

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

BRATCHER OPALITE LEDGE

Jackson Co.
Ashland Area

Visit was made at the request of L. A. Bratcher, Rt. 1, Box 17, Ashland, Oregon. One half day was spent on the inspection.

Location: NW $\frac{1}{4}$ of Sec. 24, T. 38 S., R. 1 E. The main pit is reached by going N. on Oak Street for 5 miles and turning right on a private road for 1.3 miles.

Development: Several small pits on opalite bed. Pits dug with hand steel.

Geology: The opalite is an interbed of the Tertiary basalt flows which cover the NE & E section of the Medford quadrangle. The bed is from 30-40 feet thick and is a pale yellow or cream colored rock which is heavily iron-stained in places. The opalite is badly fractured in some places.

The attitude of bedding is near N. 30° W., 40° N.E., which is generally conformable to the attitude of the enclosing volcanics.

Assays on a 10' channel sample (PG-256A) and a grab sample (PG-256B) were as follows:

	<u>SiO₂</u>	<u>Ignition Loss</u>	<u>Hg</u>
PG-256A	93.68%	2.98%	Nil
PG-256B	95.14%	2.84%	Nil

The samples were taken with the possibility of mercury being present, so heavily iron-stained were assayed. As most of the loss on ignition was undoubtedly water, the remainder is probably all hematite.

There are essentially unlimited reserves as the outcrop is about 1 mile long.

Property Visited: *By Max Schuber* July 29, 1955. Report written: Oct. 6, 1955

RECEIVED
NOV 21 1957
STATE DEPT. OF GEOLOGY
& MINERAL INDS.

WB

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

BRATCHER #10 PROSPECT (SiO₂, Mo)

Jackson County
Ashland District

Owners: L. A. Bratcher and Charles Rooker, Ashland.

Location: NE $\frac{1}{4}$ sec. 25, T. 39 S., R. 1 W., at about 4,100 feet elevation on the southwest side of Horn Gulch, a tributary to Wagner Creek. The prospect is reached via the Wagner Creek road, 5 miles south of Talent and then to the left on 3 miles of road to the prospect. The last $\frac{1}{4}$ mile of road above Horn Gulch is quite steep and passable by jeep only when dry.

Development: Workings consist of a 170-foot tunnel and a new surface excavation which exposes the vein in the gully. Three smaller cuts were made at various places on the vein northwest of the main workings.

Geology: The deposit is a pegmatitic quartz vein in a coarse-grained, dark-colored quartz diorite containing abundant biotite and hornblende. The vein strikes N. 30° W. and dips 57° NE. Where exposed in the main open cut above the tunnel the vein is 8 feet thick. The northeast side of the vein consists of 4 feet of highly fractured iron-stained quartz, and the southwest half is a fractured iron-stained pegmatite with minor sulphides including pyrite and molybdenite. The quartz vein is exposed intermittently over a distance of about 1000 feet along the strike. It outcrops mainly on the x hillside northwest of the gully, where widths of 8 to 12 feet of fairly pure quartz are exposed. A prominent joint pattern has developed parallel to the walls of the vein. A 10-foot chip sample was taken across the vein at the cut located on the northwest side of the ridge about 800 feet northwest of the gully. The sample (RG-500, P-22167) assayed 99.35 percent SiO₂ and 0.02 percent CaO.

The tunnel trends almost due west for 90 feet where it intersects

the vein. It then drifts to the northwest along the vein for 50 feet, and from this point turns west into the footwall, a distance of 30 feet. Where exposed in the tunnel the vein is from less than 2 feet to about 4 feet thick. The pegmatite portion of the vein was not recognized in the tunnel. A minor amount of copper stain was noted.

Assay samples include the following: A 4-foot chip sample across the pegmatite (southwest side of vein in gulch cut, RG-501, P-22168) assayed 0.02 oz./ton Au, Trace Ag, and Trace Mo. A 4-foot chip across the quartz vein at the gulch cut assayed Nil in both gold and silver as did a 2½-foot chip sample on the vein in the tunnel. A high-grade sample of pegmatite with molybdenite on the fractures (RG-336, P-21661) assayed 2.00 percent Mo.

