



Occurrence Details

Occurrence Number: 115I 052

Occurrence Name: Red Fox

Occurrence Type: Hard-rock

Status: Prospect

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General Information

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

Aliases: Vindicator, Freegold

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

Location(s): 62°17'54" N - -137°9'17" 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 Red Fox cl in 1931 and r-staked as the Vindicator cl (60422) in Jul y 1951 by P.F. Guder. Guder performed hand trenching, pitting and bulldozer trenching at intervals through to 1968. The showing was optioned in 1969 by Yukon Revenue ML, which conducted more mapping and sampling. Optioned again in 1973 by Prism Res L, which did limited surface work before transferring the option to Dynasty EL. Dynasty completed grid soil sampling, magnetic surveys, bulldozer trenching and 4 drill holes (317.6 m) in 1974.

The property was optioned from 1980 to 1982 by Arctic Red Resource Corp, which carried out limited mapping and geochemical sampling. A transfer of the claims to Guder Mg EL occurred in 1982. The claims were optioned 1986 by Chevron Mls L which carried out grid geochemical sampling, and in 1987 by Big Creek JV (Big Creek Res L & Rexford Mls L) which did bulldozer trenching. The claims were again transferred, this time to G. Harris, in September of 1989. Harris carried out a trenching program on the Vindicator claims in the fall of 1995.

In 1994, Midnight Sun Mines carried out bedrock mapping and grab sampling at the Red Fox occurrence. 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 Red Fox occurrence. In 2013, Northern Freegold Resources chip sampling and mechanical trenching at Red Fox.

Triumph Gold acquired Northern Freegold Resources in 2015 and the property that includes the Red Fox occurrence is now termed the Freegold Mountain Project. In 2019, Triumph Gold carried out trenching of 11 trenches (120 m) and geochemistry of chip samples taken within these trenches.

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 (Friend et al., 2018).

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

1. Early Jurassic Long Lake monzonite suites;
2. Mid- Cretaceous quartz feldspar and feldspar hornblende porphyry dykes;
3. Mid-Cretaceous Whitehorse biotite granite and quartz monzonite;
4. Late Cretaceous Casino quartz monzonite; and,
5. Late Cretaceous Prospector Mountain syenite.

Sulphide mineralization at the Red Fox occurrence is found within an east-trending quartz vein which parallels a porphyry dyke and cuts Paleozoic quartzite and quartzose gneisses (AR 094709).

Mineralization & Results

The quartz vein has been traced for about 30 m and may be an extension of the Margarete vein system to the southeast. It contains lenses of galena with minor sphalerite and chalcopyrite that vary in width from about 8 to 46 cm. The galena lenses are bordered by white quartz veinlets and bluish-grey quartz with minor sulphides.

A sample of massive galena assayed 4,457 g/t Ag, 62.0% Pb and 0.03% Zn. According to the GSC, P.H. Sevensma reported that a band of galena 15 to 20 cm wide assayed 5,862.7 g/t Ag and 70% Pb.

The Dynasty work was directed toward an extension of gold-magnetite skarns traced west from the Guder occurrence. No significant mineralization was obtained in the drill holes. One sample from a 1974 trench assayed 3.8 g/t Au and 617.1 g/t Ag over 1.2 m.

Trenching in 2013 did not yield significant results.

Work History

Date	Work Type	Comment
8/1/2020	Drilling	2 holes, 368.81 m
12/31/1995	Trenching	
12/31/1987	Trenching	
12/31/1986	Geochemistry	
12/31/1980	Geology	

12/31/1974	Drilling	Four holes, 317.6 m.
12/31/1974	Geology	
12/31/1974	Geochemistry	
12/31/1974	Ground Geophysics	
12/31/1974	Trenching	
12/31/1969	Geology	
12/31/1951	Trenching	
12/31/1951	Trenching	
12/13/2019	Geochemistry	
12/13/2019	Trenching	Eleven trenches totaling 120 m.
12/13/2013	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 samples.
12/13/2004	Geology	
12/13/1986	Geology	
12/13/1970	Airborne Geophysics	Property wide survey.
12/13/1970	Airborne Geophysics	Property wide survey.
12/13/1969	Geochemistry	Also rock sampling.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094745	2006	2006 Geophysical Assessment Report on the Freegold Mountain Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
094709	2004	2004 and 2005 Assessment Report on the Goldstar and Glen Property	Rock - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
093019	1991	Rotary Percussion Drilling and Trenching Assessment Report on the Goldstar Property	All Weather Road - Development, Surface, Reverse Circulation - Drilling, Drill Cuttings - Geochemistry, Rock - Geochemistry, Mechanical - Trenching	6	304.80
092699	1989	Trenching Program on the Goldstar Property	Rock - Geochemistry, Mechanical - Trenching		
092127	1987	Trenching, Geophysical and Diamond Drilling Program on the Goldstar Property	All Weather Road - Development, Surface, Diamond - Drilling, Rock - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Mechanical - Trenching	17	741.10
091896	1986	Report on Geological Mapping and Geochemical and Geophysical Surveys Done on the Goldstar Property	Soil - Geochemistry, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Prospecting - Other		
061154	1974	Application for Northern Mineral Assistance Grant Peg, Au, Ag, Add and Gold Star Claim Groups, Cat Trenching Report Gold Star Group	Mechanical - Trenching		
060200	1970	Report on the Geophysical and Geochemical Surveys Ram and Bow Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007859	Preliminary reconnaissance-type mapping - Freegold Mtn. - Job No. 06065-3		Property File Collection	Geoscience Map (General)
ARMC016627	Land and disposition and mineral deposits chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (General)
ARMC016626	Geology and mineralization chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (Geological - Bedrock)
BROCK000144	Northern mineral assistance grant report on 1974 field work (Gold Star, PEG, ADD, Au, and AG groups)		Property File Collection	Report
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
YEG2018_2	Preliminary observations of the Bouvette Formation at Nadaleen Mountain, Yukon (NTS 106C/2, 3)		Yukon Geological Survey	Annual Report Paper