



Occurrence Details

Occurrence Number: 115I 042

Occurrence Name: Revenue

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: copper, gold, molybdenum, silver, tungsten

Aliases: Golden Revenue, Freegold

Deposit Type(s): Porphyry Cu-Mo-Au

Location(s): 62°19'31" N - -137°16'9" W

NTS Mapsheet(s): 115I06

Location Comments: Coordinates provided by Triumph Gold in 2020.

Hand Samples Available: Yes

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 on a copper showing he explored that year with a shallow shaft and adit. The property was optioned by Conwest Exploration Ltd, which carried out EM and resistivity surveys in 1951. Guder re-staked it as Revenue Copper cl 1-8 (67180) in 1953 and tied on Addition cl 1-2 (68060) to the south in 1954. The claims were subsequently optioned by Teck Exploration Company Ltd., which drilled 5 holes (427 m) in 1954 and by Asbestos Corporation, which carried out geochemical surveying in 1959. Guder tied on Addition cl 3-4 (74488) to the west in 1959 and Addition cl 5 (75323) to the west and Homestake cl 1-2 (75321) to the south in 1960. The claims were then optioned by the Meridian Syndicate (Canex Aerial Exploration Ltd., Noranda Exploration Company Ltd. and Homestake Mining Company), which drilled 3 holes (165 m) and carried out geochemical surveying in 1964 and by General Enterprises Ltd in 1967. Between 1967 and 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 and carried out road building, bulldozer trenching, geochemical sampling, IP surveying and drilled 10 holes (1 268 m) in 1968 and 1969.

Optioned in 1970 by Kaiser Resources Ltd., which carried out grid soil sampling, IP surveying and drilled 20 percussion holes (1 817 m) and 9 diamond drill holes (1 212 m). The property reverted to Yukon Revenue, which carried out bulldozer trenching in 1974, 1978 and 1979 and drilled 3 holes (179.6 m) in 1980. In 1983, the property was optioned to Shakwak Exploration Company Ltd., which carried out geochemical, magnetic and EM surveying later in the year and drilled 9 holes (625 m) in 1984.

Nordac Mining Corporation acquired Shakwak's interest in 1985 and carried out grid soil sampling and excavator trenching that year and in 1986. Nordac staked Bit cl 1F-18F (YA95206) to cover exposed fraction within the claim group in July 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), carried out machine trenching, VLF-EM and magnetometer surveying in 1987 and drilled 2 holes (295.6 m) in 1988. Big Creek purchased Rexford's interest in 1989 and drilled 11 holes (1 018 m) in 1991.

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 and carried out magnetometer and VLF-EM surveying that year and in 1998.

In 1999, ATAC Resources Ltd. optioned the Revenue claims from YKR and tied on Nuc cl 1-7 (YC09279) to the north. At the same time, ATAC 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 geological mapping, prospecting, soil sampling, magnetometer surveying and hand trenching during 1999. ATAC performed soil geochemistry in 2001 at Revenue.

The Golden Revenue property was further consolidated in 2006 by Northern Freegold Resources. Northern Freegold Resources performed a property wide VTEM and magnetic airborne survey in 2006. The company also carried out silt geochemistry, bedrock mapping and magnetic and gamma-ray surveys in 2009; RC drilling (40 holes, 5 634 m), rock and soil geochemistry and a TITAN IP survey in 2010; and diamond drilling of 13 holes in 2011.

Northern Freegold released the technical report for the Preliminary Economic Assessment (NI 43-101 compliant) for both the Nucleus and Revenue deposits on April 09 2013 (GeoVector Management, 2013).

A revised resource estimate was released by Northern Freegold in a February 28, 2015 report by GeoVector Management Inc.

Triumph Gold acquired Northern Freegold Resources in 2015 and carried out a re-logging program in 2016 at Revenue. Triumph carried out diamond drilling (18 holes, 7 615 m) and rock geochemistry in 2017; soil geochemistry, rock sampling and ground magnetic and IP geophysics in 2018; and diamond drilling (7 holes, 5 557 m) in 2019. In 2020, Triumph released an updated, NI 43-101 compliant resource estimate on March 27, 2020 prepared by R. Sim and B. Davis.

