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

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

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

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1999

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GEOLOGY

The Croesus Gulch area (Figure 1) is underlain by quartz diorite of Cretaceous age which, in this area, intruded into the Pennsylvanian and Permian Dollarhide Formation and the Devonian Milligen Formation. The Croesus stock is a gray, medium-grained, equigranular pyroxene-hornblende-biotite quartz diorite (Schmidt, 1962). Sedimentary units in the surrounding area also include the Devonian Milligen Formation and the Wood River Formation of Pennsylvanian and Permian age (Worl and others, 1991).

The Croesus Mine was discovered around 1881, but little work was done on the property until 1895 (Anderson and others, 1950). Descriptions of the deposit can be found in Lindgren (1900), Umpleby and others (1930), and Anderson and others (1950). The Keystone Mine, which is most likely the workings at Site 13 (Upper Croesus Gulch workings), was also discovered in the early days, and most of the production from the property came between 1883 and 1908 (Umpleby and others, 1930; Anderson and others, 1950). Mineral deposits in the surrounding area are discussed in Link and others (1995), and Worl and Johnson (1995).

HAZARD ASSESSMENT

SUMMARY

Three groups of mine workings are located in Croesus Gulch. The most serious hazards are physical safety problems at Site ID-0054-00014, the Croesus and Hope Mines. All three properties are easy to reach from the road up the gulch (Figure 1). The Croesus Gulch road connects to the Croy Creek road west of Hailey. Numerous houses and several new subdivisions have recently been built in the Croy Creek valley, and building is continuing into the side valleys, including Croesus Gulch. A new residence is adjacent to the Hope Mine, and grading has been done to prepare the site for a new home at the head of Croesus Gulch and adjacent to Site ID-0054-00013 (Keystone Mine). Because of the high probability that residents of this area, including young children, will explore these old mines, the open adits, open stope, and the large hole where the Croesus Shaft has collapsed must be considered as serious hazards. No significant environmental hazards were noted in the Gulch.

SITE ID-0054-00013: UPPER CROESUS GULCH WORKINGS
KEYSTONE MINE (HA-359)
Rover File: R060416a

The workings at what is most likely the Keystone Mine in Upper Croesus Gulch are caved, and most of the adits are closed, although Adit 4 has a 1-foot-high opening. The line of adits lies across a gully and uphill from where the house is being built, so it is unlikely that the workings extend under the construction site. However, future developers should consider the locations of the old mine workings when choosing where to build.
Figure 1. Location map of the Croesus Gulch area near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Fairfield 30x60-minute quadrangle, scale 1:100,000).
Table 1. Summary of sites in the Croesus Gulch area, Blaine County, Idaho. Site name in **bold** indicates property has one or more significant potential environmental or physical hazards. Under “Environmental Hazards”: T = a mill tailings problem, D = dump material in or near waterway, WQ = potentially poor water quality. Under “Physical Hazards” – Features: A = adit, P = prospect pit, S = shaft, St = stope; Condition: O= open, C = Caved. ? = Unknown (condition or number).

<table>
<thead>
<tr>
<th>BLM Site Number (Corrected GPS Data File)</th>
<th>IGS Property Number</th>
<th>Mine Name</th>
<th>Environmental Hazard</th>
<th>Physical Hazard</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-0054-00013 (R060416a.cor)</td>
<td>HA 359</td>
<td>Keystone Mine, Upper Croesus Gulch Workings</td>
<td>1AO 3AC 2P</td>
<td>Secure the open adit.</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00014 (HA354.cor)</td>
<td>HA 354 HA 356</td>
<td>Croesus Mine Hope Mine</td>
<td>3AO 1AC 1SC 1StO 2P</td>
<td><strong>Dangerous.</strong> Close/gate Adits 3 and 4, and Stope 1 especially. Secure other open workings; fill in shaft area; educate residents of dangers associated with old mines.</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00015 (R060521a.cor)</td>
<td>HA 354a</td>
<td>Croesus Mine, upper workings (?)/Arkoosh (?)</td>
<td>1AO? 4AC</td>
<td>Secure the openings above adit portals; post “No Trespassing” signs.</td>
<td></td>
</tr>
</tbody>
</table>
The Croesus and Hope Mines (Site ID-0054-00014) contain several physical safety hazards which should be corrected as soon as possible. Clarification of the land ownership may be needed first. Shaft 1 has caved and is now a large, steep-walled, cone-shaped hole on the east side of Croesus Gulch. The hole should be filled and fenced. There is abundant waste rock in the nearby dump to fill the shaft and completely close Adit 2. Adit 4 is also open. It is hidden by brush, but is next to the main road and an old drill hole shown on the topographic map. The adit should be bulldozed shut. The concrete walls left from the old mill could also be hazardous, but are clearly visible from a distance. They pose fewer hazards than an open adit.