Additional sampling of the vein especially in the tunnel may indicate zones or shoots in the vein which contain better gold values. Trenching of the apparently wider portions of the quartz vein to see if greater widths are available as a possible source of silica may also be advisable.

Visited: 10/18/57 — with L. A. Bratcher and Charles Rooker.

Report by: L. R. - 11/18/57.

* * * * *

Addendum Report

BRATCHER SILICA No. 10 (SiO₂, Mo)

Ashland District
Jackson County

New development work by Bratcher and Bob Burns has exposed the persistent quartz vein for at least 1500 feet along the strike and up to 15 feet depth. The vein averages about 8 feet wide but is up to 15 - 20 feet wide in places. Post vein faulting is apparent and slickensides showing dip-slip as well as small offsets have been exposed. A sample of iron-stained gouge at the contact of the vein and hanging wall was assayed with results as follows:

	<u>Au</u>	<u>Ag</u>
<u>UG-105</u>	Nil	Trace

Part of the excavation work was done by a group from Roseburg represented by H. K. Thurber.

Visited: 5/12/60 N.V.P. & L.R.

* * * * *

REGISTERED
JUL 2 1960
STATE OF OREGON
COUNTY OF JACKSON

THE TWINING LABORATORIES
2527 Fresno Street., Fresno, Calif.

Gross Wt. APPROX 97 tons

Examination
235084

For - Mr. L. A. Bratcher
Rt. 1, Box 17
Asland, Oregon

Lot 571 of scheelite concentrate (13 cans) sampled by Dominic Botta
of The Twining Laboratories, on June 20, 1949.

Moisture-----Nil

Weight: Gross-----3497 lbs.
Tare----- 78 lbs.
Moisture----- Nil lbs.
Net dry weight-----34.9 lbs.

Units of WO₃ -----109.10029

Analysis on moisture free basis -

Tungsten trioxide (WO ₃) -----	63.82%
Phosphorus (P) -----	0.197%
Molybdenum (Mo) -----	0.24%
as (MoO ₃) -----	0.38%
Sulphur (S) -----	0.08%
Copper (Cu) -----	0.01%

THE TWINING LABORATORIES

By Fred W. Twining

vy/es

THE TWINING LABORATORIES
2527 Fresno Street, Fresno, Calif.

June 27, 1949

Examination
235899

For - Mr. L. A. Bratcher
Rt. 1, Box 17
Ashland, Oregon

Sample - Tails

Tungsten trioxide, WO_3 ----- percent by weight
----- 0.13

THE TWINING LABORATORIES

By Fred W. Twining

vy/es

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

MEMO REPORT BRATCHER SOAPSTONE PROSPECT

ASHLAND DISTRICT
JACKSON COUNTY

Owner

L. A. Bratcher, Ashland, Oregon.

Location

North edge sec. 18, T. 39 S., R. 1 E. at about 3700 feet elevation. The main cut is about 40 feet south and 400 feet west of the $\frac{1}{4}$ corner between secs. 7 and 18. It is reached via the Ashland mine road and a branching dirt road to the southeast up the ridge. It is about $4\frac{1}{2}$ miles from Ashland.

Development

To date only shallow cuts have been made exposing several small bodies of soapstone and minor occurrences of vermiculite. At the time visited excavation work was being done to deepen the cut and improve the exposures. The excavated area was about 60 feet in diameter and up to 10 feet deep.

Geology

The soapstone occurs as selvages and lenses as much as 8 feet thick at various places along the margins of pegmatitic to dioritic dikes which penetrate a body of serpentine. The outlines of the body of serpentine have not been accurately determined, but it appears to be about 1,000 feet wide and more than 2,000 feet long. It is completely surrounded by granodiorite and quartz diorite of the Ashland stock and appears to be a type of roof pendant. The soapstone occurs as selvages and as lenses of altered serpentine along the dike contacts. Some of the soapstone contains abundant tremolite intermixed with the talc.