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 (Allan & 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 dominant rock type in the Revenue deposit is Mid-Cretaceous granodiorite intruded by an east-trending ovoid breccia-body approximately 1000 m long by 500 m wide. The breccia body consists of clast-supported, quartz feldspar breccia tuff typically altered to clay and carbonate (Davis & Sim, 2020).

Mineralization & Results

Mineralization at the Revenue deposit occurs as porphyry-style stockwork veins and disseminated pyrite and chalcopyrite in potassically altered granodiorite and, to a lesser extent, Revenue breccia. Mineralization is concentrated along the contact between the granodiorite and breccia; however, increased gold and copper values are also present in zones of increased faulting and at the margins of

quartz-feldspar porphyry dykes (AR 097175).
A 6 100 m x 1 500 m zone of anomalous Cu-Au soil geochemistry extends across onto the adjoining Nucleus (MINFILE occurrence 115I 107) property. Most of the drilling prior to 1967 was near the original Discovery Zone, where copper and gold mineralization occurs over a width of 90 m along a 70 south-dipping contact between a 1 500 x 360 m breccia zone and quartz monzonite. Guder's adit reportedly cut a zone 5 m wide that assayed 15% Cu and 15.6 g/t Au.

Subsequent geochemical surveys outlined a copper anomaly with erratic molybdenum response to the south, exceeding 1 200 by 1 000 m in area, in which most of the Yukon Revenue and Kaiser holes were drilled. The best intersection obtained by Yukon Revenue was 0.12% Cu and 0.03 MoS2 over 40 m. Kaiser's assays ranged between 0.02% and 0.05% Cu with a trace of molybdenum. Hydrothermal alteration is fairly weak except near the Discovery Zone, where propylitic and argillic zones are strong and phyllic alteration has been recognized. Trenching nearby in 1978 cut a zone assaying 12.5 g/t Au, 62.4 g/t Ag and 0.28% WO3 across 3.3 m, plus a second zone, in altered granodiorite about 1 500 m away, that assayed 0.30% WO3 across a 25 m channel sample.

Two of the 1984 holes were drilled near the Discovery Zone, while the other seven tested a 3 000 m long zone of brecciated rhyolite that lies southwest of the Discovery Zone and consists of scattered exposures (Zones 2, 2A, 3, 4). The best results were obtained from Holes 84-5, -7 and -9, which were all drilled on Zone 2A. Hole 84-5 intersected 7.6 m grading 2.54 g/t Au, 18.9 g/t Ag and 0.72% Cu; Hole 84-7 intersected 7.0 m grading 4.46 g/t Au, 22.3 g/t Ag, 1.02% Cu and 0.14% W; and Hole 84-9 returned 3.0 m grading 12.69 g/t Ag and 0.20% W.

The 1987 trenching exposed a new mineralized zone (Grange; MINFILE occurrence 115I 193) that had been outlined by gold soil geochemistry, northwest of the Discovery Zone.

The 1991 drilling tested for supergene enrichment below the leached cap encountered in earlier drill holes. Two of the four holes intersected significant mineralization, including 1.03 g/t Au and 0.28% Cu over 38.3 m in DR91-1 and 0.14g/t Au and 0.18% Cu over 22.9 m in DR91-2.

Sampling in 1999 served to confirm the results of previous sampling of the various zones and tested for gold anomalies that are coincident with high levels of associated arsenic and bismuth, which are pathfinders for intrusive related gold systems.

Drilling in 2010 by Northern Freegold Resources returned several significant results, including: 1.83 g/t Au, 10.46 g/t Ag, 0.62% Cu, 57.8 ppm Mo, and 262.1 ppm W over 5.65 m in RVD10-10; 0.12 g/t Au, 1.89 g/t Ag, 0.08% Cu, 51.4 ppm Mo, and 115.3 ppm W over 27.25 m in RVD10-011; and 0.15 g/t Au, 1.63 g/t Ag, 0.08% Cu and 56.7 ppm Mo over 7.85 m in RVD10-013.

