



Occurrence Details

Occurrence Number: 106E 024

Occurrence Name: Break

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 4:33:45 PM

General Information

Secondary Commodities: copper, gold

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

Location(s): 65°0'35" N - 134°18'40" W

NTS Mapsheet(s): 106E01

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked in Sep/76 by Mountaineer ML as Break cl (YA7104), which were prospected and optioned to Pan Ocean OL later in the year. The Polaris & Orion cl (YA1673) were staked to the northeast in Feb/76 by Nuspar Res L. Both claim blocks were explored with mapping, radiometric and geochem surveys in 1977 and 1978 and mapping and hand trenching in 1980. Mountaineer changed its name to Can MI Corp in 1979. Pan Ocean's interest were transferred to Aberford Res Ltd in 1981. Westmin Resources Ltd. staked Wolv cl 1-64 (YB44670) 2.5 km to the northeast between May and Jul/95. In Jun/95 one diamond drill hole (271 m) was drilled on claim 19 located 2.5 km northeast of the prospect.

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 west, Cambrian carbonates unconformably overlie the Wernecke Supergroup. 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 claims cover a breccia body which cuts Early Proterozoic Quartet Group argillite and Fairchild Lake Group siltstone, quartzite and dolomite. Chalcopyrite and pyrite occur as disseminations in a quartzite horizon, in the quartz-carbonate veins and locally in massive pods within the Fairchild Lake Group on the Break claim. Two areas of mineralization - the West and East showings - were sampled and returned 0.9% Cu over 1.5 m and 1.8% Cu over 2.3 m, respectively. Some trench samples produced slightly elevated gold assays. Weak uranium geochemical anomalies were reported on the Polaris and Orion groups but no radiometric anomalies or uranium mineralization were discovered.

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. 47-48; 1978, p. 17.
- MOUNTAINEER MINES LTD AND PAN OCEAN OIL LTD, Jan/79. Assessment Report #090423 by C.K. Ikona, D.A. Yeager and R.B. Yorston.
- MOUNTAINEER MINES LTD AND PAN OCEAN OIL LTD, Apr/81. Assessment Report *#090820 by D.L. Dick and D.B. Harmeson.
- NEWMONT EXPLORATION LTD, Nov/95. Assessment Report *#093362 by M.A. Stammers.
- NUSPAR RESOURCES LTD, Dec/76. Assessment Report #090302 by C.K. Ikona and R.B. Yorston.
- NUSPAR RESOURCES LTD, 1976. Assessment Report *#090198 by C.K. Ikona and D.A. Yeager.
- NUSPAR RESOURCES LTD, 1976. Assessment Report *#090201 by C.K. Ikona and D.A. Yeager.
- PAMICON DEVELOPMENTS LTD, 1980. Assessment Report #090588 by C.K. Ikona and D.A. Yeager.
- PAMICON DEVELOPMENTS LTD, Nov/95. Assessment Report #090362 by M.A. Stammers.
- PAN OCEAN OIL LTD, Dec/77. Assessment Report #090290 by C.K. Ikona and D.A. Yeager.
- 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.
- YUKON EXPLORATION AND GEOLOGY 1981, p.197
- YUKON EXPLORATION & GEOLOGY 1995, p. 12, 16.

Work History		
Date	Work Type	Comment
12/31/1995	Drilling	Number of holes drilled: 1 Amount of work done: 271 METRES
12/31/1980	Geology	
12/31/1980	Trenching	
12/31/1980	Trenching	
12/31/1978	Geology	
12/31/1978	Geochemistry	
12/31/1978	Other	
12/31/1978	Other	
12/31/1977	Geochemistry	
12/31/1977	Geology	
12/31/1977	Other	
12/31/1977	Other	
12/31/1976	Other	

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		
090588	1980	Preliminary Geological Report on the Rad 1-24, Break 1-32 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology		
090820	1980	Assessment Report on the Rad 1-24 and Break 1-32 Mineral Claim Group	Rock - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Hand - Trenching, Handblast - Trenching, Mechanical - Trenching		
090423	1979	Preliminary Geological Report on the Rad 1-24, Break 1-32 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology		
090290	1977	Preliminary Geological Report on the Break 1-32 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
090287	1977	Preliminary Geological Report on the Rad 1-24 Mineral Claims	Rock - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology		