

9

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information requested completely, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Edward A. Groh
Edward A. Groh
7224 N. Haven
Portland, Oregon
Please print your name and address in space above

Date sample is sent: 10-12-67
Name of claim sampled: _____

Name of property owners J. Liskey Ranch

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

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

County Klamath Mining district _____

Township 40 S Range 9 E Section 21 Quarter section _____

How far from passable road and name of road 100 yds

	<u>Channel (length)</u>	<u>Grab</u>	<u>Assay for</u>	<u>Description</u>
Sample No. 1	<u># 9</u>	<u>✓</u>	<u>Au, Ag</u>	<u>Silicified tuff</u>
Sample No. 2	<u># 12</u>	<u>✓</u>	<u>Au, Ag</u>	<u>" "</u>

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) Edward A. Groh

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

Description No. 9: Silicified tuff.
No. 12: Silicified tuff.

Sample Number	GOLD		SILVER					
	oz./T.	Value	oz./T.	Value				
P-32277 No. 9	Nil	--	Nil	--	--	--	--	--
P-32278 No. 12	Nil	--	Nil	--	--	--	--	--

Report mailed 10-16-67

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building - Portland, Oregon 97201

REQUEST FOR SAMPLE INFORMATION

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Please print your name and address in space above

Date sample is sent: _____

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon

9/12/66

Name of claim sampled: _____

none

Name of property owners _____ ?

Are you hiring labor? _____ Are you milling or shipping ore? _____

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

County Klamath Mining district _____

Township 38 S Range 9 E Section 21 Quarter section _____

How far from passable road and name of road 1/4 mile

Channel (length) Grab Assay for Description

Sample No. 1 x Hg

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) **IMPORTANT:** A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Coarse grained tuffaceous sandstone cemented with opal, iron oxides.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-31394 AAG-167	- -	- -	- -	- -	Ni1	- -	- -	- -

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Date sample is sent: _____

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

10/13/67

Name of claim sampled: _____

Please print your name and address in space above

Name of property owners _____

Are you hiring labor? _____ Are you milling or shipping ore? _____

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

County Klamath Mining district W. Flank Gearhart Mtn.

Township 36 S Range 13 E Section 10 Quarter section _____

How far from passable road and name of road Along logging road

Channel (length) Grab Assay for Description

Sample No. 1 x Au, Ag

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Altered rhyolite.

Sample Number	GOLD		SILVER					
	oz./T.	Value	oz./T.	Value				
P-32284 ABG-185	Trace	- -	Nil	- -	- -	- -	- -	- -

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Date sample is sent: _____

9/18/67

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Name of claim sampled: _____

Please print your name and address in space above

Name of property owners _____

Are you hiring labor? _____ Are you milling or shipping ore? _____

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

County Klamath Mining district _____

Township 30 S Range 9 E Section 28 Quarter section center

How far from passable road and name of road Along Lamm Crossing

Channel (length) Grab Assay for Description

Sample No. 1 x Au, Ag, Hg

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Hydrothermally altered andesite(?)

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32208 ABG-165	Nil	- -	Nil	- -	Nil	- -	- -	- -

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Edward A. Groh
DOGAMI

Please print your name and address in space above

Date sample is sent:
10-12-67

Name of claim sampled:

Name of property owners Unknown

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

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

County Klamath Mining district _____

Township 385 Range 9E Section 17+20 Quarter section _____

How far from passable road and name of road 100 yds

	Channel (length)	Grab	Assay for	Description
Sample No. 1	<u>#2</u>	<input checked="" type="checkbox"/>	<u>Au, Ag</u>	<u>Silicified tuff</u>
Sample No. 2	<u>#5</u>	<input checked="" type="checkbox"/>	<u>Au, Ag</u>	<u>" "</u>

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) Edward A. Groh

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Description #2 Silicified tuff.

#5 Silicified tuff.

