dump, partly loose talus, and part outcrop. The two trenches to the north were not visited. They were seen from the road above the Black Hornet while visiting a different mine in the area. To get to the area of adit #2, there are small trails that go up the gulch to the northwest which get you above the brush, then cutback to the area of trench #1. Similarly, it is easiest to get to open adit #9 from above. Inspection of the orthophoto indicates there may be additional minor workings farther down the main gulch.

INSPECTED BY: Dave Leppert TITLE: Geologist DATE: 9/18/03
INSPECTED BY: __________________________ TITLE: __________ DATE: _______
(03/95)
Lucky Peak Area, Black Hornet Mine, IGS#BO335
BLM AML INVENTORY FIELD CHECKLIST   ID Number: ID-0110-BO335
PHOTO LOG   IGS:BO335_

Fill out the following for each photo:

P9180001  19  1 thru 4, Panorama from Parking Area
P9180002  19  NW to NE
P9180003  19
P9180004  19
P9180005  20  NW Concrete equipment foundation
P9180006  21  250  Adit #1
P9180007  21  250  Adit #1, closeup of face
P9180008  21  NA  vein closeup
P9180009  22  160  Trench #1
P9180010  22  NW Site overview
P9180011  23  SW  Adit #2, open
P9180012  25  N  Adit #3, open with standing water
P9180013  26  W  Main workings area
P9180014  26  W  Main workings area
P9180015  27  N  Adit #4
P9180016  28  35  Prospect
P9180017  30  S  Access Road, workings
P9180018  30  NA  spring
P9180019  31  S  Probable Adit #5
P9180020  32  70  Prospect
P9180021  33  300  Wall, Mill
P9180022  40  N  foundation/wall, main dump, note pipe
P9180023  40  N  wall/foundation, junk
P9180024  34  80  Adit #6
P9180025  34  W  Panorama, workings
P9180026  34  W  Panorama, workings
P9180027  34  W  Panorama, workings
P9190028  37  300  Dump #2
P9190029  39  N  stone building, 10 x 10
P9190030  40  NW  Tailings
P9190031  44  N  Dump #4
P9190032  45  213  Adit #9
P9190033  45  SW  Adit #9
Pan 1-4  19  N  Panorama, ops area
Pan 25-27  34  W  Panorama, main mine workings
P9240002  64.1  70  Trenches above Black Hornet
PA150074  364  NW  Black Hornet, Overview
PA150075  364  NW  Black Hornet, Overview, Panorama, 75 to 77
PA150076  364  NW  Black Hornet, Overview, Panorama, 75 to 77
PA150077  364  NW  Black Hornet, Overview, Panorama, 75 to 77
PA150078  364  W  Prospect pit, possible caved shaft?
Lucky Peak Area, Black Hornet Mine, IGS#BO335

BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

ID Number: ID-0110-BO335
IGS: BO335

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: Highland Valley ____________ Distance: 2 miles

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-0110-BO342
Site/Mine Name: Queen Mine
Primary Commodity: Au lode, 261
IGS Number: BO342

B. LOCATION DATA
USGS Quad: Lucky Peak
UTM Coord: 4824474 N 576849 E Zone 11T AND
Township: 3N Range: 3E Section: 25 Subdivision: SENW
Meridian: Boise,08 County: ADA, ID001
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road 2 / Trail 2 / Population center 0
Access by: 2wd X / 4wd X / Hike X / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____
Road Log: There is a road going to the site, but it has a locked gate. 2WD vehicles should be able to make it to the gate. 4WD recommended beyond the gate due to moderate rutting and steep grades.
Recent human use: N Describe: Bicycle tracks and footprints seen on the road leading to the Queen, but not at the site itself.

D. SITE DESCRIPTION
Acreage: <1 Elevation: 4050-4280
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 2 / Closed adits 5 / Open inclines ____ / Closed inclines
Open shafts ____ / Closed shafts ____ / Stopes
Other openings Type
Trenches 2 Length 350 / Prospects 14 / 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: Two wood posts, probably part of some type of ore chute in the creekbed

(08/97, swm)
Lucky Peak Area, Queen Mine, IGS#BO342

BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO342

IGS:BO342

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed _____ / Dead _____ / Nonexistent
Evidence of natural revegetation: _____ / Describe: Brush and grass growing on dumps and roads

ANIMALS
Evidence: _____ / Presence: Y / Describe: elk scat, deer seen on-site

GEOLOGY
Staining of soils _____ Describe: Fe staining on dumps
Sulfide minerals _____ Type(s): none observed
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) _____
Water through/over tailings: _______ pH _____ Conductivity _____ Flow (GPM) _____
    waste rock: _______ pH _____ Conductivity _____ Flow (GPM) _____
    ore: _______ pH _____ Conductivity _____ Flow (GPM) _____

Adjacent water sources:
Ground water: Type _______ pH _____ Conductivity _____ Flow (GPM) _____ Distance
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
Background Sketch # mR/hr gamma WL alpha
Adit/Incline
Shaft
Other: ____________________________

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Lucky Peak Area, Queen Mine, IGS#BO342
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO342
IGS: BO342

H. RECLAMATION

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

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  _____ X No action
_____ Plug open drill holes  _____ Trash / clean up
_____ Other:  ______________________________________

The casual visitor probably would not notice the adit opening since it is difficult to see until you are right up to it. A small path leads around to the second adit, which was not found during the first site visit. It is unlikely that a casual visitor would notice it.

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 Waypoints 65 to 92 and 359 to 361

K. PHOTOGRAPHS
Number of photographs taken:  14, P9270014 through P9270026

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

Reason:  ______________________________________

(03/95)
Figure 342-1: Queen Location Map. Note that at Waypoints 362 and 363 there are very small prospects. A separate report was not made. They do not appear to be in the IGS database.
Figure 342-2: Queen Site Map
Figure 342-3: Locked gate on access road. Photo PA150071, View North

Figure 342-4: Overview of the Queen Mine. Photo PA150064, View SE
Lucky Peak Area, Queen Mine, IGS#BO342

Figure 342-5: Adit #1, Open. The opening is at the top of the bare rubble. Clipboard and pack in foreground for scale. Photo P9270015, View SE

Figure 342-6: Adit #2, caved. Photo P9270017, View SE
Figure 342-7: Trench #2 in foreground, numerous prospect pits in center. Photo P9270024, View NW

Figure 342-8: Prospect pit, possible caved adit at waypoint 359. Photo PA150067, View E
Figure 342-9: Adit #7, open. The small opening becomes a full sized adit just beyond the portal.
Photo PA150069, View ESE
Lucky Peak Area, Queen Mine, IGS#BO342
BLM AML INVENTORY FIELD CHECKLIST   ID Number: ID0110-BO342

IGS: BO342

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>F_Azim</th>
<th>Comment</th>
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<tr>
<td>66</td>
<td>Dump #1</td>
<td></td>
<td></td>
<td>40</td>
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<tr>
<td>67</td>
<td>Road Intersection</td>
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</tr>
<tr>
<td>68</td>
<td>Adit #2</td>
<td></td>
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<tr>
<td>70</td>
<td>Road</td>
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<td></td>
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<td>71</td>
<td>Road</td>
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<td></td>
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<td>Adit #3</td>
<td>60</td>
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<td>Adit #4</td>
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<td>76</td>
<td>Road</td>
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<td>Adit #5</td>
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<td>caved</td>
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<td>79</td>
<td>Dump #6</td>
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<td></td>
<td>30</td>
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<tr>
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<td>Prospect pit</td>
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<td></td>
<td>25</td>
<td>10</td>
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<td>81</td>
<td>Trench #1</td>
<td>265</td>
<td></td>
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<tr>
<td>82</td>
<td>Trench #2, start</td>
<td></td>
<td></td>
<td>270</td>
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<td>83</td>
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<td>84</td>
<td>Prospect pit</td>
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<td></td>
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<tr>
<td>85</td>
<td>4 prospect pits</td>
<td>size total</td>
<td>70</td>
<td>25</td>
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<tr>
<td>86</td>
<td>2 prospect pits</td>
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<td>50</td>
<td>20</td>
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<td>87</td>
<td>Prospect pit</td>
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<td></td>
<td>10</td>
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<tr>
<td>88</td>
<td>Road</td>
<td>195</td>
<td>Down</td>
<td>10</td>
<td></td>
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<tr>
<td>89</td>
<td>Adit #6</td>
<td>80</td>
<td>caved</td>
<td>30</td>
<td>10</td>
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<tr>
<td>90</td>
<td>Dump #7</td>
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<tr>
<td>91</td>
<td>5 Prospects, S end</td>
<td>size each</td>
<td>15</td>
<td>15</td>
<td></td>
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<tr>
<td>92</td>
<td>5 Prospects, N end</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:
Site Access: From the intersection of Warm Springs Avenue and Highway 21 east of Boise, go approximately 5.6 miles to the north and turn left on Highland Valley Road, Road F. Road F will turn into Road E, but there is not a sign designating the transition. Follow Road E until there is a road to the right with a locked steel gate marked “Authorized use only”. Park here and walk along the road to the Queen, approximately ½ mile.

As you approach the site, the road cuts the dump of adit #1, that has a partially caved portal and is not obvious from the road. The opening is big enough someone could crawl in to where it opens up. A small trail leads around the corner to adit #7, also open, which was not seen during the first site visit. The main road leads up to adit #2, caved, directly above adit #1. The road continues around and up the hill. Most of the “adits” mapped on the south side were probably very short.
Lucky Peak Area, Queen Mine, IGS#BO342

based on the size of the dumps. All the workings on top of the hill appear to be simple prospect pits or trenches. None of them look like they were shafts, primarily based on the amount of waste rock associated with them. There are a few more apparent disturbances visible on the photo that were not visited. Since no roads can be seen leading to them, it is likely they are small. Small prospects were also seen at waypoints 362 and 363, just above where the access to the Queen turns off road E. There was a third small pit seen here too.

INSPECTED BY: Dave Leppert TITLE: Geologist DATE: 9/27/03, and 10/15/04

INSPECTED BY: TITLE: DATE: 

BLM AML INVENTORY FIELD CHECKLIST PHOTO LOG ID Number: ID0110-BO342 IGS: BO342

Digital Photos

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>145</td>
<td>Adit #1</td>
</tr>
<tr>
<td>P9270015</td>
<td>66</td>
<td>145</td>
<td>Adit #1 from dump #1</td>
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<td>P9270016</td>
<td>66</td>
<td>N</td>
<td>Scrap, probable ore bin in creek</td>
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<td>68</td>
<td>140</td>
<td>Adit #2</td>
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<td>P9270018</td>
<td>69</td>
<td>280</td>
<td>Looking down Dump #2</td>
</tr>
<tr>
<td>P9270019</td>
<td>71</td>
<td>80</td>
<td>Road above with dumps</td>
</tr>
<tr>
<td>P9270020</td>
<td>72</td>
<td>60</td>
<td>Adit #3, caved</td>
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<tr>
<td>P9270021</td>
<td>73</td>
<td>80</td>
<td>Adit #4, caved</td>
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<td>P9270022</td>
<td>89</td>
<td>80</td>
<td>Adit #6, caved</td>
</tr>
<tr>
<td>P9270023</td>
<td>79</td>
<td>W</td>
<td>Panorama with 23,24,25</td>
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<tr>
<td>P9270024</td>
<td>79</td>
<td>NW</td>
<td>Pan, prospect pits on top of hill</td>
</tr>
<tr>
<td>P9270025</td>
<td>79</td>
<td>N</td>
<td>Pan</td>
</tr>
<tr>
<td>P9270026</td>
<td>SW of 65</td>
<td>E</td>
<td>View from access road, Adit #2 left center</td>
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<td>P9270023,4, 5</td>
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<td>Merged Image, 23,24,25</td>
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<td>Overview</td>
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<td>E</td>
<td>Prospect</td>
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<td>PA150068</td>
<td>360</td>
<td>SE</td>
<td>Prospect, End of Road</td>
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<tr>
<td>PA150069</td>
<td>361</td>
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<td>Adit #7, Open</td>
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</tr>
<tr>
<td>PA150071</td>
<td>None</td>
<td>N</td>
<td>Gate at road to Queen</td>
</tr>
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</table>

(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 0.5 Dwellings _____ 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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<tbody>
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<td>Phone</td>
<td>Affiliation</td>
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**Comments:**

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</thead>
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<tr>
<td>Phone</td>
<td>Affiliation</td>
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**Comments:**

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<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
</tbody>
</table>

**Comments:**
### SITE IDENTIFICATION

**ID Number:** ID-0110-BO305  
**Site/Mine Name:** Tornado  
**Primary Commodity:** Au, 261  
**Alternate Names:** Blizzard  
**Site Name is** X **Historic**  
**Assigned IG Number:** 80305  
**Site Number:** ID-0110-B0305

### LOCATION DATA

**USGS Quad:** Robie Creek  
**LAT:** ________  
**LONG:** ________ OR  
**UTM Coord:** ________N 573763E Zone 11T AND  
**Waypoint Number site location is based on:** 353  
**Township:** 4N  
**Range:** 3E  
**Section:** 34  
**Subdivision:** NENW  
**Meridian:** Boise, 08  
**County:** Ada, ID001  
**Surface:** BLM X / Non-BLM  
**Mineral Estate:** BLM X / Non-BLM

### ACCESS

**Visible from:** Nearest road _0_ / Trail _2_ / Population center _0_  
**Access by:** 2wd _X_ / 4wd _/ _Hike _X_ / Other  
**Access disturbance in need of reclamation: Length _____ / Width _____ / Acres**  
**Road Log:** Drive up Rocky Canyon Road, park at Orchard Gulch trailhead  
**Recent human use:** _No_  
**Describe:**

### SITE DESCRIPTION

**Acreage:** <0.1  
**Elevation:** 4700  
**General slope (degrees):** 0-10 _/ _11-35 X_ / >35  
**Floodplain:** Disturbance in ____ / Adjacent to ____ / NA ____  
**Recent mineral activity** None  
**Describe:**

### MINING/EXPLORATION FEATURES

(Provide numbers of features)  
**Closed adits** _1_  
**Closed shafts**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Trenches</td>
<td>Length</td>
</tr>
<tr>
<td>Pits &gt;30 ft. deep</td>
<td></td>
</tr>
<tr>
<td>Waste dumps</td>
<td>&lt;0.1 ac</td>
</tr>
</tbody>
</table>

**USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.**

### ENVIRONMENTAL FEATURES

#### VEGETATION

**Vegetation:** Healthy _x_ / Stressed ____ / Dead ____ / Nonexistent  
**Evidence of natural revegetation:** _x_  
**Describe:** Dump surface and face overgrown with brush and grasses

#### ANIMALS

**Evidence:** _x_  
**Presence:** _/ _  
**Describe:** scat, strong musky odor

---

59
Rocky Canyon Area, Tornado Mine, IGS#BO305
BLM AML INVENTORY ID Number: ID0110-BO305

GEOLOGY  Granite with Fe staining, large quartz vein
Staining of soils  _____ Describe: _____________________________________________
Sulfide minerals  _____ Type(s): _____________________________________________
Tailings:  Use long form if tailings present

HYDROLOGY:  Use long form if site requires sampling  Site was dry
Type    WP#    pH  Conductivity  Flow (GPM)  Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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  Garmin____ Rover File name:  ___NA
Garmin____ No. of Waypoints 4  Field WP#s  ______Final WP #s  351 thru 354_____

K. PHOTOGRAPHS  Digital ___X___ Film ____
Number of photographs taken:  _______ File #s for digital ___P8270002, P8270012 and
P8270013

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:
Digital Photo File Number  Azimuth  Feature
P8270002  345  W  Overview, from trail
P8270012  351  N  Uppermost prospect
P8270013  353  290  Adit #1, Caved

Field Notes:

This property is small and the dump probably would not be recognized by the casual observer
since it is overgrown with brush and recognizable only by the unnatural shape.  There was no
scrap metal or other junk on the site, and no road leading directly to it.

