



Occurrence Details

Occurrence Number: 105G 144
Occurrence Name: Arena
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 6/16/2025 1:20:02 AM

General Information

Secondary Commodities: copper
Deposit Type(s): Unknown
Location(s): 61°13'56" N - -130°18'3" W
NTS Mapsheet(s): 105G01
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Arena cl 1-20 (YB77873) in Feb/96 by Expatriate Resources Ltd., which carried out reconnaissance soil geochemistry, geological mapping, prospecting, and claim surveys later in the year.

Capsule Geology

The occurrence lies within an area recently re-mapped by Murphy et al (2004) of the Yukon Geological Survey. The occurrence occurs in Murphy's Cleaver Lake thrust sheet. Rock in this area exhibit older-over-younger relationships along its full map trace with Devonian and Mississippian rocks overlying lower Permian rocks. The area is located in the hanging wall of the Cleaver Lake thrust and the occurrence area is underlain by massive biotite granite (unit M5g) assigned to the Early Mississippian, Simpson Range Plutonic Suite. The granite extends east to the thrust zone.

The Arena claims are almost completely underlain by massive biotite granite. Biotite-chlorite gneiss probably occurs in the northeast corner of the claim block. Expatriate outlined a weakly to moderately anomalous soil anomaly on the northeast side of the claim block (this occurrence). Soil samples returned copper in soils up to 117 ppm while float samples returned up to 8 070 ppm copper. Mineralization in the float samples was described as up to 15% local pyrite plus chalcopyrite with minor malachite and azurite in granite. It appears that Expatriate planned further exploration to locate the source of the anomaly but economic conditions led to the claims being allowed to lapse.

References

EXPATRIATE RESOURCES LTD, Mar/97. Assessment Report #093643 by A. Burgert.

MURPHY, D.C. and PIERCEY, S.J., 1999. Geological map of parts of Finlayson Lake (105G/7, 8 and parts of 1, 2, and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100 000-scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-4.

MURPHY, D.C. AND PIERCEY, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. 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. 55-66.

MURPHY, D.C et al., 2001. Preliminary Bedrock Geology Map of Northern Finlayson Lake Area (NTS 105G), Yukon Territory (1:100 000 scale), Open File 2001-33.

MURPHY et al., 2001. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock Geology. In Yukon Exploration and Geology, 2001, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 189-207.

MURPHY, D.C. ET AL., 2002. Finlayson Lake Targeted Geoscience initiative (southeastern Yukon), Part 1: Bedrock geology. 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. 189-207.

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., ET AL. 2004. Geological map of part of Waters Creek and Fire Lake map areas (part of NTS 105G/1 and 2), southeastern Yukon (1:50 000 scale).

YUKON EXPLORATION & GEOLOGY 1996, p. 17.

YUKON MINING AND EXPLORATION OVERVIEW 1988, p. 25.

Work History

Date	Work Type	Comment
12/31/1996	Geology	Program was reconnaissance in nature.
12/31/1996	Geochemistry	Program was reconnaissance in nature.
12/31/1996	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093816	1997	1997 Assessment Report Expo/Xpo/Pop/Fly (Including Areas of Base, Ball, Bat, Home & Run Blocks) Properties	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other	2	368
093643	1996	Assessment Report Describing Geological Mapping, Prospecting, Geochemistry and Claim Surveys on the Arena Property	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
093581	1996	1996 Assessment Report Expo Property (Including the Pop, Home, Run and Fly Properties) Picketting, Ground Geophysics (HLEM/MAG), Soil Geochemistry and Geological Mapping	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other	6	816.40
093426	1995	1995 Assessment Report Expo Property (Including the Pop, Home, Run, Fly and Bat Properties) Linecutting, Ground Geophysics (HLEM/Mag and Gravity), Soil Geochemistry and Geological Mapping	Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		