Sample Number	GOLD		SILVER					
	oz./T.	Value	oz./T.	Value				
P-32275 No. 2	N11	--	0.20	--	--	--	--	--
P-32276 No. 5	N11	--	N11	--	--	--	--	--

Report mailed 10-16-67

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1069 State Office Building - Portland, Oregon 97201

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N. V. Peterson
P.O. Box 417
Grants Pass, Oregon

Please print your name and address in space above

Date sample is sent: 11/4/66

Name of claim sampled: none

Name of property owners ?

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

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

County Klanath Mining district

Township 40 S Range 9 E Section 35 Quarter section

How far from passable road and name of road 50 yds Township road

Channel (length) Grab Assay for Description

Sample No. 1 Au, Ag, Hg

Sample No. 2

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Opalized tuff - siliceous sinter.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-31545 AAG-201	Trace	- -	Trace	- -	0.4 lb/ton	- -	- -	- -

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Please print your name and address in space above

Date sample is sent:

7/22/68

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Name of claim sampled:

?

Name of property owners ?

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

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 34 S Range 16 E Section 13 Quarter section SW corner
34 S 16 E NEW-1610

How far from passable road and name of road

Channel (length) Grab Assay for Description

Sample No. 1 x Au, Ag, Hg near North Creek campground

Sample No. 2 x Au, Ag, Hg South Creek
School

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description #1 - Rhyolite breccia & gossan.

#2 - Opalized rhyolite with some cinnabar.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32994 ACG-139	Nil	- -	Nil	- -	Trace	- -	- -	- -
P-32995 ACG-140	Trace	- -	Nil	- -	3.7 #/ton	- -	- -	- -

Report mailed 7-26-68



STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

2033 FIRST STREET
BAKER, OREGON

1069 STATE OFFICE BUILDING
PORTLAND, OREGON, 97201

239 SOUTHEAST "H" STREET
GRANTS PASS, OREGON

Date July 29, 1966

Norm Peterson - Ed Groh

Field Lab. No. _____

General Lab. No. P-31227

Spec. Lab. No. _____

QUALITATIVE SPECTROGRAPHIC ANALYSIS
(Quantities estimated to nearest power of ten)

Selenite

1. Elements present in concentrations over 10%

Calcium

2. Elements present in concentrations 10% to 1%

3. Elements present in concentrations 1% to 0.1%

Silicon

4. Elements present in concentrations 0.1% to .01%

**Aluminum, sodium, manganese, barium,
strontium**

5. Elements present in concentrations .01% to .001%

Iron

6. Elements present in concentrations below .001%

Titanium, copper, silver

Mercury Nil

Radioactivity Nil

Charge

Potassium - Not found.
Rubidium - Not found.

Thomas C. Matthews, Spectroscopist

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Date sample is sent:

September 14, 1967

Norman V. Peterson
P. O. Box 417
Grants Pass, Oregon 97526

Name of claim sampled:

none

Please print your name and address in space above

Name of property owners ?

Are you hiring labor? no

Are you milling or shipping ore? no

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

County Klamath

Mining district none

Township 41S

Range 10E

Section 8

Quarter section SE

How far from passable road and name of road adjacent to Township road

Channel (length)

Grab

Assay for

Description

Sample No. 1 X Hg

Sample No. 2

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) Norman V. Peterson

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Description partially opalized, silicified tuffaceous sandstone, no visible metallic minerals

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32198	- -	- -	- -	- -	Trace	- -	- -	- -
ABG-162								

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N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Date sample is sent:

10/13/67

Name of claim sampled:

Please print your name and address in space above

Name of property owners _____

Are you hiring labor? _____

Are you milling or shipping ore? _____

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 McCain Creek Drainage

Township 41 S Range 18 E Section 5 Quarter section NW 1/4

How far from passable road and name of road Along logging road

Channel (length) Grab Assay for Description

Sample No. 1 x Hg

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Altered rhyo/dacite(?)

