Occurrence Details

Occurrence Number: 106C 098
Occurrence Name: Tanner
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 6/14/2025 4:56:18 PM

General Information

Secondary Commodities: barite, gold, zinc
Deposit Type(s): Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)
Location(s): 64°3'14" N - -133°16'18" W
NTS Mapsheet(s): 106C03
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Tanner cl 1-8 (C02343) in Aug/2000 by A. Bordeleau who carried out limited geological mapping, rock sampling and hand trenching. In Jul/2001 Bordeleau optioned the claims to Manson Creek Resources Ltd which added Tanner cl 9-44 (YC02790) and carried out airborne magnetic, electromagnetic and radiometric surveys over the claim block. In 2002 Manson Creek carried out a ground magnetic and electromagnetic geophysical survey the results of which were used to locate and drill 2 diamond drill holes (306 m).

Capsule Geology

The area lies in the northeast portion of the Selwyn Basin, near its boundary with the Mackenzie Platform. The basin contains a broad package of Late Proterozoic through Triassic sediments deposited outboard of the stable continental margin of ancestral North America. The area was last mapped regionally by S.L. Blusson in 1974 however Gordey et al., (2003) recently produced a geological compilation of the Yukon which included this area.
The occurrence is located on the boundary between Upper Proterozoic to Cambrian Hyland Group rocks to the north and Ordovician to Lower Devonian Road River and Devonian to Mississippian Earn Group rocks to the south. The Dawson Thrust is located to the north and is the major structural feature in the area.
Although Manson Creek Resources has carried out geological mapping and sampling on the Tanner claims, little of the data has been released. The airborne geophysical survey outlined a 100 to 400 m wide conductive zone striking at 122 degrees across the length of the original eight Tanner claims. This conductor is coincident with a very weak linear magnetic low. The ground geophysical survey was carried out run to accurately locate the conductor on the ground and thus help determine the optimum location for drill testing the target.
The first hole tested the conductor within 100 metres of gossanous seeps originating from shale stratigraphy. It intersected a sequence of grey to black graphitic shales characterized by abundant millimetre to centimetre scale massive pyrite laminaes which locally grade into semi-massive sulphide intersections over a few metres. A coarse conformable polymictic synsedimentary breccia unit was found to underlain the shales in both drill holes. Drilling was stopped within this unit in the first hole. The second hole which was collared 750 m to the south east intersected the same units as the first and continued through the breccia unit which was found to be underlain by further black, locally graphitic shales and a thick section of bedded laminated barite with minor pyrite. The bedded barite exceeded 20 m (down hole) in length and returned an average assay of 26.9 % barium oxide (BaO).
Manson Creek did not determine stratigraphic relationships however it appears the company encountered Hyland Group rocks in the top half of the hole and Earn Group rocks towards the bottom of both holes. The lack of calcareous units suggests that the holes did not intersect any Road River rocks or that Road River rocks were indistinguishable from the Hyland Group rocks. The existence of a thick bedded barite unit suggests Earn Group as bedded barite commonly occurs within the unit elsewhere within the Selwyn Basin. Although no economic mineralization was encountered, trace element results suggest the presence of a possible sedimentary exhalative (SEDEX) mineralizing system.

References

GEOLOGICAL SURVEY OF CANADA, 1974. Open File 205 by S.L. Blusson.

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).

MANSON CREEK RESOURCES LTD, Jan/2002. Assessment Report #094298 by R Chernish.

MANSON CREEK RESOURCES LTD, Jan/2003. Assessment Report #094360 by J.P. Jutras.

MANSON CREEK RESOURCES LTD, May/2004. Web Site: www.manson.ca.

YUKON EXPLORATION AND GEOLOGY 2001, p. 11-12, 24; 2002, p. 19, 25-26.

Work History

Date	Work Type	Comment
12/31/2002	Drilling	Two holes, 306 m.
12/31/2002	Ground Geophysics	Also magnetic survey.
12/31/2001	Airborne Geophysics	Also magnetic and radiometric surveys.
12/31/2000	Geochemistry	
12/31/2000	Geology	

12/31/2000	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096727	2013	Assessment Report Describing Prospecting and Geochemical Sampling at the Stag Project	Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other		
095906	2011	Assessment Report Describing Geochemical Sampling, Geological Mapping and Diamond Drilling	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other	12	3168.33
094360	2002	Assessment Report of the Tanner 1-8 Claims	Diamond - Drilling, Magnetics - Ground Geophysics	2	306
094298	2001	Geophysical Report for Work Completed on July 16, 2001, Tanner Claims	Electromagnetic - Airborne Geophysics, Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
BROCK000204	Geochemical results - Cu, Pb, Zn, Ba - Silt, soil, rock - 106-C-3		Property File Collection	Geochemical Map