

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

MEMORANDUM REPORT ON THE MAUD 3 QUICKSILVER MINE

Location

N $\frac{1}{2}$ of sec. 34, T. 29 S., R. 2 W. Tiller-Drew mining district,
Douglas County.

The property is located roughly 7 miles north of Tiller, Oregon, on the south side of Deadman Creek, a tributary of the South Umpqua River. An unsurfaced road from the mine, approximately 8 miles in length, connects with State Highway 227 about one mile east of Tiller.

Development

A total of 334 feet of drift and about 110 feet of crosscut had been completed and reopened in the upper workings of the Maud 3 mine at the time of the inspection. A small overhand stope 10 feet by 15 feet was the only stope not covered with timber and available for inspection.

Geology

Back cross - The first 115 feet of the drift is in lapilli tuff that has pumice fragments up to a quarter of an inch in size and contains occasional subrounded basalt boulders. The tuff shows a "pseudo-banding" from iron oxide staining. Approximately 250 feet beyond the portal the lapilli tuff is in contact with a massive lithic tuff. The contact trends N. 70° E. and dips 45° to the NW. The lithic tuff is composed of small rounded fragments of volcanic material and is green to gray in color. Layers of clayey tuff are present. In the crosscut the lithic

tuff is in contact with a blocky porphyritic andesite. The contact trends N. 25° W. and dips 65° SW.

Structure - The drift follows a series of narrow, northerly-trending shear-type faults which are often filled with calcite-siderite. Gouge or filling along the faults is seldom greater than 6 inches in width. Narrow northwest-trending faults may have cut off the northerly shearing at the junction of the crosscut and the drift. Parallel slickenside surfaces are sometimes separated by fault gouge and clay zones developed from alteration of the tuff. These structures show no visible mineralization although it appeared that some stoping had been done on them.

The fault contact in the crosscut is marked by 2 feet of gouge. This feature may be exposed at the bottom of the "Glory Hole".

A fault or shear zone near the face of the drift trends N. 45° W. and dips 65° SW. This fault carries a little cinnabar in the floor underneath the small overhead stope. The cinnabar is in the hanging wall of the structure. Slickensides indicate the last movement was that of a reverse fault.

The face of the drift is in 4 feet of gouge. This might indicate a strong shear immediately to the right of the face.

Alteration - The wallrock in places has been stained by iron oxides and hydroxides, and often the shear zones have been slightly stained by black manganese oxides.

Perhaps the most distinctive feature of the alteration is the presence of limonite "ribs". These brown ribs, averaging 2 inches in width, stand out because of silicification and limonitization. Calcite frequently accompanies the iron and silica. The ribs are most prominent near the crosscut.

Pyritization has taken place in the massive lapilli tuff in a limited area in the main drift.

Ore - The only ore exposed in the mine is near the face where a 6-8 inch stringer of calcite is cut by several small (one-eighth inch and less) stringers of cinnabar. The stringer is in the hanging wall of a strong shear and has been explored in the small overhand stope.

Conclusions

The minor amount of ore showing, the heavy timbering in most of the drift, and the limited exploration work do not warrant any definite conclusions. The small showing of cinnabar in the floor near the face should be followed to determine its significance. Also the indicated presence of a structure a few feet to the right of the drift near the face should be explored. Exploration should continue in the overhand stope where sample P-17652 was obtained.

It is recommended that an engineering and geologic examination of all the mine workings and the surface of the Maud S - Buena Vista claims be made and integrated. The examination should include an extensive sampling program.

SAMPLING

<u>LOGAMI No.</u>	<u>Sample #</u>	<u>Location & Type</u>	<u>Result</u>
P-17650	1	Shear in crosscut Chip across 18"	0.6 lb/T
P-17652	2 a	Overhand stope Chip across 4.5'	1.30 lb/T
P-17653	2 b	"	Trace
P-17651	3	From 4' of gouge in face	Nil

Examined by: Max Schafer and H. M. Dole
Date of examination: December 1954
Report by: Max Schafer, January 1955
References: U.S. Geological Survey Bulletin 850
Departmental files

RECORD IDENTIFICATION

RECORD NO..... M055877
 RECORD TYPE..... XIM
 COUNTRY/ORGANIZATION. USGS
 INFORMATION SOURCE... BAILEY, E. H.
 MAP CODE NO. OF REC..

REPORTER

NAME..... PETERSON, JOCELYN A.
 DATE..... 76 08
 UPDATED..... 81 03
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... MAUD S.
 SYNONYM NAME..... OREGON MERCURY CORP.

