

## NAME OF PROPERTY

HEWITT, LORNA DOONE

OBJECT LOCATED - Hewitt claim (Lot 4440).

UNCERTAINTY IN METRES 300. Lat. 49°55'40" Long. 117°18'45"

Mining Division Slokan District Kootenay

County Township or Parish

Lot Concession or Range

Sec Tp. R.

## OWNER OR OPERATOR

## DESCRIPTION OF DEPOSIT

The property is underlain by Triassic and (?) Jurassic quartzites and argillites of the Slokan Group close to the northern contact with diorite and granodiorite of the Nelson batholith. A tongue from the batholith is encountered on and above No. 4 level. The sediments, which dip about 70°NW, are cut by a few felsic sills and dykes.

A strong zone of shearing with a maximum width of about 100 feet strikes easterly through the property and dips north at about 70°. Extensions of this zone occur on the Van Roi property to the east, and on the Galena Farm to the west. The zone of shearing contains from one to four vein lodes. The north lode forms the hangingwall component of the fissure zone. Others include the main and south, and several interconnecting lodes. Locally the vein lodes provided important ore shoots. Vein widths range from about 2.5 to 7 feet. Vein fillings consist mainly of country rock crushed to gouge or brecciated and cemented by quartz. Galena and sphalerite fill cavities, and occur in specks, streaks and patches in a gangue of quartz and siderite. Ruby silver, native silver, and tetrahedrite occur locally.

Associated minerals or products - Zinc, lead, gold, cadmium.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The Hewitt and Lorna Doone are adjacent claims and are located at approximately 4,500 feet elevation on the south side of Silverton Creek, 2½ miles southeast of the Slokan Lake community of Silverton.

Adits were driven on the Lorna Doone claims in 1893 by owners Rathbourne and Culver, and on the Hewitt claim in 1896 by owners Tatlow, Yates and associates of Vancouver. The Lorna Doone (Lot 1401) was Crown-granted to Frank Culver in 1898 and the Hewitt (Lot 4440) to Robert Insinger in 1902. Development work to that date totalled about 5,000 feet in 4 adit levels and 2 intermediate levels on the west (Hewitt) side of the hill. Lessees M.S. Davys, R. Sutherland and associates worked both claims from about 1903.

A New York syndicate acquired an option in 1907 and Hewitt Mining Company was incorporated in Delaware later that same year to operate the Hewitt and Lorna Doone. A 5,000 foot long aerial tram was built from No. 3 adit to connect with the Wakefield mill. Ore shipments in 1908 were under the name Silver Cord Mining Company, Limited, which had been incorporated in March 1908 with head office at Sandon.

Silverton Mines, Limited was organized in about 1909 by M.S. Davys and G. Stillwell to lease and option the property. By 1911 three of the adits had been driven through the hill to the east (Lorna Doone) side. The camp was moved to the east side where No. 7 adit level was begun. An aerial tram was built from this adit to the Wakefield mill, which was leased. The mill, which was based on the water concentration principal, burned in 1912 and a new 150 ton per day flotation mill was installed, however due to metallurgical problems satisfactory operation was not achieved until 1915.

The property was acquired by C. Cunningham of Sandon in 1917 and intermittent mine and mill operations continued into 1920. Lessee M.S. Davys resumed work on the property in 1922. Hewitt Mines, Limited was incorporated in June 1925 with head office in Nelson. The property was acquired in 1925 or 1926 by The Victoria Syndicate, Limited and development work on Nos. 8 and 9 adit levels continued into 1928.

The Galena Farm Consolidated Mines Limited acquired the property in 1929. Plans were made to establish No. 10 level, which was to be driven through the mountain for a total length of over 6,000 feet. Development work began from both

see Card 2 ....

## HISTORY OF PRODUCTION

Recorded production for the Hewitt and Lorna Doone for the period 1900-1970 totals 119,659 tons. From this ore 113 ounces of gold, 1,879,322 ounces of silver, 3,742,378 pounds of lead, 5,623,057 pounds of zinc, and 4,021 pounds of cadmium were recovered.

## REFERENCES

Reports of Minister of Mines, British Columbia: 1893, p. 1059; 1896, p. 68; 1898, p. 1191; 1901, p. 1025; 1902, pp. 149, 299; 1903, p. 137; 1904, p. 174; 1905, p. 160; 1906, p. 145; 1907, p. 99; 1908, pp. 98, 247; 1909, p. 112; 1910, pp. 99, 243; 1911, pp. 151-153<sup>+</sup>; 1912, p. 149; 1913, p. 125; 1914, p. 288; 1915, pp. 129-132; 1917, p. 157; 1918, pp. 166, 169; 1919, p. 125; 1920, p. 127; 1922, p. 200; 1923, p. 227; 1924, p. 198; 1925, p. 245; 1926, p. 255; 1927, pp. 275, 406; 1928, p. 291; 1929, pp. 313, 452; 1930, p. 383; 1935, p. E35; 1927, p. A37; 1945, p. 107; 1946, p. 166; 1947, p. 171; 1950, p. 148; 1951, p. 176; 1952, p. 179; 1954, p. 142; 1955, p. 64; 1956, p. 97; 1957, p. 56; 1958, p. 48; 1961, p. 78; 1962, p. 83; 1964, p. 126; 1965, p. 193; 1966, p. 220; 1967, p. 251; 1968, p. 251.

