Occurrence Details

Occurrence Number: 106C 068
Occurrence Name: Law
Occurrence Type: Hard-rock
Status: Unknown
Date printed: 12/16/2025 3:19:56 PM

General Information

Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)
Location(s): 64°56'6" N - -133°53'2" W
NTS Mapsheet(s): 106C13
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as the Law cl (YA5595) in Jul/76 by Yukon Revenue Mines Ltd. There is no record of Yukon Revenue Mines ever performing any work on the Law claims.
In Sept/93 Newmont Exploration Ltd conducted an airborne geophysical survey over the area using proprietary company equipment. The following month Pamicon Developments staked Hoop cl 1-36 (YB22920) over the occurrence. In Jan/94 Pamicon transferred 100% interest in the claims to Westmin Resources Ltd, which then formed the Fairchild Joint Venture with Newmont. In the summer of 1994 the joint venture group contracted Pamicon and Equity Engineering Ltd to carry out a preliminary exploration program consisting of geological mapping, prospecting and soil and stream sediment sampling on the claims.

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. To the east, Wernecke Supergroup rocks are unconformably overlain by Middle Proterozoic Pinguicula Group rocks. According to Thorkelson (2000), Wernecke Breccia development is best modeled as a set of hydrothermal and/or phreatic breccias; brecciation being caused by explosive expanson 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.
The Law claims are underlain by Lower Fairchild Lake Group sedimentary rocks. Thorkelson and Wallace (1994) interpreted the rock units to be part of the lower limb of an overturned anticline. They also mapped an east-trending shear zone that crosses a northerly trending ridge near the south-central part of the claim block. Field examination of the shear zone by Pamicon established that the zone is at least 2 km long. Biotite hornfels consisting of interbedded siltstone and fine-grained cross-bedded sandstone were recognized in an area near the centre of the claim block.

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.

PAMICON DEVELOPMENTS LTD, Feb/95. Assessment Report #093269 by H.M Klatt and M.A. Stammers.

THORKELSON, D.J. AND WALLACE, C.A., 1994. Geological Setting of mineral occurrences in Fairchild Lake map area, (106C/13), Wernecke Mountains, Yukon. In: Yukon Exploration and Geology, 1993, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 79-92.

THORKELSON, D.J. AND WALLACE, C.A., 1998. Geological Map of Fairchild Lake area, (106C/13), Wernecke Mountains, Yukon. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Gesocience Map 1998-10, 1:50,000 scale.

THORKELSON, D.J. AND WALLACE, C.A., 2000. Geology and mineral occurrences of the Slats 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
12/31/1994	Geology	
12/31/1994	Geochemistry	
12/31/1994	Geochemistry	
12/31/1994	Other	
12/31/1993	Airborne Geophysics	Also radiometric survey.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095646	2007	2007 Geological, Geochemical and Geophysical Report on the Werneckes 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
094956	2006	2006 Geological, Geochemical and Geophysical Report on the Werneckes Project	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other		
093269	1995	1994 Geological and Geochemical Assessment Report on the Hoop 1-36 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		