Occurrence Details

Occurrence Number: 105N 032
Occurrence Name: End Of The
Occurrence Type: Hard-rock
Status: Showing
Date printed: 8/6/2025 8:02:39 AM

General Information

Secondary Commodities: gold
Aliases: Rainbow
Deposit Type(s): Plutonic Related Au
Location(s): 63°37'22" N - -133°39'20" W
NTS Mapsheet(s): 105N12
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

The first mention of gold in this area is by Keele (1906), who carried out of a reconnaissance survey of the Stewart River in 1905. The area surrounding this occurrence was later mapped and described by Roots (1997) of the Geological Survey of Canada during the course of regional geological mapping of the Lansing map area.
Staked as End of The cl 1-6 (YC01843) in Jul/99 by R. Berdahl, following prospecting and geochemical rock, silt and soil sampling carried out earlier in the year. In 2000, Berdahl carried out further prospecting and geochemical rock and soil sampling and staked Terry Sue cl 1-8 (YC32209) contiguously to the southwest in Aug/2000.
In 2004, Berdahl completed a small soil grid program.
In 2012, 18526 Yukon Inc. completed a 182 sample soil grid over Rainbow Creek and the anomalous areas defined in 2004. They also conducted a property-wide stream sediment sampling program. In 2015 there was a single day of prospecting completed.
in 2016 a ground magnetometer survey was conducted along with mapping by Bill Mann.
in 2021, UAV photogrammetry was completed to produce a high-resolution orthophoto imagery and digital surface model.
In 2022, Snowline Gold Corp conducted an airborne magnetic and radiometric survey over the entire claim block, staked additional claims, and completed detailed bedrock mapping and soil, humus and rock sampling.

Capsule Geology

The occurrence lies just north of the overburden covered trace of the Robert Service Thrust which trends northwest across the area, roughly parallel to and on the opposite side of the locally named `Rainbow Creek¿. Green, grey and brown interlaminated siltstone and fine sandstone of the Permian Mount Christie Formation, occur at the west end and atop a prominent orange weathering rock cliff which faces south into the creek. These rocks are commonly silicified and in several places are deeply oxidized and clay-altered. Black mudstone and lesser brown phyllite of what was originally thought to be Earn Group, but is now interpreted to be Triassic aged Jones Lake Formation, occurs in the footwall of the Robert Service Thrust on the southwest side of the creek.
A reticulate pattern of vertical and horizontally oriented dykes, up to 30 m wide, have been noted on the cliff face. Composed of medium grained muscovite granite containing up to 1% interstitial sulfide blebs, these dykes likely represent the surface expression of a poorly exposed intrusive body of the mid-Cretaceous aged Selwyn Suite that underlies the claims and may be up to 1 300 m long. Pyrite, pyrrhotite and arsenopyrite occurring with quartz and in massive form can be readily found as float in Rainbow Creek and locally as disseminations in quartz veined and altered sediments. A float sample of massive pyrrhotite returned 3 112 ppm Au and 2 800 ppm Bi (sample R-19), while a grab sample described as `pyrite from a 1 m wide fault gouge zone¿ returned 4 117 ppb Au (sample R-25). In 2000, another grab sample across 1m of sericite-altered phyllite containing abundant quartz veining which was collected from the same area as sample R-25, returned 190 ppb Au, 5 380 ppm As and 22 ppm Bi.

References

BERDAHL, R.S., Jan/2002. Assessment Report #094372 by R.S. Berdahl.

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).

KEELE, J., 1906. A Reconnsiassnace Survey of the Stewart River. In: Summary Report of the Geological Survey of Canada for the Calender Year 2005. Sessional Paper No. 26, p. 32-36.

ROOTS, C.F., 1997. Upper Paleozoic strata with potential for massive sulphide mineralization, northwestern Lansing map area (105N), Yukon. In: Yukon Exploration and Geology, 1996, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 138-146.

ROOTS, C.F., 2003. Bedrock geology of Lansing Range map area (NTS 105N), central Yukon (1:250 000 scale). Yukon Geological Survey, Energy Mines and Resources, Government of Yukon, Geoscience Map 2003-1; and Geological Survey of Canada, Open File 1616.

ROOTS, C., and BRENT, D., 1994. Preliminary Stratigraphy from Lansing map area, Yukon Territory. In: Current Research 1994-1A, Geological Survey of Canada, Paper A-15.

Work History

Date	Work Type	Comment
4/1/2022	Geochemistry	
4/1/2022	Airborne Geophysics	
4/1/2022	Geochemistry	
4/1/2022	Airborne Geophysics	

4/1/2022	Geology	
4/1/2021	Airphotography	
4/1/2021	Remote Sensing	
4/1/2016	Ground Geophysics	
4/1/2015	Geochemistry	
4/1/2012	Geochemistry	
4/1/2012	Geochemistry	
4/1/2004	Geochemistry	
12/31/2000	Geochemistry	
12/31/2000	Geochemistry	
12/31/2000	Other	
12/31/1999	Geochemistry	
12/31/1999	Geochemistry	
12/31/1999	Other	
12/31/1996	Geology	Regional scale mapping of Lansing Map area.
12/31/1905	Geology	Reconnaissance survey of Stewart River is carried out.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094704	2004	End Of The"" Claim Group	Soil - Geochemistry, Prospecting - Other		
094372	2000	"End Of The" Claim Group, Prospecting Report	Rock - Geochemistry, Soil - Geochemistry		
019033	1968	Atlas Explorations Limited Project Report 1968 Hess River Area	Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology		
018947	1967	Hess River Project Report	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
019032	1967	Hess River Project Report	Data Compilation - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016493	Geological overlay map - 105N/12		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016494	Geochemical overlay map - 105N/12		Property File Collection	Geochemical Map
ARMC018127	Set of two field sheets - 105N/12		Property File Collection	Geochemical Map