



Occurrence Details

Occurrence Number: 1150 178
Occurrence Name: Big Alex
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 4/29/2025 2:25:34 AM

General Information

Secondary Commodities: antimony, gold, molybdenum

Deposit Type(s): Orogenic Au, Vein Au-Quartz

Location(s): 63°1'23.06" N - -138°36'3.86" W

NTS Mapsheet(s): 115002

Location Comments: Location marks highest recorded gold-in-soil geochemical result.

Hand Samples Available: No

Last Reviewed:

Capsule

WORK HISTORY

Staked as Rum Run cl 1-20 (YC17658) in Sep/99 by G.G. Richards who collected reconnaissance rock and soil samples while staking the claims.

In Jun/2000 Richards staked Rum Run cl 21-40 (YC17677) to the south and cl 41-50 (YC20212) and cl 53-59 (YC20222) 2 km to the southeast. During the 2000 field season Richards carried out geological mapping, contour soil sampling and limited rock chip sampling on all of the Rum Run claims.

Richards carried out addition geological mapping, soil and rock sampling programs in 2001, 2003 and 2005 and limited ground magnetics and VLF geophysical programs in 2003 and 2005.

In Oct 2007 Richards staked Cigar cl 1-12 (YC63021) north of Rum Run claims 1-20. In Aug/2009 Richards carried out contour soil sampling over parts of the Cigar and Rum Run claim blocks.

In Sep/2009 Pacific Ridge Exploration Ltd optioned a package of 203 mineral claims commonly referred to as the Mariposa Gold property from G.G. Richards for cash, claims and certain work commitments. The Mariposa Gold property includes the Rum Run and Cab claims and the area surrounding this occurrence.

In the fall of 2009 Pacific Ridge carried out reconnaissance scale soil sampling over the entire block of optioned claims to verify Richards previous results.

In 2010 as part of a larger property wide exploration program Pacific Ridge prospected, rock sampled and grid soil sampled the area covering Rum Run claims 3-19. In Aug/2010 the company staked Cab cl 1-30 (YD07758) west of Rum Run claims.

In the spring of 2011 Pacific Ridge flew an airborne magnetometer survey over the occurrence area. Although Pacific Ridge Exploration carried out a large exploration program in 2011 including drill testing numerous anomalies, the area surrounding this occurrence (the Big Alex gold-in-soil anomaly) only received limited work.

In Apr/2012 Pacific Ridge Exploration announced its 2012 exploration program which included infill soil geochemistry, ground geophysical surveys and prospecting of the Big Alex gold-in-soil anomaly (this occurrence).

GEOLOGY

The area is located approximately 120 km south of the town of Dawson City, along the southern half of the Scroggie Creek drainage in west-central Yukon. The occurrence lies near the southern boundary of NTS map sheet 115N&O which was recently remapped by S. Gordey and J. Ryan (2004 and 2005) of the Geological Survey of Canada. Ryan and Gordey and others have recently finished remapping NTS map sheet 115J & K (the map sheet lying immediately south of the occurrence) and are in the final stages of releasing their results (tentatively 2012).

The occurrence area covers Rum Run claims 1-40 which lie on the west side of Scroggie Creek. The area is believed to be underlain by a Devonian to Mississippian age sequence of quartz mica schist, amphibolite, orthogneiss and other metavolcanic rocks. The northern half of the Rum Run claims (claims 1-20 – this occurrence) are intruded by a large Early Jurassic granitic batholith described by Gordey and Ryan of the Geological Survey of Canada as a composite intrusive complex comprised of many phases which exhibit diffuse contacts with the country rocks. A poorly defined body of pegmatite occurs in the Camp Creek – (occurrence) area within the batholith.

Exploration results for Rum Run claims 21-40 are covered by Minfile Occurrence #1150 177.

G.G. Richards the owner of the Rum Run and other claims, placer mined along Scroggie Creek during the 1980's. Richards staked his claims to try and located the source of placer gold occurring in the Scroggie Creek drainage. Richards spent the 1990's systematically exploring and sampling Rum Run claims 1-20. Geological mapping outlined a body of pegmatite underlying the occurrence area which Richards named the Pegmatite Zone. Gold mineralization is associated with pegmatite dykes located within this zone. The best result obtained by Richards (3020 ppb gold) was obtained from very fine grained sulfide layers occurring in quartz breccias phases of pegmatite dykes cutting foliated medium-grained hornblende granodiorite. Soil sampling returned numerous spot anomalies while geophysics outlined the general trend of various fault zones.

Following Pacific Ridge Exploration's execution of an option agreement with G. G. Richards, the company carried out a late season ridge and spur deep auger soil sampling program to verify Richards' earlier results. The program's results generally confirmed Richards' results.

Pacific Ridge's 2010 ground exploration program was focused on the Scroggie and Mariposa Creek areas. Grid soil sampling outlined five main gold in-soil anomalies; Skookum Jim, Hackly, Gertie, Maisy May and Big Alex (this occurrence). The Big Alex gold-in-soil anomaly measures approximately 1 km long by 0.5 km wide and trends north-south parallel to Scroggie Creek. Based on limited information the anomaly consists of two zones of anomalous gold in soils centred at the north and south ends of the anomaly. Limited geological mapping and prospecting show that the zones are underlain by pegmatite dykes. Gold-in-soil values range to 203 ppb gold with elevated values of antimony and molybdenum. Chip sampling southeast of the southern anomaly returned 3.0 g/t gold from pyritic quartz breccia within pegmatite dykes and granite bedrock exposed by placer mining. Placer miners working in the vicinity of the anomaly have recovered gold in quartz nuggets.

