



Occurrence Details

Occurrence Number: 115I 193

Occurrence Name: Granger

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: bismuth, gold

Aliases: Freegold

Deposit Type(s): Vein Au-Quartz

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 discovered gold-quartz float in the vicinity as early as 1934. He staked Revenue Copper in 1950 and the property was optioned by Conwest Exploration Ltd. Guder re-staked as Revenue Copper cl 1-8 (67180) in September 1953 and tied on Addition cl 1-2 (68060) to the south in January 1954. Guder tied on Addition cl 3-4 (74488) to the west in September 1959 and Addition cl 5 (75323) to the west and Homestake cl 1-2 (75321) to the south in September 1960. 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 who optioned the property Shakwak Exploration Company Ltd. in 1983.

Nordac Mining Corporation acquired Shakwak's interest in 1985 and performed soil sampling in 1986. In 1987, Nordac changed its name to Big Creek Resources Ltd. and entered a joint venture with Rexford Minerals Ltd (Big Creek Joint Venture), which staked Subtract cl 2-3 (YA97442) in May 1987 and carried out trenching and rock geochemistry of chip and grab samples. In 1988, Big Creek carried out diamond drilling (2 holes, 295.6 m), trenching and rock and soil geochemistry.

Big Creek subsequently merged with Pacific Sentinel Gold and the claims were later sold to Amarc Resources Ltd, which returned them to Yukon Revenue in 1995. Yukon Revenue changed its name to YKR International Resources Ltd in 1996.

In 1999, ATAC Resources Ltd optioned the Revenue claims from YKR and 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. ATAC carried out rock geochemistry of grab samples at Granger in 1999 and soil geochemistry in 2001.

The Golden Revenue property, including Granger zone, was further consolidated in 2006 by Northern Freegold Resources. Northern Freegold Resources performed a property wide VTEM and magnetic airborne survey in 2006. In 2010, Northern Freegold carried out RC drilling and a ground IP survey at Granger.

Triumph Gold acquired Northern Freegold Resources in 2015 and the property is now termed the Freegold Mountain Project. In 2018, Triumph Gold carried out diamond drilling (6 holes; 1014 m) and soil and rock geochemistry. In 2019, mechanical trenching (2 trenches) was carried out at Granger.

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 geological setting and the style of mineralization in the Granger Zone are similar to the Nucleus gold deposit (MINFILE occurrence 115I 107) which is located approximately 1.5 kilometres to the west. Mineralization at the Granger zone is hosted predominantly in brecciated schist and gneiss intruded by numerous quartz-feldspar porphyry dykes and microgranite dykes. Quartz-limonite-sulphide veins have been observed in trenches (Triumph Gold, New Release, 24 Oct/2018; AR 097397).

The Granger zone is characterized by a 700 m by 300 m northeast trending soil anomaly with several values exceeding 500 ppb Au. In 1987, bulldozer trenching averaged 1.76 g/t Au over 70 m; however, after deepening and resampling the trench returned only 0.66 g/t Au from the same interval. Diamond drilling in 1988 by Big Creek intersected intensely clay altered rocks but yielded low gold values with the best interval assaying 1.00 g/t over 1.6 m (AR 094102).

Grab sampling by ATAC Resources in returned one returned significant gold assay of light grey quartz-carbonate taken from a vein cutting quartz monzonite in one of the trenches and assayed 14.16 g/t Au (AR 094102).

In 2018, six holes drilled by Triumph Gold tested a shallow oxide gold target at Granger and intersected variably oxidized mineralization in every hole. Highlights from the 2018 drilling include: 0.98 g/t Au over 18.30 m in RVD18-33; 0.61 g/t Au over 18.0 m in RVD18-29; and 0.45 g/t Au over 55.21 m in RVD18-30 (Triumph Gold, News Release, 24 Oct/2018).

Work History

Date	Work Type	Comment
12/13/2019	Geochemistry	Chip and grab sampling of trenches.
12/13/2019	Trenching	Two trenches.
12/13/2018	Drilling	Six holes totaling 1014 m.
12/13/2018	Geochemistry	
12/13/2018	Geochemistry	
12/13/2010	Drilling	
12/13/2010	Ground Geophysics	Titan survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2001	Geochemistry	
12/13/1999	Geochemistry	Prospecting grab samples.
12/13/1988	Geochemistry	Chip and grab sampling.
12/13/1988	Drilling	Two holes totaling 295.6 m.
12/13/1988	Geochemistry	
12/13/1988	Trenching	
12/13/1988	Geochemistry	
12/13/1987	Geochemistry	Chip and grab sampling of trenches.
12/13/1987	Trenching	
12/13/1986	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)