



Occurrence Details

Occurrence Number: 106C 003
Occurrence Name: Gillespie
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 3:54:56 AM

General Information

Secondary Commodities: lead, zinc
Deposit Type(s): Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)
Location(s): 64°51'27" N - -133°44'27" W
NTS Mapsheet(s): 106C13
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

G. Van Bibber staked the Bob cl (Y33300) in March/70 about 2.4 km to the southwest. First staked as Ale cl (YA1157) in Aug/75 by Cyprus Anvil Mining Corporation Ltd, which conducted mapping and geochem sampling later in the year.

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. Mineralization consists of pyrite, galena and sphalerite in open-space fillings in brecciated Gillespie Lake dolostone. Soil samples contained up to 3.0% Zn and 0.7% Pb. The showings occur over a strike length of 488 m and are on trend with, and resemble, similar showings at the Geordie occurrence (Minfile Occurrence #106C 004) on the east side of the Bonnet Plume River. New mapping by Thorkelson (2000) revealed a small Wernecke Breccia body near the occurrence. The Bob group was staked near a narrow Proterozoic(?) diorite dike that cuts the dolostone.

References

CYPRUS ANVIL MINING CORPORATION, Oct/75. Assessment Report #090053 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).

MINERAL INDUSTRY REPORT 1975, p. 56.

THORKELSON, D.J. AND WALLACE, C.A., 1994. Geological Setting of mineral occurrences in Fairchild Lake map area, (106C/13), Wernecke Mountains, Yukon. In: Yukon Exploration and Geology, 1993, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 79-92.

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.

Work History

Date	Work Type	Comment
12/31/1975	Geology	
12/31/1975	Other	
12/31/1975	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 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
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		

090053	1975	1975 Exploration Report Ale Mineral Claim Group	Soil - Geochemistry, Prospecting - Other		
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