Diamond drilling in 2017 by Triumph Gold intersected strong Cu-Au mineralization, including: 0.971 g/t Au, 7.38 g/t Ag, 0.218% Cu and 0.014% Mo over 58.65 m in RVD17-12 and 1.06 g/t Au, 2.16 g/t Ag, 0.083% Cu and 0.0007% Mo over 30 m in RVD17-10 (Triumph Gold, MD&A, 28 Nov/2017).

Triumph Gold's 2018 diamond drilling program delineated several zones of high-grade mineralization, including the Blue Sky zone (MINFIEL occurrence 115I 198) and the WAu breccia (MINFILE occurrence 115I 197).

Work History

Date	Work Type	Comment
4/9/2013	Studies	GeoVector Management, 2013.
12/31/1999	Geology	
12/31/1999	Geochemistry	
12/31/1999	Ground Geophysics	
12/31/1999	Trenching	
12/31/1999	Other	
12/31/1998	Ground Geophysics	Also VLF-EM surveys.
12/31/1991	Drilling	Eleven holes, 1,018 m.
12/31/1988	Drilling	Two holes, 295.6 m.
12/31/1987	Ground Geophysics	Also VLF survey.
12/31/1987	Trenching	
12/31/1985	Geochemistry	
12/31/1985	Trenching	
12/31/1984	Drilling	Nine holes, 625 m.
12/31/1983	Pre-existing Data	
12/31/1983	Ground Geophysics	Also magnetic survey.
12/31/1978	Trenching	
12/31/1974	Trenching	
12/31/1970	Drilling	Thirteen holes, 1,212 m.
12/31/1970	Drilling	Twenty-five holes, 1,817 m.
12/31/1967	Drilling	Ten holes, 1,268 m.
12/31/1967	Development, Surface	
12/31/1959	Geochemistry	Also silt sampling.
12/31/1954	Drilling	Five holes, 427 m.
12/31/1950	Development, Underground	Shallow drifting & shafting.
12/31/1950	Other	First claims staked.
12/31/1934	Other	Gunder discovered gold-quartz float.

12/13/2020	Studies	Updated resource estimate prepared by R. Sim and B. Davis, March 27, 2020.
12/13/2019	Drilling	Seven holes, 5 557 m.
12/13/2019	Geochemistry	
12/13/2018	Geochemistry	Grab sampling.
12/13/2018	Geochemistry	
12/13/2018	Ground Geophysics	
12/13/2018	Ground Geophysics	
12/13/2017	Geochemistry	Grab sampling.
12/13/2017	Drilling	Eighteen holes, 7 615 m.
12/13/2017	Geochemistry	
12/13/2016	Other	Core relogging program.
12/13/2015	Studies	Updated resource estimate. GeoVector Management Inc, Feb 28, 2015.
12/13/2011	Drilling	
12/13/2010	Geochemistry	And RC chip sampling.
12/13/2010	Geochemistry	
12/13/2010	Drilling	Forty holes, 5,634 m.
12/13/2010	Ground Geophysics	TITAN survey.
12/13/2009	Geology	
12/13/2009	Geochemistry	
12/13/2009	Ground Geophysics	And gamma-ray spectrometry.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2006	Airborne Geophysics	Property wide survey.
12/13/2001	Geochemistry	
12/13/1982	Drilling	Three holes, 174 m.
12/13/1970	Geochemistry	
12/13/1970	Trenching	
12/13/1968	Ground Geophysics	Also EM survey.
12/13/1965	Drilling	Three holes, 165 m.
12/13/1964	Geochemistry	
12/13/1951	Ground Geophysics	Also resistivity survey.

