The amount of work done, and the amount the vein was exposed were slightly misrepresented, or the trip would not have been made at this time. With only 5 feet of the vein exposed, and the country heavily brushed and timbered, it is impossible to arrive at any pertinent conclusions.

Except that scheelite may be panned from the material dug from the vein. Assays are being run by Lewis at present. Two samples were cut, - one across the vein, 36 inches; the other across a portion of the vein, 31 inches. Mitchell had submitted a sample cut across the vein, width 56 inches. These three samples will give an estimate of the vein at this point, - three samples in 5 feet.

It will be difficult to find any definite dope on the cinnabar. It seems to be so widely disseminated and the country is so difficult to prospect, that it is doubtful if more will be done with it.

Recommendations to Mitchell were to drift on the scheelite vein to the west (into the hill) a short distance, in order to determine whether the vein continues; to see if the values hold up and continue, and to get into "solid rock". The material exposed is all badly weathered.

It is an interesting occurrence. Particularly with cinnabar and scheelite both present. Undoubtedly the cinnabar is post-scheelite, and the two have no correlation.

Ray C. Treasher,
Field Geologist,
March 11, 1941.

Trip and Inspection made with Preston Hetz, U.S.G.S.
March 12, 1941

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

MOCKS GULCH CLAIMS (Mercury & Tungsten) UPPPER APPLegATE AREA

Owners: Russell Mitchell and D. A. Wright, Jacksonville, Ore.

Location: W1/4 SW1/4 NE1/4 sec. 17, T. 40 S., R. 4 W., west of Brush Cr., a tributary of Carberry Cr. Elev. 3400 feet.

Area: Two claims.

History: The scheelite vein opening was made in 1917 by a man who "doodle-bugged" the locality for gold. No work was done on the property.

Development: Five small open cuts. The largest is about 50 ft. long. The scheelite vein is opened for a length of 5 feet and a width of 3 feet.

Geology: Country rock is metavolcanic, of the Applegate (Paleozoic?) series of the Grants Pass geologic map. Heavy brush and soil cover obscures practically all outcrops. One outcrop of a sheared pyroclastic, metamorphosed, showed the schistocity trend as N. 35° E., with a N.W. dip at a high angle. The metavolcanic rock is deeply weathered and iron stained.

Cinnabar is present in portions of the metavolcanic rock, but no evidence of concentration was noted. All cuts showed some cinnabar but the grade is low. (1-2 lb.) Cinnabar seen is present on fracture planes as smears or "paint". It is present in the wall rock at the scheelite vein.

Scheelite occurs in a vein that is 3 feet wide, and is exposed for a length of 5 feet. The vein or shear zone has well defined walls and seems to be sheared metavolcanic rock. The vein strike is E-W and dips due south 70°. Good scheelite "strings" can be obtained by panning.

Ray C. Treasher,
Field Geologist,
March 11, 1941.
The law passed by the Legislature, governing the free assaying and analyzing of samples sent to the State Assay Laboratories, provides that certain information be furnished the Laboratory regarding samples sent for assay, etc. A copy of this law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for on the following blank, as far as possible and return the same to the nearest State Assay Laboratory along with your sample? If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full: Ray C. Tresho, Field Geologist, S.D.G., & M.I.

Postoffice address: Grants Pass, Oregon.

Are you a citizen of Oregon? Yes. Date on which sample is sent: March 11, 1941.

Name (or names) of owners of the property: Russell Mitchell & D. A. Wright.

Name of particular claim and date of location: Mock Gulch Claims.

Location of property or source of sample (describe as accurately as possible below):

(1) County: Jackson.
(2) Mining district: Upper Applegate.
(3) Township: 40S.
(4) Range: 4W.
(5) Section: 17.
(6) Quarter Section: SW 1/4 NE 1/4.

How far from passable road? 1 1/2 mile.

Do you wish the sample examined for commercial minerals?

For what metals do you wish the sample assayed? Tungsten.

Type of sampling: Channel (length) 5 - across vein 36 inches, 2 - across vein 31 inches.

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) R. C. Tresho.

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

Description: Vein is exposed for 5-ft. length and averages 36 inches wide. Vein is sheared metavolcanic rock (?) with well defined walls. Country rock is metavolcanic. Vein strikes E-W and dips S. 70°.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>GOLD oz./T Value</th>
<th>SILVER oz./T Value</th>
<th>Percent</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sample submitted by R. C. Treasher, Field Geologist, State Assay Laboratory, Grants Pass, Oregon.

