

NAME OF PROPERTY LUCKY JIM, SNAP

LOCATION of NW corner of Lucky Jim claim.

Radius of uncertainty - 150 m. Lat. 50°02' Long. 117°12'

Mining Division Slocan District Kootenay

County Township or Parish

Lot Concession or Range

Sec. Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The country rocks are limestones, quartzites, and argillites of the Slocan series. These strike N40°W and dip southwest from 40 to 80°. They are intruded by a large number of acid porphyry sills that average less than 5 feet thick. A few small dykes of more basic composition are also present. The ore all lies within one limestone bed which, due to folding and shearing, varies from a few feet to over 100 feet in thickness. A series of mineralized fractures cross the limestone belt with a strike N50 to 55°E and a steep dip to the southeast. Where the fractures cut the slate they form narrow seams but where they cut the limestone, subsequent mineralization and replacement of the wall-rock has obscured the original dimensions. These fractures correspond to a well-defined system of jointing, present in both the limestone and adjoining rocks. Three main fracture zones contain the important ore bodies. The zones are from 125 to 175 feet wide and from 275 to 300 feet apart. The ore bodies are the result chiefly of the replacement of limestone by somewhat chimney-shaped ore shoots. Sphalerite is the most important constituent. Other minerals include pyrrhotite and, locally, a very little arsenopyrite. The principal gangue minerals, calcite and quartz, occur in limited amounts.

Associated minerals or products of value - Silver, lead, cadmium.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property extends southeasterly up slope from the rail way siding at Zincton, some 7½ miles northeast of New Denver.

Three claims, the Lucky Jim, St. George, and Roadley, were located in 1892 by James Shields, Charles Druin, and Robert Williams. The adjoining Snap claim (Lot. 911) was Crown-granted to J. Elliott & associates in 1896. Six claims, the Lucky Jim, St. George, Shields, Dragon, Shiloh, and Moses (Lots 844, 846-848, 850 and 851, respectively) were Crown-granted to Wm. Braden in 1897. The owners carried on exploration and development work for a number of years.

Lucky Jim Zinc Mines, Limited, was incorporated in April 1909 to acquire the property. Mining operations were carried on until 1915 when the property went into receivership. Some ore was shipped during the following years and in 1919 the mine closed.

The Lucky Jim Lead and Zinc Company, Limited, incorporated March 1924, reopened the mine and a mill was put into operation in 1928. Due to the low price of zinc, the mill was shut down in 1929 but development work continued into 1930. The mine was reopened in 1937 and intermittent operations were carried on until 1940.

Sheep Creek Gold Mines, Limited, acquired the property and in August 1940 incorporated a subsidiary, Zincton Mines, Limited, to operate the mine. This arrangement lasted until 1950 when the parent company assumed direct control and the charter of the subsidiary was surrendered. The mine closed in 1953 due to lower grade of ore and low metal prices. To that date development work had been done on 11 levels over a vertical range of more than 1,200 ft. Diamond drilling during the period totalled more than 50,000 feet.

By an agreement of July 1971, Copper City Mines Ltd. optioned from J.A.C. Ross, of Vancouver, and G.H. Ross, of Victoria, the above Crown-grants and the following claims and leases: Isis (Lot 4873), Snowflake (Lot 3320), Highlander (Lot 15013), Highland (Lot 15014), Chickadee (Lot 15018), and Mineral Leases M 305-M 307. In August 1971 the option agreement was assigned to Swim Lake Mines Ltd. Work during the latter part of the year included a geochemical soil survey and trenching.

HISTORY OF PRODUCTION

From 1893 to 1959, 1,174,848 tons of ore were shipped from this property. From this ore 90 ounces of gold, 599,118 ounces silver, 8,144,324 pounds of lead, 175,926,914 pounds of zinc, and 429,567 pounds of cadmium were recovered.

REFERENCES

Cairnes, C.E.; Descriptions of Properties, Slocan Mining Camp, British Columbia; Memoir 184, pp. 69-73, Geol. Surv. of Canada, 1935.

Hedley, M.S.; Geology of the Whitewater and Lucky Jim Mine Areas; Bulletin No. 22, pp. 31-43, British Columbia Dept. of Mines, 1945.

Reports of Minister of Mines, British Columbia; 1892, p. 531; 1893, pp. 1047, 1056, 1083; 1895, pp. 677, 679; 1896, p. 560; 1897, p. 572; 1904, p. 196; 1911, pp. 138-140; 1925, p. 241; 1944, p. 70; 1946, p. 160; 1951, p. 168; 1957, p. 52; 1958, p. 45; 1959, p. 68.

Mineral Resources Branch; Corporation Files: "Lucky Jim Zinc Mines, Limited"; "Lucky Jim Lead and Zinc Company, Limited"; "Zincton Mines, Limited"; "Aetna-Goldale Investments Limited"; "Swim Lake Mines Ltd."

MAP REFERENCES

Map 273 A, Sandon, (Geol.), Sc. 1:48,000 - accomp. Memoir 184.

*Map 82 K/3 E, Rosebery, (Topo.), Sc. 1:50,000.

REMARKS

AUG 1972

BCI 82 K/SW-22, 23