Adit 3, which is part of the Hope Mine, is on the west side of Croesus Gulch and only a short distance from the house. This adit is wide open and has been recently entered. Another opening, Stope 1, is located nearby. It is a 1-foot diameter hole in the ground on the “dozed dump” in front of Adit 3. Historical records suggest that either or both of these openings may connect to the Hope Shaft, which was in this area. Anderson and others (1950, p. 28) describe the Eclipse mine as “across the gulch west of the Croesus,” and having a shaft just above the gulch with a short drift to the side of the shaft. It is possible that Stope 1 is actually an old, partially collapsed shaft. Regardless, both Adit 3 and Stope 1 are very dangerous and should be closed permanently. The owner of the house a short distance from Adit 3 knew that this was the Hope mine, and he said he had a mine or claim further up the hill. However he seemed to have little knowledge of the dangers of old mine areas.

The workings of Site ID-0054-00015 are prominently located on the hills east of the lower end of Croesus Gulch. Umpleby and others (1930, Plate 9) shows claims of the Croesus group on both sides of the tributary gulch where these workings are located. Thus, it is believed these adits are associated with the Croesus Mine. However, the Arkoosh Group (Hailey Mines and Prospect database) is also shown in this general vicinity. A good road goes up to the main level (Adit 3), where an old compressor is parked. The adit was caved, but a small hole just above the adit (Stope 2) is open. It should be closed. Adit 5, which has water flowing from it, should be examined more closely to determine if it can be entered. If necessary, the wood portal could be removed and additional measures taken to secure the adit. These adits appear to have been worked more recently than the others in Croesus Gulch. The owner should post “No Trespassing” signs and consider installing a gate across the access road.
REFERENCES


REFERENCES


SITE INSPECTION REPORTS FOR MINES IN THE CROESUS GULCH AREA
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST
R060416a 6-4-98 10:30am

A. SITE IDENTIFICATION
ID Number: 1D00540013 Site/Mine Name: Upper Croesus Gulch Workings Primary Commodity: Pb Ag Au Cu
IGS Number: May be Keystone Mine (HA-359) and real estate

B. LOCATION DATA
USGS Quad: Bellevue 7 1/2' LAT: LONG: OR
UTM Coord: 4816036 N 715151 E Zone 11 AND
Township: 2N Range: 18E Section: 32 Subdivision: NWNW
Meridian: 08 County: 013
Surface: BLM X / Non-BLM Mineral Estate: BLM / Non-BLM

C. ACCESS
Visible from: Nearest road x / Trail / Population center
Access by: 2wd x / 4wd / Hike / Other
Access disturbance in need of reclamation: Length / Width / Acres
Road Log: Located at end of improved road up Croesus Gulch.

Recent human use: x Describe: Currently drilling water well for new home site.

D. SITE DESCRIPTION
Acreage: Elevation:
General slope (degrees): 0-10 / 11-35 x / >35
Floodplain: Disturbance in / Adjacent to x / NA
Recent mineral activity Describe:

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 3 / Open inclines / Closed inclines
Open shafts / Closed shafts / Stopes
Other openings Type
Trenches Length / Prospects 2 / Open drill holes 1 - water well drilling

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

Ponds / Dams
Mills Type
Explosives Describe:
Equipment/Machinery Type / Headframes / Trestles/tramways
Powerlines
Structures 1 Type Soon to be constructed.
Condition: Good / Fair / Poor / Number Locked
Homesites x Under construction
Other: minor scrap metal
F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: ____ / Presence: ____ / Describe: _________________________________

GEOLOGY
Staining of soils Trace **Describe: Bedrock is diorite, weathers brown due to weak iron.**
Sulfide minerals ____ Type(s): ________________
Tailings: Confined ____ / Unconfined ____ / Unknown ____

HYDROLOGY
<table>
<thead>
<tr>
<th>Water flowing from workings:</th>
<th>pH</th>
<th>Conductivity</th>
<th>Flow (GPM)</th>
<th>Sketch #</th>
</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:
| Ground water: | pH | Conductivity | Flow (GPM) | Distance | Sketch # |
|---------------|----|--------------|------------|----------|
| Surface water: |    |              |            |          |
| Surface H2O above site: |    |              |            |          |
| Surface H2O below site: |    |              |            |          |

