



Occurrence Details

Occurrence Number: 106D 084

Occurrence Name: Blue Lite

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 8/5/2025 10:07:32 AM

General Information

Secondary Commodities: copper, tin, tungsten

Aliases: Rau, Rackla

Deposit Type(s): Skarn W

Location(s): 64°13'39.83" N - -134°19'38.25" W

NTS Mapsheet(s): 106D01

Location Comments: Coordinates supplied by ATAC 2019

Hand Samples Available: No

Last Reviewed: Sep 20, 2013

Capsule

Work History

Staked within Blue Lite cl 1-128 (YA40742) in August, 1979 by the Prism Joint Venture 1979 (Asamera Development Corporation Ltd., Chieftain Development Company Ltd., Prism Resources Ltd., Dome Petroleum Ltd. and E & B Explorations Ltd.). The claim block also covers the Flat Top (formerly Flat Ridge) occurrence (MINFILE occurrence 106D 005) located 2.5 km to the southwest.

In 1979, the group carried out regional geological mapping, rock sampling, and regional and grid based soil sampling programs. The company also collared one diamond drill hole (140 m) on the occurrence. In 1980, the group carried out detailed geological mapping and a large regional stream sediment sampling program.

Re-staked as BL cl 1-6 (YA77639) in September, 1984 by Prism Resources Ltd.

Re-staked within R cl 1-1 295 (YC68334) in July, 2008 by ATAC Resources Ltd. Later in the summer the company flew a property wide helicopter-borne magnetic and variable time-domain electromagnetic (VTEM) survey and carried out a regional stream sediment program, which included the area surround this occurrence.

In 2009, ATAC Resources systematically stream sampled all the major streams flowing downhill of the occurrence. The company collected rock samples from the occurrence and where possible any outcrops surrounding the occurrence. In addition, the company collected a line of soil samples across the northern side of the occurrence.

In 2010, ATAC Resources collected two lines of contour soil samples (sample spacing = 100 m) down slope from the occurrence. Follow-up soil sampling was performed in 2011 by ATAC Resources and prospecting in 2013. A small soil sampling program was performed in 2015.

Regional & Property Geology

The occurrence lies on the north side of a mountain peak (that Prism Resources informally named Blue Mountain) and at the headwaters of an unnamed creek which flows north into a small lake lying west of the main body of Kathleen Lakes. L.H. Green of the Geological Survey of Canada mapped the area at 1:250 000 scale in 1961 as part of a helicopter-supported party known as "Operation Ogilvie". The area was remapped by Abbott (1990) in the 1980's as part of a cooperative project between Exploration and Geological Services Division (now part of the Yukon Geological Survey) and the Geological Survey of Canada (GSC). Gordey and Roots (1990) of the GSC, remapped maps sheets 105M16 and 106D08 & 07 East respectively at the same time. Roots (1997) under contract with the Exploration and Geological Services Division also remapped topographic map sheet 105M located directly to the south in the mid-1990's. In 2003, Gordey and Makepeace released a geological compilation of the Yukon which covered this area.

The Blue Lite prospect lies with the Rau Trend between the Dawson and Kathleen Lakes thrusts, which form part of a band of regional-scale thrust faults that imbricate rocks of Mackenzie Platform and Selwyn Basin. The occurrence area lies on the western margin of ancestral North America and is underlain primarily by shallow water carbonate and clastic sediment rocks of the Mid-Proterozoic to Paleozoic Mackenzie Platform and the Neo-Proterozoic to Paleozoic, regionally metamorphosed Selwyn Basin clastic rocks. These rocks formed a fault-bounded sediment package which was thrust northeasterly during Jurassic to Cretaceous times by the Dawson and Kathleen Lakes thrust faults onto predominantly Proterozoic rocks. Following thrust faulting, Late Cretaceous (94-90 million years) intermediate to felsic plutons of the Tombstone Suite were emplaced (Mortensen et al., 2000). A second compressional orogenic event around 65 million years saw the emplacement of felsic intrusives assigned to the McQuesten Suite.

Other than the immediate area surrounding the Tiger deposit (MINFILE occurrence 106D 098), the occurrence area has not been geologically mapped in detail. ATAC Resources (AR 096936) has mapped 3 main units in the area comprising the Rau Trend:

1. Cambrian to Ordovician massive, grey dolostone,
2. Ordovician and/or Silurian bedded, grey and buff silty limestone and massive white limestone, and
3. Silurian to Devonian thick, bedded dolostone and limestone.

The company has assigned all three units to the Cambrian to Devonian Bouvette Formation. Colpron's 2013 geological map generally supports this interpretation; however it uses slightly different age dates and doesn't include the oldest rocks (Cambrian to Ordovician dolostones) within the Bouvette formation.

Thin volcanoclastic horizons assigned to the Ordovician Marmot Formation are interbedded with the Ordovician and/or Silurian limestones and a narrow sliver of Mid-Proterozoic Fifteen Mile Group dolostone underlies the Bouvette Formation rocks to the southwest. Devonian and Mississippian Earn Group comprised of black shale and chert bounds the Bouvette Formation to the south east and north in the southern half of the Rau Trend property.

Mineralization at the Rau Trend varies and consists mainly of: sediment-hosted replacement-style Au; structurally hosted Ag-Pb-Zn; skarns; Au-bearing quartz veins; and transported gossans/unknown deposit style (AR 096936).

Mineralization & Results

The Blue Lite occurrence covers skarn mineralization exposed in a cliff face on the north side of a prominent peak. Mineralization consists of scheelite as disseminations with massive pyrrhotite and minor chalcopyrite. The mineralization disappears under talus to the east and grass to the west and is located along a high angle normal fault that dips south. This fault marks the contact between Devonian to Mississippian clastics to the north and Devonian to Jurassic clastics to the south.

