



Occurrence Details

Occurrence Number: 105G 137

Occurrence Name: Mask

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 6/16/2025 1:17:55 AM

General Information

Secondary Commodities: copper, silver

Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn

Location(s): 61°13'16" N - -130°5'19" W

NTS Mapsheet(s): 105G01

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Originally identified (but never staked) by Archer, Cathro and Associates Ltd who were managing exploration for a joint venture, which carried out regional reconnaissance prospecting, geochemical sampling and geological mapping of this area in 1973.

Staked as Mask cl 1-38 (YB84451) in Oct/95 by Expatriate Resources Ltd, which staked Mask cl 39-90 (YB77943) contiguously to the north and east in Mar/96. Expatriate carried out contour and grid soil geochemical sampling and prospecting later in 1996; a single day of geological mapping, prospecting and contour soil geochemical sampling in 1997; and grid soil and rock geochemical sampling, detailed geological mapping, prospecting and hand pitting in 2000.

Capsule Geology

The occurrence is located within the Yukon-Tanana Terrane of the northern Finlayson Lake district and lies just south of the limit of recent geological mapping in the area by the Yukon Geology Program (Murphy et al, 2001). Extrapolation of regionally mapped units and comparison with more detailed geological mapping by Expatriate personnel suggests that the area is underlain by a layered and intermixed sequence of strongly silicified Upper Devonian to Lower Mississippian metasedimentary and metavolcanic rocks which occur in the hanging wall of the Money Creek thrust.

Mapped units in the area include quartz-muscovite schist (? Murphy's unit Miv), carbonaceous phyllite with interbanded locally pyritic chlorite schist (? Murphy's DF) and a quartz feldspar porphyry unit (? Murphy's DFr) located during a traverse in 1997. The porphyry unit consists of up to 50% feldspar and quartz phenocrysts (3:1 ratio) within a fine grained, dark grey matrix. The poorly exposed unit is thought to represent either an intrusive unit or a crystal tuff. The quartz-muscovite schist unit weathers white to light grey with occasional orange patches and has been interpreted by Expatriate (1997) as a siliceous, pervasively foliated, aphanitic metarhyolite. A rock sample collected from a gossanous zone developed within a section of this unit containing minor pyrite along foliation planes and as fine disseminations returned anomalous values (6.07%) for iron.

Grid and reconnaissance soil geochemical sampling has been carried out over most of the property. Two soil sampling grids, the north and south grids, were established on the main ridges covered by the claim block in 1996. The north grid returned widespread Cu values (up to 231 ppm) that roughly define northwest and northeast anomalous trends within a 1 700 by 1 700 m area. The highest values occur in the vicinity of a gossan developed where a northeast trending fault crosscuts chloritic schist. The south grid returned weakly anomalous Cu values (up to 136 ppm) within a 900 by 600 m arc around the nose of a ridge that show northeast trending patterns that coincide with structural lineaments crosscutting the stratigraphy.

A single piece of semi-massive pyrite float and a well defined limonite float train associated with the crosscutting structural lineaments on the south grid returned elevated silver and arsenic values that Expatriate considered a low priority target.

References

EXPATRIATE RESOURCES LTD, Mar/97. Assessment Report #093644 by A. Burgert.

EXPATRIATE RESOURCES LTD, Dec/97. Assessment Report #093803 by W.A. Wengzynowski.

EXPATRIATE RESOURCES LTD, Dec/2000. Assessment Report #094155 by W.A. Wengzynowski.

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., COLPRON, M., GORDEY, S.P., ROOTS, C.F., ABBOTT, G., LIPOVSKY, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G), Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

Work History

Date	Work Type	Comment
12/31/2000	Geology	
12/31/2000	Trenching	
12/31/2000	Other	
12/31/2000	Other	
12/31/1997	Geology	
12/31/1997	Geochemistry	

12/31/1997	Other	
12/31/1996	Other	
12/31/1996	Other	
12/31/1973	Other	Area was sampled during regional geochemical program funded by private parties.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094155	2000	Assessment Report Describing Geological Mapping, Prospecting and Soil Geochemistry on the Mask Property	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
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
093803	1997	Assessment Report Describing Geological Mapping, Prospecting and Soil Geochemistry on the Mask Property	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
093644	1996	Assessment Report Descibing Prospecting, Geochemistry and Claim Surveys on the Mask Property	Soil - Geochemistry, Prospecting - Other		