At the main cut, soapstone is exposed along the contacts of a branching Y-shaped diorite dike. The dike strikes northerly and its 10-foot wide branching arms extend southward into the hill. The widest area of talc alteration appears to be in a zone about 15 feet lying between the branching dike arms near their point of convergence. Some serpentine is also present in this interior zone of soapstone. The outer edges of the dikes appear to have less alteration and narrower soapstone selvages. The outer or eastern edge of the eastern dike arm has about 8 inches of soapstone along its sheared contact and the outer or western edge of the western dike arm has as much as 4 feet of soapstone along its contact.

Mining

Mr. Tom Carrithers was working with Mr. Bratcher. They were deepening the cut to better expose the soapstone. Carrithers, who is from Santa Cruz,

California, planned to operate the mine (open cut preferably) and put the soapstone on railroad cars in Ashland for a certain agreed price. They were somewhat disappointed with the limited exposures and the intermixed nature of the diorite, but intend to produce or salvage as much soapstone as can be readily mined to return some of the development expenses. If sufficient improvement of the appearance of the deposit occurs with further development, mining will continue.

Visited: 5-19-64
Report by: Len Ramp - 5-22-64

State Department of Geology and Mineral Industries

702 Woodlark Building
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PURCHASE STATEMENT, Tungsten Ore Concentrate

Gross Wt.

Approx. 140 TONS

Bishop, Calif., December 28 1949

Seller Bratcher Mining Co.
68 E. Main St., Ashland, Oregon

Material 2203 lbs. Scheelite Concentrate Lot or Delivery NO.

Assay: <u>58.132</u> %	W ₃ <u>64.032</u> Units	W ₃ , Under 60%W ₃	Penalty <u>\$0.1868</u> /unit
<u>0.18</u> %	Molybdenum.....	"	_____ /unit
<u>.153</u> %	Phosphorous.....	"	<u>1.03</u> / "
<u>.11</u> %	Sulphur.....	"	_____ / "
<u>.01</u> %	Copper.....	"	_____ / "
_____ %	"	_____ / "

(W₃ Units adjusted to moly Corp Final)

Handling Charge.... .50 /
Total Deductions... 1.7168 /

Pay per Unit: \$23.50, less \$1.7168..... Deduction..... \$21.7832 /

Gross Pay: 64.032 Units @ \$21.7832 per Unit..... \$1394.82

Provisional _____ % \$ _____

Charges: Freight \$77.97 Upgrading \$ _____

Sampling-Assaying \$16.00 & 35.00 Blending \$11.02 Pkgs. \$ _____ \$141.59

Net to Seller \$ 1253.23

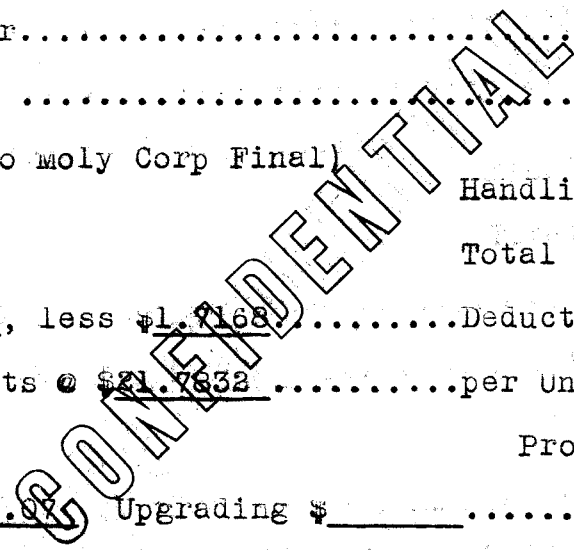
Advance Payment 10/10 - \$328.28, 11/26.49 - \$653.00