Directions:

Park at the trailhead for Orchard Gulch on Rocky Canyon Road.  Hike up the main trail, bearing left
when it crosses Orchard creek.  Continue up to the ridge.  Continue north.  Where the road/trail
has a good cut on a relatively level stretch, the Tornado is visible to the west across the small
unnamed drainage with a prominent quartz outcrop near the ridge.  Either follow the trail up to the
ridge it is on and cut back, or cut over directly to it.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Note: Shift of ownership boundaries to North. Should be on the section line.

Figure 305-1: Tornado Site Map
Figure 305-2: Tornado Mine from trail. Photo P8270002, View West

Figure 305-3: Upper prospect with quartz outcrop, pack and clipboard for scale. Photo P8270012, View North
Rocky Canyon Area, Tornado Mine, IGS#BO305

Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
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<th>Northing</th>
<th>Elev, FT</th>
<th>Feature</th>
<th>Length</th>
<th>W</th>
<th>Ht/Depth</th>
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<td>573713</td>
<td>4832704</td>
<td>4832704</td>
<td>4752 Prospect</td>
<td>10</td>
<td>10</td>
<td>3</td>
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<tr>
<td>352</td>
<td>573730</td>
<td>4832697</td>
<td>4832697</td>
<td>4732 Prospect</td>
<td>10</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>353</td>
<td>573763</td>
<td>4832687</td>
<td>4832687</td>
<td>4685 Adit #1, caved</td>
<td>30</td>
<td>15</td>
<td>15</td>
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<tr>
<td>354</td>
<td>573763</td>
<td>4832702</td>
<td>4832702</td>
<td>4667 Dump #1, North end</td>
<td>30</td>
<td>70</td>
<td>10</td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave LeDert
TITLE: Geologist
DATE: 8/27/04

INSPECTED BY: ____________________________
TITLE: __________________________
DATE: __________________________
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ID0110-BO310
Site/Mine Name: Badger Primary Commodity: Au, 261
Alternate Names: X__ Historic ___ Assigned
IGS Number: BO310

B. LOCATION DATA
USGS Quad: Robie Creek LAT: ________ LONG: ________ OR
UTM Coord: 4832143 N 572497 E Zone ___ AND
Waypoint Number site location is based on: _234_
Township: 4N Range: 3E Section: 33 Subdivision: SWNE___
Meridian: Boise, 08 County: Ada
Surface: BLM ___ / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___
The Badger is on part of the private ground recently acquired by Boise City

C. ACCESS
Visible from: Nearest road 0 / Trail 3 / Population center 0
Access by: 2wd ___ / 4wd ___ / Hike X ___ / Other ___ ATV, Motorcycle, Horses
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____
Road Log: ___
Recent human use: Y__ Describe: People seen on trail ____________________

D. SITE DESCRIPTION
Acreage: <<0.1 Elevation: 4100'
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)
Closed adits 1
Closed shafts 0
Trenches Length ___ / Prospects 1 ___ / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac 1 ___ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy x__ / Stressed ___ / Dead ___ / Nonexistent
Evidence of natural revegetation: Y__ / Describe: Brush, grasses ____________________

ANIMALS
Evidence: ___ / Presence: ___ / Describe: _________________________________
Rocky Canyon Area, Badger Mine, IGS#BO310
BLM AML INVENTORY ID Number: ID0110-BO310

GEOLOGY  Granite with iron staining of dump materials
Staining of soils  _____ Describe: ____________________________________________
Sulfide minerals  _____ Type(s): ___________________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY
Type   WP#   pH   Conductivity   Flow (GPM)   Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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  _____Garmin _____ Rover File name:  NA
Garmin _____ No. of Waypoints _____2_____ Final WP #s _____233, 234_______

K. PHOTOGRAPHS  Digital ___x_ Film _____
Number of photographs taken: ___1_____ File #s for digital PB140028_________

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:
Digital Photo File Number   Azimuth   Feature

PB140028    234    325 Caved adit, quartz, iron staining

Field Notes: Small prospect. Most people walking up the trail would not notice it.

Directions:
Park at the trailhead to Five Mile Creek on the Rocky Canyon Road. Though shown as a “jeep
trail” on the topo map, it is closed to vehicles. Walk up the trail/road approx ¾ mile. The Badger
is on your left (West). It will be the third mine.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 310-1: Badger Site Map
Rocky Canyon Area, Badger Mine, IGS#BO310

Figure 310-2, Adit #1, caved. Photo PB146028

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<td>10</td>
<td>10</td>
<td>5</td>
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<tr>
<td>234</td>
<td>Caved adit and dump</td>
<td>572497</td>
<td>4832143</td>
<td>4024</td>
<td>30</td>
<td>10</td>
<td>5</td>
</tr>
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INSPECTED BY: Dave Leppert
TITLE: Geologist
DATE: 11/14/03

INSPECTED BY: 
TITLE: 
DATE: (03/95)
### A. SITE IDENTIFICATION

- **ID Number:** ID-0110-BO311  
- **Site/Mine Name:** Fregold Mine  
- **Primary Commodity:** Au lode, 261  
- **Alternate Names:**  
- **Site Name is:** X Historic ___ Assigned  
- **IGS Number:** BO311

### B. LOCATION DATA

- **USGS Quad:** Boise North  
- **LAT:**  
- **LONG:**  
- **Zone:**  
- **UTM Coord:** 4832298 N 572599 E  
- **Waypoint Number:** Site location is based on: __235__  
- **Township:** 4N  
- **Range:** 3E  
- **Section:** 33  
- **Subdivision:** SWNE  
- **Meridian:** Boise, 08  
- **County:** Ada, ID001  
- **Surface:** BLM ___ / Non-BLM ___  
- **Mineral Estate:** BLM ___ / Non-BLM

### C. ACCESS

- **Visible from:** Nearest road _0_ / Trail _2_ / Population center _0_  
- **Access by:** 2wd _X_ / 4wd ___ / Hike _X_ / Other  
- **Access disturbance in need of reclamation:** Length ____ / Width ____ / Acres _____  
- **Road Log:** ___  
- **Recent human use:** Y ___ Describe: traffic on trail

### D. SITE DESCRIPTION

- **Acreage:** <0.1  
- **Elevation:** _4070_  
- **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)

- **Closed adits:** _0_  
- **Closed shafts:**  
- **Trenches:** ____ Length ____ / Prospects 1 / Open drill holes  
- **Pits >30 ft. deep:** ____  
- **Pits <30 ft. deep:** ____ / Pit highwall length  
- **Waste dumps:** <0.1 ac ___ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

### F. ENVIRONMENTAL FEATURES

#### VEGETATION

- **Vegetation:** Healthy _X_ / Stressed ____ / Dead ____ / Nonexistent  
- **Evidence of natural revegetation:** yes ___ / Describe: Brush and grasses growing on dump

#### ANIMALS

- **Evidence:** ___ / Presence: ___ / Describe: ___
Rocky Canyon Area, Free Gold Mine, IGS#311
BLM AML INVENTORY ID Number: ID-0110-BO311

GEOLOGY Granite, Fe staining, quartz
Staining of soils Describe: 
Sulfide minerals Type(s): 
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling

<table>
<thead>
<tr>
<th>Type</th>
<th>WP#</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Temp, °F</th>
</tr>
</thead>
</table>

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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

Garmin _X_ No. of Waypoints _1_ Final WP #s _235_

K. PHOTOGRAPHS

Digital _X_ Film
Number of photographs taken: File #s for digital _______

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:Digital Photo

<table>
<thead>
<tr>
<th>File Number</th>
<th>Nearest Waypoint</th>
<th>Azimuth</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB140029</td>
<td>235</td>
<td>320</td>
<td>Caved adit with brushy dump from below</td>
</tr>
</tbody>
</table>

Field Notes:
Very small. This was a “best guess” identification based on Lindgren’s (1898) description that it was north of the Scorpion along with the Badger.

Directions: Drive up Rocky Canyon road and park at the Five Mile Gulch trailhead. Hike up Five Mile Gulch approximately ¼ mile.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 311-1: Freegold Site Map. Entire area is private lands.
**Rocky Canyon Area, Free Gold Mine, IGS#311**

![Image: Freegold, caved adit and dump. Photo PB140029, View Northwest](image)

Figure 311-2: Freegold, caved adit and dump. Photo PB140029, View Northwest

<table>
<thead>
<tr>
<th>Site Feature</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
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<tbody>
<tr>
<td></td>
<td>235 Caved adit and dump</td>
<td>572599</td>
<td>483298</td>
<td>4108</td>
<td>50</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>366 Stone building near Freegold</td>
<td>572810</td>
<td>483246</td>
<td>4067</td>
<td>12</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

*INSPECTED BY: Dave Leppert__ TITLE: Geologist__ DATE: 11/14/2003__*

*(03/95)*
A. SITE IDENTIFICATION
ID Number: ID-0110-BO312 -
Site/Mine Name: Scorpion Mine Primary Commodity: Au Lode,261
IGS Number: BO312

B. LOCATION DATA
USGS Quad: Robie Creek LAT: _______ LONG: _______ OR
UTM Coord: 4831916 N 572307 E Zone 11 T AND
Township: 4N Range: 3E Section: 33 Subdivision: NESW
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road _0_ Trail _3_ Population center _0_
Access by: 2wd X 4wd _ / Hike X _ Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____
Road Log: ______________________________________________________________________
Recent human use: Y Describe: Adjacent to trail. People seen on trail __________________________________________________________________

D. SITE DESCRIPTION
Acreage: <2 Elevation: _________________________
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 0 / Closed adits 2 / Open inclines 0 / Closed inclines 0
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 5 / 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: ______________________________________________________________________

No equipment, machinery, etc ______________________________________________________________________

(08/97, swm)
Rocky Canyon Area, Scorpion Mine, IGS#BO0312

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: X __ / Describe: Willows, brush, poison ivy

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

GEOLOGY
Staining of soils ____ Describe: ____________________________________________
Sulfide minerals ____ Type(s): ____________________________________________________________________________
Tailings: Confined ____ / Unconfined ____ / Unknown

HYDROLOGY
Water flowing from workings: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch #
Standing water in workings: ____ pH ____ Conductivity ____ Flow (GPM) ____
Water through/over tailings: ____ pH ____ Conductivity ____ Flow (GPM) ____
Waste rock: ____ pH ____ Conductivity ____ Flow (GPM) ____
Ore: ____ pH ____ Conductivity ____ Flow (GPM) ____

Adjacent water sources:
Ground water: Type ____ pH ____ Conductivity ____ Flow (GPM) ____ Distance __
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 ____ / 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
Background Sketch # mR/hr gamma WL alpha
Adit/Incline: __________ __________ __________ __________
Shaft: __________ __________ __________ __________
Other: ____ mR/hr gamma WL alpha ____________________________

(03/95)
Rocky Canyon Area, Scorpion Mine, IGS#BO312
BLM AML INVENTORY FIELD CHECKLIST
ID Number: ID0110-BO312
IGS:_____

H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ___ / Gullies ___ / Sheetwash
Unstable Rock ___X___ / 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: ____________________________________________

There is loose rock in the oversteepened areas along the creek bed. Not a significant hazard. Although adjacent to a trail, the dumps are mostly overgrown and not particularly noticeable.

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, Waypoints 8 through 12

K. PHOTOGRAPHS
Number of photographs taken: 19, Digital

Digital Photos. There was a problem with corruption of the photo files. Photos were retaken, but many still poor. It was discovered afterwards that the photo media needed to be reformatted.

L. ACTION NONE
Site requires immediate investigation ____ by: Law Enforcement ____ / BLM
HAZMAT ____ / Other ________________________________________________

Reason: __________________________________________________________

________________________________________________________
Figure 312-1: Scorpion Site Map. See sketch map below for dump details.
Canyon Area, Scorpion Mine, IGS#BO312

Scorpion Mine, IGS#BO312

intermittent creek
steep granite outcrops
coarse Fe stn rock
probable adit location #1
scarp
waypoint #8
erosion at base of dump
wp #9
wp #10
poison ivy
wp #11
wp #12
adit #2, caved willows
thick brush, willows, roses
trail
Five Mile Creek

Approximate Scale

1/2 mile to trailhead on Rocky Canyon Road

Figure 312-2: Scorpion Mine main area
Rocky Canyon Area, Scorpion Mine, IGS#BO312

Willows

Adit #3, caved
WP 15

Dump

WP 16

Five Mile Creek

Trail

50 yards to main area of the Scorpion,
1/2 mile to trailhead on Rocky Canyon Road

\[ \text{Approximate Scale, not drawn to scale} \]

Figure 312-3: Scorpion Mine, area near adit #3

Figure 312-4: Scorpion Mine, view from above. Photo P8270016
Rocky Canyon Area, Scorpion Mine, IGS#BO312

Figure 312-5: Scorpion Mine, from below. Photo P9030030, view NW

Figure 313-6: Scorpion Mine, panoramic view from below. All adits are caved. Merged photos PA200081 and 82, view NW
Figure 313-7: Prospects on the ridge above and east of Five Mile Gulch. Photo PB140033, view East

Figure 313-8: Scorpion Adit #3 with dump. Note trail in foreground, roadcut above. Photo P8270025, View SW
Rocky Canyon Area, Scorpion Mine, IGS#BO312

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID0110-BO312

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</th>
<th>W</th>
<th>Ht/Dep</th>
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<tbody>
<tr>
<td>8</td>
<td>Dump #1</td>
<td>572273</td>
<td>4831961</td>
<td>4103</td>
<td>80</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>Dump #2</td>
<td>572282</td>
<td>4831957</td>
<td>4121</td>
<td>100</td>
<td>20</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>Dump #3</td>
<td>572302</td>
<td>4831917</td>
<td>4082</td>
<td>60</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>Dump #4</td>
<td>572344</td>
<td>4831897</td>
<td>4031</td>
<td>60</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>Dump #5</td>
<td>572362</td>
<td>4831876</td>
<td>4015</td>
<td>60</td>
<td>50</td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>Adit #3, caved</td>
<td>572400</td>
<td>4831961</td>
<td>4071</td>
<td>30</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>Dump #6</td>
<td>572408</td>
<td>4831943</td>
<td>4017</td>
<td>25</td>
<td>50</td>
<td>8</td>
</tr>
<tr>
<td>17</td>
<td>Adit #2</td>
<td>572307</td>
<td>4831916</td>
<td>4095</td>
<td>60</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>

Field Notes:

Adit locations were poorly defined. Adit #1 was apparently on the steep scarp face with two dumps associated with it. Adit #2 was apparently at the head of the area overgrown with willows. This was the largest mine in the area (Lindgren, 1898). No tailings were recognized. Although the lowermost dump is adjacent to the trail, the casual hiker may not even recognize it as a mine feature. There is some loose rock and oversteepened slopes that could be a hazard to someone climbing around the site, but nothing particularly hazardous. Very little evidence of sulfides was observed on the dumps. Its unknown whether ore was processed on site or hauled offsite for processing.