Evidence of aquatic life: ____ Location: ____________ Describe: ____________________________

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

Samples collected: ____ Sketch #(s): __________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

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

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

Other: ________________

(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
- Other:

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

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

J. GLOBAL POSITIONING SYSTEM DATA yes
Rover File name: R060416a

K. PHOTOGRAPHS
Number of photographs taken: 4 Roll 98-1 (neg. 3846), # 1a-4a.

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

Reason:

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit 1</td>
<td></td>
<td></td>
<td></td>
<td>Caved, with rail</td>
</tr>
<tr>
<td>Dump 1</td>
<td>60</td>
<td>40</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Adit 2</td>
<td></td>
<td></td>
<td></td>
<td>Caved, no photo</td>
</tr>
<tr>
<td>Dump 2</td>
<td>60</td>
<td>60</td>
<td>10</td>
<td>Some quartz vein/breccia in altered diorite.</td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td>Caved, in quartz-veined diorite.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>60</td>
<td>30</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Adit 4</td>
<td>1'x1'</td>
<td></td>
<td>OPEN 1'x1', see photo 4.</td>
<td></td>
</tr>
<tr>
<td>Dump 4</td>
<td>30</td>
<td>60</td>
<td>3</td>
<td>Includes adjacent prospect.</td>
</tr>
</tbody>
</table>

**Field Notes:**

From Adit 4, one can see an additional 11 dumps/adits on west side of Croesus Creek gulch.

Adit 4 could be easily closed, but there is minimal danger as opening is small. However, because of the new homesite or sites under construction, all open workings in Croesus Gulch should be closed. It is possible that underground workings underlie the homesite, which presumably is on private property.

SEE SKETCH MAP ON FOLLOWING PAGES.

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INSPECTED BY: V. Gillerman, M. Dunn

TITLE: IGS

DATE: June 4, 1998
Figure 13-1. Site 13: Topographic map of the Upper Croesus Gulch, Workings, Blaine County, Idaho (U.S. Geological Survey, Bellevue 7.5 minute topographic map).
Figure 13-2. Site 13: Sketch map of the Upper Croesus Gulch - Unnamed Workings, Blaine County, Idaho. By V.S. Gillerman.
Fill out the following for each photo:

<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-1</td>
<td>1a</td>
<td>220</td>
<td>Adit 1: caved with rail and fallen tree in front.</td>
</tr>
<tr>
<td>(neg. 3846)</td>
<td>2a</td>
<td>270</td>
<td>Home site &amp; water well drill just down from Adit 1.</td>
</tr>
<tr>
<td></td>
<td>3a</td>
<td>90</td>
<td>Adit 3: caved with field assistant, Mike Dunn.</td>
</tr>
<tr>
<td></td>
<td>4a</td>
<td>50</td>
<td>Adit 4: opening is 1 foot high.</td>
</tr>
</tbody>
</table>
A. SITE IDENTIFICATION
Other BLM ID Number: ____________________________
Locatable ______ / Leasable ______ / Salable ______
Operator (last known): ____________________________
Commodities: Primary ____________________________ / Secondary ____________________________
Other Agency ID Number: ____________________________ Agency: ______

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

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

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

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

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

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

Monitoring frequency: ________ Dates of monitoring visits: ____________________________

(NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
Figure 13-3. Site 13: Adit 1, caved with rail and fallen tree in front. Picture is looking to 220 degrees azimuth (Roll 98-1, neg. #3846, frame #1a; photograph by V. S. Gillerman; June 4, 1998).

Figure 13-4. Site 13: Home site and water well drill just down from Adit 1. Picture is looking due west across Gulch (Roll 98-1, neg. #3846, frame #2a; photograph by V. S. Gillerman; June 4, 1998).
Figure 13-5. Site 13: Adit 3: caved with field assistant, Mike Dunn. Picture is looking to east (Roll 98-1, neg. #3846, frame #3a; photograph by V. S. Gillerman; June 4, 1998).