<sup>++</sup>Cairnes, C.E.; Descriptions of Properties, Slocan Mining Camp, British Columbia; Memoir 184, pp. 51-58, Geol. Surv. of Canada, 1935.

Report of the Commission Appointed to Investigate the Zinc Resources of B.C. and the Conditions Affecting Their Exploitation; Rept. No. 12, pp. 51-58, Mines Branch, Ottawa, 1906.

Mineral Policy Sector; Corporation Files: "Silverton Mines, Limited"; "The Victoria Syndicate, Limited"; "The Galena Farm Consolidated Mines Limited"; "Jordesco Resources Limited"; "Surfside Explorations Ltd."; "Arjan Pacific Ltd."; "Dungannon Explorations Ltd.".

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 326; 1970, p. 450; 1971, p. 409; 1973, p. 76; 1974, p. 75; 1977, p. E51.

## MAP REFERENCES

Map 1090 A, Nelson, (Geol.), Sc. 1":4 miles - accomp. Memoir 308, Geol. Surv. of Canada (1960).

Map 273 A, Sandon, (Geol.), Sc. 1:48,000 - accomp. Memoir 173, Geol. Surv. of Canada (1932).

Map 8482 G, Slocan, (Aeromag.), Sc. 1":1 mile.

#Map 82 F/14 W, Slocan, (Topo.), Sc. 1:50,000.

## REMARKS

Comp./Rev. By	DMacR						
Date	02-80						

NAME OF PROPERTY

HEWITT, LORNA DOONE

## HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

ends (No. 10 east and No. 10 west adits). An aerial tram was installed from No. 10 west portal to the Galena Farm mill, a distance of 8,800 feet. Work ceased in January 1930 with some 750 feet remaining to make the connection between the two adit faces. Lessees worked intermittently during the period 1935 to 1942. The Granby Consolidated Mining, Smelting and Power Company, Limited optioned the lease in 1946 and during 1947 drove a raise from No. 10 east adit to No. 9 level, the option was given up later that year.

Van Roi Mines (1947) Ltd. was re-organized in 1950 to consolidate the Hewitt and nearby Van Roi properties under the name Van Roi Consolidated Mines Ltd.; control of the company was acquired by Transcontinental Resources Limited. A 100 ton per day mill was installed on Slocan Lake 1 mile south of Silverton in 1951 and stoping was carried out on No. 10 east level; operations ceased in July. The company name was changed in 1955 to Slocan Van Roi Mines Limited. The mine reopened in the latter half of the year and diamond drilling was done below No. 10 level. In 1956 a 65° winze was sunk in the hangingwall and a crosscut driven 100 feet south to the vein to establish No. 11 level. The ore shoot developed by this work was leased to J. Heichert and mined out by July 1957. The company name was changed in 1960 to Kopan Developments Limited. Lessees during 1962-64 deepened the internal winze to establish No. 12 level and stoping was carried out. In 1969 the property was leased to Frank Pho for a period of 10 years and the shaft was deepened to establish No. 13 level. Mr. Pho in 1970 assigned the lease to Surfside Explorations Ltd. No. 13 level was extended and stoping over a length of 60 feet was carried up to No. 12 level. Ground failure in stopes and the shaft area necessitated closing of operations in 1970 before all the known reserves were extracted. Indicated reserves were reported at 54,432 tonnes at 15 to 20 ozs/t Ag, 5.0% Pb, 7.0% Zn (B.C. Published Reserves File). The company name (Kopan) was changed in 1972 to Jordesco Resources Limited.

Arjan Pacific Ltd. in April 1973 purchased the property and the 125 ton per day mill from Jordesco. Some rehabilitation work was done in No. 10 west adit.

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## HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Dungannon Explorations Ltd. and Sabina Industries Limited purchased the property early in 1977 under a joint venture agreement and subject to the prior lease by Pho. In May 1977 a new lease agreement for 3 years, with the option to renew for a further 5 years, was reached with Mr. Pho. During the year a new inclined shaft beneath No. 10 east level was sunk 90 feet, and 80 feet of drifting carried out.