

PRODUCT
PRODUIT

MOLYBDENUM

PROVINCE OR
TERRITORY

PROVINCE OU
TERRITOIRE

British Columbia

N.T.S. AREA 103 P/5
RÉGION DU S.N.R.C.

REF. MO 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ TIDEWATER (RIEL'S CAMP) (ROSS GROUP)

OBJECT LOCATED
OBJET LOCALISÉ 0.10 % MoS₂ zone.

UNCERTAINTY 300 m Lat. 55°28' Long. 129°32'50"
FACTEUR D'INCERTITUDE

Mining Division
Division minière Skeena

District
District

County
Comté Township or Parish
Canton ou paroisse

Lot
Lot Concession or Range
Concession ou rang

Sec
Sect. Tp. Ct. R. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

An irregular shaped stock measuring about 250 m by 400 m ranges in composition from quartz monzonite to granite. It intrudes mid Jurassic Hazelton Group rocks, mainly argillite, siltstone and greywacke, which are altered to hornfels around the stock. Widespread molybdenite occurs in scattered banded quartz veins, in quartz vein stockworks, and as disseminations and fracture coatings. Underground work prior to 1932 explored quartz veins varying in width from a few inches up to 15 feet in places, located some 900 feet south of the stock. Molybdenite locally occurs in the quartz in thin layers parallel to the vein walls. Mineralized shoots grade up to 2.6 % molybdenum. Assays from 0.04 to 0.24 oz/t gold and 0.37 to 254 oz/t silver have been reported.

HISTORY OF EXPLORATION AND DEVELOPMENT
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The property is located at 1 500 feet elevation on the north side of Alice Arm about 1 mile from tidewater and some 3 miles southwest of the village of Alice Arm.

The showings were described by McConnell in 1911 under the name "Molybdenite Group". Hanson (1935) described the property under the name "Mayflower Group". The Conundrum claim was reportedly owned by R.M. Stewart of the Stewart Land Company of Victoria. The claim lapsed and was apparently restaked by Messrs. Riel and Teetzel as the Molybdenum and Success claims. Along with Messrs. Stillwell and Ross, the Molybdenum Mining & Reduction Company Limited was formed. A 100-ton mill was built and operated briefly during 1916 before litigation over the ownership of the property forced the mine to close. The Molybdenum (Lot 3648) and Success (Lot 3652) claims were Crown-granted in 1920 to Brian Drake, Registrar of Superior Court, Victoria Registry. Adjacent lots 3650 (Silver Tip) and 3651 (Monarch) were gazetted but apparently not Crown-granted. The property remained idle until 1930.

Tidewater Molybdenum Mines Limited was incorporated in September 1929 to develop the property but no work was reported done by the company. The Molybdenum and Success Crown-granted claims were reported purchased at a tax sale in 1930 by G.W. Bruggy & associates. In April 1930, the Dalhousie Mining Company Limited optioned the property and carried on development work until April 1931. Up to this time some 1 200 feet of development work had been done in two adits at 1 025 feet and 1 150 feet elevations.

No further work was reported until 1964 when the 2 Crown-granted and 89 recorded claims, owned by M. Black, were optioned to Canex Aerial Exploration Limited. Work during 1964 consisted of a geochemical survey, geological mapping, and 1 795 feet of diamond drilling from the old underground workings.

Further exploration work was carried out during 1965 by Corex Mines Ltd. under an agreement with Canex. Five vertical drill-holes totalling 958 feet were drilled in and adjacent to the small stock of quartz monzonite porphyry 900 feet north of the old workings. Drilling in the stock near its southern contact suggests that it is a relatively thin sheet in the

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Associated minerals or products
Minéraux ou produits associés

Gold, silver

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

In 1916, 383 tons of ore were shipped from this property. From this ore 13 022 pounds of molybdenite were recovered.

REFERENCES/BIBLIOGRAPHIE

Annual Reports, Dept. of Mines, B.C.: 1916, pp. 52, 66-68, 435; 1920, p. 349; 1929, p. 82; 1930, pp. 83-86; 1931, p. 37; 1964, pp. 39-41; 1965, p. 63.

Stevenson, J.S.; Molybdenum Deposits of British Columbia; Bulletin No. 9, pp. 61-67, Dept. of Mines, B.C., 1940.

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Gwillim, J.C.; Molybdenite Resources of British Columbia; Canadian Munitions Resources Commission (1917-1919), pp. 26-31, Mineral Policy Sector, File MR-MO-301.00, British Columbia.

Mines Branch, Ottawa: Summary Report 1917, Investigations in Ore Dressing and Metallurgy, Rept. No. 493, pp. 65-67 (No. 59); 1918, Rept. No. 509, pp. 188-119 (No. 80); 1931, Rept. No. 728, pp. 26-31 (No. 393).

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BCI 103 P-111

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 307 A, Portland Canal Area, B.C., (Geol.), Sc. 1": 4 miles - accomp. Mem. 175.

Porphyry Molybdenum Deposits, Alice Arm-Nass River Area, (Geol), Sc. 1 cm: 2.5 km, accomp. Bulletin 64, BCDM, 1981.

#Property Geology, Sc. 1.3 cm: 100 m, Figure 4, Report by Le Bel. Plan of underground workings, Report of Minister of Mines, 1930, p. 84.

*Map 103 P/4, Observatory Inlet, (Topo.), Sc. 1: 50 000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par			DMacR				
Date Date	03-68	01-74	08-88				

PRODUCT PRODUIT	MOLYBDENUM	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA RÉGION DU S.N.R.C.	103 P/5	REF. RÉF.	MO 1
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NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

TIDEWATER (RIEL'S CAMP) (ROSS GROUP)

HISTORY OF EXPLORATION AND DEVELOPMENT (con't)
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

area as the holes passed into hornfelsed sedimentary and volcanic rocks. Minor amounts of molybdenite mineralization, occurring in 1/4 inch quartz veinlets and in hair-line fractures, were intersected in the hornfelsed rocks. Occasional short sections of better-grade mineralization were found in the quartz monzonite porphyry.

The reverted Crown-grants were acquired and overstacked as the Tide 1-3 claims (17 units) by Richard Dunn. Bulk sampling was done in the upper adit. Amax of Canada Ltd. optioned the property and in 1979-80 carried out soil and rock geochemical surveys, magnetometer and induced potential surveys and 1 580 m of diamond drilling in 8 holes; the option was terminated in 1980. Amax in 1981 re-assayed selected drill core samples for gold. The drilling outlined a deposit of about 10 000 000 tons grading about 0.1 % MoS₂. This figure includes MoS₂ grading from 1.0 % to 2.65 % in the quartz veins opened by the adits. (Richmark Resources Ltd., Prospectus, 21/12/87).

Richmark Resources Ltd. was incorporated in March 1987 by Dunn and associates to acquire and develop the property. Drill pulps and selected soil samples from the 1979-80 work were re-assayed for gold and silver. Diamond drilling in the first half of 1988 was done in 5 holes.

REFERENCES/BIBLIOGRAPHIE (con't)

Le Bel, J.L.; Report on the Tidewater Property, 14/05/87, in Richmark Resources Ltd. Prospectus, 21/12/87.

Tectonic History and Mineral Deposits of the Western Cordillera, The Canadian Institute of Mining and Metallurgy, Special Volume No. 8, p. 337, 1966.

George Cross News Letter: 1988, No. 115.