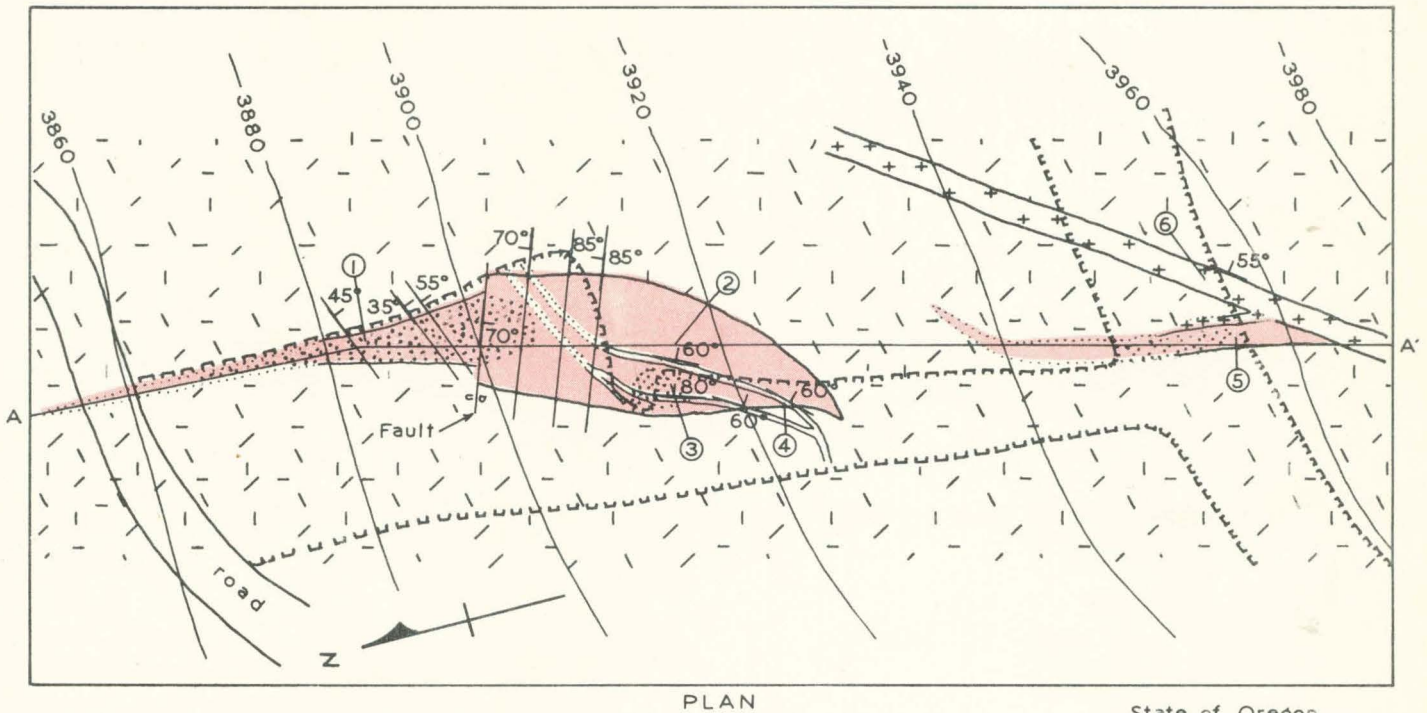
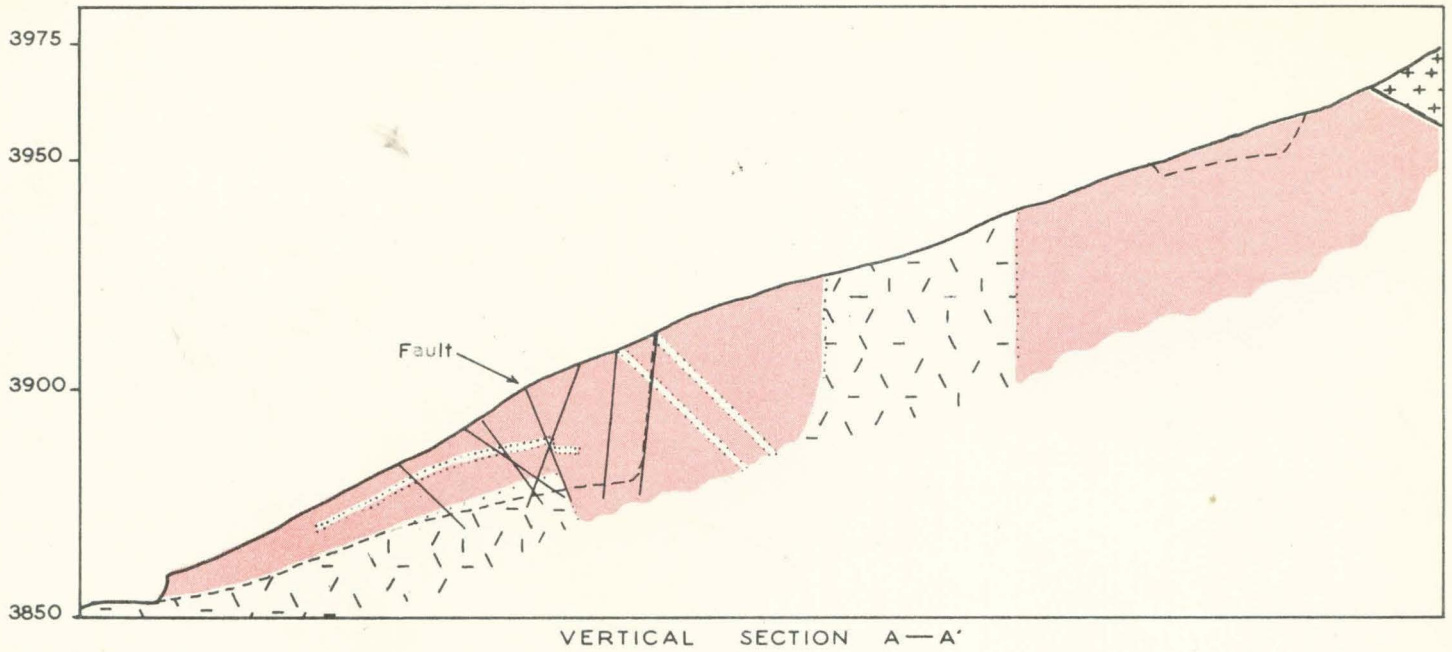
\$ 981.28