There is also a prospect on the east side of Five Mile Gulch that was included in the Scorpion. The small dump suggests that if these workings were an actual adit, it must have been short. Photos P8270015 and P8270023.

This land is part of the private land that the City of Boise is acquiring as part of the Foothills recreation area. The old road that went up Five Mile Gulch is blocked off with a heavy duty steel gate. The trail is not on the “Ridge to Rivers” Map, but probably will become part of the official trail system.

On a separate trip in the Five Mile area, workings were observed on the ridge to the east of Five Mile Gulch (Photo PB140033). These workings have not been inspected, but potential hazards are minimal due to the lack of trails and steep climb required to reach the ridge.

Directions: Drive up Rocky Canyon to Five Mile Gulch. There is a heavy duty steel gate at the parking area. Hike approximately one half mile up the trail to the Scorpion.

INSPECTED BY: Dave Leppert  TITLE: Geologist  DATE: 8/27/2003
Rocky Canyon Area, Scorpion Mine, IGS#BO312  
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID0110-BO312

Fill out the following for each photo: Digital photos

Note: problem with photos, many corrupted files. Many of the retakes were also poor before figuring out that the media needed reformatting.

<table>
<thead>
<tr>
<th>File Number</th>
<th>Near WP</th>
<th>Azimuth</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8270015</td>
<td>7</td>
<td>100</td>
<td>Adit in distance across creek</td>
</tr>
<tr>
<td>P8270016</td>
<td>7</td>
<td>N</td>
<td>Upper dumps, possible adit location</td>
</tr>
<tr>
<td>P8270017</td>
<td>7</td>
<td>NE</td>
<td>Lower dumps, trail, poss adit?</td>
</tr>
<tr>
<td>P8270018</td>
<td>9</td>
<td>NW</td>
<td>Top of dumps, poss adit area</td>
</tr>
<tr>
<td>P8270019</td>
<td>9</td>
<td>NA</td>
<td>Ore closeup</td>
</tr>
<tr>
<td>P8270020</td>
<td>11</td>
<td>NW</td>
<td>Panorama, dumps, caved adit in willows</td>
</tr>
<tr>
<td>P8270021</td>
<td>11</td>
<td>NW</td>
<td>Panorama, dumps, caved adit in willows</td>
</tr>
<tr>
<td>P8270022</td>
<td>11</td>
<td>NW</td>
<td>Panorama, dumps, caved adit in willows</td>
</tr>
<tr>
<td>P8270023</td>
<td>13</td>
<td>140</td>
<td>Caved Adit, NE side of Five Mile Creek</td>
</tr>
<tr>
<td>P8270024</td>
<td>13</td>
<td>NW</td>
<td>Five mile creek. Possible waste rock?</td>
</tr>
<tr>
<td>P8270025</td>
<td>13</td>
<td>W</td>
<td>Adit and dump on NW side of Five Mile Creek</td>
</tr>
<tr>
<td>P8270026</td>
<td>16</td>
<td>NW</td>
<td>Dump, Scorpion, with adit #3</td>
</tr>
<tr>
<td>P9030030</td>
<td>NW</td>
<td></td>
<td>Scorpion, from Trail, Pan w/30,31 (Note, retook pics)</td>
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<tr>
<td>P9030031</td>
<td>NW</td>
<td></td>
<td>Scorpion, from Trail</td>
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<tr>
<td>P9030032</td>
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<td>Scorpion, from Trail</td>
</tr>
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<td>P9030034</td>
<td>11</td>
<td>NW</td>
<td>Panorama with 35, adit #2 in willows</td>
</tr>
<tr>
<td>P9030035</td>
<td>11</td>
<td>NW</td>
<td></td>
</tr>
<tr>
<td>P9030036</td>
<td>17</td>
<td>SE</td>
<td>Looking down on probable adit #2</td>
</tr>
<tr>
<td>P9030037</td>
<td>9</td>
<td>NW</td>
<td>Upper dumps</td>
</tr>
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<td>Ore closeup</td>
</tr>
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<td>8</td>
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<td>Probable site of adit #1.</td>
</tr>
<tr>
<td>P9030040</td>
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<td>W</td>
<td>Erosion at base of dump #1</td>
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<tr>
<td>P9030041</td>
<td>9</td>
<td>N</td>
<td>Lower dumps</td>
</tr>
<tr>
<td>P9030042</td>
<td>9</td>
<td>NA</td>
<td>Quartz Vein material closeup</td>
</tr>
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<td>P9030043</td>
<td>16</td>
<td>NW</td>
<td>Dump and adit#3</td>
</tr>
<tr>
<td>P9030044</td>
<td>16</td>
<td>NW</td>
<td>Dump, view up Five Mile Creek</td>
</tr>
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<td>P9030045</td>
<td>16</td>
<td>NW</td>
<td>Dump</td>
</tr>
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<td>P9030046</td>
<td>16</td>
<td>W</td>
<td>Adit #3, Caved</td>
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<td>PA200081</td>
<td>12</td>
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<td>Panorama</td>
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<tr>
<td>PA200082</td>
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<td>NW</td>
<td>Panorama</td>
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</tbody>
</table>

(03/95)
Rocky Canyon Area, Scorpion Mine, IGS#BO312

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 ______ Dwelling ______ School ______
Potable Water ______ Water Source ______ Trail ______
Campground/Picnic Area ______ Other Public Use ______

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

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action

CERCLIS Number __________________________ OR

Federal Docket Number _______________________

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species __________________________

Cultural Resources __________________________

Historic __________________________

Other __________________________

Date reclamation completed: __________________________ Cost: __________________________

Type of closure: ___________ Cost: ___________

Comments: __________________________

Monitoring frequency: _________ Dates of monitoring visits: __________________________

(03/95)

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
Rocky Canyon Area, Scorpion Mine, IGS#BO312

BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

I. INTERVIEWS

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(03/95)
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ID-0110-BO313
Site/Mine Name: Elevator
Primary Commodity: Au, 261
Alternate Names: ________________
Site Name is _x___ Historic ___ Assigned
IGS Number: BO313

B. LOCATION DATA
USGS Quad: Robie Creek LAT: _____ LONG: _____ OR
UTM Coord: 4831843 N 572011 E Zone 11T AND
Waypoint Number site location is based on: __________
Township: T4N Range: 3E Section: 33 Subdivision: SESW
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM ___ / Non-BLM X ___ Mineral Estate: BLM ____ / Non-BLM
Note: close to BLM boundary. Survey would be required to be certain.

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center
Access by: 2wd ___ / 4wd ___ / Hike X ___ / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____ Road Log: ___
Recent human use: No Describe: ________________

D. SITE DESCRIPTION
Acreage: <=0.1 Elevation: ________________
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)
Closed adits
Closed shafts
Trenches ____ Length _____ / Prospects ___ / Open drill holes
Pits >30 ft. deep ____ / Pits <30 ft. deep ____ / Pit highwall length
Waste dumps: <0.1 ac ____ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy x / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: _____ / Describe: ________________

ANIMALS
Evidence: _____ / Presence: _____ / Describe: ________________
Rocky Canyon Area, Elevator Prospect, IGS#BO313
BLM AML INVENTORY ID Number: ID 0110-BO313

GEOLOGY Quartz vein in granite
Staining of soils Describe: ________________________________
Sulfide minerals Type(s): ________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling Site was dry
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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 _____Garmin______ Rover File name:  NA
Garmin No. of Waypoints _1__ Field WP#s _________Final WP #s __2________

K. PHOTOGRAPHS Digital ___X___ Film __________
Number of photographs taken: ___1____ File #s for digital
_______P8270002________________

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log: Digital Photo
File Number Near Waypoint Azimuth Feature
P8270002 2 NE Quartz Vein

Field Notes:

Very small property, probably no underground workings, large quartz vein in saddle along ridge
and off to the west.
Directions:
Access:
__Park at the trailhead for Five Mile Creek on the Rocky Canyon Road. From the trail cut up cross
country to the ridge. There is another trail south of Five Mile Creek that also leads to it which is
not shown on the maps but is visible on the photos.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Note: northward shift of ownership boundaries.

Figure 313-1: Location map of the Elevator. No “sketch map” since there is just very small workings on the steep hillside immediately below (west) of the ridge.
Figure 313-2: Quartz vein at Elevator prospect. Photo P8270002, View NE

<table>
<thead>
<tr>
<th>Site Feature</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Prospect pit</td>
<td>572011</td>
<td>4831643</td>
<td>5</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert  
TITLE: Geologist  
DATE: 8/27/03

INSPECTED BY:  
TITLE:  
DATE: (03/95)
A. SITE IDENTIFICATION
ID Number: ID-0110-BO314
Site/Mine Name: Hattie Primary Commodity: Au?
Alternate Names: ____________________________
Site Name is X Historic ___ Assigned
IGS Number: ___BO314

B. LOCATION DATA
USGS Quad: Robie Creek LAT: _______ LONG: ________ OR
UTM Coord: _4831755_____N____571804____E Zone _11T__ AND
Waypoint Number site location is based on: __4____
Township: ______ Section: 33 Subdivision: NWSW
Meridian: Boise, 08 County: Ada, ID001____
Surface: BLM ___ / Non-BLM X Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road 0 / Trail ___ / Population center _0
Access by: 2wd X / 4wd ___ / Hike X / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___
Drive up Rocky Canyon and park at Five Mile Creek. Hike across country to the Hattie.
There is an old road slightly below Five Mile that can be used part of the way.
Recent human use: No Describe: __________________________

D. SITE DESCRIPTION
Acreage: <<0.1 Elevation: 4200 to 4500
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)
Closed adits ___0
Closed shafts __________
Trenches ____ Length _______/ Prospects 4 / Open drill holes
Pits >30 ft. deep _______ / Pits <30 ft. deep _______/ Pit highwall length
Waste dumps: <0.1 ac _____ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: ___X ___ / Presence: ___ / Describe: scat
GEOLOGY
Staining of soils _____ Describe: Granite country rock, minor Fe stn
Sulfide minerals _____ Type(s): ____________________________________________________________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling

DRY
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required
NO ACTION

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 _____Garmin_____ Rover File name: NA
Garmin ___X___ No. of Waypoints _____4_____ Final WP #s ___3 through 6________

K. PHOTOGRAPHS Digital ___X___ Film _____
Number of photographs taken: _____6_____ File #s for digital _P8270003 through 6___

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:
Digital Photo File Number Nearest Waypoint Azimuth Feature

Note: There was a problem with these photos. The files are corrupted resulting in very poor photos. It was not considered worthwhile to revisit the area for photos.

P8270003 3 N S facing slope with several prospects
P8270004 5 340 Corrupted Photo File
P8270005 5 Scenic Panorama
P8270006 5 Scenic Panorama
P8270007 5 Scenic Panorama
P8270008 6 215 Prospect

Field Notes:
These were all very small prospect pits. There are probably additional small pits scattered around the hillside, no significant workings.

Directions:
Drive up Rocky Canyon to Five Mile Creek. Either park here and hike cross-country to the Hattie, or park by the old road below Five Mile and hike up the road then cross-country.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 314-1: Location and Site Map for the Hattie prospects.
## Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>L</th>
<th>W</th>
<th>Ht/Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prospect pit</td>
<td>571834</td>
<td>4831622</td>
<td>4220</td>
<td>30</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Prospect pit</td>
<td>571804</td>
<td>4831755</td>
<td>4339</td>
<td>5</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Prospect pit</td>
<td>571769</td>
<td>4831869</td>
<td>4502</td>
<td>15</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Prospect pit</td>
<td>571796</td>
<td>4831928</td>
<td>4500</td>
<td>5</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Lepper

TITLE: Geologist

DATE: 8/27/03

(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0110-BO316
Site/Mine Name: Golden Star Primary Commodity: Au Lode, 261
Alternate Names: ____________________________________________
Site Name is  X___ Historic ___ Assigned
IGS Number: ___BO316

B. LOCATION DATA
USGS Quad: Lucky Peak LAT: _________ LONG: _________ OR
UTM Coord: __4829729 _______ N 572364 ___ E  Zone 11T ___ AND
Waypoint Number site location is based on: _255__
Township: _3N___ Range: 3E___ Section: 4___ Subdivision: SWSE
Meridian: Boise, 08__________ County: Ada, ID001__________
Surface: BLM  X___ / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

Uncertain site ID. Very little evidence of mining

C. ACCESS
Visible from: Nearest road 0 / Trail 0 / Population center 0
Access by: 2wd  X___ / 4wd ___ / Hike  X___ / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____ Road Log: ___
If the gated paved road from Table Rock can be used, it would be easier to come in that way.
Recent human use: No ___ Describe: ___________________________________________________________

D. SITE DESCRIPTION
Acreage: _____ <=0.1_____ Elevation: ___________________________
General slope (degrees): 0-10  X___ / 11-35  X___ / >35
Floodplain: Disturbance in ___ / Adjacent to  X___ / NA
Recent mineral activity No___ Describe: _______________________________________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits 0
Closed shafts
Trenches __ Length _______/ Prospects 1 / Open drill holes
Pits >30 ft. deep _____ / Pits <30 ft. deep _______/ Pit highwall length
Waste dumps: <0.1 ac _____ / Greater than 0.1, use long form
USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES
VEGETATION
Vegetation : Healthy  X___ / Stressed_____ / Dead _____ / Nonexistent
Evidence of natural revegetation: _____ / Describe: _____________________________________________

ANIMALS
Evidence: _____ / Presence: ____ / Describe: _________________________________________________
Rocky Canyon Area, Golden Star, IGS#BO316
BLM AML INVENTORY ID Number: ID0110BO316

GEOLOGY Granites, various quartz veins seen in the area. Occ Fe staining
   Staining of soils  N  Describe: ________________________________
   Sulfide minerals  N  Type(s): ________________________________
   Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling
   DRY
   Type  WP#  pH  Conductivity  Flow (GPM)  Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
   Use Long Form if Hazardous Materials Present

H. RECLAMATION
   Use long form if reclamation required

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
   Garmin ___X__ No. of Waypoints ___1____ Final WP #s ___255________
   Rover File name:  NA

K. PHOTOGRAPHS
   Digital ___X__ Film ___
   Number of photographs taken:  ___1____ File #s for digital ___P6230018____

L. ACTION
   USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

      Photo Log: ___________________________________________________________________
      Digital Photo File Number  Nearest Waypoint  Azimuth  Feature
      P6240018  253 NE  View of flood control contour ditches, above Picket Pin Gulch

This photo shows the general area, not the actual prospect site. No photo was taken of the prospect.

Field Notes:
Nothing definite could be seen at this site. There was a very small cut adjacent to the trail along
Picket Pin Gulch. Old claim posts were in the area, some pvc, some wood. The contour trenching
in the area may obscure evidence of the minesite. According to Lindgren (1898), there was an
arrastra here, but no evidence was seen of it. The only area of relatively flat ground is near the
confluence of the two drainages so it presumably was there somewhere. There was a piece of
scrap metal along the trail at waypoint 255 with a small hillside disturbance.