Figure 13-6. Site 13: Adit 4: opening is 1 foot high, near the left foot of Mike Dunn. Picture is looking to northeast (Roll 98-1, neg. #3846, frame #4a; photograph by V. S. Gillerman; June 4, 1998).
A. SITE IDENTIFICATION
ID Number: 1 D 0 0 5 4 0 0 0 1 4
Site/Mine Name: Croesus/Hope mine
Primary Commodity: Cu-Zn-Ag-Pb-Au
IGS Number: HA-354 (Croesus)

B. LOCATION DATA
USGS Quad: Bellevue
LAT: _____ LONG: _____ OR
UTM Coord: 4816628 N 714613 E Zone 11
Township: 2N Range: 18E Section: 30 Subdivision: SWSW
Meridian: 08 County: 013
Surface: BLM / Non-BLM ___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ / Trail ___ / Population center ___ (house)
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Drive up road in Croesus Gulch, go past house, then turn left.

Recent human use: ___ Describe: Nice, new inhabited home across the road with tire tracks in driveway.

D. SITE DESCRIPTION
Acreage: _____ Elevation: _____
General slope (degrees): 0-10 ___ / 11-35 ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___
Recent mineral activity ___ Describe: Worked until 1940

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 ? ___ . Concrete foundation is all that is left. Polymetallic sulfides, so probably flotation? Gravity?
Explosives ___ Describe:
Equipment/Machinery ___ / Head frames ___ / Trestles/tramways ___
Powerlines ___
Structures ___ Type ___ Mill foundation, new house, and old shack near lower adit ___
Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___

Homesites ___
Other: _____

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F. ENVIRONMENTAL FEATURES

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

ANIMALS
Evidence: Presence: Describe: Scat

GEOLOGY
Staining of soils Describe: Rock is altered diorite, with some iron oxide, vein quartz.
Sulfide minerals Type(s): Chalcopyrite, pyrrhotite, sphalerite seen on dump
Tailings: Confined / Unconfined / Unknown Not seen

HYDROLOGY
Water flowing from workings: pH Conductivity Flow (GPM) Sketch #
Standing water in workings: 
Water through/over tailings: 
adjacent to* waste rock: 
adjacent to* ore:
Adjacent water sources:
Ground water: 
Surface water: 
Surface H2O above site: 
Surface H2O below site: 
Evidence of aquatic life: Location: Describe:
Water bed color: White / Yellow / Yellow-Orange / Orange 
Brown / Green / Grey-Black / Other 
Samples collected: Sketch #(s):

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

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

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

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

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

OPTIONAL: Identify the critical reclamation measures needed:

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

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

J. GLOBAL POSITIONING SYSTEM DATA Yes Rover File name: HA 354

K. PHOTOGRAPHS
Number of photographs taken: 12 photos, Roll 98-1 (neg. 3846), frames # 5a-16a

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

Reason: ______________________________________

____________________________________________

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft 1</td>
<td>40'</td>
<td>dia</td>
<td>40'</td>
<td>Coned and dangerous. Should fence or fill.</td>
</tr>
<tr>
<td>Adit 1/Dump 1</td>
<td></td>
<td></td>
<td></td>
<td>Caved</td>
</tr>
<tr>
<td>Adit 2/ Dump2</td>
<td>100</td>
<td>40</td>
<td>20'</td>
<td>OPEN ~6&quot; w/rails. Should close totally.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>200</td>
<td>100</td>
<td>25</td>
<td>From Shaft 1</td>
</tr>
<tr>
<td>Stope 1</td>
<td>4'</td>
<td>1'</td>
<td></td>
<td>OPEN 1' and near road. Should close.</td>
</tr>
<tr>
<td>Adit 3</td>
<td>50'+open</td>
<td>6'</td>
<td></td>
<td>OPEN and very near home. Close ASAP.</td>
</tr>
<tr>
<td>Dump - for Adit 3</td>
<td>Was 20</td>
<td>Was 50</td>
<td>5</td>
<td>Partially dozed off.</td>
</tr>
<tr>
<td>Shed- partly collapsed</td>
<td></td>
<td></td>
<td></td>
<td>Below mill in brush. OK as is.</td>
</tr>
<tr>
<td>Mill site</td>
<td>perimeter</td>
<td>1</td>
<td></td>
<td>Concrete foundation, walls 8' high. Fence?</td>
</tr>
<tr>
<td>Adit 4 near creek</td>
<td>80'+</td>
<td>5'</td>
<td>5'</td>
<td>OPEN, Brushy and dangerous. Close.</td>
</tr>
</tbody>
</table>

**Field Notes:**

See next page.

