



Occurrence Details

Occurrence Number: 115I 050

Occurrence Name: Granger

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 8/5/2025 8:37:35 AM

General Information

Secondary Commodities: copper, gold, molybdenum, silver

Aliases: Rag, Rage, Freegold

Deposit Type(s): Porphyry Cu-Mo-Au

Location(s): 62°17'52" N - -137°11'49" W

NTS Mapsheet(s): 115I06

Location Comments: Coordinates provided by Triumph Gold in 2020.

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

This area was explored intensively by individual prospectors for gold veins in the 1930's. Staked as Low cl 9-49 (Y40124) in November 1969 by R. McKamey and optioned in December 1969 to Samson Mine Ltd. and Monarch Metal Mine Ltd., which conducted reconnaissance soil sampling.

Re-staked as the Ag cl 1-36 (Y75866) and Au cl 1-40 (Y75938) in July 1973 by E.D. Campbell and G.E. Smith and optioned to Prism Resources Ltd. and Dynasty Exploration Ltd., which carried out grid soil sampling, magnetic surveying and bulldozer trenching in 1974. Dynasty changed its name to Cyprus Anvil Mining Corp and conducted an IP survey in 1975 before dropping the option.

Re-staked as Seymour cl 1-44 (YA60053) in May 1981 by Arctic Red Resources Corp., which bulldozer trenched later in the year. Re-staked as Rag cl 1-24 (YA86809) in May 1985 and May cl 1 & 3 and Rag cl 25-26 (YA87057) in June 1985 by R. Granger and optioned to Durham Resources Ltd., which performed bulldozer trenching in 1985, geological mapping and geochemical sampling in 1986 and 1987, and bulldozer trenching in 1987. Durham changed its name to Dominion Explorers Inc. (Landmark Corp) in 1987. In 1988, the claims were optioned by Rea Gold Corp (60%) and Verdstone Gold Corp (40%), which drilled one hole (99.7 m) in 1988 before transferring the claims back to Granger in October 1989. G. Harris tied on Bar cl 1-38 (YA92884) to the north in August 1985.

The Rag 1-24 cl (YA86809) and 27-29 Frs. (YA93755) were transferred to B. Harris in December 1993, who subsequently carried out blast trenching and sampling. In December 1993, La Rock Mining Corp. entered into an option agreement to acquire 100% interest in 32 claims on the property. In December 1994, Harris and La Rock Mining filed assessment credit for 7,250 m3 of trenching on the Rag and Elephant claims. In 1996, La Rock filed for assessment credit using physical work (road building) carried out on the Best cl 1-6 (Y25895) and Hope cl 1-2 (Y21249) located 4 km to the south. La Rock carried out 950 m of bulldozer trenching, mapping and sampling of the trenches in 1997. The claims were subsequently allowed to lapse.

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. In 2008, Northern Freegold Resources carried out diamond drilling of 10 holes totaling 2,559.6 m at 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 monzonite to syenite plutonic suites;
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 Granger occurrence consists of a shear zone and vein that cut Late Cretaceous Casino quartz monzonite and Mid-Cretaceous Whitehorse suite quartz monzonite and granite that intrude Paleozoic gneiss and schist (AR 092586).

Mineralization & Results

Gold occurs with minor chalcopryite, pyrite and a trace of molybdenite occur in a steeply-dipping, northwest-trending shear zone about 8 m wide and in a narrow northwest-trending vein 2 m wide which lies 20 m further to the east (AR 092586). The structures lie within geochemical anomalies that returned values up to 370 ppb Au and 949 ppm As.

Highly oxidized vein float was located on the Rag claim group in 1985, a specimen of which assayed 44.2 g/t Au and 147.4 g/t Ag. The 1988 drill hole intersected 3.2 g/t Au over 2 m in a fractured tourmalinized quartz monzonite (AR 092586).

Trenching in 1997 targeted geochemical anomalies in the southeastern portion of the claim block and uncovered a limonitic breccia zone in granodiorite consisting of massive limonite and goethite cut by quartz-calcite veins in Trench 97-2. A 2 m chip sample averaged 3.5 g/t Au and 108 g/t Ag with elevated base metal values (AR 093746).

Diamond drilling carried out in 2008 returned elevated assay results of up to 620 ppb Au and 0.34% Cu over 10.7 m in hole 08ST-05. Mineralization was noted as subparallel quartz veins containing pyrite and chalcopryite cutting granite (AR 095069).

Work History

Date	Work Type	Comment
12/31/1997	Geochemistry	

12/31/1997	Geology	
12/31/1997	Trenching	Amount of work done: 950 METRES
12/31/1994	Trenching	Harris and et al. filed assessment credit for 7,250 m3 of trenching.
12/31/1993	Trenching	
12/31/1988	Drilling	One hole, 99.7 m.
12/31/1987	Geology	
12/31/1987	Geochemistry	Also rock sampling.
12/31/1986	Geology	
12/31/1986	Geochemistry	Also rock sampling.
12/31/1981	Trenching	
12/31/1975	Ground Geophysics	
12/31/1974	Geochemistry	
12/31/1974	Ground Geophysics	
12/31/1974	Trenching	
12/31/1969	Geochemistry	
12/31/1930	Other	Explored by individual prospectors during 1930's.
12/13/2008	Drilling	Ten holes totaling 2559.6 m.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/1994	Geochemistry	
12/13/1988	Geochemistry	
12/13/1988	Geology	
12/13/1988	Geochemistry	
12/13/1985	Trenching	
12/13/1981	Geochemistry	
12/13/1970	Airborne Geophysics	Property wide magnetic and EM survey.

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		
093746	1997	Assessment Report on the Rag and May Claims	Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching		
093528	1996	Exploration Report on the Glen,Castle,Rag, and Elephant Claims	All Weather Road - Development, Surface, Soil - Geochemistry, Mechanical - Trenching		
093189	1994	Exploration Report on the Freegold Mountain Project Freegold Mountain Area	Rock - Geochemistry, Soil - Geochemistry, Line Cutting - Other, Prospecting - Other, Mechanical - Trenching		
092586	1988	Summary Report Trenching, Diamond Drilling Rag and May Claim Group	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Mechanical - Trenching		
092139	1987	Rag and May Claims 1987 Summer Geological and Geochemical Program Report	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
090906	1981	Arctic Red Resources Corporation Geological and Geochemical Report Seymour 1-44 Claims	Soil - Geochemistry, Mechanical - Trenching		
090048	1975	A Report on an Induced Polarization Survey - Ag and Au Claims	IP - Ground Geophysics		
091331	1974	Linecutting Report Ag and Au Groups	Line Cutting - Other		
061154	1974	Application for Northern Mineral Assistance Grant Peg, Au, Ag, Add and Gold Star Claim Groups, Cat Trenching Report Gold Star Group	Mechanical - Trenching		
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
ADM 00				Geological Map

ANISW 7859	Preliminary reconnaissance-type mapping - Freegold Mtn. - Job No. 06065-3	Property File Collection	Geoscience Map (General)
ARMC01 6627	Land and disposition and mineral deposits chart - Freegold - Big Creek area	Property File Collection	Geoscience Map (General)
ARMC01 6626	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
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)
2018-2	Bedrock geological map of the Mount Freegold district, Dawson Range	Yukon Geological Survey	Open File (Geological - Bedrock)