Directions:
Drive up Rocky Canyon and park at the first road to the south past Five Mile Gulch, hike up the
road and cross country from there. The road has a locked gate a short distance off of Rocky
Canyon. Although I hiked in from Rocky Canyon, in part to avoid crossing private lands, it may be
easier to come in from the gated private road that takes off from Table Rock Road if permission
can be obtained to go in that way. There was also a trail along Picket Pin Gulch that may provide
access. This also crosses private property.
Figure 315-1: Golden Star location and site map
Figure 316-2: Contour trenches near the Golden Star. View down Picket Pin Gulch. Photo P6240018, View West

Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>WP</th>
<th>Easting</th>
<th>Northing</th>
</tr>
</thead>
<tbody>
<tr>
<td>255</td>
<td>572364</td>
<td>4829729</td>
</tr>
</tbody>
</table>

Very small disturbance, less than 10 x 10. Lindgren mentions "openings", but this was the only disturbance found that looked like it was mining related. It is possible that the extensive contour trenching completely obscured the main site.

INSPECTED BY:   Dave Leppert       TITLE: Geologist       DATE: 8/24/2004

INSPECTED BY:   ___________________       TITLE:       DATE: (03/95)
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ID-0110-BO320
Site/Mine Name: Picket Pin Mine          Primary Commodity: Au Lode, 261
Alternate Names: ________________
Site Name is   X   Historic   _   Assigned
IGS Number: BO320

B. LOCATION DATA
USGS Quad: Boise North           LAT: _______ LONG: _______ OR
UTM Coord:        4829435     N   572449    E  Zone 11T    AND
Waypoint Number site location is based on: _257_
Township: _3N_ Range: _3E_ Section: _9_ Subdivision: NWNE
Meridian: Boise, 08            County: Ada, ID001
Surface: BLM x / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road _2_ / Trail _0_ / Population center 0
Access by: 2wd _x_ / 4wd _ / Hike _x_ / Other
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres _____Road Log: ___
Recent human use: _   Describe: ___________________________

D. SITE DESCRIPTION
Acreage: <0.1 ___________ Elevation: 4180'
General slope (degrees): 0-10 _x_ / 11-35 _x_ / >35
Floodplain: Disturbance in ____ / Adjacent to ____ / NA _X_
Recent mineral activity No __ Describe: ___________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits _1_
Closed shafts
Trenches __ _ Length ______________ / Prospects _2_ / Open drill holes
Pits >30 ft. deep _x_ / Pits <30 ft. deep _   / Pit highwall length
Waste dumps: <0.1 ac _   / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy _x_ / Stressed _   / Dead _   / Nonexistent
Evidence of natural revegetation: Yes _ / Describe:
Sagebrush and grasses on dumps

ANIMALS
Evidence: _ / Presence: _ / Describe: ___________________________

96
Rocky Canyon Area, Picket Pin Mine, IGS#BO320
BLM AML INVENTORY ID Number: ID-0110-BO320

GEOLOGY Granite with quartz and minor Fe staining
Staining of soils Describe:
Sulfide minerals Type(s):
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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 ______Garmin______ Rover File name: NA
Garmin __X__ No. of Waypoints ___3_____ Final WP #s 256 to 258

K. PHOTOGRAPHS Digital __X__ Film____
Number of photographs taken: ____3____ File #s for digital __P6240020 thru 22____

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log: Digital Photos
File Number Nearest Waypoint Azimuth Feature
P6240020 257 95 Adit #1, caved
P6240021 257 NA Mineralized rock
P6240022 258 NE View of waste dumps

Field Notes:
From observations in the field, it was uncertain if the location marked as “adit 1” was actually an
adit. The dump seems like its large enough that it was, although the way the dump merges into
the natural slopes make it difficult to define.

Directions: Although I drove up Rocky Canyon to the road approximately one-half mile above Five
Mile Gulch and walked in from there to cover several properties at the same time, this property
would be easy to get to from the private and gated paved road coming into this area from the
Table Rock road if you can gain access that way.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 320-1: Picket Pin Site Map
Rocky Canyon Area, Picket Pin Mine, IGS#BO320

Figure 320-2: Picket Pin Adit #1, caved. This may have been just a trench rather than a true adit. Photo P6240020, View East

Figure 320-3: Mineralized vein material. Pencil for scale. Photo P6240021
<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>256</td>
<td>2 small pits</td>
<td>572462</td>
<td>4829438</td>
<td>4181</td>
<td>10</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>257</td>
<td>Adit?, Caved</td>
<td>572449</td>
<td>4829435</td>
<td>4176</td>
<td>40</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>258</td>
<td>Dump, outer edge</td>
<td>572426</td>
<td>4829430</td>
<td>4171</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert                        TITLE: Geologist                        DATE: 6/24/2004

INSPECTED BY:                                          TITLE:                             DATE:  (03/95)
A. SITE IDENTIFICATION
ID Number: ID-0110-BO478
Site/Mine Name: Zether Mine
Primary Commodity: Unknown, Au Lode?
Alternate Names: 
Site Name is _X__ Historic ___ Assigned
IGS Number: BO478

B. LOCATION DATA
USGS Quad: Robie Creek
LAT: ____ LONG: ____ OR
UTM Coord: 4830834 N 572933 E Zone 11T AND
Waypoint Number site location is based on: 250
Township: 3N Range: 3E Section: 4 Subdivision: SENW
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM X / 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: ___
Note: Locked gate on road with view of the mine. Not visible from the main road
Recent human use: No ___ Describe: ______________

D. SITE DESCRIPTION
Acreage: <0.1 ____ Elevation: 4290'
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)
Closed adits ___
Closed shafts
Trenches ____ Length ______ / Prospects ____ / Open drill holes
Pits >30 ft. deep ____ / Pits <30 ft. deep ____ / Pit highwall length
Waste dumps: <0.1 ac 1 ___ / Greater than 0.1, use long form
USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: X ____ / Describe:
Brush and grasses in disturbed area

ANIMALS
Evidence: _____ / Presence: _____ / Describe: ________________________

101
Rocky Canyon Area, Zether, IGS#BO478
BLM AML INVENTORY ID Number: ID-0110-BO478

GEOLOGY
Staining of soils _____ Describe: Granite with Fe staining
Sulfide minerals _____ Type(s): relict py
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling
DRY
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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 _____Garmin____ No. of Waypoints _______Final WP #s _______
Garmin __X__ ______

K. PHOTOGRAPHS Digital __X__ Film____
Number of photographs taken: ______ File #s for digital __P624008 thru 14____

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log: Digital Photo
File Number Near Waypoint Azimuth Feature
P6240008 249 E Roadcut, shear zone, at corner
P6240009 249 E Roadcut, shear zone, at corner
P6240010 249 NW Roadcut, shear zone
P6240011 on road 80 Roadcut, shear zone
P6240012 250 290 Adit #1, caved
P6240013 251 S Access road
P6240014 251 SE Junk at base of dump

Field Notes:
Good evidence of E-W faulting in the granites in roadcuts. These would parallel Rocky Canyon and are shown on the Geology of the Boise Basin map (Kiilsgaard et. al., 1997) as part of the Trans-Challis Fault system. There is a fair amount of junk on-site, old brick, trash, etc and a junk car in the gulch across from it. This site was not in the IGS database but is shown on the geologic map (above).

Directions:
Drive up Rocky Canyon and park at the road that goes to the right (east) about a half mile past Five Mile Creek. Either park on the main road or down across the creek. Follow the road back to the southwest to the Zether. There is a locked gate a short distance up the road which prevents driving to the site.

(03/95)
Figure 478-1: Zether Location Map
Rocky Canyon Area, Zether, IGS#BO478

Figure 478-2: Zether Site Map (ownership not shown)

Figure 478-3: Zether overview, Photo P6240011, View Northwest
Figure 478-4: Zether Adit #1, caved. Note heavy Fe staining of rocks. Photo P6240012, View 290

Figure 478-5: Shear zone in roadcut. Photo P6240028, View East
Rocky Canyon Area, Zether, IGS#BO478

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0110-BO478

Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>WP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>L</th>
<th>W</th>
<th>Ht/Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Adit #1, Caved</td>
<td>572933</td>
<td>4830834</td>
<td>4291</td>
<td>30</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>251</td>
<td>Top of Dump, W end</td>
<td>572948</td>
<td>4830826</td>
<td>4257</td>
<td>30</td>
<td>40</td>
<td>15</td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert    TITLE: Geologist    DATE: 6/24/04

INSPECTED BY:                  TITLE:                DATE:       

(03/95)
A. SITE IDENTIFICATION
ID Number: _ID-0110-BO484_
Site/Mine Name: _Grubstake_ Primary Commodity: Unknown, probably Au
IGS Number: _BO484_

B. LOCATION DATA
USGS Quad: _Robie Creek_ LAT: ___ LONG: ___ OR
UTM Coord: _4833497_ N _573866_, E Zone _11T_ WP _349_ AND
Township: ___N Range: ___E Section: 27_ Subdivision: NESH
Meridian: _Boise, 08_ County: Ada, ID001
Surface: BLM ___ / Non-BLM ___ (Natl Forest) Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road 0 / Trail 3 / Population center 0
Access by: 2wd X / 4wd ___ / Hike X / Other X, ATV, motorcycle
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___

Recent human use: _Yes_ Describe: minor trash, tracks

D. SITE DESCRIPTION
Acreage: _<0.1_ Elevation: _5120’_
General slope (degrees): 0-10 ___ / 11-35 ___ / >35
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___
Recent mineral activity: _No_ Describe: ___

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 1 / Open inclines ___ / Closed inclines
Open shafts ___ / Closed shafts ___ / Stopes
Other openings ___ Type
Trenches 1 Length 40’___ / 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
Heaps ___ / Dredge
Ponds ___ / Dams
Mills Type ___ , ___
Explosives ___ Describe: ___
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
Powerlines
Structures ___ Type ___ Condition: Good ___ / Fair ___ / Poor ___ / Number Locked
Homesites
Other: _NO equipment or structures on site_

(08/97, swm)
Rocky Canyon Area, Grubstake Mine, IGS#BO484
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO484
IGS:_____

F. ENVIRONMENTAL FEATURES

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

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

GEOLOGY
Granite with quartz veining
Staining of soils Describe: ________________________________
Sulfide minerals X Type(s): py, possibly arsenopyrite based on color___________________
Tailings: Confined ____ / Unconfined ____ / Unknown

HYDROLOGY

D R Y

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:
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)

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: ________________________________

No equipment or buildings, minor amount of scrap wood/timbers near adit # 2

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

The open adit appears to pose minimal hazard due to good ground conditions. It did not appear to go very far.

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, 5 waypoints, 346-350

K. PHOTOGRAPHS
Number of photographs taken: 11, digital, P8270001 thru P8270011

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

Reason:

(03/95)
Rocky Canyon Area, Grubstake Mine, IGS#BO484

BLM AML INVENTORY FIELD CHECKLIST

SKETCH MAP

Note shift of FS ownership boundary to North.

Figure 484-1: Grubstake Location Map
Figure 484-2: Grubstake Site Map
Figure 484-3F: View of the Grubstake from the trail near waypoint 345. The dump and scar associated with Adit #2 are just left of center, below the large tree. Photo P8270001, View North

Figure 484-3: Adit #1, open. The large opening is about 15 feet high beyond the rubble pile at the entrance. Photo P8270006, View West
Figure 484-4: Pyritic rock on waste dump near Adit #1. The color suggests the abundant pyrite contains arsenic. Pack for scale. Photo P8270008

Figure 484-5: Workings #3. It did not look like there had been an adit at this area directly above adit #1. Photo P8270009, View SW
Figure 484-6: Prospect, not visited. This prospect is up the main branch of Five Mile Gulch on Forest Service administered land and indicated by an "X" on the topographic map. It was not visited. Photo P8270010, View NW
Rocky Canyon Area, Grubstake Mine, IGS#BO484
BLM AML INVENTORY FIELD CHECKLIST
ID Number: ID0110-BO484

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/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>346</td>
<td>Dump #2</td>
<td>573683</td>
<td>4833402</td>
<td>4996</td>
<td>30</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>347</td>
<td>Adit #2, caved</td>
<td>573680</td>
<td>4833416</td>
<td>5001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>348</td>
<td>Trench #1</td>
<td>573687</td>
<td>4833426</td>
<td>5015</td>
<td>40</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>349</td>
<td>Adit #1, Open</td>
<td>573866</td>
<td>4833497</td>
<td>5110</td>
<td>100</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>350</td>
<td>Workings #3</td>
<td>573841</td>
<td>4833495</td>
<td>5145</td>
<td>20</td>
<td>30</td>
<td>10</td>
</tr>
</tbody>
</table>

Access: Drive up Rocky Canyon Road and park at the trailhead for Orchard Gulch. Walk up Orchard Gulch then bear left, the main trail, up to the ridge. From here, part of the workings are obvious, but the rest are hidden up the side gulch, around to the right. Continue following this to the Grubstake. This trail is accessible to ATVs and motorcycles. The trail up Five Mile Gulch also leads to this area, although it requires a bit more climbing.

Field Notes:
The large open adit goes in approximately 100 feet then becomes a typical sized adit, approximately 4' x 6'. It did not appear to go very much farther. The dump here was largely overgrown.