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32286	--	--	--	--	Nil	--	--	--
ABG-187								

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N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Please print your name and address in space above

Date sample is sent:

10/13/67

Name of claim sampled:

Name of property owners _____

Are you hiring labor? _____ Are you milling or shipping ore? _____

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 41 S Range 17 E Section 1 Quarter section NE 1/4

How far from passable road and name of road Along logging road

Channel (length) Grab Assay for Description

Sample No. 1 x Au,Hg

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) **IMPORTANT:** A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Altered rhyolite breccia & layered tuffs.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32285 ABG-186	Trace	- -	- -	- -	Trace	- -	- -	- -

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
PROJECT SAMPLE RECORD

SAMPLES SUBMITTED BY: N. V. Peterson & Jim McIntyre ADDRESS: P.O. Box 417, Grants Pass, Ore. DATE: 11/1/67

<u>Sample No.</u>	<u>Mine or Prospect</u>	<u>Type</u>	<u>District</u>	<u>S.</u>	<u>T.</u>	<u>R.</u>	<u>Assay For</u>
1. ABG-202	McCoin Creek	Grab	Dry Creek	NE/NE 5	41 S	18 E	Au, Ag, Hg
2. ABG-203	Forks of Deming Creek	"	Gearhart Mt.	SE 2	36 S	16 E	Au, Ag, Hg
3. ABG-204	none	"	Lee Thomas	E $\frac{1}{2}$ 28	34 S	16 E	Au, Ag, Hg
4. ABG-205	none	"	" "	E $\frac{1}{2}$ 28	34 S	16 E	Au, Ag, Hg
5. ABG-206	Upper Gold Creek	"	" "	SW $\frac{1}{4}$ 23	34 S	16 E	Au, Ag, Hg
6. ABG-207	Lee Thomas	"	" "	W $\frac{1}{2}$ 28	34 S	16 E	Au, Ag, Hg

Descriptions:

1. Weathered iron-stained rhyolite with disseminated pyrite.
2. Iron-stained rhyolite breccia.
3. Siliceous flow banded rhyolite.
4. Siliceous gossan.
5. Mixed iron oxides and weathered rhyolite.
6. Weathered iron-stained rhyolite breccia.

Results:

		GOLD oz./ton	SILVER oz./ton	MERCURY (Hg)
ABG-202	P-32352	Nil	Nil	Nil
ABG-203	P-32353	Nil	Nil	Nil
ABG-204	P-32354	Nil	0.2	Nil
ABG-205	P-32355	Nil	Nil	Trace
ABG-206	P-32356	Nil	Nil	Nil
ABG-207	P-32357	Nil	Nil	Nil

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Date sample is sent: _____

5/27/68

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Name of claim sampled: _____

none

Please print your name and address in space above

Name of property owners _____

Are you hiring labor? _____

Are you milling or shipping ore? _____

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

County Klamath

Mining district _____

Township 36 S

Range 12 E

Section 25

Quarter section _____

How far from passable road and name of road 100 yards - Medicine Mt.

Channel (length)

Grab

Assay for

Description

Sample No. 1 x Hg from borrow pit

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) Norman V. Peterson

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Description bleached-iron stained tuff & breccia.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-32793	- -	- -	- -	- -	Trace	- -	- -	- -
ACG-92								

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Date sample is sent:

May 31, 1968

N. V. Peterson
P.C. Box 417
Grants Pass, Oregon 97526

Name of claim sampled:

Bretz Mine

Please print your name and address in space above

Name of property owners New Almaden Mining Co.

Are you hiring labor? _____ Are you milling or shipping ore? _____

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

County Malheur Mining district Opalite

Township 41 S Range 41 E Section 3 Quarter section _____

How far from passable road and name of road Road to property

Channel (length) Grab Assay for Description

Sample No. 1 _____ x Cu, Hg, Mo

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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Description Dark gray to black siliceous breccia with fine disseminated pyrite, fine cinnabar(?) and a blue stain of (ilsemannite?).

