



Occurrence Details

Occurrence Number: 115I 181

Occurrence Name: Ridge

Occurrence Type: Hard-rock

Status: Prospect

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General Information

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

Aliases: Freegold

Deposit Type(s): Epithermal Au-Ag-Cu: High Sulphidation

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

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. Durham changed its name to Dominion Explorers Inc. (Landmark Corp) in 1987 and carried out rock and soil geochemistry. In 1988, the claims were optioned by Rea Gold Corp (60%) and Verdstone Gold Corp (40%), which performed limited trenching before transferring the claims back to R. Granger in October 1989.

The Rag 1-24 cl (YA86809) and 27-29 Frs. (YA93755) were transferred to B. Harris in December 1993. In December 1993, La Rock Mining Corp. entered into an option agreement to acquire 100% interest in 32 claims on the property. La Rock carried out soil and rock geochemistry at the Ridge occurrence 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 Ridge Zone occurrence. In 2007 and 2008, Northern Freegold Resources cleaned and re-sampled trenches in the Ridge Zone and drilled 9 diamond drill holes (1,074 m).

Triumph Gold Corp. acquired Northern Freegold Resources in 2015 and the Ridge Zone 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.

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 Ridge Zone is associated with a polymetallic vein related to the epithermal system at the contact between the Late Cretaceous Stoddart pluton and the Late Cretaceous Seymour Creek stock (AR 096643). Transported copper carbonates and copper oxides fill fractures and open spaces at the Ridge Zone (Fonesca & Giroux, 2009).

Anomalous gold and arsenic were detected in soil during the 1987 program (AR 092139). Trenching in 1988 returned assays of up to 0.08 g/t Au.

Diamond drilling in 2008 returned elevated gold, silver and copper values, including: 14.1 g/t Au, 60.0 g/t Ag and 1.99% Cu over 0.75 m in 08RZ-01; 17.1 g/t Au, 74.5 g/t Ag and 0.29% Cu over 0.95 m in 08RZ-02 and 19.4 g/t Au, 154 g/t Ag and 0.21% Cu over 0.35 m in 09RZ-09 (Fonesca & Giroux, 2009).

Work History

Date	Work Type	Comment
12/13/2008	Drilling	Nine holes totaling 1,074 m drilled between 2007 and 2008.
12/13/2007	Drilling	Nine holes totaling 1,074 m drilled between 2007 and 2008.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/1997	Geochemistry	Grab sampling.
12/13/1997	Geochemistry	
12/13/1988	Trenching	

12/13/1987	Geochemistry	Grab sampling.
12/13/1987	Geochemistry	

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)