INSPECTED BY: Dave Leppert       TITLE: Geologist       DATE: 8/27/2004
INSPECTED BY:                     TITLE:               DATE:          

Fill out the following for each photo:
Digital Photos
File Number | Near WP | Azimuth | Feature, Description
------------|---------|---------|-----------------------
P8270001    | 345     | N       | Overview, from trail, Grubstake
P8270002    | 345     | W       | Overview, from trail, Tornado
P8270003    | 347     | 20      | Adit #2, Caved
P8270004    | 347     | E       | Dump #2
P8270005    | None    | NW      | "Prospect" in NE S 27 on topo map
P8270006    | 349     | 280     | Adit #1, Open. Very large opening
P8270007    | 349     | 280     | Interior of Adit #1
P8270008    | 349     | NA      | Dump material, lots of quartz and py, prob arsenopyrite
P8270009    | 350     | SW      | Upper workings
P8270010    | None    | NW      | "Prospect" in NE S 27 on topo map, closer view
P8270011    | None    | W       | Overview

(03/95)
**Rocky Canyon Area, Grubstake Mine, IGS#BO484**

BLM AML INVENTORY  
SUPPLEMENTAL OFFICE DATA SHEET  
IGS:

### A. SITE IDENTIFICATION

<table>
<thead>
<tr>
<th>Other BLM ID Number:</th>
<th>Locatable _____ / Leasable _____ / Salable _____</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator (last known):</td>
<td>Commodity: Primary __________ / Secondary __________</td>
</tr>
<tr>
<td>Other Agency ID Number:</td>
<td>Agency: ______________________</td>
</tr>
</tbody>
</table>

### 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: ____________________________

(03/95)

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Affiliation</th>
<th>Comments</th>
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<th>Address</th>
<th>Phone</th>
<th>Affiliation</th>
<th>Comments</th>
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<tbody>
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</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
ID Number: ID-0110-BO479
Site/Mine Name: Unnamed Prospect BO479 Primary Commodity: Unk, probably Au,
Alternate Names: Freestone_Creek Prospect
Site Name is Historic Assigned
IGS Number: BO479

B. LOCATION DATA
USGS Quad: Boise North
LAT: _______ LONG: _______ OR
UTM Coord: 4832663_N 569789_E Zone ______ AND
Waypoint Number site location is based on: __207____
Township: 4N Range: 3E Section: 31 Subdivision: NENE
Meridian: Boise, 08 County: Ada
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road 0 / Trail 2 / Population center 0
Access by: 2wd / 4wd / Hike / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____
Road Log: _____

D. SITE DESCRIPTION
Acreage: <0.1 Elevation: 3800 to 3900
General slope (degrees): 0-10 / 11-35 X / >35
Floodplain: Disturbance in _____ / Adjacent to X / NA
Recent mineral activity No Describe: _______

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits 3
Closed shafts 1
Trenches Length _____ / Prospects 1 / Open drill holes
Pits >30 ft. deep _____ / Pits <30 ft. deep _____ / Pit highwall length
Waste dumps: <0.1 ac _____ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed _____ / Dead _____ / Nonexistent
Evidence of natural revegetation: _____ / Describe: some growth on dumps, barren in part

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

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**Central Foothills Area, “Freestone”, IGS#BO479**

BLM AML INVENTORY ID Number: ID-0110-BO479

**GEOLOGY**
Granite with quartz veins. Rhyolite dike.

Staining of soils: __________ Describe: __________________________

Sulfide minerals: __________ Type(s): __________________________

Tailings: Use long form if tailings present

**HYDROLOGY:** Use long form if site requires sampling

<table>
<thead>
<tr>
<th>Type</th>
<th>WP#</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Temp, °F</th>
</tr>
</thead>
</table>

**G. POTENTIAL HAZARDOUS MATERIALS** (Provide numbers of features)

Use Long Form if Hazardous Materials Present

**H. RECLAMATION**

Use long form if reclamation required

**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**

Garmin _X_ No. of Waypoints ___9___ Final WP #s __________

Garmin Rover File name: NA

**K. PHOTOGRAPHS**

Digital _X_ Film _____

Number of photographs taken: ___8___ File #s for digital __PB060001 through PB060008

**L. ACTION**

USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

---

**Photo Log:**

<table>
<thead>
<tr>
<th>Digital Photo File Number</th>
<th>Nearest Waypoint</th>
<th>Azimuth</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB060001</td>
<td>204</td>
<td>N</td>
<td>Large quartz cobble, pieces in float by old road</td>
</tr>
<tr>
<td>PB060002</td>
<td>204</td>
<td>S</td>
<td>workings on N facing slope, Freestone Crk</td>
</tr>
<tr>
<td>PB060003</td>
<td>E of 204</td>
<td>N</td>
<td>Freestone Creek workings</td>
</tr>
<tr>
<td>PB060004</td>
<td>206</td>
<td>NA</td>
<td>Dump 2, fairly fine dump material, sl yellow</td>
</tr>
<tr>
<td>PB060005</td>
<td>208</td>
<td>N</td>
<td>Dump 3 from below</td>
</tr>
<tr>
<td>PB060006</td>
<td>209</td>
<td>NNE</td>
<td>Dump with possible shaft, seep in foreground</td>
</tr>
<tr>
<td>PB060007</td>
<td>210</td>
<td>NE</td>
<td>Rhyolite outcrop in creek bottom</td>
</tr>
<tr>
<td>PB060008</td>
<td>212</td>
<td>190</td>
<td>Adit, caved, quartz veining in rhyolite</td>
</tr>
</tbody>
</table>

**Field Notes:**

This area was not in the IGS database, but was spotted on the orthophotos. There are several small dumps along the side branch of Freestone Gulch. There is a slight depression at one dump that suggests it may have been a collapsed shaft, or possibly an area where equipment was installed, though no equipment foundations are present. This dump was fairly fine, but not powdery like most tailings and was not sampled. A very small spring was below another dump at WP209. No openings, no scrap metal or other junk.

**Directions:**

This area can be reached by either parking on 8th street and taking Trail #1 (Ridge to Rivers Map) or trails 23 and 24 from the Mountain Cove Road/Military Reserve area. The trails are up on the ridge and you need to drop down into the creek bottom to find the workings. There is an old road/trail which can be followed most of the way to the area of the main workings.
Figure 479-1: Freestone Site Map. Rhyolite dike, not shown, is between waypoints 210 and 211
Figure 479-2: Main workings along side branch of Freestone Gulch. There was a depression behind dump #2 that may indicate the location of a caved shaft or where equipment was located. Dump #2, closeup shown below, consists mostly of fine material, possibly tailings. Photo PB060003, view north.

Figure 479-3: Fine material of Dump #2. Photo PB060004. Possible tailings? No Sample.
Central Foothills Area, "Freestone", IGS#BO479

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0110-BO479

Figure 479-4: View of Adit #3. Photo PB060002, view south.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Alt, FT</th>
<th>Length</th>
<th>Width</th>
<th>HI/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>Large Quartz Float on old road</td>
<td>569605</td>
<td>4832500</td>
<td>3803</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>205</td>
<td>Adit #1, caved, Dump #1</td>
<td>569799</td>
<td>4832724</td>
<td>3875</td>
<td>20</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>206</td>
<td>Dump #2, North end, poss shaft?</td>
<td>569792</td>
<td>4832717</td>
<td>3886</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>Adit #2, caved</td>
<td>569789</td>
<td>4832661</td>
<td>3861</td>
<td>60</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>Dump #3, S end</td>
<td>569788</td>
<td>4832649</td>
<td>3851</td>
<td>30</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>209</td>
<td>Shaft #2? Caved</td>
<td>569752</td>
<td>4832466</td>
<td>3781</td>
<td>15</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>Seep, very small</td>
<td>569738</td>
<td>4832451</td>
<td>3777</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>Prospect</td>
<td>569669</td>
<td>4832324</td>
<td>3787</td>
<td>10</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>212</td>
<td>Adit #3, caved, with dump</td>
<td>569649</td>
<td>4832264</td>
<td>3815</td>
<td>20</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert
TITLE: Geologist
DATE: 11/4/03

INSPECTED BY: ________________________________
TITLE: ________________________________
DATE: ________________________________ (03/95)
BUREAU OF LAND MANAGEMENT

ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ID-0110-BO480
Site/Mine Name: Unnamed Prospect BO480
Primary Commodity: Unk, prob Au?
Alternate Names: 
Site Name is ___ Historic ___ Assigned
IGS Number: BO480

B. LOCATION DATA
USGS Quad: Boise North
LAT: _______ LONG: _______ OR
UTM Coord: 4831373 N 569656 E Zone 11T AND
Waypoint Number site location is based on: 197
Township: 4N Range: 3E Section: 31 Subdivision: SESE
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM ___ / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center ___
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___ Road Log: ___
Recent human use: ___ Describe: ________________________________

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

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits ___
Closed shafts ___
Trenches ____ Length _____ / Prospects ___ / Open drill holes
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
Waste dumps: <0.1 ac ___ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed ___ / Dead ___ / Nonexistent
Evidence of natural revegetation: ___ / Describe:
Dumps overgrown with grasses and brush

ANIMALS
Evidence: ___ / Presence: ___ / Describe: various scat, birds

123
Central Foothills Area, Unnamed Prospect BO480, IGS# BO480
BLM AML INVENTORY ID Number: ID-0110-BO480

GEOLOGY  Granite with Fe staining and quartz veins
Staining of soils  ____  Describe: ____________________________________________
Sulfide minerals  ____  Type(s): ____________________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY
  Type   WP#   pH   Conductivity   Flow (GPM)   Temp, °F

G.  POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H.  RECLAMATION
Use long form if reclamation required

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  ________Garmin_______ Rover File name:  NA
Garmin _X_  No. of Waypoints ____3__ Final WP #s __193-198, 203______

K.  PHOTOGRAPHS  ________ X _______ Film_______
Number of photographs taken:  ____3____ File #s for digital __PB040031 thru 33____

L.  ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

<table>
<thead>
<tr>
<th>Photo Log: Digital Photos</th>
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<tbody>
<tr>
<td>File Number</td>
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<tr>
<td>--------------</td>
</tr>
<tr>
<td>PB040031</td>
</tr>
<tr>
<td>PB040032</td>
</tr>
<tr>
<td>PB040033</td>
</tr>
</tbody>
</table>

Field Notes:
There was no record of this property in the IGS database. Numerous prospects are indicated in
this area by an “x” on the topo map. Not all the “x” locations were visited, but there was no
indication of significant workings apparent on the orthophoto, nor were any seen while traversing
the area to the primary objective, i.e. “Curlew Shaft”. Nothing significant was found in this area,
just small prospects. None appeared to have actually been adits, based in part on the amount of
waste material. The apparent shaft also must have been very shallow, possibly more just a pit.

Directions: Park near the trailhead to trail #26 (Ridge to Rivers Map) in Rocky Canyon. Follow this
trail up over the ridge then cut cross country down across Curlew Gulch then back up across the
relatively flat area. Proposed trails will connect this area with Military Reserve and make it easier
to get to. Multi-use motorized trail #6 also leads to the edge of this area.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 480-1: Unnamed Prospect BO480 Site Map
Central Foothills Area, Unnamed Prospect BO480, IGS# BO480

Figure 480-2: Prospects. Photo PB040031, view West

Figure 480-3: Prospect at waypoint 196. Note near vertical vein in top center. Pack and pole for scale. Photo PB040033, view North
### Central Foothills Area, Unnamed Prospect BO480, IGS# BO480

**BLM AML INVENTORY FIELD CHECKLIST**

**ID Number:** ID-0110-BO480

Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>W</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>193</td>
<td>v sm prospect, road trace</td>
<td>569824</td>
<td>4831237</td>
<td>3693</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>194</td>
<td>Trench</td>
<td>569673</td>
<td>4831333</td>
<td>3728</td>
<td>80</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>195</td>
<td>Prospect, N end</td>
<td>569656</td>
<td>4831373</td>
<td>3750</td>
<td>15</td>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>196</td>
<td>Large Prospect</td>
<td>569641</td>
<td>4831413</td>
<td>3764</td>
<td>30</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>197</td>
<td>Prospect</td>
<td>569641</td>
<td>4831432</td>
<td>3768</td>
<td>30</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>198</td>
<td>Prospect, pit and cut</td>
<td>569583</td>
<td>4831543</td>
<td>3786</td>
<td>50</td>
<td>20</td>
<td>4</td>
</tr>
<tr>
<td>203</td>
<td>Shaft, caved, minimal dump</td>
<td>569453</td>
<td>4831355</td>
<td>3673</td>
<td>30</td>
<td>20</td>
<td>15</td>
</tr>
</tbody>
</table>

**INSPECTED BY:** Dave Leppert
**TITLE:** Geologist
**DATE:** 11/4/2003

**INSPECTED BY:** [Signature]
**TITLE:** [Position]
**DATE:** [Signature] (03/95)
Bureau of Land Management
Abandoned/Inactive Mine Land Inventory
Field Checklist

A. Site Identification
ID Number: ID-0110-BO481
Site/Mine Name: Unnamed Prospect BO481 Primary Commodity: Unknown, Au?
Alternate Names: "Curlew Tunnel"
Site Name is Historic _X_ Assigned
IGS Number: BO481

B. Location Data
USGS Quad: Boise North LAT: 4831450 N 569279 E Zone 11T AND
UTM Coord: 4831450 N 569279 E Zone 11T AND
Waypoint Number site location is based on: _200_
Township: 4N Range: 3E Section: 31 Subdivision: SWSE
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. Access
Visible from: Nearest road 3 / Trail 0 / Population center 0
Access by: 2wd / 4wd / Hike _X_ / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____
Road Log: ____________________________________________________________________

Recent human use: No ___ Describe: ____________________________________________________________________

An old road goes to the site, but is not accessible to vehicles, it can be reached from trail #26, Curlew Ridge/Curlew Gulch, on the Ridge to Rivers Map. New trails may provide access from the Military Reserve Area

Acreage: <0.1 Elevation: 3530
General slope (degrees): 0-10 / 11-35 _X_ / >35
Floodplain: Disturbance in _X_ / Adjacent to _X_ / NA
Recent mineral activity _NO_ Describe: ____________________________________________________________________

Dump impinges on creek which was dry at the time

E. Mining/Exploration Features (Provide numbers of features)
Open adits 1 / Closed adits 0 / Open inclines 0 / Closed inclines 0
Open shafts 0 / Closed shafts 0 / Stopes 0
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 1 / 0.1 - 5 ac ____ / >5 ac
Tailings: <0.1 ac 2 / 0.1 - 5 ac ____ / >5 ac
Heaps ____ / Dredge ____ Ponds ____ / Dams ____ Mills ____ Type

There were 2 small piles of apparent tailings (light tan, powdery, slight sulfur odor).

Explosives ____ Describe: ____________________________________________________________________
Equipment/Machinery ____ / Headframes ____ / Trestles/tramways
Powerlines ____________________________________________________________________
Structures ____ Type ____________________________ Condition: Good ____ / Fair ____ / Poor ____ / Number Locked
Homesites ____________________________________________________________________
Other: Rails going into the tunnel ____________________________________________________________________
F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: / Presence: no / Describe: 

GEOLOGY
Granite with minor Fe staining
Staining of soils Describe: 
Sulfide minerals Type(s): 
Tailings: Confined / Unconfined X / Unknown

HYDROLOGY
Water flowing from workings: pH Conductivity Flow (GPM) Sketch #
Standing water in workings: 
Water through/over tailings: 
Waste rock: ore: 
Adjacent water sources: Ground water: 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

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 Sketch # mR/hr gamma WL alpha
Central Foothills Area, “Curlew Tunnel”, IGS#BO481
BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID0110-BO481
IGS:____

H.  RECLAMATION

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

Closure should be considered for the adit considering its proximity to the trails. Proposed new trails in the area will increase the accessibility. Analysis of the tailings indicates no significant environmental hazard

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  Waypoints 200 thru 202
K. PHOTOGRAPHS
Number of photographs taken: ___2

L. ACTION NONE
Site requires immediate investigation ____ by: Law Enforcement ____ / BLM
HAZMAT ____ / Other ____________________________

Reason: ____________________________

__________________________________
(03/95)
Central Foothills Area, "Curlew Tunnel", IGS#BO481

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID0110-BO481
SKETCH MAP

Figure 481-1: "Curlew Tunnel" Site Map
Figure 481-2: Overview of "Curlew Tunnel". Apparent tailings pile #2 is very low and has brush growing on it. Note the rails coming out of the open adit. Photo PB040039, View NE.

Figure 481-3: Closeup of apparent tailings #2. This pile was very small and not sampled.
Central Foothills Area, “Curlew Tunnel”, IGS#BO481

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID0110-BO481

IGS: _____

M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>WP</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Alt</th>
<th>L</th>
<th>W</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Adit #1, Open</td>
<td>569279</td>
<td>4831450</td>
<td>3530</td>
<td>4</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>201</td>
<td>Dump #1, end of rail</td>
<td>569272</td>
<td>4831438</td>
<td>3541</td>
<td>60</td>
<td>60</td>
<td>10</td>
</tr>
<tr>
<td>202</td>
<td>Road</td>
<td>569265</td>
<td>4831462</td>
<td>3532</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

The open tunnel appears “solid”. The end could not be seen. It is unknown if dangerous conditions exist within the tunnel. There is a very small tailings pile and the waste dump impinges on the drainage, which was dry during the site visit. No sulfides observed.

