

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

GRAY CINNABAR CLAIMS

Lake County

Owners: 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

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 reported in a zone about 10 feet wide and for 80 feet along the strike.

Assays of several samples are tabulated below:

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

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

Visited: Sept. 15, 1957.

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

There are also coatings of a blue green mineral and white crystalline material. ~~water~~ They contain large amount of water - white H₂S are needlelike - zeolites?

There is also some limonite stain on fractures owing to weathering of pyrite?

2. At this point there is a fault zone that trends N5°E. The rocks in this zone are extremely brecciated stain

^{2 contd.} with limonite and containing abundant clay - this zone ~~is has~~ cinnabar is about 10 feet thick and has cinnabar on fracture and joints.

There is a raise that takes off to the right
 12' 55°E and then 20' N70E then N30E for 15' then N85°E for 10'

⑤
 ** Repeated
 15.7' S65°E

⑦ 10' S45°E
 1 Raise to left - 20' at N68°E angle up at 36°

⑧ 15' S62°E
 4' Raise drift to S

Rock caved to within 3' of top of tunnel at this point.
 22.5' N75°E
 Raise from here * mapped at end of travel see note 2

11' N68°E to end of tunnel

Main shearing N80°E^{S45°} and N45°E^{N60°} - These bearings were taken on slickenside surfaces at the end of the tunnel. Mineralization of cinnabar and pyrite is present as coatings on fracture of a highly altered (andesite?) the rock is gray with phenocrysts of feldspar? the feldspar has been altered to clay

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 2033 First Street Baker, Oregon
 1069 State Office Building Portland 1, Oregon
 239 S.E. "H" Street Grants Pass, Oregon

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 35 S Range 23 E Section 15 Quarter section _____

How far from passable road? 1 1/2 miles Name of road Snyder Creek Rd.

	Channel (length)	Grab	Assay for	Description
Sample no. 1	_____	<u>x</u>	<u>Hg</u>	_____
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' tunnel -- Disseminated pyrite and cinnabar.

Sample number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
RG-421 P-21910	---	---	---	---	Trace	---	---	---

Report issued _____ Card filed _____ Report mailed 9-25-57 Called for _____

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Baker, Oregon

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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 Lest Cabin District (?)

Township 35 S Range 23 E Section 14 Quarter section _____

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

	Channel (length)	Grab	Assay for	Description
Sample no. 1	<u> </u>	<u>x</u>	<u>Hg</u>	<u>Near end of tunnel in raise</u>
Sample no. 2	<u> </u>	<u> </u>	<u> </u>	<u> </u>

(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.

Sample number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-22005 RG-449	---	--	---	--	16.5 lb/ton	---	---	---

Report issued _____ Card filed _____ Report mailed 10-18-57 Called for _____

Data for map of mine Tunnel

Portal opening gently, over

Tunnel trend N87E

From portal → 50' N85E ✓

2 37' N80°E

16
✓
4

3 36' N62E

27' N48° Drift ✓

* Right hand tunnel drift

4 14' S45°E ✓

5 15.7' S65°E

**

6 Raise - 26' N-S upward at 40° angle