---

**INSPECTED BY:** Mike Dunn  
**TITLE:** IGS Geologist  
**DATE:** 6-4-98

**INSPECTED BY:** Virginia Gillerman  
**TITLE:** IGS Geologist  
**DATE:** 6-4-98
Field Notes for HA-354: Croesus / Hope Mine

Labeled as both the Hope Shaft and the Croesus mine, the major working is Shaft 1, which has collapsed. The shaft has coned in to form a large steep-walled hole (see Figure 14-3) with dirt and rubble at the bottom. It is unknown how solid the dirt is at the bottom of the shaft hole. The sides are caved in and loose dirt lies at the angle of repose. The shaft pad is easily accessed by a trail, and the hole is dangerous for small children. An old brick foundation is collapsing into the shaft. A large dump covers the whole shaft area. From the description of Anderson and others (1950), this main shaft is most likely the Croesus shaft, a vertical three-compartment shaft some 800 feet deep.

Adit 1 is just uphill from the concrete mill foundation above the main Croesus Gulch road. Miscellaneous bricks, rusted iron pipe, cable, and metal scraps are nearby. Adit 2 is partly open and could tempt a kid.

Adit 3 and Stope 1 are located on the southwest side of Croesus Gulch, approximately 500 feet from the homesite. The homeowner, who appeared to have small children, said that Adit 3 was the actual Hope Mine. The adit is wide open and a recent beer can was seen inside (Figure 14-10). Stope 1 is a small opening near the road and adit. While the rock around Adit 3 was in fair shape, the area must be considered very dangerous given its proximity to the home. The openings should be closed permanently or gated as soon as possible to prevent any exploration by inquisitive children. From the description in Anderson and others (1950, p. 28), it is possible that Adit 3 belongs to the Eclipse mine "across the gulch west of the Croesus." He notes that it has a two-compartment shaft just above the gulch bottom, with a short drift to the side of the shaft. It is possible that the Stope 1 is part of a shaft, which would make it even more dangerous.

Adit 4 is hidden by brush near the creek and main road. It is open and the portal has a 15' high wall over the opening. It also should be closed.

The Mill is gone except for 8' high concrete walls on several levels down the hill. Because of the accessibility to children, the mill site should be considered dangerous. Miscellaneous rusted iron pieces, nails, bolts, and equipment scraps are scattered around the mill site. However, a tailings pile was not seen, though it was looked for. Any tailings may have gone into the creek and transported off a long time ago, or they may have been incorporated into the roadbed or an odd-looking dump or stockpile next to the road across from Adit 4.

In summary, the Croesus Mine area contains several physical safety hazards which should be remediated soon due to the existing homesite and the one under construction in upper Croesus Gulch. The precise land ownership may need to be clarified first. Judging from our brief conversation with the homeowner, he seemed oblivious to the dangers and liabilities which the old mine workings could pose. The shaft area should be dozed in if possible and fenced and posted. The open adits and stope, especially Adit 3 and Stope 1, should be closed completely or securely gated. Dangers posed by the mill foundation walls are harder to rectify without tearing down the walls, an expensive venture. At least, the residents should be alerted and educated about the dangers and liabilities of the area.
Figure 14-1. Site 14: Topographic map of the Croesus and Hope Mines, Blaine County, Idaho (U.S. Geological Survey, Bellevue 7.5 minute topographic map).
BLM AML INVENTORY FIELD CHECKLIST
PHOTO LOG

ID Number: 00014

6-23-98

Fill out the following for each photo:

