



Occurrence Details

Occurrence Number: 115I 198

Occurrence Name: Blue Sky

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: copper, gold, molybdenum, silver

Aliases: Freegold

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

Location(s): N - W

NTS Mapsheet(s): 115I06

Location Comments: Coordinates provided by Triumph Gold in 2020.

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

P.F. Guder the Revenue Copper in 1950, re-staked it as Revenue Copper cl 1-8 (67180) in September 1953 and tied on Addition cl 1-2 (68060) to the south in January 1954. Between September 1967 and March 1968, 25 Inca, Revenue, Rev and Add claims were added to the fringes of the property. A new company, Yukon Revenue Mines Ltd, was formed in 1968 to develop the property. Yukon Revenue changed its name to YKR International Resources Ltd in 1996.

In 1999, ATAC Resources Ltd optioned the Revenue claims from YKR and tied on Nuc cl 1-7 (YC09279) to the north in February 1999. At the same time, ATAC purchased the adjoining Nucleus claims (MINFILE occurrence 115I 107) from the W4 Joint Venture consolidating a total of 151 claims in the area to form a single contiguous claim group, which they named the Golden Revenue property.

The Golden Revenue property was further consolidated in 2006 by Northern Freegold Resources. Northern Freegold Resources performed a property wide VTEM and magnetic airborne survey in 2006.

Triumph Gold acquired Northern Freegold Resources in 2015 and the property is now termed the Freegold Mountain Project. Triumph carried out diamond drilling at Blue Sky between 2017 and 2019, as well as a ground magnetic survey, ground IP survey and soil sampling in 2018.

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.

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

1. Early Jurassic Long Lake monzonite to syenite plutonic suites;
2. Mid-Cretaceous Mount Nansen Suite andesite to diorite;
3. Mid-Cretaceous Whitehorse granodiorite, quartz monzonite and granite;
4. Late Cretaceous Casino quartz monzonite;
5. Late Cretaceous Prospector Mountain syenite; and,
6. Quartz feldspar and feldspar hornblende porphyry dykes and plugs.

The major structural feature in the area is the Big Creek Fault with steeply-dipping, northwest-trending dextral faults parallel to the more regional Tintina and Denali faults (AR 097175).

Mineralization & Results

The Blue Sky zone is defined by a 180 m wide NE-SW striking by 500 m long body of irregularly shaped, south to south east dipping porphyry mineralization to the east of the Revenue deposit (MINFILE 115I 042). Mineralization at the Blue Sky is hosted in Mid-Cretaceous granite and syn-mineral quartz-feldspar porphyry dykes and consists of chalcopyrite and molybdenite in quartz veins, hydrothermal breccia matrix, and disseminated in host rocks. The most intense mineralization is associated with strong potassic alteration. A second set of late quartz-carbonate veins are present in the main mineralized zone and contain chalcopyrite, molybdenite, galena, sphalerite, bismuthinite, and visible gold (Triumph Gold, MD&A, 23 Apr/2019).

Diamond drilling at the Blue Sky zone between 2017 and 2020 has returned several significant intercepts, including: 0.381 g/t Au, 0.8 g/t Ag, and 0.48% Cu over 49.5 m in RVD17-13; 0.3 g/t Au, 2.5 g/t Ag, and 0.152 g/t Cu over 149 m in RVD18-05; 1.10 g/t Au, 5 g/t Ag, and 0.27% Cu over 316 m in RVD18-19; and 0.638 g/t Au, 5.9 g/t Ag, 0.233% Cu and 0.006% Mo over 304.39 m in RVD19-04 (Triumph Gold, News Releases, 19 Oct/2017; 12 Sep/2018; 30 Oct/2019).

The Blue Sky drilling results have been incorporated into the Revenue deposit (MINFILE occurrence 115I 042) NI 43-101 compliant resource/reserve estimate published in 2020.

Work History

Date	Work Type	Comment
8/1/2020	Drilling	2 holes, 510.84 m
12/13/2019	Drilling	
12/13/2019	Geochemistry	
12/13/2018	Drilling	

12/13/2018	Geochemistry	
12/13/2018	Ground Geophysics	
12/13/2018	Ground Geophysics	
12/13/2018	Geochemistry	
12/13/2017	Drilling	3 holes.
12/13/2017	Geochemistry	
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.

Related References				
Number	Title	Page(s)	Reference Type	Document Type
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)