Rock samples collected by Prism Resources returned up to 4.3% tungsten but generally averaged between 0.02% and 0.08% tungsten. The 1979 diamond drill hole tested the mineralization and intersected 43 m of skarn estimated to average 2% pyrrhotite with minor scheelite and chalcopyrite throughout. The best intervals assayed 0.5% copper, 0.02% tungsten) and 0.02% tin across 1.8 m and 0.2% copper, 0.08% tungsten and 0.02% tin across 0.9 m.

In 2009, ATAC Resources collected rock samples from the exposed mineralized area and surrounding accessible outcrops. Three samples returned greater than 0.10% tungsten with a peak of 0.34%. Most of the other samples ranged from 200 ppm to 950 ppm tungsten while gold values were all below background, with a peak of 9 ppb Au. Soil sampling carried out over 2010 and 2011 outlined a 200 m long cluster of anomalous gold and bismuth values surrounding the occurrence.

In 2013, ATAC Resources performed prospecting along the skarn horizon with an emphasis on gold. Samples of oxidized skarn returned up to 2.18 g/t Au.

A small soil sampling program was performed in 2015.

Work History

Date	Work Type	Comment
6/1/2019	Geochemistry	
6/1/2019	Other	
12/31/1980	Geochemistry	Regional program.
12/31/1980	Geology	
12/31/1979	Drilling	One hole, 140 m.
12/31/1979	Geochemistry	Regional in scale.
12/31/1979	Geology	Regional in scale.
12/13/2015	Geochemistry	
12/13/2013	Other	
12/13/2011	Geochemistry	
12/13/2010	Geochemistry	Collected two lines down slope of occurrence.
12/13/2009	Geochemistry	Sampled occurrence and surrounding outcrops.
12/13/2009	Geochemistry	Collected line across northern side of occurrence.
12/13/2008	Airborne Geophysics	Also flew magnetics survey.
12/13/2008	Geochemistry	Regional program included occurrence area.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096939	2015	Technical Report and Preliminary Economic Assessment for the Tiger Deposit, Rackla Gold Project	VTEM - Airborne Geophysics, ZTEM - Airborne Geophysics, Mill/Concentrator Construction - Development, Surface, Tailings Pond - Development, Surface, Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Gravity Survey - Ground Geophysics, IP - Ground Geophysics, Resistivity - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Data Compilation - Pre-existing Data, Environmental Assessment/Impact - Studies, Preliminary Economic Assessment - Studies, Resource Estimate - Studies	150	26846.60
096732	2014	Assessment Report Describing Metallurgical Test Pits, Metallurgical Auger Drilling, Geotechnical Auger Drilling, Geotechnical Study, Environmental Baseline Studies, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Auger - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	9	96.77
096728	2013	Assessment Report Describing Geochemical Sampling, Hand Trenching, Prospecting and Geological Mapping at the Rau Trend	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Hand - Trenching		
096607	2012	Assessment Report Describing Metallurgical Testing, Wildlife Monitoring, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
096597	2012	Assessment Report Describing Geochemical Sampling, Auger Sampling, Geological Mapping, Diamond Drilling, and Geophysical Surveys	Air Strip - Development, Surface, Auger - Drilling, Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetism - Ground Geophysics, Prospecting - Other, Hand - Trenching	172	37340.37
095938	2011	Assessment Report Describing Geochemical Sampling, Geological Mapping and Remote Sensing Surveys at the Rackla Gold Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, LIDAR - Remote Sensing, Heritage/Archeological - Studies		
095721	2010	Assessment Report Describing Geophysics, Soil Geochemistry and Diamond Drilling at the Rau Property	Electromagnetic - Airborne Geophysics, Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Downhole Survey - Ground Geophysics, Gravity Survey - Ground Geophysics, IP - Ground Geophysics	170	36900.84
			Interpretation - Airphotography, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Water -		

095684	2009	Geological Mapping, Prospecting, Soil Geochemistry and Diamond Drilling at the Rau Property	Geochemistry, Regional Surficial Mapping - Geology, IP - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	58	9578.30
095131	2008	Geological Mapping, Prospecting, Soil Geochemistry, Diamond Drilling, and Geophysical Surveys at the Rau Property	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	18	3423.21
093987	1998	Digital Topography, Landsat, and Colour Air Photo Survey over the Clark Claims]	Orthophoto - Airphotography, Rock - Geochemistry, Landsat - Remote Sensing		
090684	1980	Blue Lite Assessment Report	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology	1	139

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)
2003Heon	Yukon Regional Geochemical Database - Stream sediment analyses		Yukon Geological Survey	Database
Z	Geology of the Mayo Map Area, Yukon Territory (NTS 105M)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Bulletin
1990-2	Geology Map of the Tiny Island Lake Map Area (105M/16)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
1990-1	Geology of the Mt. Westman Map Area (106D/1)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
1990-3	Geology of 106D/8 & 7 (East Half) Map Areas		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
YEG1979_80	Yukon Geology and Exploration 1979-80	243-244.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG1981	Yukon Exploration and Geology 1981	277.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
GM1997-1	Bedrock geology of Mayo map area, central Yukon (NTS 105M)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Geoscience Map (Geological - Bedrock)
2013-13	Geological map of the Rackla belt, east-central Yukon (NTS 106C/1-4, 106D/1)		Yukon Geological Survey	Open File (Geological - Bedrock)
YEG2013_OV	Yukon Exploration and Geology Overview 2013		Yukon Geological Survey	Annual Report