



Occurrence Details

Occurrence Number: 1050 010

Occurrence Name: Horn

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 8/6/2025 8:02:11 AM

General Information

Secondary Commodities: copper, gold

Deposit Type(s): Skarn Cu

Location(s): 63°42'34" N - -131°31'40" W

NTS Mapsheet(s): 105012

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Horn cl 1-9 (Y32885) in Aug/68 by a syndicate composed of Canadian Industrial Gas & Oil Ltd (manager: 33.3%), Canadian Southern Petroleum Ltd (33.3%), Sabre Petroleum Ltd (16.7%), Mesa Petroleum Company (10.7%), and Wainoco Oil & Chemicals Ltd (6%), which conducted mapping and geochemical sampling in 1969 and channel sampling in 1970. Restaked as Old cl 1-14 (YB65397) by Eagle Plains Resources Ltd and Miner River Resources Ltd in Jun/96. The companies carried out reconnaissance exploration programs in 1996 and 1998.

Cyprus Canada Inc surrounded the Old claims with New cl 1-54 (YB81208) in Aug/97. The company did not carry out any work and the claims were allowed to lapse.

Capsule Geology

The area is located in the Selwyn Basin to the west of the Old Cabin Pluton. The area has not yet been re-mapped but units can be determined by extrapolating information from the adjoining 1:50,000 scale geology map released by Cecile (1998).

Cecile shows that the area is underlain by an Upper Proterozoic to Ordovician sequence of sedimentary and basic and volcanoclastic rocks. The sedimentary sequence consists of mainly shales, argillites, quartzites, cherts and conglomerates. The volcanic rocks consist of basic volcanoclastics, breccias, lapilli tuffs, flows, sills and dykes and occurs as a thick succession and tongues in the under and overlying sedimentary rocks. The mid-Cretaceous Old Cabin Pluton intrudes the sequence to the east and at least one small granitic plug intrudes the sequence in the vicinity of the occurrence. Although the contact between the Old Cabin Pluton and sedimentary volcanic rocks is quite sharp, hornfels and skarn zones are common in the intruded sequence. The hornfels contain dark, fine-grained magnetite which display a strong magnetic signature. Pyrrhotite and minor amounts of pyrite and chalcopyrite occur as small lenses in the volcanic rocks and with quartz in veinlets and shear zones.

The occurrence consists of a crushed quartz-carbonate vein system 4.6 m wide and about 106.7 m long that is exposed on a steep cliff face for a vertical distance of 36.6 m. The vein zone, which occurs only within the volcanic units and pinches to a tight fracture in the underlying chert, contains up to 40% pyrrhotite. Channel samples from the best portion of the vein assayed 0.5% Cu across 1.5 m and 0.2% Cu across 9.1 m. A smaller zone occurs 9 m to the south, while on the opposite (south) side of a steep ridge, the projection of the vein is covered by limonitic talus.

Eagle Plains and Miner River Resources focussed their efforts on the extensive pyrrhotite hornfels and on the localized quartz-arsenopyrite veins cutting the intruded sequence. Although the pyrrhotite rich hornfels returned spot highs up to 4 646 ppm Cu, mineralization was sporadic and not economic. None of the mineralized hornfels returned anomalous Au values.

The quartz-arsenopyrite veins are generally restricted to the intruded sequence. The veins are continuous along strike but tend to be narrow (up to 2-6 cm) in width. Although the veins returned assays of 2 - 3 g/t Au, vein densities were low and gold values within the veins were erratic. Based on these results the companies initially decided to allow the claims to lapse, but they returned to the claims in 1998 after Cyprus Canada staked around them.

The 1998 exploration program was focussed on following up a gold silt anomaly (805 ppb) reported in a Geological Survey of Canada regional stream sediment survey. The anomalous result came from a creek draining the main occurrence area. Prospecting and rock sampling failed to locate a source for the silt anomaly.

References

CANADIAN INDUSTRIAL OIL & GAS LTD, Feb/71. Assessment Report #060182 by H. Mogensen.

CECILE, M.P. 1998. Geology and structure cross-section, Arrow Lake, Yukon Territory; Geological Survey of Canada, Map 1943A, scale 1:50 000.

EAGLE PLAINS RESOURCES LTD AND MINER RIVER RESOURCES LTD, May/97. Assessment Report #093617 by J. Dickie.

EAGLE PLAINS RESOURCES LTD AND MINER RIVER RESOURCES LTD, Dec/98. Assessment Report #093927 by B. Kreft.

GEOLOGICAL SURVEY OF CANADA Open File 1006.

GEOLOGICAL SURVEY OF CANADA Open File 2364

MINERAL INDUSTRY REPORT 1969-70, p. 29-30.

MINERAL INDUSTRY REPORT 1971-72, p. 17.

Work History

Date	Work Type	Comment
12/31/1998	Other	
12/31/1996	Geoloav	

12/31/1996	Other	
12/31/1970	Geochemistry	
12/31/1969	Geology	
12/31/1969	Other	

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		
093927	1998	Summary Report on Old 1-14 Quartz Claims	Rock - Geochemistry, Prospecting - Other		
093827	1997	1997 Geological Assessment Report on Emerald Lake Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
091076	1982	The Geology of the Old Cabin Claims	Detailed Bedrock Mapping - Geology, Process/Interpret - Pre-existing Data		
060182	1970	Geological Report on the Horn Claims	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
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
ARMC015566	Map sheet 1050/12 with geochemical results and locations		Property File Collection	Geochemical Map
ARMC015565	Map sheet 1050/12 with geological and structural notations		Property File Collection	Geoscience Map (Geological - Bedrock)