



Occurrence Details

Occurrence Number: 106C 097
Occurrence Name: Bel
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 3:20:13 PM

General Information

Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)
Location(s): 64°54'54" N - -133°29'13" W
NTS Mapsheet(s): 106C14
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Thorkelson and Wallace (1995) reported this showing as Minfile Occurrence #106C 096.

Discovered by Thorkelson and Wallace (1995) during a regional mapping program conducted in the mid 1990's. J. Hajek staked the southern showing as Barb cl 9-18 (Yb43566) in Sept/94. In early 1995, Hajek optioned the claims to West Lake Ltd which carried out a trenching and prospecting program later in the summer. In Jul/96 Hajek staked the northern and restaked the southern showing within Bl cl 49-54 (YB65743).

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 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. The occurrence consists of a group of chalcopyrite-malachite showings in fractured and brecciated siltstone of the Fairchild Lake Group, and veined, metasomatized diorite. It was previously identified but not described by Bell (1986a). The showings occur over a 1 x 0.5 km area. The diorite crops out along the banks of two small creeks in exposures up to 0.1 km2 and appears to form the roof of a stock. The diorite hosts veinlets and disseminations of secondary specularite, potassium feldspar, and locally chalcopyrite. The best assay result, 0.8% copper was from a selected hand specimen from a showing in brecciated siltstone located at 4490 feet above sea level, at UTM E 572500, N 7199200.

References

BELL, R.T., 1986a. Geological map of northeastern Wernecke Mountains, Yukon Territory. Geological Survey of Canada, Open File 1207.

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.

THORKELSON, D.J. AND WALLACE, C.A., 1995. Geology and mineral occurrences of the "Dolores Creek" map area (106C/14), Wernecke Mountains, northeastern Yukon. In: Yukon Exploration and Geology, 1994. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 19-30.

THORKELSON, D.J. AND WALLACE, C.A., 1998. Geological map of Dolores Creek map area, Wernecke Mountains, Yukon (106C/14). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada. Geoscience Map 1998-11, scale 1:50 000.

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.

WEST LAKE LTD, Mar/96. Assessment Report #093510 by J.H. Hajek.

Work History

Date	Work Type	Comment
12/31/1995	Trenching	
12/31/1995	Other	
12/31/1994	Geology	Showing discovered during government mapping program.

Assessment Reports that overlap occurrence

Report	Year	Title	Worktype	Holes	Meters
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Number	Year	Title	Work Types	Drilled	Drilled
095634	2007	YUP February Internal Technical Report, Season 2007 Describing Mapping, Prospecting and Diamond Drilling at the Lumina Property	Gamma-Ray Spectrometry - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other	15	4367.20
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
094953	2006	Assessment Report Describing Airborne Geophysics, Mapping, Prospecting and Diamond Drilling	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Drill Core - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	22	2602.89
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		
093510	1995	1995 Assessment Report Glacial Lake Properties	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Backhoe - Trenching		
091456	1983	Exploration, 1982, Gold, Silver and Uranium Deposits, Glacier Lake Region	Rock - Geochemistry, Silt - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Scintillometer - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Hand - Trenching		
019048	1968	Engineering Report, Year 1968 on the Mammoth Copper Property	Air Strip - Development, Surface, Winter Road - Development, Surface, Silt - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Backhoe - Trenching		