

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, OregonIRWIN MOLYBDENUM PROSPECT

Gold Hill area

A persistent quartz vein carries abundant plates of molybdenite, as well as copper minerals. It is exposed, by trenching, for a length of 600 feet. Similar veins are reported from the vicinity.

Owners: Mrs. R. J. Shauli, G. T. & G. C. Irwin, Rogue River.

Area: 88 acres of deeded land.

Location: NE $\frac{1}{4}$ sec. 16, T. 36 S., R. 4 W., 0.7 miles up the West Side Evans Cr. road and $\frac{1}{4}$ mile west of the road.

History: The area was heavily prospected for gold in the early days, and the gulch to the west was placered. The molybdenite ore was recognized by G. C. Irwin, who began active prospecting in 1937. The old Homestake property (now Hidden Treasure) adjoins it on the west.

Topography: The property lies on a small ridge that extends southeast from Fieldner Mt. The ridge is about 200 ft. above the valley floor, slopes are moderate and covered with heavy brush. Little timber. No water. Climate will permit year around work.

Development: An old tunnel, reported as 100 ft. long, is caved and unsafe. An old shaft is also caved. Since 1937, a 50 ft. cut has been excavated and numerous trenches to expose the ore are found over the 600 feet of vein length.

Geology: The country rock generally is classed as metavolcanic, according to the Grants Pass geologic map. It appears to be, in the main cut. Above this cut and westward to the gulch, the rock seems to be a "diorite", although it is badly weathered. West of the gulch, the rock is metavolcanic, which suggests that the "diorite" may be in the form of a N.W. trending dike about 600 feet wide.

The quartz is glassy and very brittle. The near-surface exposures are somewhat iron stained. Molybdenite is found in plates that range from $\frac{1}{8}$ - $\frac{1}{2}$ inches across, and with apparently random orientation. Pyrite, usually in cubes, and marcasite? are common sulfides. Chalcopyrite is not as common, and frequently it is altered to covellite? and chalcocite?. Copper stain is abundant and is recognized as malachite, azurite, and chalcanthite. The azurite stain may be quite beautiful; it occupies minute fractures in the quartz and gives pieces a bluish cast. A greenish yellow stain, or "bloom", which may be molybdenite, is fairly common. Gold is not common although tellurides are reported. $\frac{1}{2}$

The quartz vein has a generalized strike of N. 45° W., and dips from 30°-60° N.E. Instead of being one large quartz vein, the "vein" may represent a series of anastomosing veins, as in some of the cuts smaller quartz veins with varying strikes and dips are visible. On the hanging wall side is about 12 inches of finely fractured quartz that contains lenses of clayey iron oxide. The owners call this the "galena vein". Above the quartz is soil. Deeply weathered "diorite" forms the footwall.

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702 Woodlark Building
Portland, Oregon

The principal cut shows 12 inches of the "galena vein" and 4 ft. of quartz with abundant sulfides. Above this cut, other trenches and pits expose similar quartz containing molybdenite.

Mining: Only development work has been done but a quartz vein that averages 4 ft. in width and 600 ft. long has been indicated. In one place, about 25 ft. of depth is indicated. No effort has been made to mill any ore.

Informant: R. C. Treasher, March 18, 1942 (visited).
L. Lowell, Wayne, personal communication, March 1942.

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

IRWIN CLAIM (Au, Mo)

GOLD HILL DISTRICT

Location: N $\frac{1}{2}$ sec. 16, T. 36 S., R. 4 W., 0.7 mi. up west side Evans Cr. road. On low ridge just above large irrigation ditch running along foot of mountain.

Owner: G. C. Irwin

Development: Small trench 15' long, trending E-W, 25' above ditch; caved adit, trending N. 60° E., size of dump suggests 100' length; shallow trenches to top of ridge, elev. 1170'.

