



## Occurrence Details

**Occurrence Number:** 105B 070

**Occurrence Name:** Can

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 4/29/2025 9:31:43 PM

## General Information

**Secondary Commodities:** copper, gemstones, silver, tin

**Deposit Type(s):** Skarn Sn

**Location(s):** 60°13'10" N - -131°35'22" W

**NTS Mapsheet(s):** 105B04

**Location Comments:** .5 Kilometres

**Hand Samples Available:** No

**Last Reviewed:**

### Capsule

#### Work History

Staked as Can cl 1-56 (YA21333) in Jul/77 by DC Syndicate (Dome Mines Limited & Cominco Limited), which explored with geological mapping, magnetic geophysical and geochemical surveys in 1978 and 1979 and hand trenching in 1980. In 1981 the company drilled 3 diamond drill holes (182.3 m) and completed additional geological mapping, hand trenching and a second magnetic geophysical survey.

Restaked as Skarn cl 1-2 (YB93292) in Jul/2001 by I. Elash and Tanana Exploration Inc which carried out hand trenching later in the year. The claims were optioned to Strategic Metals Ltd in Aug/2002 which carried out a small hand trenching and prospecting program later in the month. Strategic dropped the option in Nov/2003 and returned the claims to Elash and Tanana Exploration Inc.

#### Capsule Geology

The area is located in the northeast corner of topographic map sheet 105B 04 and has been re-mapped by the Ancient Pacific Margin NATMAP Project (Roots et al., 2004). Cassiterite, malayaite and stanniferous garnet with magnetite and minor bornite, chalcopyrite, sphalerite and fluorite are developed in a marble skarn, (unit CPC) of the Permian and older Klinkit Group, located at the northeast margin of the Early Cretaceous Seagull batholith. The Klinkit rocks lie within the Yukon Tanana Terrane but overlie several of the pericratonic metasediments and metavolcanic assemblages (specifically the Big Salmon Complex and the Swift River Group/Dorsey Complex) and are thus considered by Roots to be a post-amalgamation overlap succession. Other exposures of Late Paleozoic limestone within the thermal aureole of Seagull batholith were closely investigated for tin and tungsten mineralization between 1978 and 1982 (for example Minfile Occurrences #105B 036, 040 and 084).

The mineralization occurs in skarn lenses measuring up to 7 m thick and 200 m long within a black marble member. The main mineralization occurs in magnetite-rich sections although traces of cassiterite were noted in an amphibole-rich section. Garnet rich skarn returned low tin assays. Hole 83-1 intersected 0.63% Sn over 3.5 m and 0.24% Sn over 5.8 m in skarn while Hole 81-1 cut 0.28% Sn, 6.9 g/t Ag and 0.5% Cu across 0.15 m in altered granite.

Tanana Exploration/Strategic Metals investigated the claims for their potential to host gem quality garnets. Most of the garnet crystals observed are < 0.5 cm in diameter and occur as aggregates and intergrowths within and along the selvages of the massive garnet bands. Other occurrences are associated with secondary calcite pods which tend to host better developed, larger individual crystals. Garnet color is primarily dark brown to yellow-brown and forest to epidote green. Very few specimens exhibit glassy transparent quality, however this is difficult to fully assess without extracting individual crystals from aggregate masses.

Dark green glassy vesuvianite crystals occur in 3 to 5 mm thick bands within an 8 m section of limestone located approximately 100 m west of the garnet bearing area. These crystals are tabular with a square cross section and are sometimes terminated by an irregular pyramid. Maximum size observed was 6 mm long by 2 mm in diameter.

Strategic Metals judged that the garnets were not of gem quality and although the vesuvianite appears glassy and semi-transparent, the crystals were quite small and generally intergrown, making segregation of individual crystals very difficult.

#### References

- BRENCHLEY, M.M., Apr/82. Geology of the Can claim group, Y.T., a tin skarn deposit. Unpublished B.A.Sc. Thesis, Queen's University.
- DC SYNDICATE, 1977. Assessment Report \*#090323 by J.E. Chartier and J.C. Stephen.
- DC SYNDICATE, May/79. Assessment Report #090460 by J.C. Stephen.
- DC SYNDICATE, Mar/80. Assessment Report #090594 by J.C. Stephen.
- DC SYNDICATE, Mar/82. Assessment Report #090992 by J.C. Stephen.
- DC SYNDICATE, Mar/82. Assessment Report #092936 by J.C. Stephen.
- DC SYNDICATE, 1982. Assessment Report \*#090992 by J.C. Stephen.
- MINERAL INDUSTRY REPORT 1977, p. 78; 1978, p. 58.
- ROOTS, C.F., DE KEIJZER, M. AND NELSON, J.L., 2000. Wolf Lake project: Revision mapping of Dorsey Terrane assemblages in the upper Swift River area, southern Yukon and northern B.C. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 115-125.
- ROOTS, C., NELSON, J., MIHALYNUK, M., HARMS, T., DE KEIJZER, M. AND SIMARD, R-L. 2004: Bedrock Geology Dorsey Lake, Yukon Territory: Yukon Geological Survey, Open File 2004-2, scale 1:50 000.
- STRATEGIC METALS LTD, Dec/2002. Assessment Report #094348 by W.A. Wengzynowski.
- YUKON GEOLOGY AND EXPLORATION 1979-80, p. 153-154.

## Work History

Date	Work Type	Comment
12/31/2002	Trenching	
12/31/2002	Other	
12/31/2001	Trenching	Carried out by Elash and Tanana Exploration Inc.
12/31/1981	Geology	Ground magnetic survey .
12/31/1981	Ground Geophysics	
12/31/1981	Trenching	
12/31/1980	Trenching	
12/31/1979	Geochemistry	Also soil and talus sampling.
12/31/1979	Geology	
12/31/1978	Geology	
12/31/1978	Geochemistry	Also silt samples.
12/31/1978	Ground Geophysics	

## Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">096722</a>	2014	STAKING, SOIL SAMPLING, PROSPECTING AND AIRBORNE GEOPHYSICS REPORT – SEAGULL TIN PROJECT	Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry		
<a href="#">096335</a>	2012	Airborne Geochemical Sample Survey - Seagull Tin Project	Silt - Geochemistry		
<a href="#">095455</a>	2011	Prospecting, Geological and Geochemical Surveys at the Seagull Tin Property	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
<a href="#">094348</a>	2002	Assessment Report Describing Geological Mapping and Prospecting on the M.C. Beryl Property	Rock - Geochemistry, Backhoe - Trenching		
<a href="#">090594</a>	1980	Survey and Sampling Report on the Can 29-40; 45-46 Mineral Claims	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
<a href="#">090557</a>	1979	Klinkit Joint Venture (Du Pont of Canada Exploration Limited with Dival Mining Limited) 1979 Programme, Yukon Territory	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies, Prospecting - Other		
<a href="#">090460</a>	1978	Geological, Geochemical, and Geophysical Report on the Can 1-56	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Panning - Placer Processing		
<a href="#">090323</a>	1978	Geological, Geochemical Report on the Can 1-56 Mineral Claims	Rock - Geochemistry, Silt - Geochemistry, Detailed Bedrock Mapping - Geology		

## Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
<a href="#">81-CAN-1</a>	Can	1981	NQ	0	2
<a href="#">81-CAN-2</a>	Can	1981	NQ	0	3
<a href="#">81-CAN-3</a>	Can	1981	NQ	0	3