Sample Number	GOLD		SILVER		COPPER	MERCURY	MOLYBDENUM
	oz./T.	Value	oz./T.	Value	Cu	Hg	Mo
P-32805 ACG-95	--	--	--	--	Nil	Trace	Nil

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MRS. ROY L. MATCHETT
 617 So. EYE ST.
 LAKEVIEW, OREGON 97630

Date sample is sent: 9/30/68

Name of claim sampled: NONE

Please print your name and address in space above

Name of property owners U.S. FOREST SERVICE

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

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 34 S Range 16 E Section 27 Quarter section

How far from passable road and name of road USFS RD No. 3410 - 1/4 MI.

Channel (length) Grab Assay for Description

Sample No. 1 5 FT GOLD MAN PIT

Sample No. 2 20 FT CINNIBAR MAN PIT

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) Mrs. Roy L. Matchett

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Description #1 Tuff. #2 Tuff.

Sample Number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T.	Value	Hg			
P-33281 No. 1	N11	--	--	--	--	--	--	--
P-33282 No. 2	--	--	--	--	N11	--	--	--

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
PROJECT SAMPLE RECORD

SAMPLES SUBMITTED BY: N.V. PETERSON ADDRESS: P.O. Box 417 Grants Pass, Ore. 97526 DATE: Sept. 9, 1971

<u>Sample No.</u>	<u>Mine or Prospect</u>	<u>Type</u>	<u>District</u>	<u>S.</u>	<u>T.</u>	<u>R.</u>	<u>Assay For</u>
AFG- 86 87	Salt Creek	Grab	Lake	28	34 S	16 E	Hg
87 86	Lee Thomas Meadow	Grab	Lake	12	38S	21 E	Hg

Descriptions:

AFG-~~86~~ 87 Iron-stained silicified rhyolite breccia .

AFG-~~87~~ 86 Opaline sinter/hot spring tufa.

Results:

		MERCURY Lb./ton
P-36868	AFG- 86 87	2.8 #/ton
P-36869	AFG- 87 86	1.1 #/ton

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

DIGMORE CLAIMS (Hg)

Lake County

Owner: Land is owned by deed (?) to William Rehart, Lakeview. A lease-partnership deal on the mercury occurrence was given to John and Weyland Roush, Lakeview.

Location: The occurrence is located in the NE $\frac{1}{4}$ sec. 12, T. 36 S., R. 20 E., Lake County. The prospect is reached by traveling north on Highway 395 approximately 7 miles, to the Salt Creek road, then east on the Salt Creek road about 2 $\frac{1}{2}$ miles. The prospect is just north of the Salt Creek road.

Development: Exploration in progress June 9, date of visit. Methods were removal of the 1-foot or less of soil cover, and trenching with bulldozer, and digging of prospect pits. Object of exploration is to deal with private company for mining.

Geology: Mercury mineralization is present in a bedded series of altered volcanic tuffs. Clayey tuffs, tuffs, and opalized rocks are present. Some of the opalized rocks are brecciated. Banding parallel to bedding is common in the opalized rocks.

The brittle opalized rocks are badly fractured and bedding planes are well developed. Some vertical fractures or shears can be found.

The mercury is present as cinnabar (HgS). The mineral is partly associated with the opalization, partly coating fractures in opalized material, and partly disseminated in clayey altered tuffs.

The cinnabar is in streaks and bands throughout the opalized rock, giving the material a reddish banded appearance. Breccia fragments often contain cinnabar. The greater part of the material is of this type - a

typical banded or reddish opaline material.

Mercury is frequently more heavily concentrated in narrow seams or fractures which are usually vertical. The hard, brittle, broken rock is heavily coated with cinnabar for 6 inches to 1 foot on each side of the fracture. These fractures contain very sparse manganese staining and some hematite and limonite. No other minerals were noted at any spot on the property.

Some cinnabar is found disseminated throughout small areas of clayey tuff. At the time of the examination this type of ore seemed to be minor in amount.

It is evident that the banded cinnabar is very closely associated with the silicification (opalization) of tuffaceous or other porous rocks. The mineralization must have been contemporaneous with at least part of the silicification. Since cinnabar is also coating fractures there must have been later mineralization after some movement of the ground. Whether this mineralization is supergene or not, is not known, but there were no signs of leaching of mercury in the areas examined.

