

## NAME OF PROPERTY

STEWART

OBJECT LOCATED - Trenched area.

UNCERTAINTY IN METRES 300. Lat. 49°17'10" Long. 117°15'55"

Mining Division Nelson

District Kootenay

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

## OWNER OR OPERATOR

## DESCRIPTION OF DEPOSIT

The property is underlain by argillite, argillaceous quartzite and skarn of the Jurassic Hall Formation. Bedding strikes northerly and dips 85°E to 65°W. These rocks are intruded about 600 feet south of the main showings by a Lower Cretaceous (?) stock of Nelson pegmatitic granite. Surface workings expose one or more bands of skarn, which is a greenish rock composed of secondary silicates, chiefly diopside. Scheelite occurs as fine grains disseminated throughout the skarn. Sulphide minerals are present in small amounts of molybdenite, and rarely chalcopyrite and galena.

Mineralization may occur across the full width of a band of skarn or as one or more narrower bands within it. Shoots pass into stringers rather than terminate abruptly. In no instance was mineralization seen in the argillaceous walls.

The best mineralized section is about 500 feet in length. The northern part of this section is a single band of skarn, from 3 to 8 feet wide, which has been completely stripped for a length of 225 feet and which is mineralized across an average

p.t.o. ....

Associated minerals or products - Molybdenum.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at approximately 5,000 feet elevation on the south side of Stewart Creek 2 miles west-northwest of Ymir.

Early work on the showings, for which there is no record, included a 25 foot adit. Drysdale, 1917 (GSC Memoir 94) reported molybdenum on a claim towards the headwaters of Stewart Creek.

The Stewart group of 8 claims and the Stewart No. 2 group of 13 claims were staked in 1942 by E.P. Harkedahl, O.P. Anderson, and E. Emilson of Ymir. Premier Gold Mining Company, Limited optioned the property in July of that year. Work by the company included prospecting, stripping, trenching, reopening the old adit, and sampling. The option was given up in November of that year.

The Consolidated Mining and Smelting Company of Canada Limited optioned the property in 1943 and sampled the showings. A bulk sample was taken for a mill test. The option was dropped in July of that year.

The showings were restaked by Harkedahl and associates in about 1948 as the Scheelite and Scheelite 2-6 claims and the adjacent N.H. group of 8 claims. The 14 claims were optioned to K.J. Springer and associates who incorporated Arrow Tungsten Mines Limited in March 1951 to acquire the property. Mineralization in trenched zones A, B and C was estimated at 330 tons per vertical foot averaging 0.50% WO<sub>3</sub>. If this continued down dip for 200 feet the probable reserve would be 66,000 tons (DM Cannon 5/04/51 in Arrow Tungsten Mines Limited Prospectus 30/04/51). The company drove an adit southerly for 460 feet. At 190 feet from the portal a raise was driven 90 feet to old surface workings. Diamond drilling at right angles to the adit was done in 3 holes to the east and 7 to the west. Only spotty scheelite and powellite was found in the narrow skarn band which the adit followed for 205 feet when it became indistinguishable. No mineralization was reported encountered by the diamond drilling. Work ceased in March 1952.

The property was held in 1978 as the Stewart 1-4 claims (66 units) by Eric and Jack Denny, of Nelson. A geochemical soil and silt survey was carried out over Stewart 1-3.

## DESCRIPTION OF DEPOSIT (continued)

width of 2.8 feet. There is some evidence of faulting, but with no apparent offset. In the southern part of the section, 180 feet long, there is a second band of skarn 2 to 15 feet wide and 40 to 50 feet west of the main band. The highest grade section on the property, and also the widest, is on the west band. Farther north, towards a small creek, and farther south to the granite contact mineralization is weak and erratic in skarn that has been uncovered in a number of trenches along the same general north-south line. In trenches 3 & 4 the skarn is estimated to grade 1%  $WO_3$  across 3 to 5 feet. Sampling indicates 3 ore shoots with an aggregate length of 620 feet, and average grade of 0.50%  $WO_3$  over an average width of 5.3 feet.

## MAP REFERENCES

- Map 1090 A, Nelson, (Geol.), Sc. 1":4 miles - accomp. Memoir 308, Geol. Surv. of Canada, 1960.
- Preliminary Map 52-13 A, Bonnington, (Geol.), Sc. 1": $\frac{1}{2}$  mile - accomp. Paper 52-13, Geol. Surv. of Canada.
- Plan of trenches, Sc. 1":60', Fig. 18 - accomp. Economic Geology Series No. 17.
- #Stewart Groups, (claim map), Sc. 1":400 ft. - Premier Gold Mining Company L.
- Map 8480 G, Nelson, (Aeromag.), Sc. 1":1 mile.
- \*Map 82 F/6, Nelson, (Topo.), Sc. 1:50,000.

## REMARKS

Comp./Rev. By	DMacR						
Date	03-80						

## REFERENCES

- Reports of Minister of Mines, British Columbia:  
1942, p. 79; 1943, p. 80; 1951, p. 137; 1952, p. 145.
- ††Stevenson, John S.; Tungsten Deposits of British Columbia; Bulletin 10 (Revised) 1943, pp. 150-153, British Columbia Dept. of Mines.
- †Little, H.W.; Tungsten Deposits of Canada; Economic Geology Series 17, p. 115, Geol. Surv. of Canada, 1959.
- Mineral Policy Sector; Corporation Files: "Premier Gold Mining Company, Limited"; "Arrow Tungsten Mines Limited".
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1978, p. E 55.