

NAME OF PROPERTY LAST CHANCE (LUCKY MIKE) (SWAKUM MOUNTAIN)

OBJECT LOCATED - Mine symbol, Map 92 I/7.

UNCERTAINTY IN METRES 300. Lat. 50°18' Long. 120°41'20"

Mining Division Nicola District Kamloops

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

The property is underlain by Upper Triassic Nicola group lavas, tuffs and conglomerate, and minor intercalated limestone as bands or lenses. The deposit is of the contact metamorphic type, being situated at the limestone-greenstone contact and consists of two lenses of skarn enclosed in limy tuffs and limestone striking a little east of north and dipping 50-75°E. The hanging-wall contact is irregular, the deposit ranging in width from about 25 to 75 feet. The exposed length is 350 feet.

The mineral zone consists of skarn rock composed very largely of garnet. Calcite and epidote are abundant, and chlorite and pyroxene occur. Locally quartz is present in irregular masses. Hematite is visible in much of the deposit, and is plentiful along fracture planes and joints in the skarn and in the greenstone. Chalcopyrite, pyrrhotite, and pyrite are present and in some places the chalcopyrite forms small masses that make up most of the drill core for short sections. The pyrrhotite and pyrite are generally disseminated through the rock. None of these sulphide minerals is confined to the skarn,

Associated minerals or products - Copper, silver.

see Card 2

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at approximately 5,200 feet elevation on the north side of Swakum Mountain 14 miles north-northeast of Merritt.

The Lucky Mike claim was staked in 1916 by Oscar Schmidt & associates of Nicola on a copper discovery. A shipment of 26 tons of sorted ore from the surface showings was made in 1917. The Granby Consolidated Mining, Smelting, and Power Company, Limited carried out a limited amount of diamond drilling on the claim that year and dropped its option. Late in 1917 an option was taken by Northwestern Mines Limited, of Spokane, and a shaft was completed to a depth of 50 feet in 1918. The claim was owned in 1924 by Oscar Schmidt and F.F. Ragsdale.

The Lucky Mike claim apparently lapsed but following the discovery of scheelite in the showings in August 1942 the ground was restaked as the Last Chance claim, recorded by R. McD. Reid of Penticton. The property was optioned to W.B. Milner of Toronto and additional claims were staked in 1942 and 1943 and registered in his name. The property was prospected by Mr. Milner, and some stripping was done and several cuts excavated. Fair values in tungsten were obtained at some points in the surface cuts. Diamond drilling totalling 1,691 feet in 14 holes was carried out for the Metals Controller in 1943 in order to sample the showings. L.P. Starck and associates reportedly carried out drilling in about 9 holes in 1952. Based on this work the deposit contained an estimated 100,000 tons at 0.35% WO₃ (NM 30/10/58). The claims lapsed in about 1957.

Torwest Resources Ltd. acquired the CAM group of claims covering the Last Chance property, and the adjacent Alameda Crown-grants from W. Taylor in 1958. During the year a self potential survey, trenching and drilling was carried out in the area north of Swakum Peak. The company name was changed to Torwest Resources (1962) Ltd. In 1965 diamond drilling was done in 9 holes totalling 1,719 feet.

The Last Chance property was held in 1971 as the LO 1-12 claims by Cyclone Mining Co. Ltd. Diamond drilling was done in 2 holes totalling 60 feet on LO 2 and 4.

Adar Resources Ltd. in 1972 optioned the LO 1-12 claims and the adjacent Alameda Mineral Lease from Leland Oheiser of Vancouver. Work included a magnetometer survey over 5 line-miles, an electromagnetic survey over 10 line-miles, a

see Card 2

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa

120092

HISTORY OF PRODUCTION

During the period 1917-1924, 26 tons of ore were shipped from this property. From this ore 2 ounces of gold, 137 ounces of silver, 1,932 pounds of copper, and 1,753 pounds of lead were recovered.

REFERENCES

Reports of Minister of Mines; British Columbia:
1917, p. 233; 1918, p. 239; 1924, p. 136;
1927, p. 213; 1958, p. 28; 1959, pp. 36-38 + ;
1965, p. 155.

++Cockfield, W.E.; Geology and Mineral Deposits of Nicola Map-Area; Memoir 249, pp. 59, 60, 137-143, Geol. Surv. of Canada, 1948.

Mineral Policy Sector; Resource File MC 167-T2-2-4.

Mineral Policy Sector; Corporation Files: "Torwest Resources Ltd."; "Adar Resources Ltd."; "Brendon Resources Ltd.".

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1971, p. 294; 1972, p. 180; 1976, p. E 95.

MAP REFERENCES

Map 886 A, Nicola, (Geol.), Sc. 1":4 miles - accomp. Memoir 249.

Preliminary Map 44-20 A, Nicola, (Geol.), Sc. 1":2 miles, Paper 44-20, Geol. Surv. of Canada.

Map 5212 G, Mamit Lake, (Aeromag.), Sc. 1":1 mile.

#Map 92 I/7, Mamit Lake, (Topo.), Sc. 1:50,000.

Last Chance showing, (Geol.), Sc. 1":160 ft., Fig. 4, Report of Minister of Mines, B.C. 1959, p. 37.

REMARKS

Comp./Rev. By

DMacR

Date

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DESCRIPTION OF DEPOSIT (continued)

and all may be found in the adjacent greenstones, where, however, they are most abundant in calcareous bands associated with abundant epidote. Scheelite occurs in grains, ranging from pin-point size to crystals about $\frac{1}{4}$ inch long. It is not confined to the main body of skarn rock, but occurs also in the limy bands within the greenstone foot-wall referred to above, and was observed in the old workings driven to explore the property for copper. The scheelite occurs in small quantities and is usually not recognizable without the aid of an ultra-violet lamp. Though local concentrations of chalcopyrite occur, much of the skarn is very sparsely mineralized.

About 700 feet south and west of the Last Chance showing a limy tuff, altered in patches to skarn, contains disseminated chalcopyrite. It is 10 to 15 feet thick, strikes north 10 degrees west, and dips 20 degrees southwest. Similar mineralization was encountered in a 1-foot drill intersection about 200 feet along the strike and at what is probably the same horizon.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

geochemical survey (10 samples) on LO 3 and 4, 1 diamond drill hole to about 50 feet and 1 percussion hole to 120 feet on LO 3. In June 1973 Adar optioned a 50% interest in the property to Brendon Resources Ltd. Work by Brendon included geochemical and geophysical surveys, trenching and 700 feet of drilling. Drill proven reserves in the vicinity of Mike shaft were reported as approximately 350,000 tons at 0.30% WO_3 , 0.56% G_1 , 0.60 oz/t silver [C.H. Donaldson 12/07/73 in VSE SMF 25/07/73, Brendon Resources Ltd.]

Cominco Ltd. in 1976 held the Lucky Mike as the HEL 1-4 claims (12 units each). Work included geological mapping, an induced potential survey over 13 line-kilometres, and a geochemical soil survey over 20 line-kilometres on HEL 1-3.