Geology: Lowest trench, 25' above ditch exposes a 1' quartz vein striking N. 45° W., dips 25° NE. There is about 6' of oxidized material showing quartz. Rock on the dump of the caved adit is weathered, coarse grained metavolcanic with some weathered diorite that may represent a dike. One of the upper trenches, 150' vertically above the first trench, is 6' deep and shows a 15" quartz vein that strikes N. 50° W., dips 58° NE. The quartz is iron-stained, contains chalcopyrite, an unknown dark mineral, and thin plates of molybdenite projecting into cavities. At elev. 1030' a shallow trench shows 18" of quartz, striking N. 55° W., dips 35° NE, with a thin gouge layer on the hanging wall. Country rock is pyritic metavolcanic. In a little gully behind low ridge \$500 in gold was placered out, but no gold was found on main valley slope.

Informant: F. G. Wells & Preston Hotz, 8/23/39.

CONFIDENTIAL

*I visited this claim
in 1937 Jaa.*

March 19, 1942

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

Gold Hill area

IRWIN MOLYBDENUM PROSPECT

Four samples and one specimen were taken:

- #1 - Lowest, and main, cut. 12 inches of quartz that lays on top of the main molybdenite vein.
- #2 - Lowest and main cut. 4 ft. of quartz from the molybdenite vein. This was the only spot from which Lowell took samples.
- #3 - Trench immediately above #1 and #2. 4 ft. of quartz.
- #4 - From cut on west end of property, near gulch. 2 ft. of quartz. Reported to contain fine grained molybdenite.
- #5 - Specimens from the lower cut, source of #1 and #2.

The property has been well prospected but most of the trenches should be cleaned out for a thorough examination. The owners have done no work on the property since last fall. Lowell sampled the lower pit, only.

Irwin reports other quartz veins carrying some molybdenite. One quartz vein, 30 ft. north carries molybdenite. The old caved shaft, up above was sunk alongside this vein. The tunnel was started north of this vein and presumably tapped both this vein and the main molybdenite vein. The tunnel was driven by two Swedes, who were forced to abandon their operation when they were refused a right-of-way across pasture land to the county road. They were after gold only. Irwin reports beautiful specimens of molybdenite on their old dump. Ben Bones, Grants Pass, has some of these specimens, now.

Irwin also states that there are 5 more quartz veins south of the described vein. Not all of them carry molybdenite but some of them do, particularly those which parallel the one described.

The property is worthy of more study, if some work can be done to open it up a bit more.

Ray C. Treasher
Field Geologist
March 18, 1942.

Irwin Mo. Prop.

AGG-22
Au, Ag, Mo, WO₃

State of Oregon Department of Geology and Mineral Industries
1069 State Office Building, Portland, Oregon 97201

REQUEST FOR SAMPLE INFORMATION

Date: August 1, 1972 Sec. 16 Twp. 36 S R. 4 W. County: Jackson
($\frac{1}{4}$ NW of NE) For your records Gold Hill District

Please print name and address in space below

Len Ramp
P.O. Box 417
Grants Pass, Oregon 97526

A copy of the law governing this service is printed on the back of this sheet. Please fill out this form in triplicate and submit with your sample and analysis fee. One copy will be returned with the results entered in the space below.

Customer's Sample No.	Assay for	(for your records, if desired)		Source of Sample
		Grab	Channel (length)	
AGG-22	Au, Ag, Mo, WO ₃		6 ft.	
Description: Cut across quartz fissure vein exposed behind Mr. <u>Irwin</u> house. Strikes about N 85° W, dips 50° N.				

Samples should weigh at least one pound and be dry. Fee for analysis must accompany sample.
Date Rec'd: _____ Amount Rec'd: _____ Analysis Mailed: August 16, 1972

Lab. No.	Cust. No.	Gold oz/ton	Silver oz/ton	^{Mo} Molybdenum	Tungsten
<u>P-38140</u>		<u>Trace</u>	<u>.08</u>	<u>0.05%</u>	<u>nil</u>

NOTE: The Department assumes responsibility only for the analytical results and not for the validity of any samples submitted.

