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 ¼ 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:

<table>
<thead>
<tr>
<th>Sample</th>
<th>SiO₂</th>
<th>Ignition Loss</th>
<th>Hg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG-256A</td>
<td>93.68%</td>
<td>2.98%</td>
<td>Nil</td>
</tr>
<tr>
<td>PG-256B</td>
<td>95.14%</td>
<td>2.84%</td>
<td>Nil</td>
</tr>
</tbody>
</table>

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.

BATCHER #10 PROSPECT (SiO₂, Mo)


 Location: NE¼ 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 ½ 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 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 30 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.


* * * * *
Addendum Report

BRATCHER SILICA No. 10 (SiO₂, Mo)

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:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Au</td>
<td>Ag</td>
</tr>
<tr>
<td>UQ-105</td>
<td>Nil Trace</td>
</tr>
</tbody>
</table>

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.

* * * * *

Resigned
Lot 271 of scheelite concentrates (13 cans) sampled by Dominic Botte of The Twining Laboratories, on June 20, 1949.

Moisture-----------------------------------Nil

Weight:  
Gross---------------------3497 lbs.
Tare----------------------73 lbs.
Moisture-------------------Nil lbs.
Net dry weight------------54.9 lbs.

Units of WO₃ ----------------------------------------109,10029

Analysis on moisture free basis -

Tungsten trioxide (WO₃) --------------------------33.82%
Phosphorus (P) ----------------------------------0.197%
Molybdenum (Mo) -------------------------------0.24%
Manganese (Mn) -----------------------------------0.38%
Sulphur (S) --------------------------------------0.08%
Copper (Cu) --------------------------------------0.01%

By Fred W. Twining

v/aj/es
THE TWINSING LABORATORIES
2527 Fresno Street, Fresno, Calif.

June 27, 1949

Examination
236999

For - Mrs. E. A. Batcher
4th. 1, Box 17
Ashland, Oregon

Sample - Tails

Tungsten trioxide, WO3 ------------------ 0.18

percent by weight

THE TWINSING LABORATORIES

By Fred W. Twining

vy/es
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 \( \frac{3}{4} \) 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
PURCHASE STATEMENT, Tungsten Ore Concentrate

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: 58.132% WO₃. 64.032 Units WO₃, Under 60% WO₃. Penalty $0.1868/unit

- 0.18% Molybdenum........................................
- 0.153% Phosphorous.......................................
- 0.11% Sulphur............................................
- 0.01% Copper.............................................

(WO₃ Units adjusted to moly corp final)

Handling Charge... .50

Total Deductions...1.7168

Pay per Unit: $23.50, less $1.168...........Deduction............$21.7832

Gross Pay: 64.032 Units @ $21.7832...........per unit.............$1,394.82

Provisional % $

Charges: Freight $77.37, Upgrading $...

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

Net to Seller $1,253.23

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 Department of Geology and Mineral Industries
702 Woodlark Building
Portland, Oregon

PURCHASE STATEMENT, Tungsten Ore Concentrate

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: 68.132% WO₃, 64.032 Units WO₃, Under 60% WO₃. Penalty $0.1888/unit

- 0.16% Molybdenum
- 1.03% Phosphorous
- 1.11% Sulphur
- 0.01% Copper

(WO₃ Units adjusted to Moly Corp Final)

Handling Charge: $0.50/unit
Total Deductions: $21,7832/unit
Pay per Unit: $23.50, less $1,706.48. Deduction: $21,7832/unit

Gross Pay: 64.032 Units @ $21,7832/unit
Provisional: $1,394.82

Charges: Freight $77.07, Upgrading $
Sampling-Assaying $15.00 & $35.00, Blending $11.02. FPE $

Net to Seller: $1,253.23

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

Balance: Provisional: $1,394.82
Final: X
Settlement to Seller: $271.95

Owner or Authorized Agent, Seller:
C. W. Jones
Assignee and/or Buyer:
PLAN AND SECTION OF THE MAIN TACTITE LENS AT THE BRATCHER MINE
CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO. M061677
RECORD TYPE XIN
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 OPAHITE LEDGE
COUNTRY CODE US
COUNTRY NAME UNITED STATES
STATE CODE OR
STATE NAME OREGON
COUNTY JACKSON
QUAD SCALE 1: 62500
QUAD NO OR NAME LAKE CREEK
LATITUDE 42-15-20N
LONGITUDE 122-39-16W
UTM NORTHING 4678000.
UTM EASTING 528500.
UTM ZONE NO +10
TWP 98S
RANGE 01E
SECTION 24
MERIDIAN WB & M
LOCATION COMMENTS: NW 1/4

COMMODITY INFORMATION
COMMODITIES PRESENT SIL

ANALYTICAL DATA(GENERAL)
ASSAYED AT 94% SIO2, NIL HG

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 1
COMMENTS (DESCRIPTION OF WORKINGS):

PITS

PRODUCTION

NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS: Oligo-Miocene
HOST ROCK TYPES: Tuff, Andesite

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
1) NAME: Little Butte Volcanic Series
   AGE: Oligo-Miocene

GENERAL REFERENCES

1) Bratcher Opalite; ODGMI unpublished file report