Economics: The deposit offers a possibility for a large low-grade operation. There are reported occurrences to the east of the deposit which were not examined, but it is felt that there must be continuous mineralization for possibly 500 feet. A mineralized zone 300 feet by 100 feet was examined, and the possibilities are very good for extending this distance.

The deposit is very similar to those described by Yates in U.S.G.S. Bull. 931-N, Quicksilver Deposits of the Opalite District, Malheur County, Oregon, and Humboldt Co., Nevada.

Exploration: The primary purpose of exploration work should be to extend the surface deposits to their full extent. The only hope of the property probably is to develop a surface operation of large tonnage.

Diamond drilling was attempted at the prospect with little success. Little core was recovered, and this was principally from barren rock. At a very shallow depth, water was lost, and no cuttings were recovered. Thus no sample at all was recovered.

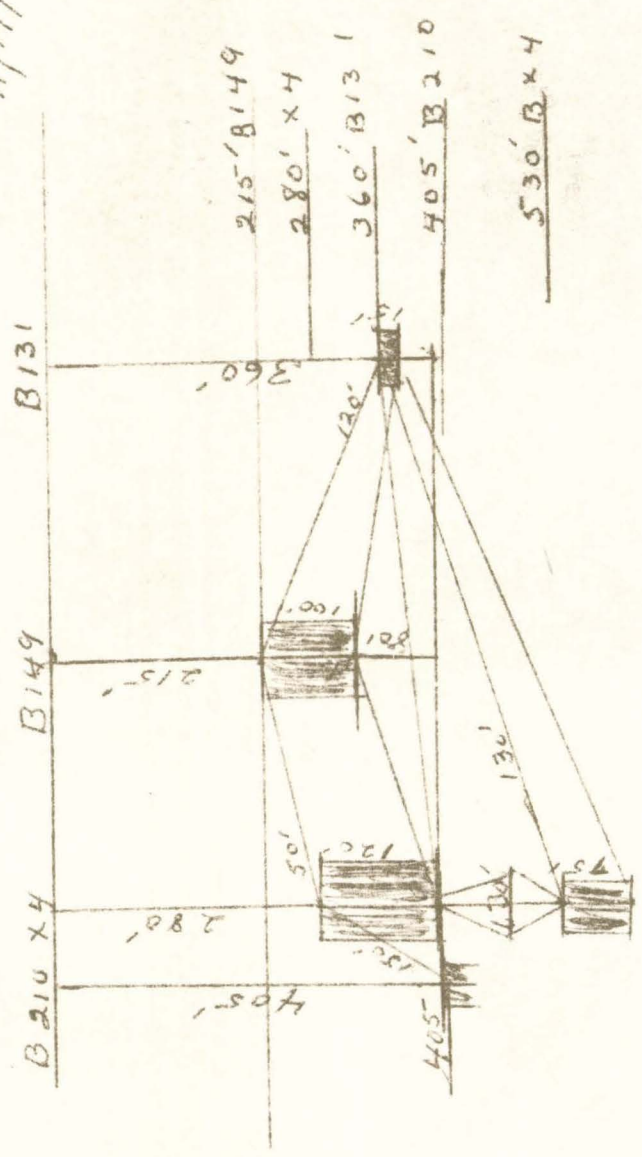
<u>Samples:</u>	QG- 145	Pit #1	-	0.6 lb./T
	146	Pit #2 - 1' seam	-	4.0 "
	147	Pit #4 - N. face	-	0.3 "
	148	Pit #6 - W. face	-	1.6 "

Report by: Max Schafer July 1956

Visited: June 9, 1956.

* * * * *

11/19/66



STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building - Portland, Oregon 97201

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information requested completely, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

N. V. Peterson
P.O. Box 417
Grants Pass, Oregon 97526

Please print your name and address in space above

Date sample is sent:

5/6/68

Name of claim sampled:

Name of property owners U. S.

