

State Department of Geology and Mineral Industries ¹¹²

1069 State Office Building
Portland 1, Oregon

STEARNS MOLY PROSPECT (Mo)
(Part of Old Gold Hill Pocket Mine(?))

Jackson County
Gold Hill District

Owner: Charles C. Stearns & associates, Medford, Oregon.

Location: SW $\frac{1}{4}$, NE $\frac{1}{4}$ sec. 14, T. 36 S., R. 3 W., at about 2,000 feet elevation. The prospect is reached via old Highway 99 to a point 1 mile east of Gold Hill then north on private road to the John Nelson place and then up the hillside via a new dirt road to the mine. The mine is about $1\frac{1}{2}$ miles from the highway.

Development: Several cuts and tunnels in the immediate area are gold prospects stimulated largely by the old Gold Hill Pocket Mine. The moly occurs in the largest cut. It is a trench about 60-feet deep entering from the south side of the ridge. It is about 100 feet long in a N. 25° W. direction, 30 to 40 feet across at the top and about 15 feet wide at the bottom. The trench is open at the south end and has a 65 foot face at the north end.

Geology: Molybdenite occurs in a fissure vein or shear zone about 3 feet wide with 8 inches of vein quartz on the footwall. The vein occurs in the north face and along the bottom and east side of the trench. It strikes N. 15° W. and dips 55° E. Higher in the face the quartz varies from 6 to 18 inches in width and appears to strike about N. 35° W. and dip 65° NE.

The country rock varies in appearance from a hornblendite to a hornblende diorite. It is mapped as gabbro on the Preliminary Geologic Map of the Grants Pass quadrangle by Wells and others, 1940. At this point the rock could well be classed as a metagabbro.

In the shear zone the hornblende has been altered to chlorite and is

impregnated with pink orthoclase feldspar and quartz. The sulphides, pyrite and molybdenite are disseminated through the shear zone and also smeared out on numerous small shears giving the appearance of a higher grade ore.

A 3-foot chip sample taken across the shear zone and quartz (TG-127, P-24173) assayed 1.00% Mo and Nil in both gold and silver. A sample of high grade (JG-308, P-9186) taken by H. D. Wolfe, 1949, assayed 4.48 percent Mo.

About 12 tons of molybdenite-bearing rock was stacked beside the road just east of the trench.

Visited briefly: 4/3/58 and 5/29/59.

Report: By Len Ramp 9/16/59.

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RECORD IDENTIFICATION

RECORD NO..... M061519
RECORD TYPE..... XIM
COUNTRY/ORGANIZATION. USGS
MAP CODE NO. OF REC..

REPORTER

NAME..... SMITH, ROSCOE M.
DATE..... 78 08
UPDATED..... 81 01
BY..... FERNS, MARK L.; (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... STEARNS MOLY PROSPECT

MINING DISTRICT/AREA/SUBDIST. GOLD HILL

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

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

COUNTY..... JACKSON
DRAINAGE AREA..... 17 ROGUE RIVER
PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION..... 00

QUAD SCALE QUAD NO OR NAME
1: 62500 GOLD HILL

LATITUDE LONGITUDE
42-26-30N 123-01-06W

UTM NORTHING UTM EASTING UTM ZONE NO
4698600. 498500. +10

TWP..... 36S
RANGE..... 03W
SECTION.. 14
MERIDIAN. WB & M

LOCATION COMMENTS: SW 1/4 NE 1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... MO

ORE MATERIALS (MINERALS, ROCKS, ETC.):
PYRITE, MOLYBDENITE

ANALYTICAL DATA (GENERAL)
1.0-4.5% MO

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

LODE

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX WIDTH..... 3 FT
STRIKE OF OREBODY.... N15W
DIP OF OREBODY..... 55E

DESCRIPTION OF WORKINGS
SURFACE

COMMENTS (DESCRIP. OF WORKINGS):
60 FT DEEP OPEN CUT

PRODUCTION

UNDETERMINED

23 SAMPLES - 1959 1-4.5 MO

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PRE-LTRI
HOST ROCK TYPES..... METAGABBRO

PERTINENT MINERALOGY..... CHLORITE, QUARTZ, POTASSIUM FELDSPAR

GENERAL REFERENCES

1) RAMP, L, 1959, STEARNS MOLY PROSPECT; ODGMI UNPUBLISHED FILE REPORT.