<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-1</td>
<td>5a</td>
<td>320</td>
<td>Shaft 1, caved and coned in with bricks collapsing into hole.</td>
</tr>
<tr>
<td>(Neg. 3846)</td>
<td>6a</td>
<td>110</td>
<td>Adit 1, caved</td>
</tr>
<tr>
<td></td>
<td>7a</td>
<td>300</td>
<td>Dump 1 with mill site foundations near road.</td>
</tr>
<tr>
<td></td>
<td>8a</td>
<td>50</td>
<td>Adit 2</td>
</tr>
<tr>
<td></td>
<td>9a</td>
<td>240</td>
<td>Dump 2, with Adit 3 visible and open on west side of gulch in distance.</td>
</tr>
<tr>
<td></td>
<td>10a</td>
<td>310</td>
<td>Dump 3 for Shaft 1</td>
</tr>
<tr>
<td></td>
<td>11a</td>
<td>250</td>
<td>Adit 3, open on dump with new house 500' away.</td>
</tr>
<tr>
<td></td>
<td>12a</td>
<td>140</td>
<td>Stope 1 with 1' opening, by dump near house.</td>
</tr>
<tr>
<td></td>
<td>13a</td>
<td>270</td>
<td>Adit 3, wide open with beer can inside. May be the Hope mine?</td>
</tr>
<tr>
<td></td>
<td>14a</td>
<td>140</td>
<td>Mill foundation</td>
</tr>
<tr>
<td></td>
<td>15a</td>
<td>90</td>
<td>Adit 4, open.</td>
</tr>
<tr>
<td></td>
<td>16a</td>
<td>210</td>
<td>Mill close-up with 5 sets of 8-10' high walls.</td>
</tr>
</tbody>
</table>
Figure 14-2. Site 14: Shaft 1 of Croesus Mine, caved and coned in with bricks collapsing into hole. Picture is looking to northwest (Roll 98-1, neg. #3846, frame #5a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-3. Site 14: Adit 1 of Croesus Mine, caved. Picture is looking to east southeast (Roll 98-1, neg. #3846, frame #6a; photographed by V. S. Gillerman; June 4, 1998).
Figure 14-4. Site 14: Dump 1 of Croesus Mine with mill site foundations near road. Picture is looking to northwest (Roll 98-1, neg. #3846, frame #7a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-5. Site 14: Adit 2 of Croesus Mine with field geologist Mike Dunn. Picture is looking to northeast (Roll 98-1, neg. #3846, frame #8a; photographed by V. S. Gillerman; June 4, 1998).
Figure 14-6. Site 14: Dump 2 of Croesus Mine with Adit 3 visible and open on west side of gulch in distance. Picture is looking to southwest (Roll 98-1, neg. #3846, frame #9a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-7. Site 14: Dump 3 for Shaft 1 of Croesus Mine. Picture is looking to northwest (Roll 98-1, neg. #3846, frame #10a; photographed by V. S. Gillerman; June 4, 1998).
Figure 14-8. Site 14: Adit 3, Hope/Croesus Mine, open on dump with new house 500 feet away. Picture is looking to west southwest across Croesus Gulch (Roll 98-1, neg. #3846, frame #11a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-9. Site 14: Stope 1, Hope/Croesus Mine, with 1-foot opening, by dump near house. Picture is looking to southeast (Roll 98-1, neg. #3846, frame #12a; photographed by V. S. Gillerman; June 4, 1998).
Figure 14-10. Site 14: Adit 3, Hope/Croesus Mine, wide open with beer can inside. May be the Hope mine? Picture is looking to west (Roll 98-1, neg. #3846, frame #13a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-11. Site 14: Mill foundation of Croesus Mine. Picture is looking to southeast, from road in Croesus Gulch (Roll 98-1, neg. #3846, frame #14a; photographed by V. S. Gillerman; June 4, 1998).
Figure 14-12. Site 14: Adit 4 of Croesus Mine, open. Picture is looking to east (Roll 98-1, neg. #3846, frame #15a; photographed by V. S. Gillerman; June 4, 1998).

Figure 14-13. Site 14: Mill close-up at Croesus Mine with 5 sets of 8-10 foot high walls. Picture is looking to southwest (Roll 98-1, neg. #3846, frame #16a; photographed by V. S. Gillerman; June 4, 1998).
A. SITE IDENTIFICATION
ID Number: I D - 0 0 5 4 - 0 0 0 1 5
Site/Mine Name: Arkoosh group ?? Primary Commodity: Ag Pb 540, 340
IGS Number: HA-358 ?? (Visible from road and near home. May be mostly patented,
Not sure if this is Arkoosh. May be part of Croesus mine.
R060521a)

B. LOCATION DATA
USGS Quad: Bellevue Quad LAT: _______________ LONG: _______________
UTM Coord: 481886 N 714619 E Zone 11 AND
Township: 2N Range: __________ Section: 29 Subdivision: SWNW
Meridian: __________ County: 013
Surface: BLM ___ / Non-BLM___ Mineral Estate: BLM ___ / Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ easy / Trail ___ / Population center ___
Access by: 2wd ___ / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Road goes up to NW off lower Croesus Gulch road.

