



Occurrence Details

Occurrence Number: 105D 184

Occurrence Name: Byng - Main Zone

Occurrence Type: Hard-rock

Status: Showing

Date printed: 12/15/2025 1:06:51 PM

General Information

Secondary Commodities: copper, gold, silver

Aliases: Movement

Deposit Type(s): Vein Au-Quartz

Location(s): 60°55'55" N - -134°21'37" W

NTS Mapsheet(s): 105D16

Location Comments: Location from map in AR 097225

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

L. Carlyle and D. MacDonald staked BM cl 1-4 (YA95347) on the northwest ridge of Mt Byng in Jul/86. Two additional claims were staked in Apr/87. In May/88 Carlyle staked BM cl 7-43 (YB20538) around the original six claims and performed mapping and VLF-EM surveys in 1989. T. Bremner (DIAND) carried out reconnaissance mapping on the property in 1989. Aurora Gold Ltd optioned the property in 1990, staked BM cl 43-47 (YB27729) and carried out further geochemical sampling, blast trenching and VLF-EM surveys. In June and Jul/94 Carlyle blasted and hand dug additional trenches in the Main and R-17 zones. In Aug/95 Carlyle staked BC cl 1-20 (YB58112) to the southeast. A portion of the BC claim block covered lapsed BM cl 14-18 (YB20545). The claims were staked to protect arsenopyrite showings located at the R zone and cover Minfile Occurrence # 105D 189. Carlyle carried out soil sampling, trenching and prospecting around the Main and R-17 zones in 1995 and 1996 and fill-in soil sampling around the R-17 zone in 1998.

Capsule Geology

The occurrence is located near the contact between Middle Triassic Joe Mountain volcanics and mid-Cretaceous Mount Byng felsite. Gold occurs with minor copper in vuggy, brecciated quartz-carbonate veins associated with mid-Cretaceous rhyolite dykes belonging to the Byng Creek volcanics. The rhyolitic rocks crosscut the Mount Byng felsite dated at 121 +/- 5 Ma and gabbro and anorthosite belonging to the Middle Triassic Joe Mountain volcanic complex. The veins occur along the margins of the rhyolite dykes which are up to 15 m wide and 1 km long and appear to be emplaced along parallel north-trending lineaments. VLF geophysics was found to provide a useful tool in outlining the location of the veins. Carlyle's work identified four main areas of interest. From the southeast to northwest, these are designated the R, Main, R-7 and R-17 zones. The Main zone showing is a vuggy, brecciated quartz-carbonate vein, which strikes 160° following the margin of a 9 m wide rhyolite dyke. Soil sampling completed in 1987 and 1988 returned up to 1 660 ppb Au, plus anomalous levels of Cu, As, Ni, Co and Cr. Rusty quartz float with malachite and azurite along fractures assayed up to 33.2 g/t Au, 139.5 g/t Ag and 6.53% Cu. Trench samples assayed as high as 126.8 g/t Au, and returned anomalous values for Hg, As, Sb and W. At the R-17 zone, located in the northwest corner of the BM claims, a rusty weathering chalcedony breccia is associated with a north trending rhyolite dyke. Bremner (1990) inferred this to be a hot spring deposit. Soil and trench samples returned elevated gold values. The R zone, located 1.2 km southeast of the Main zone consists of a distinctive ridge of brecciated Middle Triassic Joe Mountain Volcanics which have been cut by rhyolite dyke and Mt Byng felsite. Strong arsenopyrite mineralization occurs in the carbonate-epidote matrix of the breccia located in the northeast corner of the ridge. This mineralization is also associated with elevated levels of Au, Cu, and Mo. Previous work on the R zone has demonstrated the existence of north trending geochemical and VLF anomalies along the ridge. In Aug/95 the R zone was restaked within Carlyle's BC claims. Carlyle's 1995 and 1996 work programs extended the size of both the R-17 and Main zones, while work in 1998 suggests that the R-17 zone is a brecciated intrusive plug with a diameter of approximately 100 m.

