Occurrence Details

Occurrence Number: 115P 031
Occurrence Name: Bix
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/15/2025 1:07:06 PM

General Information

Primary Commodities: tin
Secondary Commodities: zinc
Aliases: A, Sp, Sunshine
Deposit Type(s): Porphyry Sn
Location(s): 63°49'47" N - -136°38'31" W
NTS Mapsheet(s): 115P15
Location Comments: based on location of DDH 79-5 from georeferenced map in AR 090713
Hand Samples Available: Yes
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 by mapping, geochem sampling and 5 diamond drillholes (670 m) on the A 25 and Bix 4-6 claims. 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 soil geochemical survey and geological mapping in 1992.
Restaked as SP claims by Goldspike Exploration Inc and explored in 2011 with mapping, soil, silt and rock sampling and an aeromagnetic geophysical survey. In 2012, rock and soil samples were collected. In 2020, the area was restaked as Bix 1-48; Strategic Metals performed rock and soil sampling.
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 containing tourmaline and pyrite. The breccia zone is 1-10 m wide and 200 m long, and consists of quartzite fragments up to 5 cm across in a quartz-orthoclase-tourmaline-cassiterite matrix with up to 15% open space. Cominco's drilling in 1979 tested the zone. The best drill intersections for tin were 0.15% Sn over 5.0 m and 0.10% Sn over 5.0 m at the end of DDH SC 79-5 (141 m depth). DDH SC 79-3 intersected lower grade zinc toward the end of the hole: 12 m of 0.23% Zn. Emond and Lynch (1992) obtained anomalous values of Sb, As, Au, Bi, W and Ag from tourmalinite and breccia in this zone.
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 widespread soil, silt and rock geochemical surveys. The company was exploring for intrusion-related gold mineralization, so no analyses were done for tin. Widespread ridge and spur soil lines (962 samples) returned subdued results for gold: 8 samples were higher than 25 ppb Au; the highest result was 61.2 ppb Au, 1 km southwest of this occurrence.
In 2020, Strategic Metals explored the property for its tin and porphyry copper-gold potential. A rock sample 1.7 km to the south of the occurrence returned 14.9% Sn; a rock sample 900 m to the east returned 2340 ppm Sn. Interestingly, the soil response in these areas with anomalous rock geochemistry tends to be muted.

Work History

Date	Work Type	Comment
7/1/2021	Geochemistry	
7/1/2021	Geochemistry	
7/1/2021	Other	
7/1/2020	Other	
12/31/1992	Geology	
12/31/1992	Geochemistry	
12/31/1979	Geology	
12/31/1979	Other	
12/31/1978	Other	
12/1/2020	Geochemistry	
12/1/2020	Geochemistry	
12/1/2012	Geochemistry	
12/1/2012	Geochemistry	
12/1/2011	Geochemistry	
12/1/2011	Geology	
12/1/2011	Geochemistry	

12/1/2011	Geochemistry	
12/1/2011	Airborne Geophysics	
12/1/1981	Geochemistry	Assume rock sampling, although it is not noted what type.
12/1/1981	Geology	
12/1/1979	Geochemistry	Assume rock sampling although it is not noted.
12/1/1979	Drilling	one hole at occurrence, two in the vicinity and two holes ~2.3 km to the northeast (5 holes, 670 m).

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095908	2011	2011 Soil, Silt and Rock Geochemical Surveys and Prospecting on the Bix Property	Rock - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Prospecting - Other, Prospecting - Other		
091070	1981	Preliminary Geochemical and Geological Assessment Report on the Bix, A and SP Claims	Silt - Geochemistry, Detailed Bedrock Mapping - Geology		
090794	1980	Geological and Geochemical Surveys	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
090713	1979	Diamond Drill Assessment Report on the A and SP Group of Mineral Claims Sunshine Creek area, Yukon Territory	Diamond - Drilling	4	542.80

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016644	Geology map - 115P/15 - Sprague Creek		Property File Collection	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
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)
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
1992GeolVol3_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
1992GeolVol3_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
1986GeolVol1_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