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(282)
Item 72

Supplementary Memorandum- Access Road

Red Hawk Tungsten Property

Danner

Eugene Mountains, Pershing County, Nevada

M. R. Klepper

April 5, 1943

On April 2, I revisited the Red Hawk property. The snow had melted from most of the surface pits, and the adit had been cleaned out for inspection.

The attached geologic sketch map shows the known scheelite-bearing tactite zones on the Red Hawk property. Exposures of ore lie along or near a line striking N 10° E, the average regional strike of the beds. No limestone or tactite float was found along this line between the three areas of exposure, and it seems likely that the formation of tactite and scheelite ore may have been controlled by calcareous lenses within the dominantly shaly sequence.

A zone of scheelite mineralization, exposed in pits and trenches for 375 feet, is shown in the accompanying sketch. Grade and width of ore are best near the center of the zone; a cross-cut was driven at a depth of 25 feet beneath the best showings. At the end of the cross-cut, a drift follows ore for 10 feet north and 35 feet south. Along this drift the ore averages 3 feet wide and is estimated to contain 2% WO₃. The ore zone strikes N 10° E and dips 60° W, and most probably is an altered bed or lens within the shaly sequence. Thin parallel streaks containing scheelite occur in the hanging wall.

At the north end of the area sketched, limestone and a little tactite is exposed. There is no worthwhile scheelite mineralization.

At the south end, tactite was mined from an open cut, now caved. Ten tons of ore estimated to contain between 0.75 and 1.0% WO₃ are on the dump. Neither width nor length of the ore zone is known.

Reserves

40 tons of ore estimated to average 3% WO_3 have been mined from the adit, and stockpiled; 40 tons of 1% ore are on the mine dump. If this high-grade ore shoot is continuous from the surface to a depth of 25 feet below the adit, it contains 900 tons of ore or 1800 units of WO_3 , assuming that the grade exposed in the drift is average. Judging from the surface outcrops, an aureole of mineable 0.5 - 1.0% WO_3 ore may surround this high-grade lens, and yield 750 tons or 375 to 750 units of WO_3 to a depth of 25 feet below the adit. No geological conditions are recognized that will limit the shoot in depth.

No estimate can be made concerning the size or possible worth of the ore zone at the south end of the map.

Summary of Reserves

	<u>Source</u>	<u>Tons</u>	<u>% WO_3</u>	<u>Units WO_3</u>
Assured Ore	Ore Stockpile	40	3%	120
	Adit dump	40	1%	40
	Other dumps	20	0.75%	15
	Adit to surface	<u>150</u>	2.00%	<u>300</u>
	Total	250		475
Probable ore	To 25 feet below adit	300	2.00%	600
Possible Ore	Low grade to 25 feet below adit	750	0.75	560
	Extension of shoots ?			?
	South zone	<u>?</u>		<u>?</u>
Grand Total		1300		1635

Recommendations

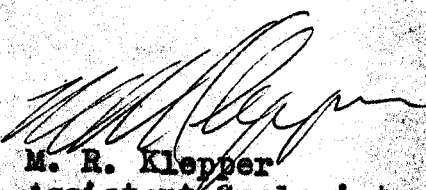
In my opinion, the small, high-grade ore shoot that is exposed in the adit should be developed. The ore exposed at the bottom of the adit is better than that exposed at the surface and there is no indication of downward termination. The occurrence of ore to the south should also be prospected.

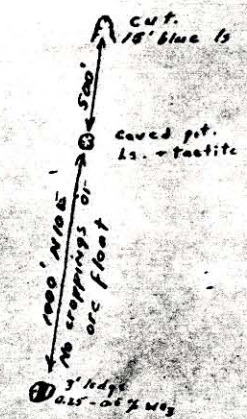
It is impractical to attempt to develop the ore body until the Pole Canyon road is extended from the base of the hill to the ore body, a distance of about 4000 feet at an average grade of 12%. This road would pass by the south zone and terminate at the adit. The four mile road from the mouth of Pole Canyon to its present termination should be graded and graveled, and five culverts placed.

*Rock ledges could be avoided.

