GRAY CINNABAR CLAIMS

Owner: Glenn Gray, Lynn Gray, and Zane Gray, Lakeview, Oregon.

Location: Secs. 14 and 15, T. 35 S., R. 23 E., eleven miles northwest of Plush in the Coyote Hills.

Area: Four lode claims.

History and Development: This general area in the Coyote Hills has an early history of gold mining. It was known as Camp Lofftus in the Lost Cabin Mining District. There are a number of old shafts and tunnels that indicate considerable activity in about 1905. At least one of the Gray claims was located and worked by the father of the present owners during the late 1930's and 1940's. Development done during this period consists of a tunnel about 200 feet long with several short crosscuts and inclined workings. Production of 7 flasks of mercury from a small retort is reported over the period from 1940 to 1950.

Recent development consists of a shallow bulldozer cut about 200 yards to the southeast of the portal of the tunnel. The cut is about 80 feet long and 25 feet wide with 3 small pits (4 to 6 feet deep) along the eastern edge. (See sketch map).

Geology: The mineralization occurs in fractures and fault zones in altered andesite and in a partially silicified pumiceous rhyolite that appears to be on the margin of a large intrusive rhyolite mass.

In the tunnel altered andesite is the predominant rock while in the open cut pumiceous rhyolite, perlite, and opalized bands of these rocks occur.

The tunnel drifts along a fracture zone that trends N. 80° E. and
Gray Cinnabar claims

- 2 -

dips steeply to the north. Short crosscuts show parallel fractures that
trend from NE to E. An intersecting set of fractures (trending almost
N-S) is well developed near the face of the tunnel. The rock exposed in
the tunnel is a bleached andesite with abundant pyrite and at intersections
of vertical fractures trending N. 45° E. there are coatings of and some
disseminated cinnabar.

In the bulldozer cut, north trending zones of pumiceous rhyolite, a
clayey breccia zone, opalized rhyolite, and a green glassy rock resembling
perlite are exposed. Cinnabar coats fractures and is finely disseminated
in the pumiceous and opalized rhyolite. Much of the structure has been
obscured by bulldozer work and blasting in the cut but the mineralization
appears to be controlled by a fault zone that trends N. 10° E. and dips
65° to the east. The hanging wall is a clayey gouge. Cinnabar is report-
ed in a zone about 10 feet wide and for 80 feet along the strike.

Assays of several samples are tabulated below:

<table>
<thead>
<tr>
<th>Number</th>
<th>Type &amp; location of sample</th>
<th>Hg Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG - 419</td>
<td>Chip sample from 2-foot opalized zone in open cut</td>
<td>0.4 lbs/ton</td>
</tr>
<tr>
<td>RG - 420</td>
<td>Grab sample of pumiceous rhyolite from 7-foot pit in open cut.</td>
<td>0.2 lbs./ton</td>
</tr>
<tr>
<td>RG - 421</td>
<td>Grab sample of altered andesite (?) from tunnel dump.</td>
<td>Trace</td>
</tr>
<tr>
<td>RG - 449</td>
<td>Selected material from raise near end of tunnel.</td>
<td>16.5 lbs./ton</td>
</tr>
</tbody>
</table>

Zane Gray reports that 300 lbs. of material from the open cut was
sent to the Bureau of Mines at Albany, Oregon for experimental concentra-
tion tests in September 1957. As of April 15, 1958 he has received no
results from the tests.


Report by: N. V. Peterson  April 14, 1958

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There are also coatings of a blue green mineral and white crystalline material. They contain large amount of water - white LS are needlelike - zeolites?

There is also some limonite stained on fractures, owing to weathering of pyrite.

2. At this point there is a fault zone that trends N55°E. The rocks in this zone are unstable, intercalated with hematite and containing abundant clay - this zone is about 10 feet thick and has cinnabar on fractures and joints. There is a raise that takes off to the right 12' 350°E and then 20' N70E then N30E for 15' then N85°E for 10'.
REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full: N. V. Peterson (DOGAMI)
Post office address: P.O. Box 417 Grants Pass, Oregon
Are you a citizen of Oregon? Yes Date on which sample is sent: 9-3-57
Name (or names) of owners of the property:
Are you hiring labor? No Are you milling or shipping ore? No
Name of claim sample obtained from: Zane Gray claim
Location of property or source of sample: If legal description is not known, give location with reference to known geographical point.
County: Lake Mining District:
Township: Range: Section: Quarter section:
How far from passable road? 1 1/2 miles Name of road: Snyder Creek Rd.

Sample no. 1: Channel (length) Grab Assay for Description
Sample no. 2: (Samples for assay should be at least 1 pound in weight)

(Signed) N. V. Peterson

DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED

Sample Description: Altered gray tuff from dump -- 200 ft tunnel -- Disseminated pyrite and sinnabar.

<table>
<thead>
<tr>
<th>Sample number</th>
<th>GOLD</th>
<th>SILVER</th>
<th>MERCURY</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-421</td>
<td>-</td>
<td>-</td>
<td>Trace</td>
</tr>
<tr>
<td>P-21910</td>
<td>-</td>
<td>-</td>
<td>Trace</td>
</tr>
</tbody>
</table>

Report issued Card filed Report mailed 9-25-57 Called for
REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full ________________________________ Norman V. Peterson (DOGAMI)

Post office address ________________________________ P.O. Box 417, Grants Pass, Oregon

Are you a citizen of Oregon? Yes Date on which sample is sent 9-23-57

Name (or names) of owners of the property ________________________________ Zane Gray

Are you hiring labor? No Are you milling or shipping ore? No

Name of claim sample obtained from ________________________________ Hot Spot

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County ________________ Lake ________________ Mining District ________________ Lost Cabin District (?)

Township ________________ Range ________________ E Section ________________ Quarter section ________________

How far from passable road? 3 miles Name of road ________________ County ________________

Channel (length) Grab Assay for Description

Sample no. 1 ________________________________ x Hg Near end of tunnel in raise

Sample no. 2 ________________________________ (Samples for assay should be at least 1 pound in weight)

(Signed) ________________________________ Norman Peterson

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Sample Description ________________________________ Bleached andesite with disseminated and fracture fillings of cinnabar—and pyrite.

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<th>SILVER</th>
<th>MERCURY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oz./T. Value</td>
<td>oz./T. Value</td>
<td>Hg</td>
</tr>
<tr>
<td>P-22005</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG-449</td>
<td></td>
<td></td>
<td>16.5 lb/ton</td>
</tr>
</tbody>
</table>

Report issued ________________________________ Card filed ________________________________ Report mailed 10-18-57 Called for ________________

SIR-5
Data for map of mine tunnel

Portal opening faultly due
Tunnel trends N87E

From portal → 50' N85E

1

2  39' N80°E

3  36' N62E  27' N48°E Drift

Right hand turn drift

4  14' S45°E

5  15.7' S65°E

Raiser - 26' N-S upward
at 40° angle