Analyzed by Robert C. Sawve

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

JG 306
Spec

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 called for as completely as possible, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Your name in full H. D. Wolfe

Post office address Box 417 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 9-14-49

Name (or names) of owners of the property G. C. Irwin

Name of claim sample obtained from _____

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Gold Hill

Township 36 S Range 4 W Section 16 Quarter section _____

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

West-Side Evans Creek Road

Channel (length) Grab Assay for Description

Sample no. 1 x Spec. analysis

Sample no. 2 _____
(Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.)

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) H. D. Wolfe

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

Description Vuggy, limonite-stained quartz with mixed sulphides including galena and chalcopyrite. Some Mo (?) oxide staining.

Sample number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			

Report issued _____ Card filed _____ Report mailed _____ Called for _____

IRWIN PROSPECT
GOLD HILL MINING DIST
JACKSON, COUNTY



SAMPLE IS FROM CUT BEHIND IRWIN
HOUSE. GRAB FROM DUMP.

STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

702 WOODLARK BUILDING
PORTLAND 5, OREGON

September 29 1949

General Laboratory Number P 9184

Date received _____

Spectrographic Laboratory Number VG-306

Sample received from H. D. Wolfe
Dogami
Grants Pass Oregon

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

1. Elements present in concentrations over 10%.

From Irwin Moly m

Silicon

2. Elements present in concentrations 10% - 1%.

Iron, potassium, lead

3. Elements present in concentrations 1% - 0.1%.

Copper, arsenic

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

Aluminum, calcium, manganese, tin, molybdenum,
silver, bismuth

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

Magnesium, sodium, titanium, barium, strontium

6. Elements present in concentrations below .001%.

Chromium, vanadium, nickel, boron, mercury

Note: Analysis for gold and platinum
metals will follow later.

Thomas C. Matthews, Spectroscopist

T. C. Matthews



STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

October 24 1949

702 WOODLARK BUILDING
PORTLAND 5, OREGON

Sample submitted by H. D. Wolfe
Grants Pass office

Analysis by:

T. C. Matthews
T. C. Matthews

Sample received on Balance of report on previous sample

Analysis requested _____

Lab. No.	Sample Marked	Results of Analysis	Remarks
	P-9184 4G-306	Gold - trace Platinum - none	Analysis of precious metals just completed

The Department did not participate in the taking of this sample and assumes responsibility only for the analytical results.

Irvin Mine
 Jackson Co., Gold Hill
 Sec. 10, T. 36 S., R.
 4 W.

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY REPORT

Office Number AG-1571
AG-1572

Grants Pass, Oregon
~~Baker, Oregon~~

February 21, 1934

Sample submitted by H. W. Ward, 628 Dakota Avenue, Medford, Oregon

Sample description No. 1--Quartz with massive sulfides and molybdenite and some copper stain. No. 2--Same as No. 1.

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		Percent	Value	Percent	Value	Total Value
	Ounces per ton	Value	Ounces per ton	Value					
1	0.02	0.70	1.0	0.70					\$1.40
2	0.02	0.70	5.5	3.85					\$4.55

Market Quotations:
 Gold \$35.00 per oz.
 Silver \$0.70 per oz.
 \$ per oz.
 \$ per oz.

STATE ASSAY LABORATORY

 Assayer

Dowin Prospect

Gold Hill District

Owner: J. C. Dowin; Rogee Rine, and others. Deeded
land

Loc. N $\frac{1}{2}$ Sec. 16 - T. 36 S. - R. 4 W.

General: East-west quartz vein cuts across
ridge west of Evans Creek; containing large bunches
of molybdenite crystals up to 15 mm. in diameter

One caved tunnel, numerous open cuts, in two
east-west lines about 50 feet apart. Some
placering in gulch.

Ore contains ^{minor} pyrite, chalcopyrite, galena,
chrysocolla, azurite, malachite, limonite. Veins
lie in a fine grained devonian rock, and are
from 15 to 24 inches in width, dipping steeply
to the north. Assays up to 44 oz. in silver,
in addition to gold values.

Informant: Ben Bones, 40.

Visited & checked by J. E. Allen 1938