Occurrence Details

Occurrence Number: 105A 048
Occurrence Name: Itch
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 4/29/2025 5:50:07 PM

General Information

Deposit Type(s): Unknown
Location(s): 60°57'54" N - -129°45'24" W
NTS Mapsheet(s): 105A13
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

In Jul/94 Cominco Ltd staked Itch cl 1-84 (YB50105) 1 km to the southwest to cover airborne geophysical targets identified during a regional geophysical program flown in 1994. The company also staked Sel cl 1-17 (YB50088) 4.5 km to the southwest (on the northwest end of Hasselberg Lake) at the same time. The following month the company carried out regional geological mapping, prospecting and limited silt sampling on the Itch claims and contour soil sampling on the Itch and Sel claims.
S. Hearty staked Susie cl 1-4 (YB51512) on the northeast end of Hasselberg Lake in Aug/94 and completed trenching and sampling in 1997.
In 1996, Cominco carried out additional regional geological mapping and prospecting programs on the Itch claims and geological mapping, contour soil sampling and HLEM and magnetometer geophysical programs on the Sel claims.
Staked as Itch cl 85-126 (YB88933) in Mar/97 by Cominco to cover an airborne electromagnetic/magnetic anomaly originally identified in 1994. The company carried out line cutting, grid and contour soil sampling and a ground HLEM and magnetometer geophysical survey later in the year.
S. Hearty restaked the Susie claims as Susie cl 1-4 (YB93140) in Aug/2000. In Jul/2001 Hearty carried out prospecting, and rock, heavy mineral and soil sampling on the claims. In Aug/2001 Hearty staked Packsack cl 1-8 (YB93387) on the northwest end of Hasselberg Lake, overtop portions of the expired Sel claims.

Capsule Geology

The area is located southeast of the Finlayson Lake massive sulphide district of southeastern Yukon. The area was last mapped by H. Gabriel (1967), who mapped the Watson Lake map sheet (topographic map sheet 105A) at 1:25 000 scale for the Geological Survey of Canada. The Yukon Geological Survey has not yet re-mapped the occurrence area, however Murphy and others have carried out varying amounts of geological field work on adjoining topographic map sheets 105H/3, 4, 5 and 105G/1 and 2. In 2004, Murphy published a compilation report summarizing results obtained from this work. Comparing Murphy¿s results with the Yukon Geology compilation published by Gordey and Makepeace in 2003 allows one to reasonably predict the geology underlying the occurrence area.
The area is located within the Big Campbell thrust sheet, one of several fault- and unconformity-bound metasedimentary and metavolcanic successions and affiliated metaplutonic suites proposed by Murphy (2004) for the Finlayson Lake massive sulphide district of the Yukon- Tanana Terrane. The Big Campbell thrust sheet contains the structurally deepest rocks and those that host the majority of the volcanic hosted massive sulphide (VHMS) deposits of the district. It is bound below by the Big Campbell thrust, and above by the Money Creek thrust. The occurrence area hosts the same stratigraphic units that occur in the core of the Finlayson Lake massive sulphide district. Based on geological mapping completed to the north, the oldest rocks are likely quartz-rich psammite (meta-sandstone), meta-pelite and marble of the pre-Upper Devonian North River formation. The North River formation is overlain by the Fire Lake formation, which consists primarily of chloritic phyllite or schist, and lesser carbonaceous phyllite or schist, and muscovite-quartz phyllite or schist of felsic volcanic protolith. As in the Finlayson Lake massive sulphide district, mafic and variably serpentinized ultramafic metaplutonic rocks are spatially associated with the Fire Lake formation. To the north the metaplutonic rocks form a several hundred-metre- thick sheet within the upper part of the formation. It is likely that the succession is intruded by one or more small mid-Cretaceous granitic intrusions. Cominco reported generally poor outcrop exposure on the Itch claim block due to extensive glacial deposits. The best exposures were located in creeks along the west side of the property. These exposures consist of grey to black, variably carbonaceous mudstone and silty mudstone with minor interbedded quartzite and siltstone (likely North River and/or Fire Lake formations). Similar lithologies are reported west of the Sel property, but no exposures were noted on that claim block.
Contour soil samples were collected over both claim blocks in 1994 and followed up with grid soil sampling in 1996 and 1997. Two minor Ag anomalies, one with supporting As values were detected on the Sel claims. No anomalous values of interest were returned from samples collected on the Itch claims.
Ground geophysical surveys completed in 1996 and 1997 on the Itch and Sel claim blocks targeted conductors identified in the 1994 airborne geophysical survey. On the Sel claims the surveys identified several conductors and magnetic features, none of which were coincident. A linear magnetic anomaly with a flanking conductor was identified on the Itch claims (the occurrence location), but Cominco judged its conductivity too weak and its strike length too short to be of economic interest.
Hearty originally staked the Susie claims as a source of jade boulders. Prospecting and rock, heavy mineral and soil sampling uncovered anomalous gold values in glacial till on Susie claims 1 and 2 located beside Hearty Creek.