Balance of Provisional _____ Final X Settlement to Seller \$271.95

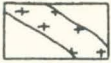

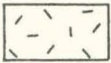
Owner or Authorized Agent, Seller.

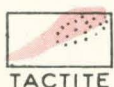
C. W. Jones
Assignee and/or Buyer.





State of Oregon
Department of Geology and
Mineral Industries


-  PEGMATITE DIKE
-  QUARTZ DIORITE DIKE
-  QUARTZ DIORITE



Dotted portion indicates
principal scheelite
concentrations

 FAULT OR FRACTURE

① SPECTROGRAPHIC ANALYSES *made* *not mentioned in write-up* *blank out* ~~(SEE PAGE 13)~~

 APPROXIMATE LIMITS OF MINING AND
DEVELOPMENT WORK APRIL 1951

 DEPTH OF DEVELOPMENT WORK, APRIL, 1951

SCALE

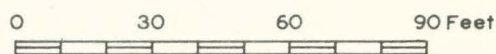


FIG. 3

PLAN AND SECTION OF THE MAIN TACTITE LENS AT THE BRATCHER MINE

RECORD IDENTIFICATION

RECORD NO..... M061977
RECORD TYPE..... X1N
COUNTRY/ORGANIZATION. USGS
MAP CODE NO. OF REC..

REPORTER

NAME..... SMITH, ROSCOE M.
DATE..... 78 08
UPDATED..... 80 12
BY..... FERNS, MARK L.; (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... BRATCHER DPALITE LEDGE

COUNTRY CODE..... US
COUNTRY NAME: UNITED STATES

STATE CODE..... OR
STATE NAME: OREGON

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME
1: 62500 LAKE CREEK

LATITUDE LONGITUDE
42-15-20N 122-39-16W

UTM NORTHING UTM EASTING UTM ZONE NO
4678000. 528500. +10

TWP..... 38S
RANGE..... 01E
SECTION.. 24
MERIDIAN. WB & M

LOCATION COMMENTS: NW 1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... SIL

ANALYTICAL DATA(GENERAL)
ASSAYED AT 94% SID2, NIL HG

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 1

COMMENTS(DESCRIP. OF WORKINGS):

PITS

PRODUCTION

NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... OLIGO-MIO
HOST ROCK TYPES..... TUFF, ANDESITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: LITTLE BUTTE VOLCANIC SERIES
AGE: OLIGO-MIO

GENERAL REFERENCES

- 1) BRATCHER OPALITE; ODGMI UNPUBLISHED FILE REPORT