Occurrence Details

Occurrence Number: 105G 073
Occurrence Name: Quandary
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 6/15/2025 11:46:23 AM

General Information

Secondary Commodities: copper, gold, nickel, silver, zinc
Deposit Type(s): Unknown
Location(s): 61°36'5" N - -130°13'11" W
NTS Mapsheet(s): 105G09
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Extensive bulldozer trenching has been carried out on the top of a low mountain. No staking records have been found but the work was probably done soon after the highway was built in 1963-64.
G. Davidson staked the main area as the Aley cl 1-12 (YB56153) in Sept/94. In Aug/95 Davidson staked Aley cl 14-16 (YB71002) at the northwest end of the Aley claim block. Work in 1995 on the Aley claims included line cutting, VLF-EM and magnetic surveys, mapping and rock sampling.
A. McMillan added the Oop cl 1-12 (YB56699) to the northeast side of the Aley claims in Nov/94. Between May and Oct/95 McMillan added Oop cl 13-42 (YB59901) to his claim holdings. In Feb/96 McMillan optioned the claims to Minfocus International Inc which carried out geological mapping, rock and soil sampling, VLF-EM and magnetometer geophysical surveys and drilled 4 diamond drill holes (249.1 m) later in the year.
In Oct/95 Westmin Resources Ltd staked 8 Rope claims (not staked in sequential order, Rope cl 19 = YB69104) northeast of the Aley claims and northwest of the Oop claims.

Capsule Geology

The Finlayson Lake district is dominantly underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks of the Yukon-Tanana Terrane (YTT) that have been intruded by Mississippian granitic intrusions and later Jurassic, Cretaceous and Eocene intrusions (Murphy et al., 2001). The YTT is a volcanic-plutonic pericratonic arc assemblage that was strongly deformed and metamorphosed by Late Triassic time. Volcanic-hosted massive sulphide deposits exist at different stratigraphic positions within the YTT including the Fyre Lake deposit (Minfile Occurrence #105G 034) in the Devonian to lower Mississippian(?) Fire Lake mafic metavolcanic unit, the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Mississippian Kudz Ze Kayah felsic metavolcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the Lower Mississippian Wolverine Succession.
The occurrence is underlain by a sequence of Lower Permian Campbell Range Succession basalt, chert and carbonaceous metaclastic rocks. Unit C?cs (Murphy et al., 2001) is mapped to the north. It consists of variably foliated phyllite, chert, and clastic rocks.
According to W. Hyde the early trenches were dug while pushing a tote road along the ridge top during construction of the Campbell Highway. The trenches exposed ultramafic rocks and quartz carbonate veining which contained nickel mineralization.
On the property, Davidson mapped a package of meta-sedimentary and meta-volcanic rocks intruded by ultramafic sills and the occasional granitic dyke. Quartz carbonate alteration zones occur in metasedimentary rocks and serpentinite around the ultramafic sills. Four samples of quartz carbonate ran from 79-200 ppb Au and 0.3-6.0 ppm Ag. One sample of volcanic breccia returned weakly anomalous Cu and Zn and a sample of peridotite returned 0.2% Ni. The magnetometer survey located strongly magnetic areas over ultramafic sills and magnetic lows coincident with areas of quartz carbonate alteration. The VLF-EM survey located strong conductors at the contacts between ultramafic sills and surrounding volcanic and sedimentary rocks. Several other
VLF-EM conductors appear to mark contacts between volcanic and metasedimentary rocks.
Mapping by Minfocus appears to generally confirm previous work . The company reported two distinct lithologic sequences; a sedimentary and a volcanic sequence, both of which were intruded by leucogabbro and serpentinite ultramafic rocks. Mineralization within the claims consists primarily of finely disseminated sulphides and euhedral pyrite cubes within the volcanic and sedimentary sequences. Chalcopyrite was identified in a quartz vein along with pyrite. White quartz veins with occasional pyrite were found throughout the claims but are most abundant in quartz-sericite schist.
The company collected both reconnaissance and detailed soil samples. The area known as the East grid returned anomalous values for Au, Ag, Cu and Zn. Rock sampling outlined highly anomalous Cu and Zn values in the volcanic sequence. The diamond drilling program tested precious metal anomalies located on the East grid. Comparison of drill logs to Murphy et al. (2001) mapping suggests that all four holes intersected Campbell Range Succession basaltic breccia, followed by chert and then argillite. Only subeconomic precious metal values were obtained from the drill program.

References

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MURPHY, D.C. AND PIERCEY, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 55-66.

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MURPHY, D.C., COLPRON, M., ROOTS, C.F., GORDEY, S.P. AND ABBOTT, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon) , Part 1: Bedrock geology. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

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YUKON EXPLORATION AND GEOLOGY 1996, p. 30

Work History

Date	Work Type	Comment
12/31/1996	Geochemistry	
12/31/1996	Drilling	Four holes, 249.1 m.
12/31/1996	Geology	
12/31/1996	Ground Geophysics	Also VLF_EM survey.
12/31/1995	Geology	
12/31/1995	Ground Geophysics	Also VLF survey.
12/31/1964	Trenching	Date of work uncertain but likely carried out during or after completion of highway in 1963-64.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095781	2011	Soil Geochemical Sampling at the Loop Property	Soil - Geochemistry		
093579	1996	A Summary of Geophysical Surveying Done in 1996 on the OOP Claims Group	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
093556	1996	Report on a Geological Survey on the OOP Group of Claims, Finlayson Lake Area, Watson Lake Mining District, Yukon Territory, Canada	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other	4	249.10
093584	1996	Dighem V Survey for Westmin Resources Limited Wolverine Lake Project Yukon	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093398	1995	Summary Report on the Aley Claims	Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC014033	Geology work sheet on map of McEvoy Creek		Property File Collection	Geoscience Map (General)
ARMC014035	Geology and geochemistry of south part of Sheldon area- McEvoy Creek		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018651	Map of McEvoy Creek 105G/9 with field notations		Property File Collection	Geoscience Map (General)
ARMC018668	Field map of Pelly Mountain area		Property File Collection	Geoscience Map (General)
ARMC014031	Field sheet of McEvoy Creek with field notations		Property File Collection	Geoscience Map (General)
ARMC014034	Field sheet with notations on map of McEvoy Creek		Property File Collection	Geoscience Map (General)