



Occurrence Details

Occurrence Number: 106E 005

Occurrence Name: Gremlin

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 4:53:53 AM

General Information

Secondary Commodities: cobalt, copper, lead, silver, zinc

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

Location(s): 65°11'7" N - -134°38'5" W

NTS Mapsheet(s): 106E02

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Gremlin cl (YA1144) in Aug/75 by Cyprus Anvil Mg Corp, which carried out mapping, soil and rock sampling later in 1975 and 1976. Restaked as Demon cl (YA76484) in Jan/82 by Wernecke JV (Chevron Can & Kidd Creek ML), which performed mapping and sampling later in the year. Scylla Corp tied on A cl (YA17618) to the south in Feb/78 and performed airborne and ground radiometric surveys in 1978 and 1979. Cream Silver ML held a brief option in 1978. 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 006, 106E 011 and 106E 031. Kennecott Canada Inc. optioned the property and performed a program of geological mapping and geochemical sampling on the KL cl in 1993. In March/94 Westmin Resources Ltd. staked the Anthea cl 1-6 (YB42738) on northeast boundary of KL claims. In July/94 and Sept./94, the company added to the claims by staking Anthea cl 7-24 (YB3114) and Anthea cl 25-30 (YB43166). Pamicon drilled 1 hole (197 m) on Anthea cl 4 (YB42741) in Sep/94. The following March, Westmin added Anthea cl 31-70 (YB43939). In summer of 1995 Westmin drilled 5 diamond drill holes in and around 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. 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 are underlain by Early Proterozoic Quartet Group limy phyllite. Chalcopyrite and pyrite occur with minor cobaltite in siderite and quartz gangue within two flat-lying limy horizons about 1 m apart that are exposed for a length of 300 m in a creek canyon. The horizons are faulted off in the downstream (east) direction and terminate in a breccia stockwork zone upstream. The thickness of individual zones varies from 1 to over 10 m.

Chip samples assayed up to 1.3% Cu across 7 m and one grab sample assayed 0.09% Co. Chip samples from the stockwork returned assays up to 0.6% Cu with low Co, Ag, Pb and Zn values.

In 1995 drill logs for 5 diamond drill holes representing 851 m were filed for the Anthea claim block to the north.

References

CYPRUS ANVIL MINING CORPORATION, 1975. Assessment Report *#090052 by P. Dean.

CYPRUS ANVIL MINES LTD, Oct/76. Assessment Report #090162 by P. Dean.

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.

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

MINERAL INDUSTRY REPORT 1975 p. 69-70; 1976, p. 132-133.

MORIN, J.A., 7 Dec/76. Uranium Copper Mineralization and Associated Breccia Bodies in the Wind-Bonnet Plume River Area, Yukon. Talk presented at Whitehorse Geoscience Forum.

PAMICON DEVELOPMENTS LTD, Nov/94. Assessment Report #093225 by D.A. Caulfield.

PAMICON DEVELOPMENTS LTD, Oct/95. Assessment Report #093439 by M.A. Stammers.

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.

WERNECKE JOINT VENTURE, Feb/83. Assessment Report *#091436 by W.D. Eaton.

YUKON EXPLORATION AND GEOLOGY 1982, p. 183-184; 1995, p. 12, 16.

Work History		
Date	Work Type	Comment
12/31/1995	Drilling	Five holes, 851 m. No data released for public consumption.
12/31/1994	Drilling	One hole, 197 m. Drilling carried out on Anthea claim # 4. Results confidential.
12/31/1993	Geochemistry	Also soil sampling.
12/31/1993	Geology	
12/31/1982	Geochemistry	
12/31/1982	Geology	
12/31/1978	Airborne Geophysics	
12/31/1976	Geology	
12/31/1976	Geochemistry	
12/31/1976	Geochemistry	
12/31/1975	Geochemistry	
12/13/1978	Ground Geophysics	

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
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		
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		
093439	1995	Assessment on Diamond Drilling on the Anthea 1-66 Mineral Claims	Diamond - Drilling	5	850.40
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		
091436	1982	Geological and Geochemical Report Demon 1-8 Claims	Rock - Geochemistry, Bedrock Mapping - Geology		
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
090493	1979	Geological, Geophysical and Physical Work Report for Representation on A 1-56 (YA 17618-17673) Claim Group and B 1-38 (YA 17674-17711) Claim Group	Gamma-Ray Spectrometry - Airborne Geophysics, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Backhoe - Trenching, Handblast - Trenching		
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
090162	1976	1976 Exploration Report Gremlin Mineral Claim Group	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
090052	1975	1975 Exploration Report Gremlin Mineral Claim Group	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		

Related References				
Number	Title	Page(s)	Reference Type	Document Type
ARMC008093	Gremlin claim group preliminary recy map - Plume River		Property File Collection	Geoscience Map (General)
ARMC018615	Field notes - Reef - Gremlin claims		Property File Collection	Miscellaneous Company Documents
ARMC018618	Field notes - Reef project - Gremlin claim area		Property File Collection	Miscellaneous Company Documents
ARMC018628	Field notes - RG6T-1 to RY6T-281 - Gremlin claims		Property File Collection	Miscellaneous Company Documents

ARMC019518	Field notes - RY5L, RY5F, RY5P - Books 2, 3 - Vug claims, Quak claims, Newt claims	Property File Collection	Miscellaneous Company Documents
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