Although the site was accessed from Rocky Canyon, it may be much easier to get there from Mountain Cove Road. New trails are proposed for the area that will improve access (Idaho Statesman, Aug 21, 04, Local section page 8). I took a roundabout way to reach this site, going to BO480 and “Curlew Shaft” first. Take Trail #26 from Rocky Canyon then cut cross country to reach the property.

INSPECTED BY: Dave Leppert               TITLE: Geologist      DATE: 11/4/03
INSPECTED BY:                   TITLE:               DATE:          

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID0110-BO481

PHOTO LOG                          IGS: _____

Fill out the following for each photo:

Digital File #, nearest WP, Azimuth, Feature

<table>
<thead>
<tr>
<th>Digital File #</th>
<th>Nearest WP</th>
<th>Azimuth</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB040039</td>
<td>201</td>
<td>50</td>
<td>Adit, Tailings?</td>
</tr>
<tr>
<td>PB040040</td>
<td>201 NA</td>
<td></td>
<td>Closeup of probable tailings, small pile</td>
</tr>
</tbody>
</table>

(03/95)
Central Foothills Area, “Curlew Tunnel”, IGS#BO481

| BLM AML INVENTORY | SUPPLEMENTAL OFFICE DATA SHEET | ID Number: | IGS:___________ |

A. SITE IDENTIFICATION

<table>
<thead>
<tr>
<th>Other BLM ID Number:</th>
<th>Locatable _____ / Leasable _____ / Salable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator (last known):</td>
<td></td>
</tr>
<tr>
<td>Commodities: Primary _____ / Secondary _____</td>
<td></td>
</tr>
<tr>
<td>Other Agency ID Number:</td>
<td>Agency: ___________________________</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Distance in Miles to Closest Public:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road _____</td>
</tr>
<tr>
<td>Potable Water _____</td>
</tr>
<tr>
<td>Campground/Picnic Area _____</td>
</tr>
</tbody>
</table>

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: ___________________________

(03/95)

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Affiliation</td>
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<tr>
<td>Comments</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Affiliation</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
</tr>
</tbody>
</table>
A. SITE IDENTIFICATION
ID Number: _ID-0110-BO482_
Site/Mine Name: Unnamed Prospect BO482 Primary Commodity: Au Lode? 261
Alternate Names: "Curlew Shaft"
Site Name is Historic _X_ Assigned, no historic reference
IGS Number: BO482

B. LOCATION DATA
USGS Quad: Boise North LAT: LONG: OR
UTM Coord: 4831823 _N_ 569610 _E_ Zone 11T AND
Waypoint Number site location is based on: 199
Township: Range: Section: Subdivision: NESE Meridian: Boise, 08 County:
Surface: BLM _X_ Non-BLM Mineral Estate: BLM _X_ Non-BLM
Apparent patented claim

C. ACCESS
Visible from: Nearest road _0_ Trail _3_ Population center _0_
Access by: 2wd _X_ 4wd / Hike _X_ Other
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres _____ Road Log: ___

Recent human use: _Describe:_
Visible from Foothills Trail #5, Freestone Ridge Trail, Multi-Use Non-Motorized, Ridge to Rivers Map. Also visible from trail #4

D. SITE DESCRIPTION
Acreage: _0.1_ Elevation: 3600'
General slope (degrees): 0-10 _X_ 11-35 _X_ >35
Floodplain: Disturbance in _X_ / Adjacent to _X_ / NA _X_
Recent mineral activity No _X_ Describe: ________________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits _0_
Closed shafts _1_
Trenches _4_ Length _15_ / Prospects _6_ / Open drill holes
Pits >30 ft. deep _2_ / Pits <30 ft. deep _4_ / Pit highwall length
Waste dumps: <0.1 ac _1_ / Greater than 0.1, use long form
_The pit at the collapsed shaft is about 15 feet deep with steep crumbly sides. There is an old boiler on site._
USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy _X_ / Stressed _X_ / Dead _X_ / Nonexistent
Evidence of natural revegetation: _X_ / Describe: _Tree growing in shaft, dump mostly barren._

ANIMALS
Evidence: _X_ / Presence: _X_ / Describe: ________________________________

GEOLOGY: Granite, quartz

BLM AML INVENTORY ID Number: ID0110-BO482
Central Foothills Area, “Curlew Shaft”, IGS#BO482

Staining of soils: Describe:

Sulfide minerals: Type(s):

Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling

<table>
<thead>
<tr>
<th>Type</th>
<th>WP#</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Temp, °F</th>
</tr>
</thead>
</table>

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Use Long Form if Hazardous Materials Present

H. RECLAMATION

Use long form if reclamation required

The deep pit of the collapsed shaft would be difficult for someone to climb out of and may warrant reclamation, or at least an egress cut into the bank.

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

Garmin X No. of Waypoints Final WP #s

K. PHOTOGRAPHS

Digital _X_ Film

Number of photographs taken: 3 File #s for digital PB040035 thur 0037

L. ACTION

Use Long Form if Immediate Action Required:

Field Notes:

The “spider hole” pit of the collapsed shaft has crumbly sides and may be difficult for someone to climb out of. Due to its visibility from the trail, and increasing use of this area, remediation should be considered. At minimum, one bank of the spider hole should be cut back to provide egress. There is an old boiler on site.

Directions:

Probably the easiest way to get here by hiking is from the parking area on 8th Street in Section 30. Take trail #4 (Ridge to Rivers map) down and across Hulls Gulch then cut over to trail #5. Alternatively, it can be reached from Rocky Canyon via trail 26 and cutting cross country or trail 26 to trail 5. New trails may provide easier access from the Military Reserve area.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 482-1 "Curlew Shaft" Site Map.
Central Foothills Area, "Curlew Shaft", IGS#BO482

Figure 482-2: Overview of the collapsed shaft, dump, and boiler. Photo PB040035, view WNW

Figure 482-3. Close-up of the collapsed shaft. Photo PB040036, view N
Site Feature - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>199</td>
<td>Shaft, E side</td>
<td>569610</td>
<td>4831823</td>
<td>3786</td>
<td>30</td>
<td>20</td>
<td>15</td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert TITLE: Geologist DATE: 11/4/03
INSPECTED BY: ________________________ TITLE: __________ DATE: __________
(03/95)
Central Foothills Area, “Curlew Shaft”, IGS#BO482
A. SITE IDENTIFICATION
ID Number: ID-0110-BO483
Site/Mine Name: Unnamed Prospect BO483 Primary Commodity: Unk, Au?
Alternate Name: "Curlew NW Adit", Assigned name, not historic
IGS Number: BO483

B. LOCATION DATA
USGS Quad: Boise North
LAT: LONG: OR
UTM Coord: 4831760 N 569111 E Zone 11T At waypoint 214 AND
Township: 4N Range: 3E Section: 31 Subdivision: NESW
Meridian: Boise, 08 County: Ada, ID001
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road 0 / Trail 2 / Population center
Access by: 2wd ___ / 4wd ___ / Hike x / Other
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: ___
Recent human use: No Describe: __________________________

D. SITE DESCRIPTION
Acreage: <0.1 Elevation: 3650
General slope (degrees): 0-10 ___ / 11-35 ___ / >35
Floodplain: Disturbance in ___ / Adjacent to ___ / NA
Recent mineral activity No Describe: __________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / 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
Mills ___ Type ___ , ___
No equipment, machinery or structures
Explosives Describe: __________________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
Powerlines
Structures ___ Type ___ Condition: Good ___ / Fair ___ / Poor ___ / Number Locked
Homesites
Other: __________________________
(08/97, swm)
**Unnamed Prospect BO483, “Curlew NW Adit”, IGS# BO483**

BLM AML INVENTORY FIELD CHECKLIST  
ID Number: ID0110BO483

IGS:______

**F. ENVIRONMENTAL FEATURES**

**VEGETATION**

<table>
<thead>
<tr>
<th>Vegetation Status</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy</td>
<td>X</td>
</tr>
<tr>
<td>Stressed</td>
<td></td>
</tr>
<tr>
<td>Dead</td>
<td></td>
</tr>
<tr>
<td>Nonexistent</td>
<td></td>
</tr>
</tbody>
</table>

Evidence of natural revegetation:

- **Dumps covered with brush, grasses**

**ANIMALS**

- Evidence: _____ / Presence: _____ / Describe: __________________________

**GEOLOGY**

Granites with Fe staining

- Staining of soils: _____ Describe: __________________________
- Sulfide minerals: Y Type(s): py
- Tailings: Confined _____ / Unconfined _____ / Unknown

**HYDROLOGY**

**DRY**

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

Adjacent water sources:

<table>
<thead>
<tr>
<th>Source</th>
<th>Type</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground water</td>
<td>_____</td>
<td>____</td>
<td>____</td>
<td>____</td>
<td>____</td>
</tr>
<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>
<td>____</td>
<td>____</td>
<td>____</td>
</tr>
</tbody>
</table>

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**

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

(03/95)
Unnamed Prospect BO483, “Curlew NW Adit”, IGS# BO483
BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID0110BO483
    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
_____ Gates
_____ Backfill openings, pit
_____ Recontour
_____ Fences
_____ Warning signs
_____ Plug open drill holes
_____ Topsoil, soil amendments
_____ Revegetation
_____ Stabilize/destroy structures
_____ Drainage control
_____ Water treatment
_____ Wildlife closure
_____ No action
_____ Trash / clean up

Other: _________________________________________________________

Due to its proximity to well traveled trails, closure should be considered.

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

K.    PHOTOGRAPHS, Digital
Number of photographs taken: 6. File numbers PB040011 thru 15 and PB040038

L.    ACTION NONE
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM
HAZMAT _____ / Other ________________________________

Reason: _______________________________________________________
_____________________________________________________________
_____________________________________________________________
_____________________________________________________________
_____________________________________________________________
_____________________________________________________________

(03/95)

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Figure 483-1: "Curlew NW" Site Map
Figure 483-2: View of "Curlew NW Adit" from near "Curlew Shaft". Photo PB040038, view west

Figure 483-3: Curlew NW Adit, site overview from access road. Photo PB060013, view NNE
Figure 483-4: "Curlew NW Adit", Adit #1. Photo PB060014, View NE

Figure 483-5: "Curlew NW Adit", Adit #1 interior view. Photo PB060015, View 40°
Unnamed Prospect BO483, “Curlew NW Adit”, IGS# BO483

BLM AML INVENTORY FIELD CHECKLIST

ID Number: ID-0110-BO483

IGS: _____

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>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>214</td>
<td>Adit #1, Open</td>
<td>569111</td>
<td>4831760</td>
<td>3607</td>
<td>Open</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>215</td>
<td>Dump #1, East end</td>
<td>569119</td>
<td>4831747</td>
<td>3615</td>
<td>50</td>
<td>60</td>
<td>10</td>
</tr>
<tr>
<td>216</td>
<td>end of Road, above adit</td>
<td>569133</td>
<td>4831758</td>
<td>3628</td>
<td>50</td>
<td>60</td>
<td>10</td>
</tr>
<tr>
<td>217</td>
<td>Prospect, qtz, pegmatitic outcrop</td>
<td>569103</td>
<td>4831810</td>
<td>3656</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: the portal for adit #1 is partially blocked by caved debris with an opening about 3 feet high

Field Notes:
The roads in this area are overgrown and barely distinguishable on the orthophotos. Although partially concealed by brush, the open portal is visible and accessible. The dump is overgrown and most people probably would not recognize it as a mine dump.

Access:
This site was reached by hiking in from the 8th Street parking area approximately 3 miles beyond the end of the pavement, via trail #4 (Ridge to Rivers Map) then cross-country through Freestone Gulch. If only this property was being looked at, it would be easier to reach via Military Reserve and Trail #5. This trail is open to ATV’s and motorcycles.

INSPECTED BY: Dave Leppert TITLE: Geologist DATE: Nov 6, 2003
INSPECTED BY: ______________________ TITLE: ______________ DATE: __________

Fill out the following for each photo:

<table>
<thead>
<tr>
<th>File Number</th>
<th>Near WP</th>
<th>Azimuth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB060011</td>
<td>217</td>
<td>SE</td>
<td>Roads to site with open adit from above</td>
</tr>
<tr>
<td>PB060012</td>
<td>217</td>
<td>N</td>
<td>Pegmatite/Quartz outcrop</td>
</tr>
<tr>
<td>PB060013</td>
<td>213</td>
<td>25</td>
<td>Adit #1, open and dumps</td>
</tr>
<tr>
<td>PB060014</td>
<td>214</td>
<td>40</td>
<td>Adit #1, open. Fe staining in granite</td>
</tr>
<tr>
<td>PB060015</td>
<td>214</td>
<td>40</td>
<td>View in tunnel</td>
</tr>
<tr>
<td>PB040038</td>
<td>199</td>
<td>W</td>
<td>View of workings across Curlew Gulch</td>
</tr>
</tbody>
</table>

Note: Photo PB040038 taken from near “Curlew Shaft

(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: ____________________________
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)
A. SITE IDENTIFICATION
   ID Number: ID-0110-BO485
   Site/Mine Name: Unnamed Prospect BO485
   Primary Commodity: Unk, Au?
   Alternate Names: Upper_Curlew
   Site Name is Historic
   IGS Number: BO485

B. LOCATION DATA
   USGS Quad: Robie Creek
   LAT: __________ LONG: __________ OR
   UTM Coord: 4832692 N 570790 E Zone 11T AND
   Waypoint Number site location is based on: 357
   Township: 4N Range: 3E Section: 32 Subdivision: NWNE
   Meridian: Boise, 08 County: Ada, ID001
   Surface: BLM / Non-BLM
   Mineral Estate: BLM / Non-BLM

C. ACCESS
   Visible from: Nearest road / Trail / Population center
   Access by: 2wd / 4wd / Hike / Other
   Access disturbance in need of reclamation: Length / Width / Acres
   Road Log: 

   Drive to the large parking area approximately 3 miles up 8th street. Walk on trail 4 to trail 6. A short distance past the junction of trail 4 and 6, there is an overgrown road to the left (north). Follow this road around the hill to the north and down.

   Recent human use: No

D. SITE DESCRIPTION
   Acreage: <0.1
   Elevation: 4250
   General slope (degrees): 0-10 / 11-35 / >35
   Floodplain: Disturbance in / Adjacent to / NA
   Recent mineral activity: No
   Dumps impinge on the creekbed which was dry at the time.

