

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

LADY SLIPPER MINE (scheelite)

REPORT BY: Elton Youngberg  
DATE: November 8, 1944

Gold Hill District  
Jackson County

Owner: Ben Harrison and sons.

Location: Located in the  $5\frac{1}{2}$  sec. 7, Range 3 W., Township 37 S., in Jackson County, Oregon, on the left fork of Footh Creek.

Area: The country is mountainous and the slopes are moderately steep. In the vicinity of the mine, the soil is several feet deep and the underlying formations are rarely exposed. Vegetation consists of fir and oak trees on the north slopes, and manzanita and buckthorn on the southern exposures.

History: The prospect was discovered in 1941 by Ben Harrison, a placer miner living at the Black Channel Placer Mine. Scheelite was first noticed in the gold cleanups on the Ferry Drudge on Footh Creek and the cleanups on the Black Channel property. The discovery was made by panning the top soil.

Development: The contact zone has been prospected by a short adit about 28' long from the end of which was sunk a winze to a depth of 24'. Short drifts were driven to the east and west from the bottom of the winze. A crosscut about 45' below the discovery has been driven 80' to explore the mineralized zone at that depth, but it is about 30' short of its goal.

Geology: The prospect is in an area mapped by F. G. Wells as meta-volcanics of Paleozoic or older age. The scheelite occurs in a meta-morphosed contact zone between a series of volcanic tuffs and an intrusion of granodiorite. The rocks exposed in the working are weathered and decomposed which makes it difficult to determine their composition. The scheelite occurs as crystals several mm. in diameter within the rock and also on cleavage planes. In the winze the scheelite seemed to increase in amount above a flat dipping quartz veinlet; however, no scheelite occurred in the quartz itself. Mr. F. G. Wells identified a hand specimen containing scheelite as possibly a highly meta-morphosed volcanic tuff.

Economics: Scheelite does not occur in sufficient quantities to be of economic value.

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This occurrence of scheelite in itself is not important from an economic standpoint. However, further prospecting of contact zones between meta-volcanics, meta-sediments, and later dioritic intrusions which are known to occur in this area may expose ore bodies of sufficient value to be exploited. Other tributaries of Foots Creek are reported to carry scheelite of greater concentration than found in the left fork. Mr. Harrison reports that scheelite occurs in a quartz gold fissure at the Doc Ray Mine and also in the vicinity of the Hampson Mine; both of which are  $\frac{1}{2}$  to  $\frac{3}{4}$  of a mile from the Lady Slipper.

CONFIDENTIAL

RECORD IDENTIFICATION

RECORD NO..... D001343  
RECORD TYPE..... X1M  
COUNTRY/ORGANIZATION. USGS  
MAP CODE NO. OF REC..

REPORTER

NAME..... ELLIOTT, JAMES E.  
DATE..... 73 06  
UPDATED..... 80 12  
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... LADY SLIPPER PROSPECT

MINING DISTRICT/AREA/SUBDIST. GOLD HILL

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

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

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME  
1: 62500 GOLD HILL

LATITUDE LONGITUDE  
42-21-57N 123-05-50W

UTM NDRTHING UTM EASTING UTM ZONE NO  
4690200. 492000. +10

TWP..... 037S  
RANGE..... 003W  
SECTION.. 007  
MERIDIAN. WILLAMETTE

COMMODITY INFORMATION

COMMODITIES PRESENT..... W

OCCURRENCE(S) OR POTENTIAL PRODDUCT(S):  
POTENTIAL.....  
OCCURRENCE.....

COMMODITY SPECIALIST INFORMATION:



MAIN ORE MINERALS:  
SCHEELITE

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 2

PROPERTY IS INACTIVE.

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

CONTACT/DISSEMINATED

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

DESCRIPTION OF WORKINGS

UNDERGROUND

COMMENTS(DESCRIP. OF WORKINGS):

DEVELOPED BY ABOUT 150 FT OF DRIFTS AND CROSSCUTS

PRODUCTION

UNDETERMINED

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI/APPLEGATE GROUP

HOST ROCK TYPES..... METAVOLCANICS, TUFFS AND AMYGDALOIDAL LAVAS

AGE OF ASSOC. IGNEOUS ROCKS.. LJUR-CRET

IGNEOUS ROCK TYPES..... DIORITE DIKE

PERTINENT MINERALOGY..... CALCITE

IMPORTANT ORE CONTROL/LOCUS.. HORNFELS ALONG CONTACT WITH DIORITE

GENERAL REFERENCES

- 1) WOLFE, H.D., AND WHITE, D.J., 1951, OREGON DEPT. GEOL. AND MINERAL INDUSTRIES G.M.I. SHORT PAPER 22.
- 2) LEMMON, D.M., AND TWETO, D.L., 1962, TUNGSTEN IN THE U.S., USGS MAP, MR-25.

LADY SLIPPER PROSPECT (4)

GOLD HILL AREA  
Jackson Co.

General

The Lady Slipper mine is located on the Left Fork of Footh Creek in Jackson County in sec. 7, T. 37 S., R. 3 W. The principal workings are on patented land owned by George E. Murphy and Harry B. Murphy, 302 Lumbermens Building, Portland, Oregon. The prospect was discovered by Ben Harrison in 1941. Previously scheelite had been noted in the gold cleanups of the Black Gold Channel placer on the Left Fork of Footh Creek and in cleanups of the Ferry dredge on Footh Creek.

Geology

Metavolcanic rocks of the Applegate group are predominant in the mine area. The metavolcanics here include tuffs and some amygdaloidal lavas containing an abundance of calcite. Scheelite occurs as disseminated grains in strongly metamorphosed volcanics along the contact with a small intrusive dioritic mass. Overburden obscures the extent of the intrusive; however, it appears to be less than 50 feet in width. The length is indeterminate. The contact zone has been prospected by a short adit about 28 feet long and a 24-foot winze at the end of the adit. Short drifts were driven east and west from the bottom of the winze. The winze is now badly caved but is partially accessible. A crosscut about 45 feet lower in elevation than the adit has been driven 80 feet to explore the contact zone but is about 30 feet short of the contact.

The contact zone has not had sufficient exploration to allow a satisfactory estimate of quantity and concentration of scheelite present.

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



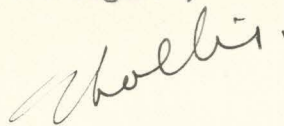
If we can  
get prices  
for you - I'll notify  
- 2 -

would be as a carrier for the agricultural diluent trade. Please consider this as a determination on your sample. We will continue to do further work on it up here and will keep you posted on what information we obtain. However, it is not likely that anything spectacular will come from it.

I have already reported to you on LG-24 (P-10779), identifying it as an impure bentonite. Dave reports to me that the thermal analysis shows this sample to be an illite or an impure mixture of montmorillonite and illite. I doubt very much if this sample is of any great economic importance; but if ever you are in that area, it certainly is worth a look-see.

What a heck of a time to get snow. Woke up this morning with an inch or so of the stuff on the ground. Here it is spring opening for the stores and traffic is almost tied up due to our one and only "blizzard".

Best regards,



H. M. Dole  
Geologist

HMD:lk  
Encl.