



Occurrence Details

Occurrence Number: 115F 057

Occurrence Name: Lep

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/28/2025 7:29:47 PM

General Information

Secondary Commodities: copper, silver, zinc

Deposit Type(s): Skarn Cu

Location(s): 61°50'16" N - -140°32'55" W

NTS Mapsheet(s): 115F15

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Lep cl (Y9562) in Jul/66 by a syndicate composed of Imperial OL, Alcon Pet. L and Can. Industrial G & OL during a reconnaissance geochemical program. The Alcon interest was later transferred to Bow Valley Ind. L. Exploration consisted of mapping, mag and EM surveys, and 6 pack sack holes (37.8 m) in 1967. The claims were allowed to lapse and were restaked as Lep cl (Y53002) in Jun/70 by the same syndicate, which conducted grid soil sampling and detailed mapping in 1970 and 1971. Restaked as PGMB cl (YB20169) in Jun/88 by L. Carlyle who performed mapping and sampling later that year.

Capsule Geology

The main showing outcrops in a creek at elevation 1 292 m (4 240 ft), and consists of massive pyrite, sphalerite and chalcopyrite in silicified marble of Upper Paleozoic or Triassic age near the contact of a diorite intrusion containing disseminated pyrrhotite. The mineralization has the form of an irregular pod 9.1 m long, and a channel sample assayed 17.2% Zn across a width of 2.6 m. A copper assay of 1.07% was obtained by L. Carlyle from the same showing. Other similar mineralized pods were subsequently found in the area, all associated with gossanous shear zones in vuggy silicified limestone at about the same elevation. Two copper showings occur about 30 and 150 m downstream from the main showing. The upper consists of weak mineralization in silicified marble near the contact of a diorite dyke. At the lower, chalcopyrite, pyrite and minor pyrrhotite occur in fractures in a propylitically altered diorite dyke. A grab sample assayed 4.5% Cu and 17.1 g/t Ag. The Imperial Oil geochemical surveys outlined four coincident nickel-copper-cobalt anomalies on the property. Two of these are associated with northwest-trending anomalies caused by pyroxenite and gabbro sills.

References

CARLYLE, L.W., Apr/89. Assessment Report #092704 by L.W.Carlyle.

DODDS, C.J., AND CAMPBELL, R.B., 1992. Overview, legend and mineral deposit tabulations for Geological Survey of Canada Open Files 2188, 2189, 2190 and 2191.

GEOLOGICAL SURVEY OF CANADA Paper 68-68, p. 73.

IMPERIAL OIL ENTERPRISES LTD, Jul/67. Assessment Report #019078 by G.J. McGinn.

IMPERIAL OIL ENTERPRISES LTD, 1970. Assessement Report *#060190 by R.W. Oddy.

IMPERIAL OIL ENTERPRISES LTD, 1971. Assessement Report *#060985 by P.E. Walcott.

IMPERIAL OIL ENTERPRISES LTD, 1971. Assessement Report *#060987 by R.W. Oddy.

MELNYK, W.D., Apr/72. Geology of the Moose Creek Area, St Elias Range. Unpublished B.A.Sc. Thesis, University of Saskatchewan.

YUKON EXPLORATION 1989, p. 106

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
092704	1988	Assessment Report on the PGMB 1 to 4 Claims	Rock - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other		
060987	1971	LEP 1-30 Claims, Magnetometer Survey	Magnetics - Ground Geophysics, Line Cutting - Other		
019078	1967	Report on Exploration Work on LEP claims	Diamond - Drilling, Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other	6	32.77
092054	1953	Report on the Geophysical Surveys in the Shakwak Valley Area, Yukon Territory for Canalask Nickel Mines Limited.	Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC020320	1988 detailed work program for Yukon Concentrators Ltd. - February, 1988		Property File Collection	Report