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
   Closed adits
   Closed shafts
   Trenches Length Prospects / Open drill holes
   Pits >30 ft. deep / Pits <30 ft. deep / Pit highwall length
   Waste dumps: <0.1 ac / Greater than 0.1, use long form
   USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES
   VEGETATION
   Vegetation: Healthy / Stressed / Dead / Nonexistent
   Evidence of natural revegetation: / Describe:

   ANIMALS
   Evidence: / Presence: No / Describe: scat
Central Foothills Area, “Upper Curlew”, IGS#BO485
BLM AML INVENTORY ID Number: ID0110-BO485

GEOLOGY. Granite with nearby rhyolite dikes
Staining of soils ___ Describe: ________________________________
Sulfide minerals ____ Type(s): _________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling
DRY
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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 ___Garmin____ Rover File name: NA
Garmin ___X__ No. of Waypoints ___4____ Final WP #s 355 thru 358________

K. PHOTOGRAPHS Digital ___X_ Film ___
Number of photographs taken: ___7_____ File #s for digital ___P9300056 thru 62_____

L. ACTION.. USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log: Digital Photo
File Number Nearest Waypoint Azimuth Feature
P9300056 No WP SE Adit #2, caved
P9300057 No WP SE Hilltop barren spot
P9300058 No WP SE Hilltop barren spot, zoom, Adit #1
P9300059 356 SW Road to Dump 3
P9300060 356 125 Adit 2, caved, with post
P9300061 357 NE Dump #3, turnaround
P9300062 357 S Caved Adit #2, Dump 3, Road

Field Notes:
I hiked in from higher up on trail #4, not knowing there was a road connecting to trail #6. The
distinct scar visible on photo 58 was not visited. It was clearly visible with binoculars from the
hillside across the gulch to the west with no significant disturbance or openings. Above Dump 3,
there were indistinct areas of probable workings and small overgrown probable dumps that were
not mapped. Old roads are visible on both sides of the gulch.

Directions:
As described above via trails 4 and 6 from 8th Street. Optionally, hike in from Military Reserve
area. Another option, to cut out about 300 feet of elevation gain, is to take the trail northeast from
the smaller parking area a couple hundred yards above the large 8th Street parking area, then cut
cross country after crossing the creek, up the steep hill to trail #4. This is the way I returned to my
vehicle. These trails are open to ATVs and trail bikes.

BLM AML INVENTORY FIELD CHECKLIST
ID Number: ID0110BO485
Figure 485-1: "Upper Curlew" Site Map. No waypoints were taken in the area labeled "indistinct dumps and workings". Entire area is BLM administered land.
Figure 485-2: Caved Adit #1 in lower right. The hilltop scar was only checked with binoculars, no significant disturbance or openings were visible. From this vantage point, it did not look like there was disturbance along the steep gully so it was not visited. Lucky Peak is in the distance. Photo P9300058, view East.

Figure 485-3: Adit #2, caved. Note scar to left. Photo P9300056, view SE
Central Foothills Area, "Upper Curlew", IGS#BO485

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID0110BO485

Figure 485-4: Overview of adit #2 area. Photo is taken from the area of "indistinct workings", with a thin, probable dump in the foreground. Caved adit #2 is left center. Dump #3 is in the center, in front of the bushes. The prominent road leads around to trail #6. Also note the less distinct road on the far (SE) side of the gulch. Photo P9300062, View South.

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>355</td>
<td>Adit #1, Caved, Dump #1</td>
<td>570958</td>
<td>4832916</td>
<td>4340</td>
<td>10</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>356</td>
<td>Adit #2, caved, Dump #2</td>
<td>570855</td>
<td>4832724</td>
<td>4199</td>
<td>30</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>357</td>
<td>Dump #3</td>
<td>570790</td>
<td>4832692</td>
<td>4214</td>
<td>50</td>
<td>30</td>
<td>8</td>
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<tr>
<td>358</td>
<td>Rhyolite on road, near trail</td>
<td>570644</td>
<td>4832382</td>
<td>4259</td>
<td>20?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert        TITLE: Geologist    DATE: 9/30/04
INSPECTED BY:                     TITLE:              DATE:            

154
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ___ID-0110-BO287
Site/Mine Name: Stanley Prospect Primary Commodity: probably Au, 261
Alternate Names: 
Site Name is _X__ Historic ___ Assigned
IGS Number: ___ BO287

B. LOCATION DATA
USGS Quad: ___Boise North LAT: ________ LONG: _______ OR
UTM Coord: ___4834588__________N 570102____E Zone 11T AND
Waypoint Number site location is based on: ___224___
Township: _4N_ Range: _3E_ Section: _20_ Subdivision: _SWSW_
Meridian: Boise, 08_______ County: Ada, ID001
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
Visible from: Nearest road _2_ / Trail _0_ / Population center _0_
Access by: 2wd _X_ / 4wd _X_ / Hike _X_ / Other
Access disturbance in need of reclamation: Length _____ / Width _____ / Acres _____ Road Log: ___
Some 2WD vehicles may have problems on steep sandy sections of the road.____
Recent human use: No Describe: ____________________________________________________________________________

D. SITE DESCRIPTION
Acreage: _<0.1_____ Elevation: _4480____________
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)
Closed adits _0_
Closed shafts _0_
Trenches _____ Length _______ / Prospects _1_ / Open drill holes
Pits >30 ft. deep _____ / Pits <30 ft. deep ______ / Pit highwall length
Waste dumps: <0.1 ac _1___ / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy _X_ / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: _Y_ / Describe: _____________________________________________________________________
Partial regrowth on dump

ANIMALS
Evidence: _____ / Presence: ____ / Describe: ________________________________________________________________________
8th Street Area, Stanley Prospect, IGS#BO287

BLM AML INVENTORY ID Number: ID-0110-BO287

GEOLOGY  Granite w/pegmatite
Staining of soils  _____ Describe: ____________________________________________
Sulfide minerals  _____ Type(s): __________________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY

<table>
<thead>
<tr>
<th>Type</th>
<th>WP#</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Temp, °F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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  Garmin____ Rover File name:  NA
Garmin  ___  No. of Waypoints  ___________ Final WP #s  ___________

K. PHOTOGRAPHS  Digital  ___  Film  ___
Number of photographs taken:  ___  File #s for digital  ___

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

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<th>Digital Photo File Number</th>
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<th>Azimuth</th>
<th>Feature</th>
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<tr>
<td>PB130023</td>
<td>224</td>
<td>10 BO287</td>
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<td></td>
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</table>

Field Notes:


Directions:
Drive up 8th Street approximately 1.5 miles past the motorcycle/ATV unloading area and walk cross
country to the prospect as indicated on the map.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 287-1: Stanley Prospect Site Map.
Figure 287-2: Prospect pit and small dump. Pack and ski pole for scale. Photo PB130023, view North

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
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<tbody>
<tr>
<td>224</td>
<td>Prospect Pit</td>
<td>570102</td>
<td>4834588</td>
<td>4452</td>
<td>25</td>
<td>15</td>
<td>3</td>
</tr>
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</table>

INSPECTED BY: Dave Leppert
TITLE: Geologist
DATE: 11/13/03

(03/95)
5.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST, SHORT FORM

SHORT FORM: For use with very small sites only.

A. SITE IDENTIFICATION
ID Number: ID-0110-BO289
Site/Mine Name: Unnamed Prospect BO289
Primary Commodity: Au??
Alternate Names: "8th Street Outer Loop"
Site Name is Historic: X Assigned
IGS Number: BO289

B. LOCATION DATA
USGS Quad: Boise North
LAT: 4834395 N 569856 E Zone 11T AND
UTM Coord: 4834395 N 569856 E Zone 11T
Waypoint Number site location is based on: 230
Township: 4N
Range: 3E
Section: 3
Subdivision: NENE
County: Ada, ID001
Surface: BLM X / Non-BLM
Mineral Estate: BLM X / Non-BLM

C. ACCESS
Visible from: Nearest road / Trail / Population center
Access by: 2wd X / 4wd X / Hike X / Other
Access disturbance in need of reclamation: Length / Width / Acres Road Log: 
A few steep sandy spots may be troublesome for 2WD vehicles. 4WD recommended.
Recent human use: No Describe:

D. SITE DESCRIPTION
Acreage: <=0.1 Elevation: 4400 to 4560'
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)
Closed adits 1
Closed shafts 0
Trenches Length / Prospects 3 / Open drill holes
Pits >30 ft. deep / Pits <30 ft. deep / Pit highwall length
Waste dumps: <0.1 ac 1 / Greater than 0.1, use long form

USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: X Describe:
Grasses and brush on disturbed areas

ANIMALS
Evidence: / Presence: / Describe:

__________________________________________________________________________________
8th Street Area, “Outer Loop”, IGS#B0289
BLM AML INVENTORY ID Number: ID-0110-BO289

GEOLOGY  Granite, with rhyolite dikes
Staining of soils  no  Describe: _____________________________________________________________
Sulfide minerals  no  Type(s): ___________________________________________________________
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY
Type  WP#  pH  Conductivity  Flow (GPM)  Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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  Garmin  Rover File name:  NA
Garmin _X_  No. of Waypoints 5  Final WP #s 225 thru 230

K. PHOTOGRAPHS  Digital _X_  Film ___
Number of photographs taken: 3  File #s for digital PB10024 thru 26

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:

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<th>Nearest WP</th>
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<th>Feature</th>
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</thead>
<tbody>
<tr>
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<td>Prospect, pegmatite</td>
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<tr>
<td>PB130025</td>
<td>228</td>
<td>95</td>
<td>Prospect at WP 229</td>
</tr>
<tr>
<td>PB130026</td>
<td>230</td>
<td>280</td>
<td>Caved adit and dump, BO289</td>
</tr>
</tbody>
</table>

(03/95)
Figure 289-1: "8th Street Outer Loop" Site Map.
Figure 289-2: Caved adit and small dump. Photo PB130026, View WNW

Figure 289-3: Prospect at WP#229, Photo PB130025, View E
8th Street Area, “Outer Loop”, IGS#B0289

BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID-0110-BO289

Site Feature - PROVIDE DIMENSIONS IN FEET.

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<th>Feature</th>
<th>Azimuth</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>L</th>
<th>W</th>
<th>Ht/Depth</th>
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<tr>
<td>225</td>
<td>Prospect, peg, deer carcasses</td>
<td>570028</td>
<td>4834700</td>
<td>4457</td>
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<td>Prospect, trench, peg</td>
<td>185</td>
<td>570007</td>
<td>4834703</td>
<td>4436</td>
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<td></td>
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<tr>
<td>227</td>
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<td>569665</td>
<td>4834145</td>
<td>4179</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>228</td>
<td>small prospect</td>
<td>569745</td>
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<td>229</td>
<td>v sm prospect</td>
<td>569957</td>
<td>4834198</td>
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<td>5</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Prospects, small dump, poss adit</td>
<td>569856</td>
<td>4834395</td>
<td>4317</td>
<td>40</td>
<td>15</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes: There are several barbed wire fences in the area. All these prospects are small and would probably not be noticed by the casual visitor. They are smaller than disturbed areas from abandoned roads. Also, there are disturbances in this area which may be related to fire fighting and subsequent flood control reclamation efforts after the 1996 8th Street Fire. Prior to the fire, these prospects were probably more difficult to see due to thicker brush in the area. Old roads, no longer accessible to vehicles, are along the ridges to the west. There are probably additional small prospects along these roads as suggested by disturbances visible on the photos.

Access: Drive up 8th Street approximately 4 miles past the end of the pavement. After going under the large powerline, there is a straight stretch then the road curves to the left and climbs steeply around a hill. Caved Adit #1 is visible from the road although difficult to pick out since the dump is overgrown. I had previously driven past this many times without noticing it. 4WD is recommended. The road has steep sandy areas and some moderate sized ruts.

INSPECTED BY: Dave Leppert    TITLE: Geologist    DATE: 11/13/03
INSPECTED BY: ___________________________ TITLE: ___________    DATE: ______

(03/95)
A. SITE IDENTIFICATION
   ID Number: ID-0110-BO290
   Site/Mine Name: Capital Group Primary Commodity: Unknown, Au?
   Alternate Names: ____________________________
   Site Name is x Historic ___ Assigned
   IGS Number: BO290

B. LOCATION DATA
   USGS Quad: Boise North LAT: ___ LONG: ___ OR
   UTM Coord: 4833540 N 569510 E Zone 11T AND
   Waypoint Number site location is based on: 232
   Township: 4N Range: 3E Section: 30 Subdivision: NWSE
   Meridian: Boise, 08 County: Ada, ID001
   Surface: BLM X / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM

C. ACCESS
   Visible from: Nearest road 2 / Trail ___ / Population center 0
   Access by: 2wd ___ / 4wd ___ / Hike X ___ / Other
   Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
   Road Log:
   Drive up 8th Street approx 4 miles. 2WD can probably make it but may have difficulty in some sections with loose sand on steep grades. Park near powerline and walk down to the Capital Group
   Recent human use: N Describe: ____________________________

D. SITE DESCRIPTION
   Acreage: <0.5 Elevation: 4020
   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)
   Closed adits ___ 0
   Closed shafts ___ 0
   Trenches ___ Length ___ / Prospects ___ / Open drill holes
   Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length
   Waste dumps: <0.1 ac ___ / Greater than 0.1, use long form
   USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES
   VEGETATION
   Vegetation: Healthy x ____ / Stressed ____ / Dead ____ / Nonexistent
   Evidence of natural revegetation: y ___ / Describe:
   Sagebrush, grasses. Area was burnt during the 1996 Foothills fire

   ANIMALS
   Evidence: ____ / Presence: ____ / Describe: ____________________________
8th Street Area, Capital Group, IGS#BO290
BLM AML INVENTORY ID Number: ID-0110-BO290

GEOLOGY  Granite with minor quartz
Staining of soils  no  Describe: 
Sulfide minerals  no  Type(s): 
Tailings: Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY
Type WP# pH Conductivity Flow (GPM) Temp, °F

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)
Use Long Form if Hazardous Materials Present

H. RECLAMATION
Use long form if reclamation required

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  _______Garmin______  Rover File name:  NA
Garmin _X_  No. of Waypoints ______2______Final WP #s __231, 232________

K. PHOTOGRAPHS  Digital _X_  Film ____
Number of photographs taken:  ______1____ File #s for digital ____PB130027____

L. ACTION
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

Photo Log:
Digital Photo File Number  Nearest Waypoint  Azimuth  Feature
PB130027  231 W  Pit, BO290

Field Notes:
This site is visible from 8th Street, but most people will not notice it. No quartz or other indications of mineralization were noted, though I later noticed some dump material with quartz and the small prospect around the corner when driving by the site. The dump is overgrown and indistinct.

Directions:
Drive up 8th Street. It is visible shortly after you pass the motorcycle/ATV unloading area. As you approach the powerlines, it is on your left. Park near the powerline tower and walk down the ridge about a hundred yards.

(03/95)
Include N Arrow, approximate scale, access and reference features.