References

COMINCO LTD, Jun/95. Assessment Report #093330 by P.A. MacRobbie.

COMINCO LTD, Apr/97. Assessment Report #093651 by D.A. Senft.

COMINCO LTD, Sep/97. Assessment Report #093702 by V.L. Bannister and D.C. Hall.

GABRIEL, H., 1967. Geology, Watson Lake Yukon, Territory. Geological Survey of Canada Map 19-1966.

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).

HEARTY, S., May/2002. Assessment Report #094289 by S. Hearty.

MURPHY, D.C. AND PIERCEY, S.J., 1999. Finlayson project: Geological evolution of Yukon-Tanana Terrane and its relationship to Campbell Range belt, northern Wolverine map area, southeastern Yukon. In: Yukon Exploration and Geology 1998, C.F. Roots and D.S. Emonds (eds), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 47-62.

MURPHY D.C., 2004 Devonian-Mississippian metavolcanic stratigraphy, massive sulphide potential and structural re-interpretation of Yukon-Tanana Terrane south of the Finlayson Lake massive sulphide district, southeastern Yukon (105G/1, 105H/3, 4, 5). In Yukon Exploration and Geology 2003, D.S. Emond and L.L. Lewis (eds.), Yukon Geological Survey, p. 157-175.

MURPHY, D.C., KENNEDY, R. and TIZZARD, A. 2004. Geological Map of part of Waters Creek and Fire Lake map areas (NTS 105G/1, part of 105G/2), southeastern Yukon (1:50 000 scale). Yukon Geological Survey, Open File 2004-11.

Work History

Date	Work Type	Comment
12/31/2001	Geochemistry	
12/31/2001	Lab Work/Physical Studies	
12/31/2001	Geochemistry	
12/31/2001	Other	
12/31/1997	Geochemistry	Carried out on the Itch 85-126 claims.
12/31/1997	Ground Geophysics	Also HLEM survey. Only carried out on the Itch 85-126 claims.
12/31/1996	Geology	
12/31/1996	Geochemistry	Soil sampling on Sel claims only.
12/31/1996	Ground Geophysics	Also HLEM survey. Only on Sel claims.
12/31/1996	Other	
12/31/1994	Geology	
12/31/1994	Geochemistry	Only Sel claims were sampled.
12/31/1994	Geochemistry	
12/31/1994	Airborne Geophysics	Also magnetic survey.
12/13/1994	Geochemistry	
12/13/1994	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094899	2007	A Geological Reconaissance of the Specified Region Filed on the 24th Day of July 2007	Heavy Mineral Concentrate - Lab Work/Physical Studies, Prospecting - Other		
093702	1997	1997 Assessment Report Itch Property Geochemistry, Geophysics & Linecutting	Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
093330	1994	1994 Assessment Report Itch and Sel Properties Soil Geochemistry and Geological Mapping	Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC018644	Field map - 105A/13 - Hasselberg Lake		Property File Collection	Geoscience Map (General)