MINING DISTRICT/AREA/SUBDIST. TILLER

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

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

COUNTY..... DOUGLAS
 DRAINAGE AREA..... 17100302 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PROV..... 13 CASCADE RANGE

QUAD SCALE QUAD NO OR NAME
 1: 62500 RED BUTTE

LATITUDE LONGITUDE
 43-00-54N 122-55-53W

UTM NORTHING UTM EASTING UTM ZONE NO
 4762280.0 505600.0 +10

TWP..... 029S
 RANGE..... 002W
 SECTION.. 34
 MERIDIAN. WILLAMETTE

POSITION FROM NEAREST PROMINENT LOCALITY: 6.5 MI. E. OF TILLER

LOCATION COMMENTS: N - CENTRAL PART OF SEC. 34

PRODUCED OR PRESENT
MAJOR PRODUCTS.. HG

ORE MATERIALS (MINERALS, ROCKS, ETC.):
CINNABAR

MAIN ORE MINERALS:
CINNABAR

ANALYTICAL DATA (GENERAL)
CHIP SAMPLE ASSAYED 1.3 LB/TON HG

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 6
PROPERTY IS INACTIVE
PRESENT/LAST OWNER..... STEVE COOPER AND BERNARD YOUNG, 1963

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
VEINLETS
FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT..... SMALL
STRIKE OF OREBODY.... N 25 W
DIP OF OREBODY..... 70 W

DESCRIPTION OF WORKINGS
UNDERGROUND
LENGTH OF WORKINGS..... 900 FT

COMMENTS (DESCRIP. OF WORKINGS):
PARTS NOW CAVED

PRODUCTION
YES
SMALL PRODUCTION

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., OVERBUR.)

PRODUCTION YEARS..... 1928 - 1930

SOURCE OF INFORMATION (PRODUCTION).. BROOKS

PRODUCTION COMMENTS.... NO RECORDED PRODUCTION, BUT PROBABLY A FEW FLASKS WERE PRODUCED IN 1928-1930 AND 1934-1936

GEOLOGY AND MINERALOGY

AGE OF MINERALIZATION..... UPPER TER

PERTINENT MINERALOGY..... CALCITE, CHALCEDONY, LIMONITE, CLAY MINERALS

IMPORTANT DRE CONTROL/LOCUS.. SYSTEM OF SMALL FAULTS; STRIKE N25-45E; DIP 60-80E

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: COLESTIN-FISHER
AGE: ED

SIGNIFICANT ALTERATION:

HOST ROCKS ARE SHEARED, CARBONATIZED AND IMPREGNATED WITH CALCITE AND CHALCEDONY VEINLETS. GOUGE RICH ZONES COMMON.

GEOLOGICAL PROCESSES OF CONCENTRATION OR ENRICHMENT:

HYDROTHERMAL SOLUTIONS

MAUD S. MINE

The six claims of the Maud S. mine were staked in 1926 by Ralph Young, H. H. Pennd, J. Leach, and Mrs. J. Darling. A few flasks of quicksilver have been produced. The workings are situated 1,400 feet S. 26° E. of the Buena Vista mine and several hundred feet higher up the side of the gulch. The mine has 600 feet of workings distributed between 3 adits and 2 raises, one raise connecting the lower level with the intermediate level and the other connecting the intermediate with the upper level. (See fig. 4.)

The adits have been driven along a fault that strikes N. 25° W. and dips 70° SW. They are all in sheared and altered porphyritic andesite cut by veinlets of calcite. A vein 3 to 4 feet wide of cellular rock incrustated and stained by hydrated oxides of iron and containing cinnabar and a little unoxidized marcasite has been followed by the upper adit. According to Mr. Leak, the vein material assayed about 2½ percent of quicksilver. In the intermediate adit, 29 feet below the upper adit, the vein material has pinched to a width of a few inches and is not oxidized. The pinching of the ore is probably due to the presence of a large amount of gouge in the fault zone, for although some calcite and marcasite have been deposited in the gouge the conditions are not favorable for mineralization. The fact that oxidation has not reached the intermediate adit should be emphasized. The rock exposed in the lower adit is cut by many anastomosing veinlets of calcite that range from a quarter of an inch to 2 inches in width. A little cinnabar and marcasite are associated with the calcite in the veinlets, and these minerals are also found disseminated through the rock. Part of the rock in the lower adit may assay 3 or 4 pounds of quicksilver to the ton, but not more.

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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ASSAY REPORT

Office Number

Grants Pass, Oregon
~~Baker, Oregon~~

September 28 1939

Sample submitted by J. E. Morrison

Grants Pass, Oregon

Sample description Five samples from the Maude S Mine owned by Mr. P. A. Nichols.

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.

Sample Number	GOLD		SILVER		Mercury		Percent	Value	Total Value
	Ounces per ton	Value	Ounces per ton	Value	Percent	Value			
1					Blank				
2					Blank				
3					Blank				
4					Blank				
5					1.89	84.81			

Market Quotations:

Gold \$ per oz.
Silver \$ per oz.
 \$ per oz.
 \$ per oz.