Figure 250-1: Capital Group Site Map. Entire area is BLM administered land.
**8th Street Area, Capital Group, IGS#BO290**

BLM AML INVENTORY FIELD CHECKLIST  ID Number: ID-0110-BO290

---

**Figure 290-2: Capital Group from above. Photo PB1300027, View West**

<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/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>N. end of excavation</td>
<td>569509</td>
<td>4833588</td>
<td>4022</td>
<td>120</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>232</td>
<td>S. end of excavation</td>
<td>569510</td>
<td>4833540</td>
<td>4020</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert  TITLE: Geologist  DATE: 11/13/2003

INSPECTED BY:                        TITLE:                        DATE: (03/95)
A. SITE IDENTIFICATION
ID Number: **ID 0095-BO486**
Site/Mine Name: *Unnamed Prospect BO486* Primary Commodity: Unknown, Au?
Alternate Names: 
Site Name is Historic _X_ Assigned
IGS Number: **BO486**

B. LOCATION DATA
USGS Quad: *Robie Creek* LAT: ___________ LONG: ___________ OR
UTM Coord: **4834999** _N_ 570523 _E_ Zone 11T AND
Waypoint Number site location is based on: **220**
Township: **4N** Range: **3E** Section: **20** Subdivision: **NESW**
Meridian: Boise, 08 County: **Ada**
Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road _2_ / Trail ____ / Population center _0_
Access by: 2wd _X_ / 4wd ____ / Hike ____ / Other
Access disturbance in need of reclamation: Length ____ / Width ____ / Acres ____ Road Log: ___
Recent human use: _No_ Describe: ____________

D. SITE DESCRIPTION
Acreage: <0.01 Elevation: **4500’**
General slope (degrees): 0-10 ____ / 11-35 _X_ / >35
Floodplain: Disturbance in ____ / Adjacent to ____ / NA ____ X
Recent mineral activity No _X_ Describe: ____________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Closed adits _0_
Closed shafts _0_
Trenches ____ Length ____ ____ / Prospects _1_ / Open drill holes
Pits >30 ft. deep ____ / Pits <30 ft. deep ____ / Pit highwall length
Waste dumps: <0.1 ac ____ / Greater than 0.1, use long form
This was a very small prospect. It appears that this area was dozed more recently, probably during the 8th St. fire in 1996.
USE LONG FORM IF Open workings, Tailings, Equipment, Buildings, or hazardous materials are present.

F. ENVIRONMENTAL FEATURES
VEGETATION
Vegetation: Healthy _X_ / Stressed ____ / Dead ____ / Nonexistent
Evidence of natural revegetation: _y_ / Describe: ____________

ANIMALS
Evidence: _X_ / Presence: ____ / Describe: ____________
GEOLOGY  Granite country rock, minor Fe staining i.p.

Staining of soils  Describe:  
Sulfide minerals  Type(s):  
Tailings:  Use long form if tailings present

HYDROLOGY: Use long form if site requires sampling  DRY

<table>
<thead>
<tr>
<th>Type</th>
<th>WP#</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Temp, °F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G. POTENTIAL HAZARDOUS MATERIALS  (Provide numbers of features)  
Use Long Form if Hazardous Materials Present

H. RECLAMATION  
Use long form if reclamation required

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  
Garmin__X__ No. of Waypoints ______2______ Final WP #s ______________

K. PHOTOGRAPHS  Digital  Film  
Number of photographs taken: ______1____ File #s for digital __PB130019____

L. ACTION  
USE LONG FORM IF IMMEDIATE ACTION REQUIRED:

<table>
<thead>
<tr>
<th>Digital Photo File Number</th>
<th>Nearest Waypoint</th>
<th>Azimuth</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB130019</td>
<td>220</td>
<td>110</td>
<td>Disturbed Area, Fire trail also</td>
</tr>
</tbody>
</table>

Field Notes: This is a very small site with indistinct workings. Part of the hillside has a slight reddish Fe stain. Part of the disturbance may be related to fire fighting in 1996.

Access: Drive up 8th Street approximately 5 miles past the end of the pavement and watch for the small road on the left. 4WD recommended due to steep sandy areas and moderate sized ruts. Chunks of basalt have been placed to block vehicle access to the old road.

(03/95)
Include N Arrow, approximate scale, access and reference features.
Figure 486-2: Unnamed Prospect BO486, corrupted photo file, cropped at bottom. Note trenches in background dug for flood control in 1996. Photo PB130019, View ESE

<table>
<thead>
<tr>
<th>FinWP#</th>
<th>Feature</th>
<th>Easting</th>
<th>Northing</th>
<th>Elev</th>
<th>Length</th>
<th>Width</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>Disturbed Area, BO486</td>
<td>570523</td>
<td>4834999</td>
<td>4580</td>
<td>150</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>221</td>
<td>Heavy Fe staining</td>
<td>570405</td>
<td>4835040</td>
<td>4520</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSPECTED BY: Dave Leppert
INSPECTED BY: 
TITLE: Geologist
TITLE: 
DATE: 11/13/2003
DATE: (03/95)
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
   ID Number: ID-0110-BO7
   Site/Mine Name: Osborne
   Primary Commodity: Au Lode, 261
   IGS Number: BO7

B. LOCATION DATA
   USGS Quad: Horseshoe Bend
   LAT: _______ LONG: _______ OR
   UTM Coord: 486108 N 562350 E Zone 11T AND
   Based on WP #165
   Township: 7N Range: 2E Section: 33 Subdivision: NWNE
   Meridian: Boise, 08 County: Boise
   Surface: BLM / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
   Visible from: Nearest road __ / Trail ___ / Population center ___
   Access by: 2wd ___ / 4wd ___ / Hike ___ / Other
   Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
   Road Log: ___________________________________________________________
   Recent human use: No ___ Describe: ____________________________________

D. SITE DESCRIPTION
   Acreage: <2 Elevation: 2800-3000
   General slope (degrees): 0-10 ___ / 11-35 ___ / >35 ___
   Floodplain: Disturbance in ___ / Adjacent to ___ / NA
   Recent mineral activity: No ___ Describe: ______________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
   Open adits ___ / Closed adits ___ / Open inclines ___ / Closed inclines ___
   Open shafts ___ / Closed shafts ___ / Stopes ___
   Other openings ___ Type ______________________________
   Trenches ___ Length ___ / Prospects ___ / Open drill holes ___
   There probably were additional adits based on the dumps, but locations were not apparent
   due to sloughing and vegetation. At least 3 adits are described in the literature (Anderson,
   1934).
   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 ___ , ___
   Mill/equipment foundations, no equipment present
   Explosives ___ Describe: _____________________________________________
   Equipment/Machinery ___ / Headframes ___ / Trestles/tramways
   Powerlines
   Structures ___ Type ______________________________
   Condition: Good ___ / Fair ___ / Poor ___ / Number Locked
   Homesites

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F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed ___ / Dead ___ / Nonexistent
Evidence of natural revegetation: ___ / Describe: Brush, grasses on dumps and disturbed areas. Some areas barren

ANIMALS
Evidence: y / Presence: y / Describe: Deer

GEOLOGY Granite with quartz veins, tr sulfides (dark gray, unidentified).
Staining of soils ___ Describe: _____________________________
Sulfide minerals ___ Type(s): _____________________________
Tailings: Confined ___ / Unconfined ___ / Unknown

INSPECTION OF ORTHOPHOTOS SUGGESTS NW TRENDING FAULTS CUT THE AREA

HYDROLOGY Entire site was dry

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

Adjacent water sources:

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

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)
West View District, Osborne Mine, IGS#BO7

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 small pile of apparent tailings is a potential environmental hazard (Table BO7-1, below). It is within an intermittent drainage and contains elevated levels of gold, arsenic, sulfur and several heavy metals.

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
Garmin  _____ Rover File name: NA
Waypoints 162 through 191

K. PHOTOGRAPHS
Number of photographs taken: 12, File #s PA230007 thru 18

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

(03/95)
Figure BO7-1: Osborne Mine Location Map. Area is in T7N, R2E. Ownership boundaries approximate, yellow is BLM administered lands, white is private, blue is State lands.
Figure B07-2: Osborne Site Map. Most dumps are not outlined to avoid clutter. Note there were probably additional adits, especially associated with dump #3, but locations could not be determined due to sloughing and overgrowth.
Figure BO7-3: Overview of main shaft area from above. Highway and Payette River at upper right. Photos PA230016 and PA230017, View NW

Figure BO7-4: Shaft, caved. Photo PA230008, View North
Figure B07-5: View of upper workings. Dump with tailings (light color) in center with additional workings above, to the left (north) of the road and drainage. Photo PA230013, View NE.
Table BO7-1: Analytical data for the apparent tailings pile at the Osborne. Note the elevated concentrations of gold, arsenic, sulfur and several heavy metals. The sulfur content suggests some potential for the formation of acid, though the site was dry at the time of the visit.
**West View District, Osborne Mine, IGS#BO7**

BLM AML INVENTORY FIELD CHECKLISTID Number: ID-0110- BO7

### 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</th>
<th>W</th>
<th>Ht/Dep</th>
</tr>
</thead>
<tbody>
<tr>
<td>162</td>
<td>Gate, steel, locked</td>
<td>562097</td>
<td>4861776</td>
<td>2684</td>
<td>8</td>
<td>12</td>
<td>6</td>
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<tr>
<td>163</td>
<td>Conc Eqpt Found #1</td>
<td>562351</td>
<td>4861639</td>
<td>2759</td>
<td>8</td>
<td>12</td>
<td>6</td>
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<tr>
<td>164</td>
<td>Conc Eqpt Found #2</td>
<td>562355</td>
<td>4861621</td>
<td>2781</td>
<td>15</td>
<td>6</td>
<td>2</td>
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<tr>
<td>165</td>
<td>Shaft, caved, W side</td>
<td>562350</td>
<td>4861608</td>
<td>2787</td>
<td>20</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>166</td>
<td>Conc Eqpt Found #3</td>
<td>562343</td>
<td>4861592</td>
<td>2782</td>
<td>20</td>
<td>10</td>
<td>2</td>
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<tr>
<td>167</td>
<td>Dump #1, upper edge</td>
<td>562318</td>
<td>4861582</td>
<td>2796</td>
<td>50</td>
<td>40</td>
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<tr>
<td>168</td>
<td>Road, contours</td>
<td>562328</td>
<td>4861572</td>
<td>2765</td>
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<tr>
<td>169</td>
<td>Road</td>
<td>562310</td>
<td>4861536</td>
<td>2774</td>
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<tr>
<td>170</td>
<td>Dump #2, east edge</td>
<td>562305</td>
<td>4861616</td>
<td>2763</td>
<td>150</td>
<td>70</td>
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<tr>
<td>171</td>
<td>Dump #2, west end</td>
<td>562253</td>
<td>4861584</td>
<td>2730</td>
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<tr>
<td>172</td>
<td>Trench #1, N end</td>
<td>562334</td>
<td>4861634</td>
<td>2764</td>
<td>100</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>173</td>
<td>Upper Road, contours above mill</td>
<td>562368</td>
<td>4861626</td>
<td>2790</td>
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<tr>
<td>174</td>
<td>Junction with main road</td>
<td>562430</td>
<td>4861665</td>
<td>2765</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>175</td>
<td>Road</td>
<td>562517</td>
<td>4861692</td>
<td>2794</td>
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<tr>
<td>176</td>
<td>Road</td>
<td>562585</td>
<td>4861723</td>
<td>2841</td>
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<tr>
<td>177</td>
<td>Disturbed Area #3</td>
<td>562597</td>
<td>4861697</td>
<td>2860</td>
<td>80</td>
<td>40</td>
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<tr>
<td>178</td>
<td>End of Road</td>
<td>562552</td>
<td>4861670</td>
<td>2868</td>
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<td>100</td>
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<td>179</td>
<td>Road Junction</td>
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<td>4861748</td>
<td>2895</td>
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<tr>
<td>180</td>
<td>Road</td>
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<td>4861761</td>
<td>2912</td>
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<tr>
<td>181</td>
<td>Dump #4, Tailings #1</td>
<td>562762</td>
<td>4861798</td>
<td>2923</td>
<td>40</td>
<td>20</td>
<td>10</td>
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<tr>
<td>182</td>
<td>Dump #5, parallel road</td>
<td>562772</td>
<td>4861807</td>
<td>2910</td>
<td>40</td>
<td>20</td>
<td>8</td>
</tr>
<tr>
<td>183</td>
<td>Disturbed Area #2, top</td>
<td>562758</td>
<td>4861865</td>
<td>2978</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>184</td>
<td>Trench #2, bottom disturbed</td>
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<td>Adit #1</td>
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<td>Dump #6</td>
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<td>187</td>
<td>Road, good w/sage</td>
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<td>2853</td>
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<td>188</td>
<td>Road, cont from above</td>
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<td>4861585</td>
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<td>189</td>
<td>Trench #3, S end adjacent to road</td>
<td>562363</td>
<td>4861664</td>
<td>2725</td>
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<td>Road</td>
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<td>4861660</td>
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West View District, Osborne Mine, IGS#BO7

Field Notes: This area probably gets occasional use by hunters. The larger dump at the base of the property is visible from the highway. Most of the property is covered with fairly large sagebrush. The extent of overgrowth makes it difficult to determine where adits were, though the larger dumps must have had adits or shafts associated with them. The location of the small tailings pile seems anomalous since it is significantly above what apparently was the main processing area near the base where there are numerous concrete equipment foundations remaining. Possibly it was from an older mill? Old roads in the area are overgrown and it is not always clear what is an overgrown road vs. a possible exploration trench. “Trench #3” may actually be part of an old road. Two areas listed as “disturbed areas” have numerous small heaps and cuts but do not appear to contain significant workings. One road came to a deadend (WP 179), the logical site for an adit, but the dump area wasn’t much bigger than you would expect from road construction.

Access: Drive approximately one mile west of Horseshoe Bend on Hwy 52. Park at the locked steel gate on the south side of the road, just past where the steep hillside ends. Walk up the road to the Osborne.

INSPECTED BY: Dave Leppert TITLE: Geologist DATE: 10/23/2003

Reference:

West View District, Osborne Mine, IGS#BO7
BLM AML INVENTORY FIELD CHECKLIST    ID Number: ID-0110- BO7
PHOTO LOG    IGS:______

Fill out the following for each photo:  Digital Photos

<table>
<thead>
<tr>
<th>File Number</th>
<th>Nearest WP</th>
<th>Azimuth</th>
<th>Location/Feature</th>
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<tr>
<td>PA230007</td>
<td>163</td>
<td>S</td>
<td>Equipment Foundation #1</td>
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<tr>
<td>PA230008</td>
<td>165</td>
<td>N</td>
<td>Shaft and Equipment Foundation #2</td>
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<td>PA230009</td>
<td>166</td>
<td>NNE</td>
<td>Equipment Found. #3, Shaft, Found #2</td>
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<td>PA230010</td>
<td>169</td>
<td>N</td>
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<td>N</td>
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<td>PA230012</td>
<td>177</td>
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<td>Dump #3 from above</td>
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<td>PA230013</td>
<td>181</td>
<td>55</td>
<td>Dump #4 with tailings, Dumps 5 and 6 behind</td>
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<td>PA230014</td>
<td>182</td>
<td>NA</td>
<td>Tailings closeup</td>
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<td>184</td>
<td>E</td>
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<td>PA230016</td>
<td>190</td>
<td>NW</td>
<td>Site overview, main shaft area, with 17</td>
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<td>PA230017</td>
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<td>NW</td>
<td>Site overview from above, main shaft area</td>
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<td>PA230018</td>
<td>162</td>
<td>S</td>
<td>Gate at parking area</td>
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West View District, Osborne Mine, IGS#B07
BLM AML INVENTORY
SUPPLEMENTAL OFFICE DATA SHEET

ID Number: ____________

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: ____________________________
__________________________ ____________________________
__________________________ ____________________________
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(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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(03/95)