

## NAME OF PROPERTY

FERGUSON

OBJECT LOCATED -hill on which showings are located.

UNCERTAINTY IN METERS-500. Lat. 56°41'20" Long. 125°10'

Mining Division **Qmineca** District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The formation, consisting of crystalline limestone of the Ingenika group of Lower Cambrian age, strikes about N80°W and dips northerly at 20 to 40°. In the vicinity of Fergusons Hill the limestones are in part intensely contorted and partly to completely silicified. In the highly silicified, finely bedded rocks, siderite was deposited along the bedding planes, the most heavily mineralized parts containing quartz and siderite in about equal proportions. In the slightly silicified limestone, and to a lesser extent in the highly silicified, massively bedded rock, the siderite is not confined to bedding planes but forms large, irregular masses up to 20 feet in diameter of very coarsely crystalline nearly pure mineral. Replacement of the quartz-siderite rock by pyrite, sphalerite, and galena, with lesser amounts of copper and silver sulphides, has resulted in the formation of distinct mineralized zones, which in general see Card 2 ....

Associated minerals or products of value - Zinc, silver.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located 1 mile south of the Ingenika River, 13 miles southwest of its junction with the Finlay River. The showings are on a knoll, known locally as Ferguson Hill, which rises abruptly to an elevation of about 250 feet above the wide terrace on the south bank of the river.

Five claims, the Trout Lake No. 1 (Lot 3717), Blue Bell Nos. 1 and 2 (Lots 3719 & 3718, respectively), Ferguson (Lot 3720) and Muir (Lot 3726), were staked on the showings by James Ferguson in about 1917. The Consolidated Mining and Smelting Company of Canada (Limited) is reported to have examined the property in 1919.

The property was optioned in 1926 by the Selkirk Mining Syndicate Limited, which was represented by C.A. MacKay and C.W. Frank, of Victoria; there is no record of this company being incorporated in Canada. R.W. Wilson, M.E. and associates, optioned the property from the Syndicate and development work was begun late in 1927. Ingenika Mines, Limited, was incorporated in July 1928 by Wilson and associates and development work continued into 1930. The workings include adit Nos. 1, 2, 4, and 5, totalling about 1,700 feet of crosscuts and drifts, with a 130 foot raise connecting Nos. 1 and 4 levels. Activity in 1931 was confined to assessment work on certain claims. Crown grants were issued to Ingenika Mines, Limited, on 8 claims in 1929 and 17 claims in 1937, including the Ingenika and Dorita groups. Silver Standard Mines Limited purchased 50,000 shares of Ingenika Mines, Limited, in 1939.

No further activity was reported until 1956 when The Consolidated Mining and Smelting Company of Canada Limited optioned 32 Crown-granted and 22 recorded claims from Ingenika Mines. Work during 1956 and 1957 included geological, geophysical, and geochemical surveys, and 10,718 feet of diamond drilling in 28 holes; for this work Consolidated Mining and Smelting received 581,911 shares of Ingenika Mines, Limited.

Dorita Silver Mines Ltd. (about 67% owned by Silver Standard Mines Limited) in 1969 acquired an option on a see Card 2 ....

HISTORY OF PRODUCTION

REFERENCES

- <sup>+</sup> Roots, E.F.; Geology and Mineral Deposits of Aiken Lake Map-Area, British Columbia; Memoir 274, pp. 204-208, Geol. Surv. of Canada, 1954.
- <sup>++</sup> Dolmage, V.; Finlay River District, British Columbia; Summary Report 1927, Pt. A., pp. 37-40, Geol. Surv. of Canada.
- Reports of Minister of Mines, British Columbia: 1926, p. 155; 1927, p. 160; 1928, p. 182; 1929, p. 508; 1930, p. 149; 1931, p. 76; 1956, p. 30; 1957, p. 13.
- Canadian Mining Journal, March 8, 1929, p. 217.
- Mineral Policy Sector; Corporation Files: "Ingenika Mines, Limited"; "Dorita Silver Mines Ltd."
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 109.

MAP REFERENCES

- #Map 1030 A, Aiken Lake, (Geol.), Sc. 1":4 miles - Accomp. Memoir 274.
- \*Map 94 C, Fort Grahame, (Topo.), Sc. 1:250,000.
- #Geological Plan and Section of the Ferguson property, Sc. 1":120 ft., Fig. 13 - accomp. Memoir 274.

REMARKS

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| Comp./Rev. By |      | DMacR | DMacR |  |  |  |  |
| Date          | 9-63 | 9-74  | 1-79  |  |  |  |  |

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## DESCRIPTION OF DEPOSIT (continued)

follow the bedding. Within any one mineralized zone the individual mineralized bodies are lens like and range in thickness from 2 to 10 feet, being thickest on the crests of small folds and thinning on the limbs. The mineralized zones have lengths up to about 140 feet, the best mineralization occurring where a few individual beds have been greatly thickened by drag-folding. It appears that Ferguson Hill lies near the nose of a large drag-fold, plunging to the north, on the west limb of a major anticline that has been overturned to the west.

## HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

lease which Silver Standard obtained from Ingenika Mines, Limited, on 3 of the Crown-granted claims. Work by Dorita during 1969 included mapping of the surface and underground workings, and 1,803 feet of diamond drilling in 21 holes. A further 815 feet of diamond drilling and a geochemical survey were carried out in 1970. "There are reserves of 25,000 tons" (VSE SMF 28/10/70 Dorita Silver Ms L). The grade is reported as 3.5 ozs silver per ton, 9.8% lead, and 6.1% zinc (Rept. & Balance Sheet, 30/11/69 Dorita Silver Ms L).

Ingenika Mines, Limited was liquidated in 1976. All the mineral properties of Dorita Silver Mines Ltd. were sold to Silver Standard Mines Limited in 1978.