



Occurrence Details

Occurrence Number: 115I 051

Occurrence Name: Castle

Occurrence Type: Hard-rock

Status: Showing

Date printed: 8/5/2025 8:27:03 AM

General Information

Secondary Commodities: antimony, copper, gold, lead, silver, zinc

Aliases: Freegold

Deposit Type(s): Vein Cu+/-Ag Quartz

Location(s): 62°19'0" N - 137°8'13" W

NTS Mapsheet(s): 115I06

Location Comments: Coordinates provided by Triumph Gold in 2020.

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Sun cl (Y41183) in December 1969 by Montana Mines Ltd., which performed geochemical sampling in 1970. Re-staked as Car cl (Y78678) in May 1974 by the Carmacks Syndicate (Castlemaine EL, Welcome North Mines Ltd, W.M. Bath Inv L, and Ventures West Capital L) and optioned to a joint venture between Western Mines Ltd., Cream Silver Mines Ltd. and Belmoral Mines Ltd., which conducted soil geochemistry and magnetic surveys later in the year.

Re-staked as part of the EYM (YA86872) group in 1985 by Chevron Canada Resources Ltd., which performed a soil geochemical survey later in the year. The EYM claims were sold to Big Creek Resources Ltd in spring, 1990. Archer, Cathro & Associates (1981) Ltd filed \$6200 of rotary drilling on the EYM claims in March 1992.

Re-staked as Glen cl 1-40 (YB46680) by G. Harris in April 1994 who carried out prospecting and soil sampling. In early 1996, the claims were optioned to La Rock Mining Corp. which carried out soil sampling later in the year. In November 1996, B. Harris staked Castle cl 1-14 (YB96972) to the north.

Re-staked as Glen claims 11-20 (YC09190) by B. Harris in December 1998. The western portion of the original Glen claims was re-staked as Sey cl 1-20 (YC09221) by Archer Cathro & Associates (1981) Ltd in February 1999. B. Harris added Glen cl 1-4 (YC15335) in June 1999.

Northern Freegold Resources re-staked the Rage claims in 2006 and performed a property wide airborne magnetic and VTEM geophysical survey that included the Granger occurrence

Triumph Gold Corp. acquired Northern Freegold Resources in 2015 and the Granger occurrence is currently part of the Freegold Mountain Project.

Regional & Property Geology

The occurrence is partly underlain by Yukon-Tanana Terrane (YTT). The rocks of the YTT in this region consist of Early Mississippian metamorphic rocks separated into meta-sedimentary and meta-igneous suites. The meta-sedimentary suite consists of micaceous quartz-feldspar gneiss, schist and quartzite. The meta-igneous package is comprised of biotite-hornblende feldspar gneiss and coarse-grained granodiorite orthogneiss with lesser amphibolite (Allan & Friend, 2018).

The YTT basement rocks are cut by numerous plutonic and volcanic events from the Mesozoic (Allan & Friend, 2018; AR 090087), including:

1. Early Jurassic Long Lake monzonite;
2. Mid-Cretaceous quartz feldspar and feldspar hornblende porphyry dykes and plugs;
3. Mid-Cretaceous Whitehorse quartz monzonite and granite; and,
4. Late Cretaceous Casino quartz monzonite.

The Castle occurrence is located north of the Big Creek Fault near the contact between Paleozoic metagranodiorite and Early Jurassic Long Lake monzonite intruded by Mid-Cretaceous quartz-feldspar and feldspar hornblende porphyry dykes (AR 093528; Friend et al., 2018). Narrow bands of skarn outcrop as rusty black foliated rock in granitic rocks (AR 093528).

Mineralization & Results

The 1974 program outlined a zone of kaolinization and silicification in granodiorite, surrounded by a halo of quartz veining containing pyrite and minor chalcopyrite (AR 061473). In 1985, sampling outlined coincident but erratic gold-copper anomalies.

The best of ten rocks samples collected from the Castle occurrence in 1985 assayed 1,164 ppb Au, 1,643 ppm Cu, 5,470 ppm Pb, 762 ppm Zn, 724 ppm As, 804 ppm Sb and > 50.0 ppm Ag. Soil sampling alongside the access road produced several anomalous samples with the best returning 574 ppb Au, 197 ppm Cu, 161 ppm Pb, 675 ppm Zn, 2,040 ppm As, 17 ppm Sb and 3.0 ppm Ag (AR 091823).

La Rock Mining's soil sampling program was designed to follow up the anomalous results obtained by Harris in 1994. Several patchy multi-element anomalies were returned.

Work History

Date	Work Type	Comment
12/31/1996	Geochemistry	
12/31/1994	Geochemistry	
12/31/1994	Other	
12/31/1992	Drilling	Unknown amount of work. Archer Cathro filed for \$6,200.00 of assessment credit.

12/31/1985	Geochemistry	
12/31/1974	Geochemistry	Grid based.
12/31/1974	Ground Geophysics	
12/31/1970	Geochemistry	
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/1996	Geochemistry	Grab samples.
12/13/1985	Geochemistry	Grab samples.
12/13/1985	Geology	
12/13/1974	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094745	2006	2006 Geophysical Assessment Report on the Freegold Mountain Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
091804	1985	Geological and Geochemical Report on the NUCLEUS Property	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Property Evaluation - Other, Prospecting - Other, Mechanical - Trenching		
091823	1985	Geological and Geochemical Report on the Stoddart Property	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
061082	1974	Geological, Geophysical and Geochemical Report on the Car 1-40 Mineral Claim Freegold Mountain Area	Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other		
060200	1970	Report on the Geophysical and Geochemical Surveys Ram and Bow Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016627	Land and disposition and mineral deposits chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (General)
ARMC016626	Geology and mineralization chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (Geological - Bedrock)
YEG2017_4	New contributions to the bedrock geology of the Mount Freegold district, Dawson Range, Yukon (NTS 115I/2, 6 and 7)		Yukon Geological Survey	Annual Report Paper
2018-2	Bedrock geological map of the Mount Freegold district, Dawson Range		Yukon Geological Survey	Open File (Geological - Bedrock)
1987-2(G)	Geology of Mt. Nansen (115I/3) and Stoddart Creek (115I/6), Dawson Range, Central Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)