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

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / Closed adits ___ / Open inclines ___ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stopes ___ shallow ___
Other openings ___ Type ___
Trenches ___ Length ___ Prospects ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___
Mills ___ Type ___ ___ ___
Explosives ___ Describe: ___
Equipment/Machinery ___ large yellow air compressor ___ / Headframes ___ /
Trestles/frameways ___ ore loading dock ___
Powerlines ___
Structures ___ Type ___
Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___
Homesites ___ but one is nearby.
Other: Packrat remains and nests are abundant inside the buildings.
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy X / Stressed / Dead / Nonexistent
Evidence of natural revegetation: X / Describe: Usual desert/sage species
Normal shrub steppe

ANIMALS
Evidence: X / Presence: No / Describe: deer tracks

GEOLOGY
Staining of soils Yes Describe: Minor FeOx, quartz
Sulfide minerals Type(s):
Tailings: Confined / Unconfined / Unknown

HYDROLOGY
Water flowing from workings: 1
pH 7.0 Conductivity 160 Flow (GPM) 8-10 Sketch # Adit 5
Standing water in workings:
Water through/over tailings: 0
Waste rock: X Swampy, but water looked fine at Adit 5
ore:
Adjacent water sources: Type pH Conductivity Flow (GPM) Distance
Ground water:
Surface water:
Surface H2O above site:
Surface H2O below site:
Evidence of aquatic life: X Location: Adit 5 swamp Describe: Stream and swamp has very healthy water plants, flies, ants at Adit 5.
Water bed color: White / Yellow / Yellow-Orange / Orange / Brown X / Green / Grey-Black / Other
Samples collected: 0 Sketch #(s):

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)
Chemical piles or spills / Acid or Chemical odor / Asbestos
Petrochemical Products / Dump sites
Power Substations / Transformers 1 empty 5 gal bucket by Adit 5
Barrels, Tanks, Containers 2-55 gal drums Leaking: 0 Contents: Rocks, burned Material
Evidence of Underground Storage Tanks: Describe:

Other: Nothing appears to be hazardous.

(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
- Other:

---

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

J. GLOBAL POSITIONING SYSTEM DATA yes
Rover File name: R060521a

K. PHOTOGRAPHS
Number of photographs taken: Roll 98-1 (neg. 3846), #19-25, 7 photos.

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

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit 1</td>
<td></td>
<td></td>
<td></td>
<td>Caved with wood portal right on road. Should close better.</td>
</tr>
<tr>
<td>Dump 1</td>
<td>30</td>
<td>20</td>
<td>5'</td>
<td>OK</td>
</tr>
<tr>
<td>Road 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stope 1</td>
<td>20' dia.</td>
<td>10</td>
<td></td>
<td>Above Adit 1 portal; fence or fill it?</td>
</tr>
<tr>
<td>Adit 2</td>
<td></td>
<td></td>
<td></td>
<td>Caved but with small hole above.</td>
</tr>
<tr>
<td>Dump 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trench 1</td>
<td>50'</td>
<td>6'</td>
<td>5'</td>
<td>Above Adit 2.</td>
</tr>
<tr>
<td>Adit 3</td>
<td></td>
<td></td>
<td></td>
<td>Caved, but portal is still dangerous.</td>
</tr>
<tr>
<td>Stope 2 with Adit 3</td>
<td>3'</td>
<td>15'</td>
<td></td>
<td>OPEN. Should close totally.</td>
</tr>
<tr>
<td>Dump 3</td>
<td>80</td>
<td>80</td>
<td>10</td>
<td>For Adit 3.</td>
</tr>
<tr>
<td>Loading dock</td>
<td>wood</td>
<td>fair shape &amp; stable</td>
<td>On Dump 3.</td>
<td></td>
</tr>
<tr>
<td>Adit 4</td>
<td></td>
<td></td>
<td></td>
<td>Caved and well vegetated; dry but just above creek.</td>
</tr>
<tr>
<td>Dump 4</td>
<td></td>
<td></td>
<td></td>
<td>Just above creek, trace quartz.</td>
</tr>
<tr>
<td>Adit 5</td>
<td>with discharge by creek</td>
<td></td>
<td>Closed - possible opening 1' at most.</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

See next page for field notes.
Field Notes: Site 00015 (Arkoosh Group, HA-358?)
Could also be part of the Croesus mine??

This area was not on the BLM list, but was inventoried because it was close to other BLM properties and because it is easily accessible to local populace.