Sample description: Two samples of highly altered, meta-volcanic rock.

The assay results given below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results given below are from a sample furnished by the above named person. This department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>GOLD</th>
<th>SILVER</th>
<th>WO₃ (Tungstic)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ounces per ton</td>
<td>Value</td>
<td>Ounces per ton</td>
</tr>
<tr>
<td>1</td>
<td>2.26</td>
<td>$45.36</td>
<td>2.26</td>
</tr>
<tr>
<td>2</td>
<td>Trace</td>
<td></td>
<td>Trace</td>
</tr>
</tbody>
</table>

Market Quotations:
- Gold: $ per oz.
- Silver: $ per oz.
- Tungsten ore: per unit of WO₃: $24.00

Note: A long ton unit equals 22.4 lbs.
Grants Pass, Oregon

Sample submitted by Russell Mitchell

Sample description Highly altered, ocherous rock. \( \frac{5}{4} \) lb. \( \frac{1}{2} \) inch and smaller.

---

The assay results given below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results given below are from a sample furnished by the above named person. This department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>GOLD</th>
<th>SILVER</th>
<th>WO₃ (Tungstic acid)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ounces per ton</td>
<td>Value</td>
<td>Ounces per ton</td>
</tr>
<tr>
<td>Trace</td>
<td>None</td>
<td>0.45</td>
<td></td>
</tr>
</tbody>
</table>

Market Quotations:

<table>
<thead>
<tr>
<th>Material</th>
<th>Quotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>$ per oz.</td>
</tr>
<tr>
<td>Silver</td>
<td>$ per oz.</td>
</tr>
</tbody>
</table>

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY REPORT

Office Number __________

April 5 1941

Jacksonville, Oregon

Assayer
The law passed by the Legislature, governing the free assaying and analyzing of samples sent to the State Assay Laboratories, provides that certain information be furnished the Laboratory regarding samples sent for assay, etc. A copy of this law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for on the following blank, as far as possible and return the same to the nearest State Assay Laboratory along with your sample?

If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full: **Milton F. Murphy**

Postoffice address: **Applegate, Oregon**

Are you a citizen of Oregon? **Yes**

Date on which sample is sent: **Dec. 11, 1941**

Name (or names) of owners of the property: **M. F. Murphy**

Name of particular claim and date of location:

Location of property or source of sample (describe as accurately as possible below):

- **County**: Jackson
- **Mining district**: Steamboat
- **Township**: 40
- **Range**: 4
- **Section**: 17
- **Quarter Section**

How far from passable road? **1.5 miles**

Do you wish the sample examined for commercial minerals? **Yes**

For what metals do you wish the sample assayed? **tungsten & mercury**

Type of sampling: **Channel (length)**

**IMPORTANT**: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) **M. F. Murphy**

Description: **A brown weathered rock showing some cinnabar.**

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>GOLD oz./T Value</th>
<th>SILVER oz./T Value</th>
<th>Mercury Percent</th>
<th>Tungastic Oxide (WO3) Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>4.3 #/T.</td>
<td>0.2</td>
</tr>
</tbody>
</table>
CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO.............. MC55849
RECORD TYPE............ X3M
COUNTRY/ORGANIZATION: USGS
INFORMATION SOURCE.... BAILEY, E. H.
MAP CODE NO. OF REC.

REPORTER

NAME................................. PETERSON, JOCelyn A.
DATE................................. 76 08
UPDATED............................. 81 02
BY.......................... FERNs, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME...................... MOCKS GULCH PROSPECT
SYNONYM NAME...................... MAX GULCH
MINING DISTRICT/AREA/SUBDIST. UPPER APPLEGATE
COUNTRY CODE...................... US
COUNTRY NAME: UNITED STATES
STATE CODE......................... OR
STATE NAME: OREGON
COUNTY.................. JACKSON
DRAINAGE AREA........ PACIFIC NORTHWEST
PHYSIOGRAPHIC PROV........ 13 KLAMATH MOUNTAINS

QUAD SCALE 1: 62500
QUAD NO OR NAME RUCH
LATITUDE 42-05-35N
LONGITUDE 123-11-58W
UTM NORTING 4659900.
UTM EASTING 435000.0
UTM ZONE NO +10

