



Occurrence Details

Occurrence Number: 115I 180

Occurrence Name: Porcupine

Occurrence Type: Hard-rock

Status: Showing

Date printed: 8/5/2025 8:28:13 AM

General Information

Secondary Commodities: gold

Deposit Type(s): Unknown

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

B. Harris staked the Rick claims in 1985 as part of the Goldstar property. The Guder and Harris claims were optioned in 1986 by Chevron Minerals Ltd and again in 1987 by Big Creek Joint Venture (Big Creek Resources Ltd and Rexford Minerals Ltd.). The claims were transferred back to Harris in September 1989.

Gagan Gold Corporation optioned the property in 1991. Redell Mining Corporation optioned the Goldstar property from Harris and Associates in August 1994. In September 1995, Pauline cl (YB37987) and Goldstar cl 1-3 (YB37988) were transferred to B. Harris. Redell Mining changed its name to FM Resources Corp. in 1998 and performed mechanical trenching at the Porcupine Zone in 1999.

In 2004, Midnight Mines Ltd. carried out prospecting, rock geochemistry of grab samples and bedrock mapping at the Porcupine Zone.

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 Porcupine Zone.

Triumph Gold acquired Northern Freegold Resources in 2015 and the property that includes the Porcupine Zone 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 Porcupine Zone is a historical gold showing. Outcrop and trenching has exposed large blocks of unfoliated quartz monzonite wall rock crosscut by quartz feldspar porphyry dykes at the Porcupine Zone. The wall rock is cut by quartz veins ranging from 2 mm to 20 cm wide with a coxcomb texture and thin, dark chalcedony veinlets along the margins. Mineralization occurs as finely disseminated pyrite where the wall rock is soft and weathered (AR 094709).

Work History

Date	Work Type	Comment
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2004	Geochemistry	Grab samples.
12/13/2004	Geology	
12/13/1999	Geochemistry	
12/13/1999	Trenching	

Related References

Number	Title	Page(s)	Reference Type	Document Type
2018-2	Bedrock geological map of the Mount Freegold district, Dawson Range		Yukon Geological Survey	Open File (Geological - Bedrock)