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

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

County Klamath Mining district _____

Township 27 S Range 9 E Section 9 Quarter section N $\frac{1}{2}$

How far from passable road and name of road Along Skookum Butte Lookout

Channel (length) Grab Assay for Description

Sample No. 1 x Fe, Ti (magnetic concentrate)

Sample No. 2 _____

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing at least 5 lbs.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) N. V. Peterson

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

Description Medium gray diktytaxitic basalt.

Sample Number	GOLD		SILVER		ORE - "AS IS"		MAGNETIC SEPARATION	
	oz./T.	Value	oz./T.	Value	IRON Fe	TITANIUM TiO ₂	IRON Fe	TITANIUM TiO ₂
P-32718	- -	- -	- -	- -	4.82%	1.67%	15.48%	3.34%
ACG-73								

	VII	VIII	IX	X	XI	XII	XIII	XIV
	Rhyolite	Dacite	Pumice	Vesicular basalt #1	Vesicular basalt #2	Vesicular basalt #3	Gabbro	Dumite
SiO ₂	70.1	71.5	71.8	54.4	47.6	53.0	43.3	42.2
TiO ₂	0.26	0.33	0.23	1.13	1.42	0.77	5.97	Nil
Al ₂ O ₃	14.9	14.5	13.6	16.8	17.0	16.2	13.1	1.60
Fe ₂ O ₃	2.77	0.61	1.10	3.17	3.56	3.26	6.46	1.67
FeO	0.44	1.92	1.03	5.39	6.33	5.19	9.97	6.51
MnO	0.18	0.12	0.13	.23	0.18	0.17	.22	0.22
MgO	0.20	0.55	0.29	4.94	8.09	6.73	7.33	45.71
CaO	1.33	2.05	1.30	7.67	10.99	8.56	11.50	0.63
Na ₂ O	5.74	4.35	4.54	2.43	2.29	3.01	1.76	0.01
K ₂ O	2.60	2.81	3.98	0.92	0.29	1.00	0.12	Nil
P ₂ O ₅	0.050	0.11	0.05	0.28	0.23	0.13	0.02	0.005
H ₂ O+	0.13	0.09	0.08	0.68	0.36	0.51	0.12	0.25
H ₂ O-	0.48	0.40	1.07	0.15	0.23	0.09	0.10	2.28
Total H ₂ O	0.61	0.49	1.15	0.83	0.59	0.60	0.22	2.53
CO ₂	<0.10	<0.10	<0.10	0.26	<0.10	0.40	0.26	<0.10
S	.011	0.005	Nil	.005	.005	.009	.054	0.004
Totals	99.3	99.4	99.3	98.5	98.7	99.0	100.3	101.1

	VII	VIII	IX	X	XI	XII	XIII	XIV
	Rhyolite	Dacite	Pumice	Vesicular basalt #1	Vesicular basalt #2	Vesicular basalt #3	Gabbro	Dunite
SiO ₂	70.1	71.5	71.8	54.4	47.6	53.0	43.3	42.2
TiO ₂	0.26	0.33	0.23	1.13	1.42	0.77	5.97	Nil
Al ₂ O ₃	14.9	14.5	13.6	16.8	17.0	16.2	13.1	1.60
Fe ₂ O ₃	2.77	0.61	1.10	3.17	3.56	3.26	6.46	1.67
FeO	0.44	1.92	1.03	5.39	6.33	5.19	9.97	6.51
MnO	0.18	0.12	0.13	.23	0.18	0.17	.22	0.22
MgO	0.20	0.55	0.29	4.94	8.09	6.73	7.33	45.71
CaO	1.33	2.05	1.30	7.67	10.99	8.56	11.50	0.63
Na ₂ O	5.74	4.35	4.54	2.43	2.29	3.01	1.76	0.61
K ₂ O	2.60	2.81	3.98	0.92	0.29	1.00	0.12	Nil
P ₂ O ₅	0.050	0.11	0.05	0.28	0.23	0.13	0.02	0.005
H ₂ O+	0.13	0.09	0.08	0.68	0.36	0.51	0.12	0.25
H ₂ O-	0.48	0.40	1.07	0.15	0.23	0.09	0.10	2.28
Total H ₂ O	0.61	0.49	1.15	0.83	0.59	0.60	0.22	2.53
CO ₂	<0.10	<0.10	<0.10	0.26	<0.10	0.40	0.26	<0.10
S	.011	0.005	Nil	.005	.005	.009	.054	0.004
Totals	99.3	99.4	99.3	98.5	98.7	99.0	100.3	101.1