Mercury \$170.00 per flask of 76 lbs.

STATE ASSAY LABORATORY

Albert G. Lane
Assayer

copy

P 17807
Hg

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 B. A. Young

Post office address 1020 Council Street, Roseburg, Oregon

Are you a citizen of Oregon? Yes Date on which sample is sent 1-24-55

Name (or names) of owners of the property Young & Cooper

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

Name of claim sample obtained from Maud S

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

County Douglas Mining district Tiller-Drew

Township 29 S. Range 2 W. Section 33 & 34 Quarter section

How far from passable road and name of road Right on Deadman Creek road

	<u>Channel (length)</u>	<u>Grab</u>	<u>Assay for</u>	<u>Description</u>
Sample no. 1	<u></u>	<u>x</u>	<u>Hg</u>	<u>Four 2"-6" chunks</u>

Sample no. 2
(Samples for assay should be at least 1 pound in weight)

(Signed) B. A. Young

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

Description Bleached vein material showing pyrite, cinnabar, calcite, siderite and quartz.

Sample number	GOLD		SILVER		MERCURY			
	oz./T.	Value	oz./T	Value	Hg			
P-17807	---	--	---	--	41.4 lb/ton	---	---	---

Report issued Card filed Report mailed 2-4-55 Called for

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORIES

Baker, Oregon
Grants Pass, Oregon

SAMPLE INFORMATION REQUESTED

The law passed by the Legislature, governing the free assaying and analyzing of samples sent to a State Assay Laboratory, provides that certain information be furnished to the Laboratory regarding samples sent for assays, etc. A copy of the law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for in 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 . . . *J. E. Morrison*

Postoffice address

Are you a citizen of Oregon? Date on which sample is sent. *9/23*

Name (or names) of owners of the property . . . *P. F. Nichols*

Name of particular claim and date of location . . . *Maudie 5*

Location of property or source of sample:

(1) County . . . *Douglas* . . . (2) Mining District . . . *Tiber* . . . *Drew*

(3) Township . . . *29 S* . . . (4) Range . . . *2 W* . . . (5) Section . . . *34*

(6) Quarter Section

How far from passable road? . . . *on road*

For what do you wish sample tested? . . . *Hg*

Does your sample represent a new discovery? . . . *no*

On a newly located claim? . . . *no* . . . Old? . . . *yes*

Has any ore from this claim been milled or shipped? . . . *yes*

Width of ore where sample was taken (length of channel cut) . . . *5 samples*

Remarks: The Department would be pleased to have you add to the above, such information as you think would be of interest and value. Use the reverse side of this sheet or a separate sheet. This could best be shown by a pencil sketch, indicating the development on the claim with the widths of vein, especially the width of ore at the place where this sample was taken.

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 but little interest in the minds of experienced investors and engineers.

(signed) *J. E. Morrison*

(Over)

DOVE & ROBINSON, Ltd.

Commercial, Publication and Poster

PRINTERS

Telephone MAIN 4645



648 FOURTH Avenue

J. H. Nichols.

Orient Wash.

*Scott Furnace. late type
to be installed.*

*Doing development
Work all of 1938.*

Manda S. Mine. 8/30/39

See 34? T295 R210

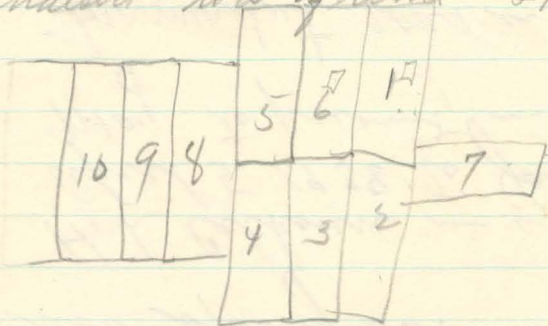
P. H. Nichols Orient Wash.

2 1/2 Miles from Liller

about 1350' north of Adit.

Lower Tunnel - S 10 E 60'

and adits - lots of lime 2160' E 1



N 73 E 120 - from a
joint 35' toward portal from
raiser.

Mr Nichols purchased claims
in 1937.

Mr Farmer leased it about
1930 - 50 flask from Johnson
McKay.

Christie Bros. of Rhyanorth.
34 to 36 built. Scott (Eton)
furnace. - from looks
of dump over 100 tons
was burned.

Amateur condensing system.

Mr. Nichols finally got
till spring 38.

H. L. Calhoun in charge
April 5 1938 to Jan 1 1939
May to present in 1939.

Farmer put road in 1930.

About 90' N 73° E a
contact gradation to
dense dark rock. can
see N 30 W approx
good spring in 10 claims.
Snow. 5 ft. Jan to May
hard to get in.

