



Occurrence Details

Occurrence Number: 106E 029

Occurrence Name: Ikona

Occurrence Type: Hard-rock

Status: Showing

Date printed: 4/29/2025 4:57:06 AM

General Information

Secondary Commodities: thorium, uranium

Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)

Location(s): 65°12'24" N - -134°28'44" W

NTS Mapsheet(s): 106E01

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Loon cl (YA7060) in Sep/76 by Mountaineer ML, which performed mapping and reconnaissance radiometric surveys, added Wolf cl (YA14133) to the north in Nov/76 and optioned both groups to Pan Ocean OL, which explored with detailed mapping, geochem, radiometric and EM surveys and hand trenching and added 220 additional Loon claims in 1977. The property was further enlarged and explored with hand trenching and 101.5 m of drilling (2 holes) on the Loon 9 claim in 1978 and geochem and geophysical surveys in 1979. Mountaineer changed its name to Can MI Corp in 1979. The Loon claims were transferred from Pan Ocean to Aberford Res L and to Abermin Corp in 1986. Scylla Corp tied on B cl (YA17674) to the west in Feb/78 and performed airborne and ground radiometric surveys and hand trenching in 1978 and 1979. Cream Silver ML held a brief option in 1978.

Capsule Geology

The region is underlain by a metamorphosed and altered sequence of Early Proterozoic Wernecke Supergroup clastic and carbonate rocks (Fairchild Lake Group, Quartet Group and Gillespie Lake Group, from oldest to youngest) that are intruded by Early to Middle Proterozoic mafic sills and dykes, and cut by Middle Proterozoic Wernecke Breccia. According to Thorkelson (2000), Wernecke Breccia development is best modeled as a set of hydrothermal and/or phreatic breccias; brecciation being caused by explosive expansion of volatile-rich fluids. Hunt (2005) attributed Wernecke Breccia formation to periodic over-pressuring of dominantly basinal fluids, which lead to repeated brecciation of host strata and mineral precipitation. Minor brannerite and traces of thorite and uranothorite occur with quartz-feldspar vein swarms in an east trending, bleached, hematitic shear zone 900 m long cutting Early Proterozoic Quartet Group argillite peripheral to a small Wernecke Breccia body. Hand trenching on the shear zone encountered minor secondary uranium mineralization, with assays ranging from 0.095 to 0.48% U3O8. A specimen of float from a 30 by 15 m area assayed 0.73% U3O8.

References

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).

HUNT, J., 2005. The geology and genesis of iron oxide-copper-gold mineralisation associated with Wernecke Breccia, Yukon Canada, PhD thesis, James Cook University, Australia, 2 volumes, 120 p.

MINERAL INDUSTRY REPORT 1977, p. 47; 1978, p. 20.

MOUNTAINEER MINES LTD and PAN OCEAN OIL LTD, Jan/78. Assessment Report *#090286 by R. Yorston et al.

MOUNTAINEER MINES LTD and PAN OCEAN OIL LTD, Feb/79. Assessment Report *#090440 by R.J. Darney et al.

MOUNTAINEER MINES LTD and PAN OCEAN OIL LTD, 1979. Assessment Report *#091310 by M.A. Stammers.

MOUNTAINEER MINES LTD and PAN OCEAN OIL LTD, Jul/80. Assessment Report *#090648 by J.F. Touborg and A.K. Chan.

SCYLLA CORPORATION, Aug/79. Assessment Report #090493 by P.S. White.

THORKELSON, D.J. AND WALLACE, C.A., 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake and Dolores Creek areas, Wernecke Mountains, Yukon (106D/16, 106C/13, 106C/14). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 10, 73 p.

Work History

Date	Work Type	Comment
12/31/1979	Ground Geophysics	
12/31/1978	Ground Geophysics	Also magnetic survey.
12/31/1978	Geology	
12/31/1978	Geochemistry	

12/31/1978	Geochemistry	
12/31/1978	Geochemistry	
12/31/1977	Ground Geophysics	Also EM survey .
12/31/1977	Geology	
12/31/1977	Geochemistry	
12/31/1977	Trenching	
12/31/1976	Ground Geophysics	Reconnaissance scale.
12/31/1976	Geology	Reconnaissance scale.
12/13/1979	Geochemistry	
12/13/1978	Drilling	Two holes, 101.5 m.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095646	2007	2007 Geological, Geochemical and Geophysical Report on the Wernekes Project	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Scintillometer - Ground Geophysics, Prospecting - Other, Backhoe - Trenching, Hand - Trenching, Handblast - Trenching	28	6537.96
094954	2006	Mineral Exploration Report for the Curie Property, North Central, Yukon Territory	Electromagnetic - Airborne Geophysics, Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gravity Survey - Ground Geophysics, Research/Summarize - Pre-existing Data, Backhoe - Trenching		
094956	2006	2006 Geological, Geochemical and Geophysical Report on the Wernekes Project	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other		
062055	1980	Report on Geology an Exploration of the Bonnet Plume Basin Yukon Territory	Diamond - Drilling, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Environmental Assessment/Impact - Studies, Resource Estimate - Studies	53	10700
090440	1978	Summary Report on the Kiwi Lake Holdings in the Fairchild Project Area	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Magnetics - Ground Geophysics, Hand - Trenching, Handblast - Trenching	8	646.18
091310	1978	[Diamond Drill Logs to Accompany Summary Report on the Kiwi Lake Holdings of Mountaineer Pan Ocean Joint Venture]	Diamond - Drilling, Drill Core - Geochemistry	8	646.41