

PRODUCT

IRON

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 93 L/12

REF. FE 1

NAME OF PROPERTY

LIMONITE CREEK

OBJECT LOCATED -Old Ironsides claim (Lot 5815).

UNCERTAINTY IN METRES 100. Lat. 54°32'27" Long. 127°48'20"

Mining Division Omineca District Range 5 Coast

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

Map 69-1 indicates the area is underlain by Lower Jurassic and (?) Middle Jurassic red, purple, grey, and green andesitic to rhyolitic tuffs, breccias, and flows. MacKenzie (1915) describes the country rock as an altered greenish porphyry which, on the mountainside to the north and above the iron deposit, contains many quartz veins carrying pyrite. The water flowing over the iron deposit has a strong taste of iron salts. This strong solution of iron sulphates trickling down under the moss has built up the deposit as it now stands by the progressive transformation to limonite of successive layers of moss and other vegetation, from beneath. The yellow and brown earthy limonite occurs in platy layers from 1 to 3 inches thick, lying parallel to the surface of the hill, which has a southerly slope averaging about 30°. Although thicknesses of as much as 22 feet were encountered, the drilling indicated the average thickness of clean limonite would be in the neighbourhood of 10 feet. The showings were sampled by J.D. MacKenzie of the Geological Survey of Canada and assayed by the Mines Branch, Ottawa. The assays ranged in values as follows:

Iron (metallic)	-	52.19	to	55.01%
Silica	-	0.83	to	1.99%
Manganese	-	0.39	to	0.85%
Phosphorus	-	0.016	to	0.616%
Sulphur	-	1.14	to	1.52%

Associated minerals or products of value

HISTORY OF EXPLORATION AND DEVELOPMENT

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The property is located at the 2,500 foot elevation on the north side of Limonite Creek, a westerly flowing tributary of the Zymoetz River, approximately 30 miles east of Terrace.

Nine claims were located on the showings prior to 1913 by prospector Mansel Clarke, of Prince Rupert. The claims were optioned to North Pacific Iron Mines, Limited, which was incorporated in October 1913 with head office at Prince Rupert. Assessment work was confined mainly to trenching. Five claims, the Iron Horse, Iron Mask, Old Ironsides, Iron Mountain, and Limonite (Lots 5812-5816), were Crown-granted to Mr. Clarke in 1914. The company charter was surrendered in 1926.

Shawano Iron Mines Limited, incorporated July 1956, optioned the 5 Crown-grants and staked 10 recorded claims. Drilling was done in 1957 in 27 holes. Based on this work reserves were estimated at 100,000 tons of limonite, over an area of some 45 acres. The option on the Crown-grants was subsequently dropped.

HISTORY OF PRODUCTION

REFERENCES

MacKenzie, J.D.; Telkwa Valley and Vicinity; Summary Report 1915, pp. 67-69, Geol. Surv. of Canada.

Reports of Minister of Mines, British Columbia: 1913, pp. 108, 111; 1914, pp. 123, 174, 513; 1916, p. 301; 1918, p. 54; 1957, p. 12.

Mineral Policy Sector; Corporation Files: "North Pacific Iron Mines, Limited"; "Shawano Iron Mines Limited".

Lindeman, E., and Bolton, L.L.; Iron Ore Occurrences in Canada; Report No. 217, Vol. II, p. 21, Mines Branch, Ottawa, 1917.

Young, G.A., and Uglow, W.L.; The Iron Ores of Canada, Vol. I, British Columbia and Yukon; Economic Geology Series No. 3, pp. 3, 16, Geol. Surv. of Canada, 1926.

MAP REFERENCES

Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.

Preliminary Map 44-23, Smithers, (Geol.), Sc. 1":2 miles, Paper 44-23, Geol. Surv. of Canada.

Map 1605, Diagram of Limonite Deposit, Limonite Creek, B.C., Sc. 1":600 feet (approx.) - accomp. Summary Report, 1915.

#Map 93 L/12, Milk Creek, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	12-75						