Occurrence Details

Occurrence Number: 106D 053
Occurrence Name: Slats
Occurrence Type: Hard-rock
Status: Showing
Date printed: 4/29/2025 4:17:09 PM

General Information

Secondary Commodities: copper
Deposit Type(s): Vein Cu+/-Ag Quartz
Location(s): 64°58'24" N - -134°20'53" W
NTS Mapsheet(s): 106D16
Location Comments: 1 Kilometres
Hand Samples Available: Yes
Last Reviewed:

Capsule

Work History

Staked as Go cl 1-30 (Y32910) in Aug/69 by Yucan Silver Mines Ltd. Restaked within BL cl 1-24 (YC43214) in Apr/2006 by Fronteer Development Group Inc. The occurrence lies near the eastern boundary of the claim block and was likely not the target of the claim staking.

Capsule Geology

The occurrence is located on the east side of a western branch of upper Slats creek in the Wernecke Mountains of east central Yukon. The town of Mayo is located approximately 175 kms to the southwest. 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.
According to Thorkelson the occurrence area is underlain by siltstone, dolomitic siltstone and dolostone of the Lower Proterozoic Upper Fairchild Lake Group, the lowermost member of the Lower Proterozoic Wernecke Supergroup. A large, narrow northly trending body of Middle Proterozoic Wernecke Breccia intrudes to the south and west. Although no records can be found regarding any exploration work carried out by Yucan Silver Mines, the Northern Cordillera Mineral Industry 1972 database, a predecessor to the Yukon Minfile database repored that the occurrence consists of traces of chalcopyrite in quartz-siderite veinlets cutting limy siltstone of the Upper Fairchild Lake Group. Regionally, Wernecke Breccias were explored for copper and uranium mineralization from the late 1960's through to the early 1980's. The quartz-siderite veins are probably related to the Wernecke breccia body to the south and it is quite likely that the occurrence is located further to the southwest near the margin of the breccia body.

References

FRONTEER DEVELOPMENT GROUP INCORPORATED AND RIMFIRE MINERALS CORPORATION, Apr/2007. Assessment Report #094956 by R.S. Hefferman, R. Black, H. Awmack and D. Baker.

FRONTEER DEVELOPMENT GROUP INC. News Releases, 19 May/2006, 10 Jul/2006.

FRONTEER DEVELOPMENT GROUP INC. March/2009. Web Site: www.fronteergroup.com. (contains 2007 Wernecke Exploration report).

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, p. 143.

NORTHERN CORDILLERAN MINERAL INDUSTRY 1972. A predecessor database to the Yukon Minfile Database.

THORKELSON, D.J., AND WALLACE, C.A., 1993a. Development of Wernecke Breccia in Slats 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., 1998. Geological Map of Slats 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., 2000. Geology and mineral occurrences of the Slats 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, 73p.

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	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground		

094936	2000	Werneckes Project	- Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other		
093262	1994	Geological and Geochemical Assessment Report on the Slats 1-132 Claims	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other		
090969	1981	Geological, Geochemical and Geophysical Report on the Pike Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Hand - Trenching		