Occurrence Details

Occurrence Number: 115I 184
Occurrence Name: Jilly Bob
Occurrence Type: Hard-rock
Status: Showing
Date printed: 8/5/2025 10:07:29 AM

General Information

Secondary Commodities: gold, silver
Aliases: Freegold
Deposit Type(s): Epithermal Au-Ag: Low 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 the Seymour cl 1-44 (YA60053) in May 1981 by Arctic Red Resources Ltd and in 1985 by Chevron Minerals Ltd who carried out geochemical sampling and bedrock mapping.

In 1987, Chevron optioned its claims to Big Creek Joint Venture (Big Creek Resources Ltd. and Rexford Minerals Ltd.). Big Creek Resources Ltd. purchased the claims in the spring of 1990. Rinsey Mines Ltd. optioned Big Creek's claims in February 1991.

ATAC Resources re-staked the area in 1999 and conducted soil and rock geochemistry, prospecting and ground magnetic geophysical survey near the Jilly Bob showing. ATAC carried out soil and rock geochemistry in 2002 and 2004, as well as hand and mechanical trenching in 2004.

Northern Freegold Resources consolidated the claims in 2006 as part of their Golden Revenue property and performed a property wide VTEM and magnetic airborne survey, including the Jilly Bob occurrence. In 2013, Northern Freegold Resources carried out soil, silt and rock geochemistry, as well as mechanical trenching.

Triumph Gold acquired Northern Freegold Resources in 2015 and the property that includes the Jilly Bob occurrence is now termed 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 Jilly Bob showing was discovered in 2002 uphill from a gold soil anomaly. It consists of 070° striking, southeast dipping quartz veins hosted in silicified metasedimentary rocks and adjacent to quartz feldspar porphyry dykes. The quartz veins range from 0.1 m to 1.8 m wide and have been traced for 100 m along strike (Paulter, 2006; AR 094528).

Sampling in 2002 of drusy, pitted quartz float located along the road in the area returned 2 380 ppb Au, 2 374 ppm Ag, 7 610 ppm Pb, 2 900 ppm Bi and 490 ppm Sb. No outcrop exists in the area and only small fragments of highly decomposed wallrock float occur with the mineralized quartz (AR 091823).

Trenching and sampling in 2004 noted gold bearing quartz veins, as well as disseminated and fracture-fill mineralization (Paulter, 2006). Trenching results returned elevated gold and silver with TRS04-06: 3.25 g/t Au and 573 g/t Ag over 1.8m in TRS04-06; 0.228 g/t Au, and 142 g/t Ag over 0.7m in TRS04-07; 0.432 g/t Au and 9.83 g/t Ag over 7m, including 9.79 g/t Au and 106 g/t Ag over 0.1 m in TRS04-09 (AR 094528).

No significant results were noted in the 2013 trenching and sampling by Northern Freegold Resources.

Work History

Date	Work Type	Comment
12/13/2013	Geochemistry	Chip and grab samples.
12/13/2013	Geochemistry	And silt geochemistry.
12/13/2013	Trenching	
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.

12/13/2004	Geochemistry	Grab and chip samples from trenches.
12/13/2004	Geochemistry	
12/13/2004	Trenching	Four trenches.
12/13/2004	Trenching	
12/13/2002	Geochemistry	Grab sampling.
12/13/2002	Geochemistry	
12/13/1999	Geochemistry	Prospecting grab samples.
12/13/1999	Geochemistry	
12/13/1999	Ground Geophysics	
12/13/1985	Geochemistry	Prospecting grab samples.
12/13/1985	Geology	
12/13/1985	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)