



Occurrence Details

Occurrence Number: 106D 048
Occurrence Name: New Jersey
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 4:50:25 PM

General Information

Secondary Commodities: copper
Deposit Type(s): Vein Cu+/-Ag Quartz
Location(s): 64°47'31" N - -134°15'16" W
NTS Mapsheet(s): 106D16
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Reported by the Geological Survey of Canada and staked as Pad cl 1-16 (Y4707) in May/68 by New Jersey Zinc Exploration (Company) Ltd, which prospected later in the year.

Capsule Geology

The occurrence is located on an unnamed creek situated on the southwest branch of the Bear River, approximately 2.5 km south of the Bear River airstrip. The area was regionally mapped by L. Green (1972) of the Geological Survey of Canada 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. During the course of field work relating to mass-wasting effects in selected areas of the Ogilvie and Wernecke Mountains, J.T. Gray of the Geological Survey of Canada noted chalcopryrite, azurite and malachite mineralization on joint surfaces at a single site at this occurrence location. According to Thorkelson the area is underlain by argillite of the Lower Proterozoic Quartet Group, and orange dolomite of the Lower Proterozoic Gillespie Lake Group. Both units are members of the larger Wernecke Supergroup. No exploration results can be found related to the prospecting program carried out by New Jersey Zinc.

References

GEOLOGICAL SURVEY OF CANADA Paper 68-68, p. 16.

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.

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

THORKELSON, D.J., 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake, and "Dolores Creek" areas, Wernecke Mountains (106D/16, 106C/13, 106C 14), Yukon Territory. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 10, 73 p.

Work History

Date	Work Type	Comment
12/31/1968	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 Wernecke 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
		2006 Geological, Geochemical and Geophysical Report on the	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil		

094956	2006	2006 Geological, Geochemical and Geophysical Report on the Werneckes Project	- Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - 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		