These workings are highly visible from the main Croy Creek Road, and they can be easily accessed by a 4WD road off Croesus Gulch. The mines may be the Arkoosh Group. The rock is diorite with minor FeOx and local quartz veining. Adit 3 is the main level and the compressor, outhouse, miscellaneous scraps, and an intact loading dock are located near the adit. Stope 2 is near Adit 3 and Stope 1 is a coned, caved hole above Adit 1 portal, which is next to the road. The stopes may be simply holes due to collapse of workings below them. Trench 1 is above Adit 2 and along Road 2. Adit 5 has water draining and may be located on a spring. Several empty drums nearby did not appear to constitute a major problem. A green shed, approximately 12' x 24' with a metal roof is located down below the dump. Water from Adit 5 hosts swampy vegetation as it runs over the top of the dump and down the gulch. The discharge had a pH of 7.0 and a Conductivity measurement of 160.

There are several low risk hazards which warrant attention by the mine owner, since the prominent location of the workings might invite visitors. None of the adits could be readily entered however. Posting of No Trespass signs would be a good idea. If landowner does not know condition of Adit 5, then the Adit 5 portal should be examined by someone with hard hat and mine boots and lamp.
Figure 15-1. Site 15: Topographic map of Arkoosh Group (?) on Upper Croesus Mine, Blaine County, Idaho (U.S. Geological Survey, Bellevue 7.5 minute topographic map).
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-1</td>
<td>19a</td>
<td>350</td>
<td>Adit 1 portal, next to road. Minor standing H2O is probably snow melt.</td>
</tr>
<tr>
<td>(Neg. 3846)</td>
<td>20a</td>
<td>20</td>
<td>Stope 1 above Adit 1 portal.</td>
</tr>
<tr>
<td></td>
<td>21a</td>
<td>130</td>
<td>Adit 2, with caved stope or opening behind geologist Mike Dunn.</td>
</tr>
<tr>
<td></td>
<td>22a</td>
<td>110</td>
<td>Adit 3, with Stope 2</td>
</tr>
<tr>
<td></td>
<td>23a</td>
<td>250</td>
<td>Compressor and ore loading dock at Adit 3 above dump, plus view looking to SW across Croesus Gulch.</td>
</tr>
<tr>
<td></td>
<td>24a</td>
<td>90</td>
<td>Adit 5 with H2O drainage.</td>
</tr>
<tr>
<td></td>
<td>25a</td>
<td>110</td>
<td>Adit 5 portal and top of dump with geologist. The Adit 3 dump is visible up hill with the loading dock.</td>
</tr>
</tbody>
</table>
A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable ___ / Leasable ___ / Salable ___
Operator (last known): ________________________________
Commodities: Primary ______________________ / Secondary ______________________
Other Agency ID Number: ________________________________ Agency: ______________________

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

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

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

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

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

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

Monitoring frequency: _______ Dates of monitoring visits: __________________________

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

(03/95)
Figure 15-2. Site 15: Adit 1 portal, next to road. Minor standing water is probably snow melt. Picture is looking to north (Roll 98-1, neg. #3846, frame #19a; photographed by V. S. Gillerman; June 5, 1998).

Figure 15-3. Site 15: Stope 1 with 1 foot opening, above Adit 1 portal. Field view is 15 feet wide. Picture is looking to 20 degrees azimuth (Roll 98-1, neg. #3846, frame #20a; photographed by V. S. Gillerman; June 5, 1998).
Figure 15-4. Site 15: Adit 2, with caved stope or opening behind geologist Mike Dunn. Picture is looking to southeast (Roll 98-1, neg. #3846, frame #21a; photographed by V. S. Gillerman; June 5, 1998).

Figure 15-5. Site 15: Adit 3 with stope 2 in back. Picture is looking to east southeast (Roll 98-1, neg. #3846, frame #22a; photographed by V. S. Gillerman; June 5, 1998).
Figure 15-6. Site 15: Compressor and ore loading dock at Adit 3 above dump, plus view looking to SW across Croesus Gulch (Roll 98-1, neg. #3846, frame #23a; photographed by V. S. Gillerman; June 5, 1998).

Figure 15-7. Site 15: Adit 5 with water drainage. Picture is looking to east (Roll 98-1, neg. #3846, frame #24a; photographed by V. S. Gillerman; June 5, 1998).
Figure 15-8. Site 15: Adit 5 portal and top of dump with geologist standing at the entrance. The Adit 3 dump is visible up hill with the loading dock. Picture is looking to east southeast (Roll 98-1, neg. #3846, frame #25a; photographed by V. S. Gillerman; June 5, 1998).