The 2011 airborne geophysical survey shows that the Big Alex soil anomaly overlies a magnetic low flanked on either side by north-south trending magnetic highs which likely represent

structural faults which may provide ground preparations that are favourable for the migration of gold-bearing fluids and the deposition of gold. The faults are part of property wide network of structures which collectively make up the Mariposa fault.

G.G. Richards and Pacific Ridge Exploration theorized that the gold associated with the Big Alex anomaly was likely associated with the pegmatite dykes underlying the area and thus limited in extent. Therefore the company elected to concentrate their efforts on more promising areas of the Mariposa Gold property with the intent of returning to the anomaly as time and money allowed.

REFERENCES

GORDEY, S.P. AND RYAN, J.J. 2005. Geology, Stewart River Area (115N, 115 O and part of 115J), Yukon Territory; Geological Survey of Canada, Open File 4970, scale 1:250 000.

PACIFIC RIDGE EXPLORATION LTD, Feb/2011. Assessment Report #095527 by J. Fingler.

PACIFIC RIDGE EXPLORATION LTD, News Release. 23 Sep/2009, 7 Dec/2009, 20 Apr/2010, 17 Aug/2010, 2 Mar/2011, 13 Apr/2011, 11 Apr/2012.

PACIFIC RIDGE EXPLORATION LTD, Apr/2011. Web Site: www.pacificridgeexploration.com.

RICHARDS, G.G. May/2001. Assessment Report #094228 by G.G. Richards.

RICHARDS, G.G. Nov/2001. Assessment Report #094250 by G.G. Richards.

RICHARDS, G.G. May/2004. Assessment Report #094481 by G.G. Richards.

RICHARDS, G.G. Dec/2005. Assessment Report #094679 by G.G. Richards.

RICHARDS, G.G. Feb/2010. Assessment Report #095249 by G.G. Richards.

RICHARDS, G.G. AND PACIFIC RIDGE EXPLORATION LTD. Dec/2010. Assessment Report #095337 by G. Norman.

RYAN, J.J. AND GORDEY, S.P. 2002. Bedrock geology of Yukon-Tanana terrane in southern Stewart River map area, Yukon Territory. Geological Survey of Canada, Current Research 2002-A1, 11 p.

RYAN, J.J. ET AL., 2003. Update on bedrock geological mapping of the Yukon-Tanana terrane, southern Stewart River map area, Yukon Territory. Geological Survey of Canada. Current Research 2003-A9, 7 p.

Ryan, J.J. AND GORDEY, S.P., 2004; Geology Stewart River Area (Parts of 115N/1,2,7,8 and 115O/2- 12), Yukon Territory; Geological Survey of Canada, Open file 4641, scale 1:100 000.

YUKON EXPLORATION AND GEOLOGY OVERVIEW 2010, p. 29, 60; 2011, p. 46-45, 65, 72.

Work History

Date	Work Type	Comment
8/30/2009	Geochemistry	Contour soil sampling carried out before Pacific Ridge Exploration optioned claims. Pacific Ridge carried reconnaissance soil sampling after optioning property to verify G.G. Richards earlier results.
4/30/2011	Airborne Geophysics	Airborne magnetic survey flown over Rum Run claims.
12/31/2010	Geochemistry	Chip sampled on Rum Run claims.
12/31/2010	Geochemistry	Grid soil sampled Rum Run claims.
12/31/2010	Other	Carried out prospecting across Rum Run claims.
12/31/2005	Geology	Geological mapping carried out in 2001, 2003 and 2005
12/31/2005	Geochemistry	Additional soil sampling carried out in 2001, 2003 and 2005.
12/31/2005	Ground Geophysics	Ground magnetic and VLF survey carried out in 2003 and 2005.
12/31/2000	Geochemistry	Limited rock chip sampling carried out on all Rum Run claims.
12/31/2000	Geology	Carried out on all Rum Run claims.
12/31/2000	Geochemistry	Contour sampling, carried out on all Rum Run claims.
12/31/1999	Geochemistry	Reconnaissance scale.
12/31/1999	Geochemistry	Reconnaissance scale.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097277	2017	Technical Report on the Mariposa Project in the White Gold District, Yukon Territory	All Weather Road - Development, Surface, Rock - Geochemistry, Mechanical - Trenching		
096551	2012	2011-2012 Soil Geochemical, Trenching and Diamond Drilling Assessment Report	Diamond - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Drill Core - Geochemistry, Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Magnetics - Ground Geophysics, Magnetics - Ground Geophysics, Backhoe - Trenching, Backhoe - Trenching	28	5250

095949	2011	2011 Airborne Geophysical Survey Report on the Mariposa Property	Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
095527	2010	2010 Soil Geochemical Assesment Report on the MARIPOSA Property	Soil - Geochemistry, Soil - Geochemistry, Soil - Geochemistry		
095249	2009	Geochemical Report on the Mariposa Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other, Data Compilation - Pre-existing Data		
095337	2009	Ridge and Spur Soil Geochemical Assessment Report on the Mariposa Property	Soil - Geochemistry		
094679	2005	Geophysical Report on the Rum Run Property	Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
094481	2003	Geochemical Geological Report on the Rum Run Property	Rock - Geochemistry, Soil - Geochemistry, Magnetics - Ground Geophysics		
094250	2001	Geochemical Geological Report on the Rum Run Property	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other, Prospecting - Other		
094229	2000	Geochemical Geological Report on the Rum Run Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
094228	2000	Geochemical Geological Report on the Rum Run Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
094227	2000	Geochemical Geological Report on the Rum Run Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
2003-9(D)	Yukon Digital Geology (version 2)		Yukon Geological Survey	Open File (Geological - Bedrock)