



Occurrence Details

Occurrence Number: 115G 097
Occurrence Name: Lonth
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 4/28/2025 11:47:22 PM

General Information

Deposit Type(s): Unknown
Location(s): 61°36'1" N - -139°48'0" W
NTS Mapsheet(s): 115G12
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Lonth cl 1-16 (66298) in Aug/53 on an aeromagnetic anomaly outlined in a survey by Lundberg Explorations Ltd on behalf of Ontario Nickel Mines Ltd and Canalsk Nickel Mines Ltd.
Restaked as DRN cl 1-16 (YA97980) in Jun/87 by Harjay Exploration Ltd and Kluane Joint Venture (All-North Resources Ltd & Chevron Minerals Ltd). The claims expired a year later.

Capsule Geology

The area is located on the west side of the Donjek River, approximately 10 km up stream from where the Donjek River crosses the Alaska Highway. The area was mapped in the 1960s by Muller (1967) of the Geological Survey of Canada. S. Israel of the Yukon Geological Survey published a geological compilation of southwest Yukon in 2004 and began re-mapping the region in the same year. In 2004 Israel and Van Zeyl, published a 1:50 000 map of the Quill Creek area which covers the area immediately to the southeast. The claims/occurrence lie on the southwest side of the Denali Fault in a drift-covered portion of the Donjek River Valley. Extrapolation of known geological and geophysical data suggests that the area is underlain by volcanic rocks assigned to the Pennsylvanian (?) and Permian aged Station Creek Formation. It is possible that these volcanic rocks are overlain in some places by the lower portion of the sedimentary dominated Hansen Creek Formation.

Lundberg Explorations' geophysical work outlined two small magnetic highs which the company suggested represented a lens of either magnetite or pyrrhotite. Although neither the Kluane Joint Venture nor Harjay Exploration filed assessment or other exploration results, exploration summaries published by the Federal Government indicate that the companies were exploring for copper-nickel and platinum group elements (PGEs) in the Upper Triassic Nikolai Formation flood basalts. It is likely that the claims were allowed to expire once the companies determined that the area was likely underlain by older Station Creek Formation rocks.

References

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GORDEY, S.P. AND MAKEPEACE, A.J. 2003: Yukon Digital Geology, version 2.0, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9 (D).

GREENE, A.R., ET AL., 2005. Flood basalts of the Wrangellia Terrane, southwest Yukon: Implications for the formation of oceanic plateaus, continental crust and Ni-Cu- PGE mineralization. In: Yukon Exploration and Geology 2004, D.S. Emond, L.L. Lewis and G.D. Bradshaw (eds.), Yukon Geological Survey, p. 109-120.

ISREAL, S., 2004. Geology of Southwestern Yukon (1:250 000 scale). Yukon Geological Survey, Open File 2004-16.

ISRAEL, S., AND VAN ZEYL, D.P., 2004. Preliminary geological map of the Quill Creek map area, (parts of NTS 115G/5, 6 and 12), southwest Yukon (1:50 000 scale). Yukon Geological Survey, Open File 2004-20.

ISRAEL, S., AND VAN ZEYL, D.P., 2005. Preliminary geology of the Quill Creek map area, southwest Yukon parts of NTS 115G/5, 6 and 12. In: Yukon Exploration and Geology 2004, D.S. Emond, L.L. Lewis and G.D. Bradshaw (eds.), Yukon Geological Survey, p. 129-146.

MULLER, J.E. 1967. Kluane Lake map-area, Yukon Territory (115G, 115F E ½); Geological Survey of Canada, Memoir 340, 137 p.

YUKON EXPLORATION 1987, p. 254.

YUKON MINING AND EXPLORATION OVERVIEW 1987, p. 13; 1988, p. 12.

Work History		
Date	Work Type	Comment
12/31/1953	Airborne Geophysics	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
		Report on the Geophysical Surveys in the Shakwak Valley Area			

092054	1953	REPORT ON THE GEOPHYSICAL SURVEYS IN THE CHUKWAK VALLEY AREA, Yukon Territory for Canalask Nickel Mines Limited.	Magnetic - Airborne Geophysics		
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