TABLE 1. - Properties of simulated lunar rocks in earth environment--
Continued

Rock type	Thermal expansion ($10^{-6}/^{\circ}\text{F}$)	Magnetic susceptibility (10^{-6} cgs units)	Dielectric constant (ratio)	Dissipation factor (ratio)
Dunite	6.2	400	5.0	0.008
Gabbro	3.9	6,000	15.4	.081
Tholeiitic basalt	4.5	2,000	11.1	.099
Granodiorite	5.6	Negligible	5.5	.004
Serpentinite	5.3	6,000	--- ¹	--- ¹
Obsidian	4.1	100	6.3	.010
Altered rhyolite	--- ¹	Negligible	4.8	.017
Rhyolite	4.5	400	5.1	.003
Vesicular basalt #1	3.2	400	6.0	.012
Vesicular basalt #2	--- ¹	500	6.7	.036
Dacite	3.1	600	5.0	.008
Vesicular basalt #3	--- ¹	200	4.2	.005
Semiwelded tuff	3.3	400	2.9	.015
Pumice	4.5	Negligible	2.3	.008

¹Not yet measured.

TABLE 1. - Properties of simulated lunar rocks in earth environment -
Continued

Rock type	Pulse velocity (m/sec)	Young's modulus (10^6 psi)	Compressive strength (psi)	Tensile strength (psi)	Strength coefficient (ratio)
Dunite	7,500	18.7	27,000	2,000	1.32
Gabbro	7,100	16.6	30,000	2,000	.96
Tholeiitic basalt	6,000	10.3	53,000	3,400	1.91
Granodiorite	3,000	6.1	21,000	950	.51
Serpentinite	6,000	5.7	18,000	800	1.37
Obsidian	5,600	9.2	65,000	2,200	.53
Altered rhyolite	3,300	2.6	16,000	1,100	.74
Rhyolite	4,200	2.4	22,000	1,200	.89
Vesicular basalt #1	3,800	2.8	10,000	1,100	1.01
Vesicular basalt #2	4,500	2.5	5,500	590	.75
Dacite	4,500	2.0	6,000	620	.42
Vesicular basalt #3	4,800	2.7	5,600	810	.77
Semiwelded tuff	2,500	.3	850	100	.10
Pumice	2,500	.5	1,500	240	.08

TABLE 1. - Properties of simulated lunar rocks in earth environment--
Continued

Rock type	Pulse velocity (m/sec)	Young's modulus (10^6 psi)	Compressive strength (psi)	Tensile strength (psi)	Strength coefficient (ratio)
Dunite	7,500	18.7	27,000	2,000	1.32
Gabbro	7,100	16.6	30,000	2,000	.96
Tholeiitic basalt	6,000	10.3	53,000	3,400	1.91
Granodiorite	3,000	6.1	21,000	950	.51
Serpentinite	6,000	5.7	18,000	800	1.37
Obsidian	5,600	9.2	65,000	2,200	.53
Altered rhyolite	3,300	2.6	16,000	1,100	.74
Rhyolite	4,200	2.4	22,000	1,200	.89
Vesicular basalt #1	3,800	2.8	10,000	1,100	1.01
Vesicular basalt #2	4,500	2.5	5,500	590	.75
Dacite	4,500	2.0	6,000	620	.42
Vesicular basalt #3	4,800	2.7	5,600	810	.77
Semiwelded tuff	2,500	.3	850	100	.10
Pumice	2,500	.5	1,500	240	.08