



Occurrence Details

Occurrence Number: 1050 055
Occurrence Name: Christina
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 3:19:25 PM

General Information

Secondary Commodities: copper, gold, silver
Deposit Type(s): Porphyry Subvolcanic Cu-Au-Ag (As-Sb)
Location(s): 63°32'59" N - -131°31'7" W
NTS Mapsheet(s): 105012
Location Comments: 1.5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Christina cl 1-7 (YB03811) in August, 1990, by S. Ebert and G. Couture, who performed geological mapping, silt and rock geochemistry and petrographic work in the same year. Restaked as Rog cl 1-14 (YB65316) by Eagle Plains Resources Ltd and Miner River Resources Ltd in May/96. The companies carried out a reconnaissance mapping and rock sampling program later in the year.

Capsule Geology

The area is located in the north-central portion of the Selwyn Basin, near the boundary with the Mackenzie Platform. The area is underlain by Paleozoic sedimentary rocks which have been intruded by mid-Cretaceous granitic intrusions. The occurrence is situated 14 km west of Emerald Lake and covers a porphyry copper-gold target. A 900 x 400 m area containing disseminated sulphides and arsenopyrite-tourmaline-quartz veins occurs along the south flank of a mid-Cretaceous granite stock assigned to the Tombstone suite, which intrudes Devonian to Mississippian slate, argillite and chert assigned to the Earn Assemblage. Petrographic studies show that the host intrusion is hydrothermally altered. A stockwork zone of secondary orthoclase and biotite forms a potassic alteration halo around the south margin of the intrusion, and is overprinted by sericite replacing plagioclase and chlorite replacing biotite. The alteration zones appear to be centred on a magnetic high. Mineralized veins ranging in size from about 2 mm to 37.5 cm wide (average about 3 cm), occur along joints and form up to 10% of the rock. The veins are zoned, with quartz on the outside and tourmaline and arsenopyrite in the centre. Chalcopyrite, pyrite, malachite and azurite also occur in the veins and as disseminations in the intrusion. Most of the veins return anomalous copper values ranging from 231 ppm Cu to 5.31% Cu, while gold values range from 0.02 to 14 g/t Au. Silver values range from 1.3 g/t to 79.5 g/t Ag and arsenic values are almost all anomalous. A few specimens also returned anomalous values for Bi, Ba and Mo. A specimen of unveined granite assayed 202 ppm Cu, 0.52 g/t Au and 3.7 g/t Ag. Five hundred metres south of the intrusive contact, brecciated siltstone with a matrix of tourmaline and arsenopyrite is cut by mineralized quartz veins containing up to 25% arsenopyrite and variable amounts of pyrrhotite, pyrite and chalcopyrite. Assays of the breccia averaged 2 g/t Au, with up to 1% Cu and 31 g/t Ag. Late stage aplite dykes cut both the mid-Cretaceous intrusion and the sedimentary rocks. All of the streams draining the east side of the intrusion returned anomalous copper values, with a few also returning anomalous Au, Ag, Pb, Zn and Mo values. Eagle Plains and Miner River Resources' exploration program was designed to verify results obtained by Ebert in 1990. A 1.5 m chip sample collected across the breccia zone returned of 4.6 g/t Au and 111 ppm Bi. A 1.5 m chip sample collected from a 25 cm wide quartz-arsenopyrite vein containing 10% arsenopyrite returned 1.8 g/t Au and 827 ppm Cu.

References

S. EBERT, Feb/91. Assessment Report #092956 by S. Ebert.

EAGLE PLAINS RESOURCES LTD AND MINER RIVER RESOURCES LTD, May/97. Assessment Report #093614 by J.R. Dickie.

GORDEY, S.P., AND MAKEPEACE, A.J., 1999. Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1 (D)

Work History

Date	Work Type	Comment
12/31/1996	Geology	Program was reconnaissance in nature.
12/31/1996	Other	Program was reconnaissance in nature.
12/31/1990	Geochemistry	Also performed petrographic work.
12/31/1990	Geology	
12/31/1990	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled

096026	2011	Assessment Report, 2011 Surface Geochemical Exploration Program	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
093827	1997	1997 Geological Assessment Report on Emerald Lake Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
093614	1996	Geological Assessment Report for the Rog 1-14 and Fan 1-10 Mineral Claims	Rock - Geochemistry, Detailed Bedrock Mapping - Geology		
092956	1991	Assessment Report Geological Descriptions of the Christina and Scronk Claims	Rock - Geochemistry, Silt - Geochemistry, Petrographic - Lab Work/Physical Studies		
091076	1982	The Geology of the Old Cabin Claims	Detailed Bedrock Mapping - Geology, Process/Interpret - Pre-existing Data		
019809	1968	Hess Area Project Proposed Property Follow-Up 1968 Field Season	Research/Summarize - Pre-existing Data		
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
ARMC016470	Aeromagnetic series map of 1050/12 showing geology		Property File Collection	Geochemical Map