



Occurrence Details

Occurrence Number: 105F 050

Occurrence Name: Bruce Lake

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: copper, gold, lead, nickel, silver

Deposit Type(s): Ultramafic Mafic Flood basalt-associated Ni-Cu

Location(s): 61°48'23" N - -132°3'38" W

NTS Mapsheet(s): 105F16

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Mag cl (86401) in Apr/63 by Newmont following the release of GSC aeromag maps. Newmont conducted further airborne mag and EM surveys and prospected the adjacent area in 1963. Old pits and claim posts were found on Horton Creek, about 610 m north of the highway. Restaked in Jun/65 as Sas cl (89119) by Frobex L (British Met Can L, Conwest and McIntyre Porcupine ML), which drilled 3 holes (252 m) in 1966, formed a new company to develop the claims, Bruce Lake ML, and drilled 4 holes (435.5 m) in 1968 in a joint venture with Augustus EL.

The Horn cl (Y84043) were staked on the north side in Mar/75 by A. Carlos, who conducted mag, EM and geochem surveys and drilled 1 hole (61.0 m) later in the year near Hoole Canyon, about 3.2 km north. Restaked as Lukeshane cl (YA71079) in Jun/84 by A. Carlos, who performed VLF and mag surveys in 1985 and hand trenching in 1986. Tally-Ho ECL acquired the property in Jan/87, tied on LS cl (YB1352) in Sep/87, and later transferred the claims to Ranger Pacific ML, which returned them to Carlos in Sep/88.

In Mar/89, Carlos optioned the claims to Noranda ECL which performed mapping, prospecting, HLEM and magnetometer surveys and trenching before returning them to Carlos in Nov/89. The property was optioned in fall 1991 to Canadian Comstock Exploration Ltd which conducted a VLF-EM survey over Nickel Lake and drilled three holes totalling 286.8 m.

Capsule Geology

The property covers an area of glacial till on the northeast edge of the Tintina Trench. Despite a lack of outcrop, the bedrock geology has been pieced together from an interpretation of the regional geology, float, geophysical surveys and old drillholes. Volcanic breccia of probable Tertiary age overlies siliceous metasedimentary rocks of the Anvil Allochthon.

Newmont found greyish-green pyroxenite containing up to 25% pyrrhotite, 0.28% Cu and 0.1% Ni at Float Lake and on Horton Creek north of the highway. The 1965-68 drilling, which tested EM and mag anomalies on the north side of Float Lake, cut scattered sulphides in siliceous layered sediments and a serpentinite sill of Permian age. The best intersection was 0.39% Cu and 0.52% Ni over less than 1 m. Sludge samples assayed up to 94.6 g/t Ag. The 1975 hole was drilled down dip on an EM and magnetic anomaly and intersected weakly altered unmineralized carbonate and pyritic graphite schist of probable Lower Paleozoic age.

In 1987, a VLF survey located a linear structure containing siliceous breccia and banded chalcidony. Float specimens of siliceous material returned up to 6.8 g/t Au, 41 g/t Ag and 0.43% Pb.

The 1989 magnetometer survey outlined several narrow anomalies which were interpreted as peridotite dykes. A float sample from Trench #1 returned anomalous gold and arsenic values.

The 1991 drill holes intersected felsic volcanic breccia and tuff, graphitic shear zones and mafic porphyry dykes. Up to 5% disseminated and fracture filling pyrite and pyrrhotite was encountered in the graphitic shear zones and brecciated volcanic rocks. The highest silver value was 3.6 ppm over 1.5 m from felsic volcanic breccia. The highest gold value, from the same breccia, was 280 ppb over 2.7 m.

References

BRUCE LAKE MINES LTD, 1966. Assessment Report *#091152 by N. Fraser.

CANADIAN COMSTOCK EXPLORATION LTD, Jan/92. Assessment Report #092996 by A. Kikauka.

CARLOS, A., Jan/76. Assessment Report #090070 by A. Carlos.

CARLOS, A., May/85. Assessment Report #091627 by A. Carlos.

CARLOS, A., May/87. Assessment Report #091947 by A. Carlos.

GEOLOGICAL SURVEY OF CANADA, Paper 64-36, p. 42-43.

MINERAL INDUSTRY REPORT, 1975, p. 162-163.

NEWMONT EXPLORATION CO. OF CANADA LTD, Sep/63. Engineer's Report by M.R. Keys.

NORANDA EXPLORATION COMPANY LTD, Dec/88. Assessment Report *#092655 by H Copland.

NORANDA EXPLORATION COMPANY LTD, Sep/89. Assessment Report #092756 by H Copland.

YUKON EXPLORATION 1985-86, p. 223; 1987, p. 158; 1990, p. 44.

Work History

Date	Work Type	Comment
12/31/1991	Drilling	Three holes, 286.8 m.
12/31/1991	Ground Geophysics	Also VLF survey. Over Nickel Lake.
12/31/1989	Geology	
12/31/1989	Ground Geophysics	Also HLEM survey.
12/31/1989	Trenching	
12/31/1987	Ground Geophysics	VLF survey.
12/31/1986	Trenching	
12/31/1985	Ground Geophysics	Also VLF survey.
12/31/1975	Drilling	One hole, 60.96 m.
12/31/1975	Geochemistry	
12/31/1975	Ground Geophysics	Also EM survey.
12/31/1975	Other	
12/31/1968	Drilling	Four holes, 435.56 m.
12/31/1966	Drilling	Three holes, 252.07 m.
12/31/1963	Airborne Geophysics	Also EM survey.
12/31/1963	Other	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
092756	1989	Geological, Geochemical, Trenching & Geophysical Report on the Lukeshane Property	Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Mechanical - Trenching		
092655	1988	Geophysical Report on the Lukeshane Property	Magnetics - Ground Geophysics		
091627	1985	Geophysical Report on Lukeshane 1-48 Mineral Claims	EM - Ground Geophysics, Magnetics - Ground Geophysics		

Related References				
Number	Title	Page(s)	Reference Type	Document Type
ARMC016713	Geochemical map - 105F/16 - Ross River		Property File Collection	Geochemical Map
ARMC014340	Property information form and geophysical map - Ambrose Kopinek		Property File Collection	Report
ARMC016715	Geological map - 105F/16 - Ross River		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014520	Evex claims - Preliminary evaluation		Property File Collection	Report