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Item #5

A Preliminary Report on the "Pay Day" and Lobo" Group of Claims in the Toy Mining District, Churchill County, Nevada

By

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This examination was made at the request of the Honorable J. G. Scrugham, Congressman from Nevada. The purpose was to see if the property had sufficient merit to bring it to the attention of Federal Authorities for a possible development loan. I herewith submit this report of a hurried and brief examination that I made of the "Pay Day" and "Lobo" group of claims, a tungsten prospect, on the afternoon of October 22, 1940.

Ownership

The property consists of eighteen lode claims, namely Pay Day Numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 and Lobo Numbers 1, 2, 3, 4, 5, 6, 7, and 8 that are held by location by H. E. Hall, E. A. Sorenson, and D. C. Blachard all of Fallon, Nevada.

Location

The property is located on the east side of the Trinity Range in the Toy Mining District, Churchill County, Nevada. The property is easily accessible over three miles of desert road leading west from the paved highway of U. S. 40 at twenty-two miles south of Lovelock, Nevada.

Type of Mineral Deposit

The scheelite ore occurs in a contact metamorphic deposit following a contact of granite and limestone having a general strike of east and west. The owners claim that this contact, or so called "vein" can be traced 8400 feet across the property and varies in width from a few inches up to twenty feet. The greatest width that I observed was six feet.

The ore occurrence is probably similar to that of the Saint Anthony Tungsten Mine located 1½ miles to the South and now producing tungsten ore.

Sampling

The owners claim they have twenty-three openings on the "vein" but due to my delayed afternoon arrival on the property, I was able to inspect and sample but three of them. By the aid of a flourescent lamp and a covering of canvas to darken the openings, the width of occurrence of the scheelite could be easily seen with an approximate idea of its amount. The samples were cut across this apparent width of the scheelite ore.

Sample #1 was cut across 3.5 feet of ore in a trench on Lobo #8 claim, approximately 2 feet below the surface.

Sample #2 was cut across 6 feet of ore in a trench about 100 feet west of sample #1 and on the same claim, approximately 3.5 feet below the surface.

Sample #3 was cut across 3 feet of ore in the bottom of a six-foot shaft, approximately 1500 feet east of sample #1 on Lobo #7 claim.

All samples were cut at right angles to the contact of the granite and limestone.

The following analyses were made by the State Analytical Mining Laboratory, under the personal supervision of Professor W. S. Palmer, the director:

Sample No.	Width	Tungsten Trioxide
1	3.5 feet	1.2%
2	6.0 feet	0.9%
3	3.0 feet	2.1%

The ore is mainly quartz and garnet with a small amount of scheelite. It is marked by the apparent absence of molybdenite, copper minerals, pyrite and other deleterious minerals. The scheelite is in fairly large crystals and should concentrate out very satisfactorily under standard practice with about a 90% recovery.

Milling Facilities

The property is but nine miles from a tungsten milling plant at Toulon, Nevada, six miles of the distance being over paved highway and the remaining three miles over fair desert road having no excessively steep grades. The Toulon Mill will accept custom tungsten ore for milling if a supply of 200 tons at least can be guaranteed.

Conclusions

As the deepest working on the property is but six feet below the surface the property is still in the prospect stage. The three openings that I examined showed good tungsten ore over fair widths. At the present quotation of $23 per unit of contained tungsten trioxide in a 60% concentrate, ore similar to the average of these three samples and of the widths sampled could be worked at a profit if development work proved sufficient tonnage.

Respectfully submitted

J. M. Crowell

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Reno, Nevada
October 30, 1940