



Occurrence Details

Occurrence Number: 106D 074

Occurrence Name: Cord

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 12/16/2025 3:20:48 PM

General Information

Secondary Commodities: copper, lead, silver, zinc

Deposit Type(s): Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)

Location(s): 64°51'34" N - -134°0'27" W

NTS Mapsheet(s): 106D16

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Cord cl 1-72 (Y97639) in Jul/75 by Rio Tinto Canada Exploration Ltd, which performed mapping and sampling in 1976, hand trenching and an EM survey in 1980, and MaxMin and magnetic surveys plus 366 m of diamond drilling in 4 holes in 1981. The company staked Overburden cl 1-4 (YA64040) in Aug/81, on the southeastern corner of the claim block to cover the extension of prospective geological units identified in the drilling program.

Restaked as Cor cl 1-8 (YB03260) in Sep/89 by NDU Resources Ltd. No assessment work appears to have been carried out on these claims.

Restaked as Cord 1-40 (YB22287) and cl 41-170 (YB22351) in Jul/93 by Archer, Cathro and Associates (1981) Ltd. The claims extended to the east onto adjacent map sheet 106C/13. Kennecott Canada Inc optioned the property and conducted geological mapping and soil and rock geochemical sampling in 1993. In 1994 the claims were transferred to Nordac Resources Ltd. In Jun/95 Nordac optioned Cord cl 1-170 (YB22287) to Cominco Ltd. The following month Cominco carried out a exploration program consisting of geological mapping, geophysical surveys and silt and rock sampling. Cominco dropped the option in Jan/96 and returned the claims to Nordac.

Capsule Geology

The occurrence area is located approximately 12 km northeast of the Bear River airstrip, near the eastern headwaters of the eastern branch of an unnamed creek flowing northwards to the Bonnet Plume River. L.H. Green of the Geological Survey of Canada mapped the area at 1:250 000 scale in 1961 as part of a helicopter-supported party known as "Operation Ogilvie". D. Thorkelson (2000) a geologist with the Canada/Yukon Geoscience Office (now part of the Yukon Geological Survey), remapped topographic map sheet 106D/16 in the 1990's as part of a larger bulletin on the Wernecke Mountains. Gordey and Makepeace of the Geological Survey of Canada, released an updated geological compilation of the Yukon in 2003.

The occurrence consists of pyrite, minor galena and sphalerite mineralization in narrow stratiform horizons in dolomitic siltstone and in closely spaced veins within the basal facies of the Lower Proterozoic Gillespie Lake Group. A chip sample collected in 1977 assayed 1.2% zinc and 1.0% lead across 2.1 m. Diamond drilling in 1981 returned 0.6% zinc, 0.5% lead and 3.8 g/t silver over 2.0 m. Lead isotope data produced a Middle Proterozoic model age of 1.50 ± 0.05 Ga.

Mineralization has been identified in two separate stragragpic sequences, the Main Zone and the Lower Zone. The Main Zone consists primarily of a siderite bed with minor chert and thin magnetite and tuffaceous interbeds. Stratiform galena and sphalerite are found with variable amounts of pyrite within the Main zone. Mineralization in the Lower Zone consists of locally massive pyrite in black carbonaceous shales and a thin chloritic schist unit.

Cominco carried out HLEM, total field magnetics and gravity surveys on the claims in hope that the surveys, gravity in particular, might identify a drill target. Topography made interpretation of the gravity data difficult and would likely overwhelm any response to a buried deposit. The magnetic survey appeared to outline sideritic dolomite associated with mineralized black mudstone and locally developed magnetite Fe-formation. The HLEM survey located conductors which roughly correlated with gravity and magnetic anomalies. The rock and silt analyses were not interpreted by Cominco.

References

COMINCO LTD, May/96. Assessment Report #093460 by P.A. MacRobbie.

ECONOMIC GEOLOGY Jan/82, p. 675-690.

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).

GREEN, L.H. 1972. Geology of Nash Creek, Larsen Creek and Dawson Map-Areas, Yukon Territory. Geological Survey of Canada, Memoir 364.

KENNECOTT CANADA INC., Mar/94. Assessment Report #093195 by R. Hulstein.

MINERAL INDUSTRY REPORT 1976, p.123; 1977, p. 39-40.

RIO TINTO CANADIAN EXPLORATION LTD, Nov/76. Assessment Report #090144 by A.G. Troup and H.W. Marsh

RIO TINTO CANADIAN EXPLORATION LTD, Feb/78. Assessment Report #090303 by J.L. Hardy and H.W. Marsh.

RIO TINTO CANADIAN EXPLORATION LTD, Feb/81. Assessment Report #090759 by C. Campbell and J. McClintock.

RIOCANEX INC, Dec/81. Assessment Report #090996 by J.L. Hardy and C. Campbell.

THORKELSON, D.J., AND WALLACE, C.A., 1993a. Development of Wernecke Breccia in Slat Creek (106D/16) map area, Wernecke Mountains, Yukon. In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 77-87.

THORKELSON, D.J. AND WALLACE, C.A., 1993b. Geological map of Slat Creek (106D/16) map area, Wernecke Mountains, Yukon. In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, 1:50 000 scale. (Out of Print)

THORKELSON, D.J. AND WALLACE, C.A., 1994. Geological map of Fairchild Lake map area, (106C/13), Wernecke Mountains, Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1994-6 (G). (Out of Print)

THORKELSON, D.J. AND WALLACE, C.A., 1998. Geological Map of Slat Creek map area, Wernecke Mountains, Yukon (106D/16). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Geoscience Map 1998-9, 1:50,000 scale.

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

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. 196.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 241.

Work History

Date	Work Type	Comment
12/31/1995	Geochemistry	
12/31/1995	Geology	
12/31/1995	Geochemistry	
12/31/1995	Ground Geophysics	Also HLEM survey.
12/31/1993	Geochemistry	
12/31/1993	Geology	
12/31/1993	Geochemistry	
12/31/1981	Drilling	Four holes, 365.7 m.
12/31/1981	Ground Geophysics	MaxMin survey.
12/31/1980	Ground Geophysics	
12/31/1980	Trenching	
12/31/1977	Geology	
12/31/1977	Geochemistry	Talus sampling.
12/31/1977	Other	
12/31/1976	Geology	
12/31/1976	Geochemistry	
12/31/1976	Geochemistry	

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		
093460	1995	1995 Assessment Report of the Cord Property	Rock - Geochemistry, Silt - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
093195	1994	Assessment Report on the 1993 Geological and Geochemical Investigation of the Cord Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
090996	1981	Cord Group (Snakehead Property), Geophysics and Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry, EM - Ground Geophysics	4	365.70
090759	1980	Cord Claims, Geology and Geophysics 1980	Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
090868	1980	Exploration Report-Year 1980 on the Bear River Properties	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Prospecting - Other, Hand - Trenching, Handblast - Trenching		
090777	1977	Snakehead Property, Wernecke Mountains, Geology and	Rock - Geochemistry, Bedrock Mapping - Geology		

090144	1976	Geochemistry	Rock - Geochemistry, Bedrock Mapping - Geology		
090144	1976	Snakehead Property, Wernecke Mountains, Geology and Geochemistry	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Prospecting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007821	Map - Reef Project		Property File Collection	Geochemical Map