TWP................. 040S
RANGE.............. 094W
SECTION............. 17
MERIDIAN........ WILLAMETTE

ALTITUDE........... 3400
LOCATION COMMENTS: SW/4 NE/4
ORE MATERIALS (MINERALS, ROCKS, ETC.): CINNABAR, SCHEELITE

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 2
YEAR OF DISCOVERY .......... 1917
PRESENT/LAST OWNER .......... R.A. MITCHELL & D.A. WRIGHT

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MINERALIZED SHEAR ZONE

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT .......... SMALL
MAX WIDTH ................. 3 FT
STRIKE OF OREBODY ..... E
DIP OF OREBODY .......... 70 S

COMMENTS (DESCRIPTION OF DEPOSIT):
SHEAR ZONE PROSPECTED MAINLY FOR SCHEELITE; CINNABAR OCCURS LOCALLY COATING FRACTURE SURFACES IN THE SHEAR ZONE AND IN THE WALL ROCKS

DESCRIPTION OF WORKINGS
SURFACE AND UNDERGROUND

COMMENTS (DESCRIPTION OF WORKINGS):
WORKINGS INACCESSIBLE

PRODUCTION
NO PRODUCTION

GEOL OGY AND MINERALOGY

AGE OF HOST ROCKS .......... PERM-TRI
HOST ROCK TYPES .......... METAVOLCANICS

LOCAL GEOL OGY
NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
1) NAME: APPLEGATE GROUP

SIGNIFICANT ALTERATION:
DEEPLY WEATHERED METAVOLCANICS
The law passed by the Legislature, governing the free assaying and analyzing of samples sent to the State Assay Laboratories, provides that certain information be furnished the Laboratory regarding samples sent for assay, etc. A copy of this law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for on the following blank, as far as possible and return the same to the nearest State Assay Laboratory along with your sample? If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full: T. F. Murphy

Postoffice address:

Are you a citizen of Oregon? Yes

Date on which sample is sent:

Name (or names) of owners of the property: M. F. Murphy

Name of particular claim and date of location:

Location of property or source of sample (describe as accurately as possible below):

1. County: Jackson
2. Mining district: Lemoine
3. Township: 4
4. Range: 4
5. Section: 17
6. Quarter Section:

How far from passable road?: 1/2 mile

Do you wish the sample examined for commercial minerals? Yes

For what metals do you wish the sample assayed: Silver, Mercury

Type of sampling: Channel (length)

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) T. F. Murphy

Description: A brown weathered rock showing some cinnabar

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Gold oz./T Value</th>
<th>Silver oz./T Value</th>
<th>Manganese Percent</th>
<th>Tungsten Oxide (WO3) Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.3 oz.</td>
<td>0.2 oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
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Postoffice address: Grants Pass, Oregon.

Are you a citizen of Oregon? Yes. Date on which sample is sent: March 11, 1941.

Name (or names) of owners of the property: Russell Mitchell & D. A. Wright.

Name of particular claim and date of location: Mock Crooked Gulch Claims.

Location of property or source of sample (describe as accurately as possible below):


How far from passable road? ½ mile.

Do you wish the sample examined for commercial minerals? Yes.

For what metals do you wish the sample assayed? Tungsten.

Type of sampling: Channel (length). #1 - across vein 36 inches, #2 - across vein 31 inches.

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) Ray Treasher.

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

Description: Vein is exposed for 5-ft. length and averages 36 inches wide. Vein is sheared metavolcanic rock (?) with well defined walls. Country rock is metavolcanic. Vein strikes E-W and dips S. 70°.

<table>
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<th>Sample Number</th>
<th>GOLD</th>
<th>SILVER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oz./T Value</td>
<td>oz./T Value</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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Your name in full: Russell Mitchell
Postoffice address: Jacksonville, Ore.
Are you a citizen of Oregon? Yes
Date on which sample is sent: Jan. 3, 1941
Name (or names) of owners of the property: R. Mitchell, D. A. Wright
Name of particular claim and date of location: May 18, 1940
Location of property or source of sample (describe as accurately as possible below):

(1) County: Jackson
(2) Mining district: Steamboat
(3) Township:
(4) Range:
(5) Section:
(6) Quarter Section

How far from passable road?

Do you wish the sample examined for commercial minerals?

For what metals do you wish the sample assayed?

Type of sampling: Channel (length) 3 ft. Grab. Pipe

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) Russell Mitchell

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Description

Sample GOLD SILVER
Number oz./T Value oz./T Value Percent Percent
LAW RELATING TO FREE ANALYSIS OF ORES, MINERALS, ETC.

