



Occurrence Details

Occurrence Number: 105C 062
Occurrence Name: Caribou Creek
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 6/16/2025 1:52:27 PM

General Information

Secondary Commodities: copper, gold, lead, silver, zinc
Deposit Type(s): Volcanogenic Sulphide - type not determined
Location(s): 60°15'44" N - -132°3'8" W
NTS Mapsheet(s): 105C08
Location Comments: .5 Kilometres
Hand Samples Available: Yes
Last Reviewed:

Capsule

Work History

Staked as CC cl 1-30 (YB89112) in Apr/97 by Fairfield Minerals Ltd, which carried out geochemical sampling and flew an airborne geophysical survey over the claims, before adding CC cl 31-44 (YB89977) in Sep/97. A ground IP geophysical survey was carried out in the fall of 1997 to test the subsurface extent of alteration and mineralization discovered in the main gossan area. In 1998, Fairfield carried out soil sampling and prospecting and staked CC cl 45-54 (YB91616) in Sep/98. The claims were optioned to Brett Resources Inc in 1999, which carried out geological mapping that year.

Capsule Geology

The area is located in the southeastern portion of the Teslin (105C) topographic map sheet. Geologists employed by the Ancient Pacific Margin NATMAP project; a projected jointly funded by the Geological Survey of Canada, the British Columbia Geological Survey and the Yukon Geology Program, are presently re-mapping the area, including the rocks in the occurrence area. Exploration interest in the region has recently risen as most of the rocks appear similar in age (Devonian & Mississippian) and lithology to those hosting volcanogenic massive sulphide mineralization in the Finlayson Lake district.

The occurrence is located between the Big Salmon Complex to the west and the Cassiar Platform to the east and is underlain by a succession of mafic to intermediate volcanic and epiclastic rocks assigned to the Klinkit Succession. Recent age dating by Mortensen and Gabites (2002) has resulted in a Pennsylvanian age date for the Klinkit Succession. The Klinkit Succession rocks interfinger with and overlie the Screw Creek limestone and is unconformably overlain by Late Triassic, thin-bedded clastic rocks containing minor chert and limestone belonging to the Teh Formation. Mid-Cretaceous age plutons commonly intrude the sequence. Roots and et al., have recently assigned the Klinkit Succession to the Yukon-Tanana Terrane.

Prospecting identified several areas where gossanous schist layers were found. Follow-up soil sampling identified 2 main multi-element soil anomalies centred over the Discovery and the Claim Post showings. The Discovery showing (this occurrence) is a Cu, Pb and Zn anomaly nearly 1 km long and several hundred metres wide. Ag is slightly elevated and coincident with the base metals. Blast trenching in 1998 outlined at least 2 distinct rusty pyritic, quartz-sericite schist horizons that trend northeast parallel to foliation. Chip and grab samples were not anomalous in base metals.

The Claim post showing (located 1.5 km to the north) consists of anomalous Au values and spotty Cu, Pb and Zn values. Trenching exposed at least three similar horizons, none of which measured more than a few metres thick. Samples taken from blast trenches returned up to 338 ppb Au, 4 ppm Ag, 761 ppm Cu, 96 ppm Pb and 96 ppm Zn. The showing appears to trend in the same direction as the Discovery showing but appears to lie stratigraphically above it. The geophysical programs did not return any significant anomalies.

References

BRETT RESOURCES INC, 1999. Assessment Report #094032 by G.D. Bradshaw.

FAIRFIELD MINERALS LTD, Jun/98. Assessment Report #093842 by D.H Ritcey and E.A. Balon.

FAIRFIELD MINERALS LTD, Jun/99. Assessment Report #094007 by W.J. Jakubowski and E.A. Balon.

MORTENSEN, J.K., AND GABITES, J.E., 2002. Lead isotopic constraints on the metallogeny of southern Wolf Lake, southeastern Teslin and northern Jennings River map areas, Yukon and British Columbia: Preliminary results. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 179-188.

NELSON, J.L., ET AL., 2000. Ancient Pacific Margin: A preliminary comparison of potential VMS-hosting successions of the Yukon-Tanana Terrane, from Finlayson Lake district to Northern British Columbia. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 79-86.

ROOTS, C.F., ET AL., 2000: Revision mapping of the Yukon-Tanana and equivalent terranes in northern British Columbia and southern Yukon Territory between 1310 and 1320W; Geological Survey of Canada, Current Research 2000-A4, 10p.

YUKON EXPLORATION AND GEOLOGY 1997, p. 20; 1998, p. 20; 1999, p. 22.

Work History

Date	Work Type	Comment
12/31/1999	Geology	
12/31/1998	Geochemistry	

12/31/1998	Other	
12/31/1997	Geochemistry	Also rock samples.
12/31/1997	Airborne Geophysics	
12/13/1997	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097271	2018	2018 Assessment Report: Airborne VTEM and Magnetic Survey, McCleery Property	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics		
095105	2008	Assessment Report Describing Airborne VTEM and Magnetometer Surveys at the Caribou Creek Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
094032	1999	Report on Geological and Geochemical Surveys on the Caribou Creek Property	Rock - Geochemistry, Bedrock Mapping - Geology		
094007	1998	1998 Geochemical Report on the Caribou Creek Property (CC 1-54 claims)	Rock - Geochemistry, Soil - Geochemistry		
093842	1997	Geological, Geochemical and Geophysical Report on the Caribou Creek Property (CC 1-44 Claims)	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
MOR-07-03	Mor	2007	NTW	28	2