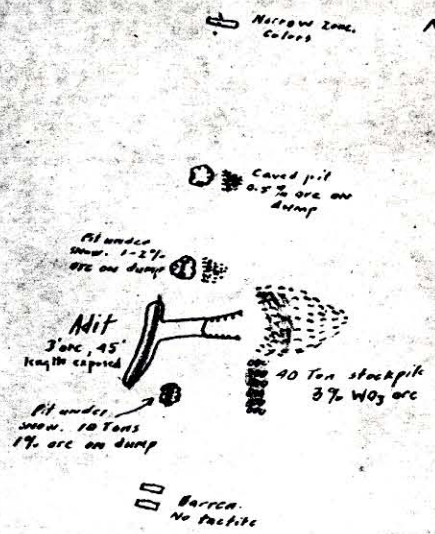
T. B. Nolan (3)
S. G. Lasky
D. M. Lemmon
G. L. Allen
File

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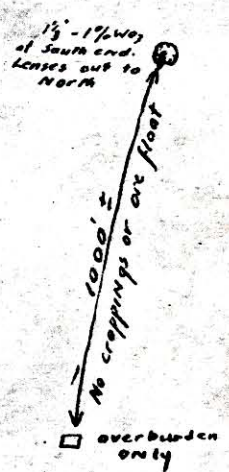

M. R. Klepper
Assistant Geologist
Mill City, Nevada
April 5, 1943



Geologic Sketch Map
Scheelite Ore Zones
Red Hawk Property
Eugene Mtns., Pershing Co., Nev.
M.R. Klepper, U.S.G.S., April 1943
1" = 100' except as otherwise noted
[Symbol] - Scheelite ore



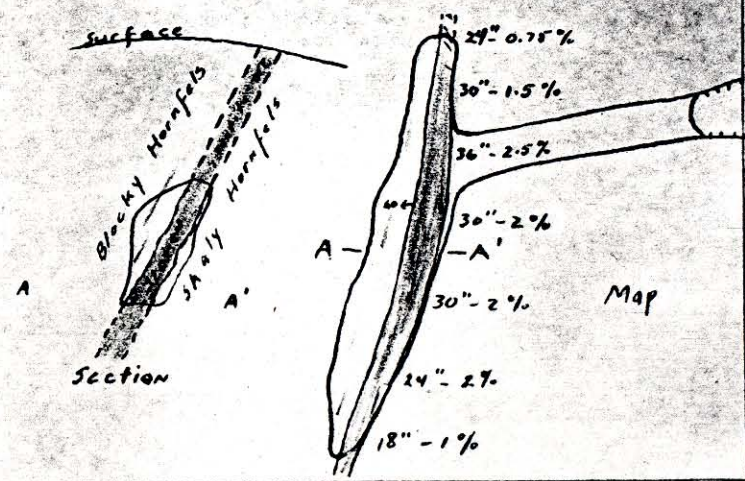
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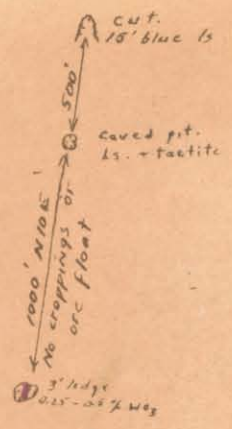
A Caved cut
10 Tons: 0.75-1% Wog
ore on dump

⊙ No taconite in place
ore float

Map and Section of Adit
1" = 20'



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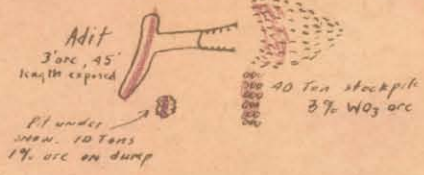
Geologic Sketch Map
Scheelite Ore Zones
Red Hawk Property
Eugene Mtns., Pershing Co., Nev.
M.R. Kiepper, U.S.G.S., April 1943

1" = 100' except as otherwise noted
[Red box] - Scheelite ore

Narrow zone, colors

Caved pit 0.5% ore on dump

Pit under snow. 1-2% ore on dump



Barren. No taactite

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Caved cut 10 tons: 0.75-1% Wog ore on dump

No taactite in place ore float

Map and section of Adit
1" = 20'