CHAPTER 179, Section 10, Oregon Laws 1937.

The department shall make, or cause to be made, quantitative determinations of ores and minerals when submitted for the purpose by citizens of the state, and shall mail to the sender the results obtained within 10 working days after receipt of samples; said service shall be performed by the department without charge to the sender and shall be rendered in exchange for information for the records of the department, stating the name and residence of the sender together with a history of the ore or mineral, giving as nearly as possible the location from which the sample was taken, including the name of the county, and any other matters that may be beneficial touching the same. All determination shall be performed under the following rules and regulations and subject to the following restrictions:

(a) No samples submitted by engineers sampling prospects or mines for the purpose of evaluation, or submitted by operating mines milling or shipping ore, or hiring labor, shall be accepted by the department for assay and/or analysis, except they be taken in the field by members of the department's staff in conducting the work of the department within the scope of this act. In no case shall samples from states other than Oregon be accepted.

(b) The number of samples which any single person or group of persons may submit shall be limited to two in any 30 day period and all samples shall be assayed or analyzed by the department in the order received, as far as possible.

(c) All information received and results of determination sent out shall be open to public inspection and may be published by the department.

(d) Before any work is done on the material submitted, all information required must be possessed by the department and the 10 day limit for reports will count from the time such data are received by the department.

This is a large vein 3 ft or more. It pans scheelite and Cinnabar. I should like to know whether the iron is a tung state. Will it be possible to have the engineer come out to give me some points so I can soon? If he will drop me a card telling me when he can come, I'll be sure to meet him. Come to Steamboat or Carberry Creek. I have prospect buyers as soon as I can get an engineer's report.
The law passed by the Legislature, governing the free assaying and analyzing of samples sent to the State Assay Laboratories, provides that certain information be furnished the Laboratory regarding samples sent for assay, etc. A copy of this law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for on the following blank, as far as possible and return the same to the nearest State Assay Laboratory along with your sample? If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full: Russell Mitchell
Postoffice address: Jacksonville, Ore.
Are you a citizen of Oregon? Yes
Date on which sample is sent: March 3, 1941
Name (or names) of owners of the property: R. Mitchell & D. J. Wright
Name of particular claim and date of location: Knowles Gulch Claim
Location of property or source of sample (describe as accurately as possible below):
(1) County: Jackson
(2) Mining district: Stambohl
(3) Township: 40S
(4) Range: 4W
(5) Section: 17
(6) Quarter Section: NE
How far from passable road: 3/4 mile
Do you wish the sample examined for commercial minerals? Yes
For what metals do you wish the sample assayed? Gold & Silver
Type of sampling: Channel (length) 36 in., Grab, Pipe

IMPORTANT: A sample, to be of value, should be taken in an even channel across the vein from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value; they create little interest in the minds of experienced investors and engineers.

(signed) Russell Mitchell

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Description: Highly altered, ocherous material.
3/4 lb. 1/2" Pans, scheelite.

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Gold Value (oz. / T)</th>
<th>Silver Value (oz. / T)</th>
<th>Wt. %</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trace</td>
<td>Trace</td>
<td>None</td>
<td>.45</td>
<td>.45</td>
</tr>
</tbody>
</table>
MOCKS GULCH PROSPECT (7)

General

The Mocks Gulch prospect is located at an elevation of 3,400 feet in the SW¼ NE¼ sec. 17, T. 40 S., R. 4 W., Jackson County. The prospect is west of Brush Creek, a tributary of Carberry Creek in the Upper Applegate area.

The property has been prospected for both cinnabar and scheelite. Development work consists of 5 small open cuts. The largest of these is 50 feet in length. The only occurrence of scheelite is in a small cut which was opened in 1917.

Geology

The prospect is located in deeply weathered metavolcanic rocks of the Applegate group. No granitic intrusives are exposed in the immediate area; however, there is a small diorite intrusive approximately 2 miles to the southeast near Steamboat. The large Grayback Mountain granitic stock is located about 4 miles west of the prospect. Scheelite occurs in a well-defined shear zone in the metavolcanic rocks striking east and dipping about 70° S. The zone is 3 feet wide and has been opened for only 5 feet along the strike. Cinnabar occurs in the wall rock of the zone and has been noted in small amounts elsewhere on the property, occurring along fracture planes in the metavolcanic rocks.

From: G.M.I. Short Paper No. 22