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		
094539	2004	Diamond Drilling at the Golden Revenue Property Big Creek, Nucleus, and Revenue Claim Blocks	Diamond - Drilling, Drill Core - Geochemistry	14	1832
094191	2001	Linecutting, Road Building and Excavator Trenching on the Revenue Property	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Line Cutting - Other, Mechanical - Trenching		
094256	2001	Diamond Drilling, Excavator Trenching, and Geophysical Surveys on the Golden Revenue Property	Diamond - Drilling, Drill Core - Geochemistry, IP - Ground Geophysics, Prospecting - Other, Mechanical - Trenching	6	1202
094102	1999	Geological Mapping, Prospecting, Soil Geochemistry, Hand Trenching, and Ground Magnetic Surveys on the Golden Revenue Property	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Prospecting - Other, Hand - Trenching		
093742	1997	Compilation Report on the Revenue Creek Property	Data Compilation - Pre-existing Data		
092131	1987	Report on Trenching Program and Geophysical Survey Revenue Property Revenue Creek	Rock - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Mechanical - Trenching		
091804	1985	Geological and Geochemical Report on the NUCLEUS Property	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Property Evaluation - Other, Prospecting - Other, Mechanical - Trenching		
062183	1983	Preliminary Evaluation Report on the Revenue Creek Property	Preliminary Economic Assessment - Studies		

060200	1970	Report on the Geophysical and Geochemical Surveys Ram and Bow Claim Groups	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry		
060739	1954	Geophysical Tests and Survey on the Property of Revenue Copper Group, Big Creek Area	EM - Ground Geophysics, Magnetics - Ground Geophysics, Resistivity - Ground Geophysics, Self-Potential - Ground Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC008517	Fact sheet - Revenue-nucleus Cu+Au porphyry		Property File Collection	News Release
ARMC012155	Report on induced polarization survey, Carmacks area, Yukon - On behalf of Yukon Revenue Mines Ltd.		Property File Collection	Report
ARMC012153	1988 diamond drill core logs - 88G-01 to 88G-05 - Grum		Property File Collection	Drill Logs
ARMC016627	Land and disposition and mineral deposits chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (General)
ARMC012156	Geological report on the Yukon Revenue property, Carmacks, Y.T. (formely Revenue Copper)		Property File Collection	Report
ARMC012157	Final report - Revenue Creek prospect		Property File Collection	Report
ARMC016626	Geology and mineralization chart - Freegold - Big Creek area		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012158	Diamond drill logs - T-1, 68-1 to 68-5; 69-1 to 69-4 - Yukon Revenue property		Property File Collection	Drill Logs

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
2013	Revenue- in pit (Open Pit)	Inferred	copper	.129 %	61,995,000	80240030	Yes	Yes	pit-optimized
GeoVector Management, PEA, April 09 2013.									
2013	Revenue-in pit (Open Pit)	Inferred	molybdenum	.042 %	61,995,000	11834700	Yes	Yes	pit-optimized
GeoVector Management, PEA, April 09 2013.									
2013	Revenue- in pit (Open Pit)	Inferred	silver	3.18 g/t	61,995,000	197165000	Yes	Yes	pit-optimized
GeoVector Management, PEA. April 09, 2013.									
2013	Revenue- In pit (Open Pit)	Inferred	gold	.374 g/t	61,995,000	23203000	Yes	Yes	pit-optimized
GeoVector Management, PEA, April 09 2013.									
2012	Revenue (Open Pit)	Inferred	copper	.13 %	100,983,062	130122585	Yes	Yes	0.5g/t AuEq
GeoVector Management, Feb 22 2013 and March 03 2012.									
2012	Revenue (Open Pit)	Inferred	molybdenum	.04 %	100,983,062	40644567	Yes	Yes	0.5g/t AuEq
GeoVector Management, Feb 22 2013 and March 03 2012.									
2012	Revenue (Open Pit)	Inferred	silver	3.14 g/t	100,983,062	317077700	Yes	Yes	0.5g/t AuEq
GeoVector Management, Feb 22 2013 and March 03 2012.									
2012	Revenue (Open Pit)	Inferred	gold	.34 g/t	100,983,062	34808600	Yes	Yes	0.5g/t AuEq
GeoVector Management, Feb 22 2013 and March 03 2012.									

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
JB-1	Revenue	1984	NQ	0	0
JB-2	Revenue	1984	NQ	0	0
JB-4	Revenue	1984	NQ	0	0
JB-5	Revenue	1984	NQ	0	0
S-84-1	Revenue	1984	HQ	12	0
S-84-2	Revenue	1984	HQ	18	0
S-84-5	Revenue	1984	HQ	0	0
S-84-7	Revenue	1984	HQ	10	0