

NAME OF PROPERTY

SURF INLET & PUGSLEY

OBJECT LOCATED - Centre of group.

UNCERTAINTY IN METERS 50. Lat. 53°05' Long. 128°52'50"

Mining Division Skeena District Coast, Range 4

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

Matachewan Consolidated Mines, Limited.

DESCRIPTION OF DEPOSIT

The country rock is mainly quartz diorite of the Coast batholith, but the sheared zone cut through a large mass of chlorite schist included in the batholith. At the surface the deposit consisted of two veins of pyritized quartz 100 to 160 feet apart, one on each side of a northerly trending shear zone. The veins dipped 40 to 60 degrees west and came together at a depth of about 550 feet to form a single vein 40 feet wide in places. The maximum length of the veins was about 1,000 feet. Quartz and ankerite are the principal gangue minerals. Auriferous pyrite composed up to 25% of the vein material, and native silver, chalcopyrite, hematite, molybdenite, and other minerals were also present.

Associated minerals or products of value - Silver, copper.

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located about 7 miles from the head of Surf Inlet and about a mile east of Bear Lake. The property straddles a deeply entrenched creek, the Surf Inlet group (D.L.S. group) (La Cuivre group) of claims lying to the north, and the Pugsley group (Princess Royal and Homestake groups) of claims lying to the south.

Exploration and development work began in about 1900. The Princess Royal group of 3 claims was owned by Messrs. Wilson, Irving, & Rithet; the Homestake group of 5 claims, adjoining and south of the Princess Royal group, was owned by Messrs. McMillan, Howden, Cliff, and Nowell; the D.L.S. group was owned by Messrs. Cleveland and Kelly. Additional claims in the Bluff group were staked in 1901 adjoining the D.L.S. group and subsequently included in it. The Princess Royal and Homestake groups were bonded to Mr. J. Findlay & associates in 1902; the Princess Royal claim (Lot 7, R 4) was Crown-granted to Messrs. Wilson and Rithet in 1902. All groups were apparently idle from about 1903 until 1910.

Surf Inlet Gold Mines Limited was formed in 1910 to develop the D.L.S. group of 9 claims, however, very little work was done by the company. The Tonopah-Belmont Development Company optioned the property in 1915 and Belmont Canadian Mines Limited was formed to carry on development work. The following year the Princess Royal group was optioned from Princess Royal Gold Mines Ltd.; this group had previously been held by Princess Royal Island Mining Company, Limited, which was incorporated in June 1911.

Belmont Canadian Mines Limited was reorganized under the name Belmont-Surf Inlet Mines Ltd. in 1917 with Surf Inlet Mines Ltd. retaining a 20% interest in the new company. A 300 ton mill was put into operation in 1917. Development of the Princess Royal group under the option agreement continued until 1921 when the purchase of the property was completed. The company operated continuously until June 1926 when operations were suspended.

Princess Royal Gold Mines Limited, incorporated in May 1933, acquired the Surf Inlet and Pugsley groups and exploration and development work was begun. The old mill was reconditioned to handle 70 tons per day. The company name was

Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

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HISTORY OF PRODUCTION

From 1902-1943, 1,012,067 tons of ore were shipped from this property. From this ore 388,881 ounces of gold, 201,210 ounces of silver, and 6,248,943 pounds of copper were recovered.

MAP REFERENCES

Map 29-1970, Douglas Channel and Hecate Strait, (Geol.), Sc. 1":4 miles - Accomp. Paper 70-41.

Coast & Islands of British Columbia between Campania Sound and Kitimat Arm, (Geol.), Sc. 1":10 miles - Fig. 6, Summary Report, 1921, Pt. A.

Map 103 H, Douglas Channel, B.C., (Topo.), Sc. 1:250,000.

#Map 103 H/2, Butedale, (Topo.), Sc. 1:50,000.

REMARKS

| Comp./Rev. By | | DMacR | DH | DMacR | JL | DMacR | |
|---------------|------|-------|------|-------|-------|-------|--|
| Date | 3-66 | 3-74 | 7-75 | 1-79 | 01-83 | 08-86 | |

REFERENCES

- +Cooke, H.C., & Johnston, W.A.; Gold Occurrences of Canada, Summary Account; Economic Geology Series No. 10, p. 37, Geol. Surv. of Canada, 1932.
- ++Dolmage, W.; Coast & Islands of British Columbia between Burke and Douglas Channels; Summary Report 1921, Pt. A, pp. 30-35, Geol. Surv. of Canada.
- Reports of Minister of Mines, British Columbia: 1900, p. 787; 1901, pp. 992, 993; 1902, p. 52; 1903, p. 51; 1912, pp. 100-103; 1915, p. 151; 1916, p. 435; 1917, pp. 38-42; 1918, p. 45; 1919, p. 40; 1920, p. 37; 1921, p. 40; 1922, p. 43; 1923, p. 45; 1925, pp. 66, 360; 1933, p. 41; 1934-1942; 1946, p. 85.
- Mineral Policy Sector; Corporation Files: "Tonopah-Belmont Development Co."; "Surf Inlet Gold Mines Ltd."; "Belmont-Surf Inlet Mining Co."; "Western Surf Inlet Mines Ltd."; "Matachewan Consolidated Mines, Limited".
- Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1923, Rept. 617 (No. 190); 1936, Rept. 776 (No. 687).
- McConnell, R.G.; Princess Royal Island, B.C.; Summary Report 1912, pp. 64-67, Geol. Surv. of Canada.
- Gill, J.E., and Byers, A.R.; Surf Inlet and Pugsley Mines; Structural Geology of Canadian Ore Deposits, C.I.M.M., Jubilee Volume, 1948, pp. 99-104.
- Roddick, J.A.; Douglas Channel-Hecate Strait Map-Area, British Columbia; Paper 70-41, p. 46, Geol. Surv. of Canada, 1970.

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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

changed in 1935 to Surf Inlet Consolidated Gold Mines Limited. Operations were continuous until November 1942 when the mine closed for the duration of the war. Work was resumed in April 1946 and suspended again the following December. During the year some 500 feet of underground development work was completed and 7,612 feet of diamond drilling was done from the surface.

Underground development work totals some 50,000 feet of drifts, cross-cuts, and raises. During the period 1940-46 some 67,000 feet of diamond drilling was completed.

The company name was changed to Surf Inlet Consolidated Mines Ltd. in 1955 and to Western Surf Inlet Mines Ltd. in 1959. Matachewan Consolidated Mines, Limited, acquired the assets of the company in 1966. Reserves on the Pugsley group were estimated in 1961 at 47,250 tons probable and possible, grading 0.35 to 0.45 oz. gold/ton (NM 24/01/74). In 1981, the occurrence was optioned by Cominco Ltd. and Placer Development Limited. They diamond drilled 10 holes totalling 5,008 feet along a shear zone strike length of 6,400 feet; results ruled out a large tonnage low-grade potential. The option was terminated in June 1984 with Matchewan retaining 100% interest in 21 patented Crown leases.