



Occurrence Details

Occurrence Number: 106E 011
Occurrence Name: Yogi
Occurrence Type: Hard-rock
Status: Showing
Date printed: 4/29/2025 2:32:37 AM

General Information

Secondary Commodities: copper, uranium
Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)
Location(s): 65°9'1" N - 134°43'57" W
NTS Mapsheet(s): 106E02
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Yogi cl (Y95277) in Aug/74 by a joint venture between Norcen Energy Res L (Great Plains) & Kerr Addison ML, which carried out mapping and geochemical sampling in 1975. Restaked as Pass cl (YA30273) in May/78 by Ogilvie JV (Chevron Can L & Aquitaine), which explored with mapping, ground and airborne radiometric surveys and soil sampling. The KL 1-196 cl (YB29775) were staked by Archer, Cathro and Associates (1981) Ltd in May/93 over this and three other occurrences, Minfile #s 106E 005, 106E 006 and 106E 031. Kennecott Canada Inc. optioned the property and explored with geological mapping and geochemical sampling in 1993.

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. Cambrian carbonate and siliciclastic rocks lie unconformably to the west. 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. Mineralization of Cu, Co, U and Au in and around the Wernecke Breccia zones has been the focus of mineral exploration in the area. There is a strong connection with age, environment, physical and mineralogical characteristics between Wernecke Breccia and other mineralized breccias like the Olympic Dam deposit in Australia (Thorkelson, 2000).

The Yogi group was staked on a lead-zinc-copper silt anomaly overlying limy argillite of the Early Proterozoic Quartet Group. Soil sampling failed to locate a source. The Pass group was staked to cover brannerite occurrences peripheral to a breccia body. No geochemical anomalies were obtained.

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).

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD, Sep/75. Assessment Report *#090028 by B.D. Farion.

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.

KENNECOTT CANADA INC, May/94. Assessment Report #093197 by R. Hulstein.

MINERAL INDUSTRY REPORT 1975, p. 68-69; 1978, p. 21.

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.

WERNECKE JOINT VENTURE, 1978. Assessment Report *#090418 by A.R. Archer.

Work History

Date	Work Type	Comment
12/31/1978	Geology	
12/31/1978	Airborne Geophysics	
12/31/1978	Geochemistry	
12/31/1978	Other	
12/31/1975	Geology	
12/31/1975	Geochemistry	
12/13/1978	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
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		
095603	2006	Assessment Report Describing Airborne Geophysics and Digital Data Compilation at the Win Property	Magnetic - Airborne Geophysics, Data Compilation - Pre-existing Data		
095590	2005	Prospecting, Scintillometer and Gravity Survey at the Curie Property, Northeastern Yukon Territory	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Gravity Survey - Ground Geophysics, Scintillometer - Ground Geophysics, Prospecting - Other		
093197	1993	Assessment Report on the 1993 Geological and Geochemical Investigation of the Kiwi Property KL 1-196	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
062143	1982	Bonnet Plume 1982 Water Sampling Program	Environmental Assessment/Impact - Studies		
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
090418	1979	Assessment Report on Airborne Radiometric, Geological, Geochemical, and Ground Radiometric Surveys	Gamma-Ray Spectrometry - Airborne Geophysics, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics		
090028	1975	Geological and Geochemical Evaluation of the Yogi Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		