Work History

Date	Work Type	Comment
6/1/2016	Pre-existing Data	
6/1/2015	Remote Sensing	
6/1/2012	Geochemistry	
6/1/2012	Geochemistry	
6/1/2006	Airborne Geophysics	
6/1/2006	Airborne Geophysics	
6/1/1998	Other	
6/1/1996	Trenching	
6/1/1996	Geochemistry	
6/1/1996	Geology	
6/1/1996	Ground Geophysics	
6/1/1996	Ground Geophysics	
6/1/1995	Geochemistrv	

6/1/1995	Other	
6/1/1994	Trenching	
6/1/1990	Geochemistry	
6/1/1990	Ground Geophysics	
6/1/1990	Ground Geophysics	
6/1/1988	Trenching	
6/1/1988	Geochemistry	
6/1/1988	Ground Geophysics	
6/1/1986	Geochemistry	
6/1/1986	Geology	
6/1/1986	Other	
6/1/1986	Geochemistry	
6/1/1986	Trenching	
6/1/1986	Other	
12/31/1998	Geochemistry	
12/31/1996	Geochemistry	
12/31/1996	Other	
12/31/1996	Trenching	
12/31/1995	Geochemistry	
12/31/1994	Trenching	
12/31/1990	Geochemistry	Also rock sampling.
12/31/1990	Ground Geophysics	Also VLF survey.
12/31/1990	Trenching	
12/31/1989	Geology	
12/31/1989	Ground Geophysics	Also VLF survey.
12/31/1988	Geology	
12/31/1988	Geochemistry	
12/31/1988	Ground Geophysics	Also VLF survey.
12/13/1995	Trenching	
12/13/1995	Other	
12/13/1994	Geochemistry	
12/13/1987	Geochemistry	Small survey.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096953	2016	Assessment Report Describing Data Compilation and Digitization of work performed at the Byng Property	Data Compilation - Pre-existing Data		
096790	2015	Lidar Surveying at the Byng Property Bing 1-50	LIDAR - Remote Sensing		
096374	2012	Soil and Rock Geochemical Sampling at the Byng Property	Rock - Geochemistry, Soil - Geochemistry		
094753	2006	Geophysical Assessment Report on the Byng Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093906	1998	1998 Work Program on Mt. Byng Property	Soil - Geochemistry		
093566	1996	1996 Assessment Report, BC 1-20 Claims	Soil - Geochemistry, Bedrock Mapping - Geology, Magnetism - Ground Geophysics		
093544	1996	1996 Assessment Report, BM 1-6, 9-12, & 36-41	Rock - Geochemistry, Soil - Geochemistry, Backhoe - Trenching		
095319	1995	Report on 1995 Work Program, BM Claims, Mt. Byng Area	Rock - Geochemistry, Backhoe - Trenching		
093244	1994	Report on the 1994 Work Program, BM Claims, Mt. Byng Area	Rock - Geochemistry, Backhoe - Trenching		
092951	1990	Report on the 1990 Work Program, BM Claims, Mt. Byng Area	Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetism - Ground Geophysics		

092714	1988	Assessment Report on the BM Claims 1 to 43	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Backhoe - Trenching		
091940	1986	Report on BM Claims 1-4	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other, Hand - Trenching		

Related References					
Number	Title		Page(s)	Reference Type	Document Type
96-019	Report on1996 Target Evaluation Program on MT Byng Propertyt			Yukon Government: Energy, Mines and Resources	YMEP Report
88-009	Prospector's Assistance Report on Mt. Byng, Cabin Lake, PGMB, PGMA, Grey Copper Hill and Quiet Lake Areas			Yukon Government: Energy, Mines and Resources	YMEP Report
95-034	Prospecting Report on the Mt. Byng Area			Yukon Government: Energy, Mines and Resources	YMEP Report
98-012	1998 Work Program on Mt. Byng Property			Yukon Government: Energy, Mines and Resources	YMEP Report