



Occurrence Details

Occurrence Number: 115P 067

Occurrence Name: Bix 79-2

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/28/2025 7:30:04 PM

General Information

Primary Commodities: tin

Secondary Commodities: zinc

Aliases: A, Sp, Sunshine

Deposit Type(s): Porphyry Sn

Location(s): N - W

NTS Mapsheet(s): 115P15

Location Comments: based on DDH SC 79-2 on map georeferenced from AR 091070

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Bix cl (YA38290) in Sep/78 by Cominco. The adjoining large block of A cl (YA30393) was staked in May/78 by G. Dickson and optioned to Cominco which added SP cl (YA39308) to the northeast in Mar/79 and explored with mapping and drilling on the A 25 and Bix 4-6 claims: two diamond drillholes near the occurrence and three diamond drillholes ~2.3 km to the southwest (670 m total). The claims were transferred to Pacific Ridge Res Corp, which performed mapping and geochem sampling in 1981. Restaked as Sun 5-56 cl (YB19958) in Nov/91 by Placer Dome Inc., which performed a geochemical survey and geological mapping in 1992. Restaked as SP claims by Goldspike Exploration Inc and explored with mapping, soil, silt and rock sampling and an aeromagnetic geophysical survey in 2011. In 2020, Archer Cathro restaked the area as Bix 1-48 and collected rock and soil samples. In 2021, Strategic Metals expanded on the soil sample grid, prospected and collected a few rock samples.

Capsule Geology

The occurrence area is underlain by Lower Proterozoic to Upper Cambrian Hyland Group metasedimentary rocks intruded by the Late Cretaceous Sunshine Creek stock (McQuesten Suite). The stock and associated plugs consist of muscovite-biotite granite and porphyritic quartz monzonite, and are cut by several late-stage aplite and quartz-feldspar porphyritic dykes. The metasedimentary rocks consist of quartz±muscovite±biotite schist, quartzite and limestone. The occurrence is within a quartz-limonite breccia zone.

Cominco's drilling tested the 1 to 5 m wide and 10-m-long breccia zone. The breccia consists of quartzite, tourmaline and vein quartz fragments up to 2 cm across in a matrix of quartz, tourmaline, orthoclase and up to 1% cassiterite. Two samples taken by Emond and Lynch averaged 2350 ppm Sn and 23 ppm Ag. In 1992, Placer Dome evaluated the property for Fort Knox-type gold mineralization. Results were disappointing and the claims were allowed to lapse.

In 2011, Goldspike Exploration Inc. conducted soil, silt and rock geochemical surveys in the area. The company was exploring for intrusion-related gold mineralization, so no analyses were done for tin. Ridge and spur soil lines resulted in four anomalous gold-in-soil sample locations, but none of these were in the occurrence area. No further work was completed by Goldstrike and the claims were allowed to lapse.

In 2020, Archer Cathro explored for intrusion-related tin and copper-gold porphyry targets. Rock and soil sampling were completed, largely to the west of the occurrence. The nearest rock sample in the area with an anomalous result for tin (1060 ppm) was almost 900 m to the southwest of this occurrence.

Work History

Date	Work Type	Comment
7/1/2021	Geochemistry	
7/1/2021	Geochemistry	
7/1/2021	Other	
12/1/2020	Geochemistry	
12/1/2020	Geochemistry	
12/1/2011	Geochemistry	
12/1/2011	Geology	
12/1/2011	Geochemistry	
12/1/2011	Geochemistry	
12/1/2011	Airborne Geophysics	
12/1/1992	Geochemistry	Type of sampling not specified. Assumed rock sampling
12/1/1992	Geology	
12/1/1981	Geology	
12/1/1981	Geochemistry	Type of sampling was not specified. Assume soils were done.
12/1/1979	Drilling	DDH 79-2 at the occurrence. DDH 79-1 (180 m to the northeast). DDH 79-3, 79-4, 79-5 approximately 2.3 km to the southwest.
12/1/1979	Geoloav	

12/1/1979	Geochemistry	~ 4km northeast of occurrence - no significant anomalies
12/1/1979	Geochemistry	
12/1/1979	Geochemistry	

Related References

Number	Title	Page(s)	Reference Type	Document Type
1994-3(G)	Geological Map of the Sprague Creek Map Area (115 P/15), Western Selwyn Basin, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
1992GeoVol3_11	Petrology and geochemistry of tin and tungsten mineralized plutons, McQuesten River Region, Central Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1993-pg29	Geology and mineral occurrences of Sprague Creek map area (115P/15), western Selwyn Basin		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
1986GeoVol1_13	Tin and tungsten veins and skarns in the McQuesten River area, central Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
1992GeoVol3_09	Geology, mineralogy and geochemistry of tin and tungsten veins, breccias and skarns, Mcquesten River Region (115 P (north) and 105 M/13), Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
GM1996-2	Geological Map of Sprague Creek Map Area, Western Selwyn Basin, Yukon, NTS 115P/15		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Geoscience Map (Geological - Bedrock)
YEG1981	Yukon Exploration and Geology 1981	p. 229	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG1982	Yukon Exploration and Geology 1982	p.217	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG1979-80	Yukon Geology and Exploration 1979-80	p. 279	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report