



Occurrence Details

Occurrence Number: 115I 010

Occurrence Name: Bonanza Creek

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/28/2025 11:01:25 AM

General Information

Secondary Commodities: copper, gold, silver

Aliases: Williams and Merrice Creeks

Deposit Type(s): Vein Cu+/-Ag Quartz

Location(s): 62°23'19" N - -136°37'50" W

NTS Mapsheet(s): 115I07

Location Comments: Location is for Bonanza King No. 1 (lot 17). Hosted most production from area.

Hand Samples Available: No

Last Reviewed: Apr 7, 2016

Capsule

WORK HISTORY

The first staking in this vicinity was the Fourth of July cl (477) in Jul/1898. The showings were staked and fringe staked several times until Sep/07 when the Monte Cristo (Lot 20), Jeanette (Lot 41), Alice (Lot 40), Bonanza King No. 2 (Lot 18), Bonanza King No. 1, (Lot 17), Lucky Boy (Lot 19), Centre Star (Lot 39), North Star (Lot 38), Glen Livet (Lot 37), War Eagle (Lot 34), Bunker Hill Copper (Lot 35) and Susie (Lot 36) were recorded.

They were explored under separate ownership until about 1910, when ownership was consolidated under Dr. J.O. Lachapelle, J.P. Guite and J. Viau, who continued development and shipped 5.9 tonnes of ore from the Bonanza King shafts to the Anyox Smelter, located in Granby Bay, British Columbia in 1917. Work ceased in Mar/20, by which time 173.7 m of drifting in 2 adits and two 15 m shafts had been completed on the Bonanza King and a 112.8 m adit had been driven on the adjacent Lucky Boy.

In addition, there is a 12 m adit on the Dawson claim (now lapsed) immediately west of the Bonanza King No. 1; a 2.7 m shaft, 4.1 m of decline and 2.7 m of drifting on the Glen Livet and, a 6.1 m cross-cut on the Bunker Hill claim. The twelve claims were surveyed and taken to lease. These were investigated by Yukon Consolidated Gold Corp in 1943 and were owned by Mrs I. Goulter until her death in 2002. The claims are presently held by Bev Thom, executor of Mrs Goulter's estate.

A. Arsenault and associates optioned the property in 1971 and surrounded the claims (lots) with Billy cl 1-12 (Y61167), cl 31-32 (Y61179), cl 41-42 (Y61181), 17-30 (Y6183) and cl 33-40 (Y61198) in Jul/71 but did not carry out any assessment work.

In Apr/2006 Western Copper Holdings Ltd staked Rem cl 1-14 (YC39221) east and cl 19-35 (YC39239) west of the surviving lots. Later in the exploration season the company carried out a GPS survey to tie the claims to the company's neighboring Williams Creek project (Minfile Occurrence #115I 008), located to the east.

In Apr/2007 S. Ryan staked Sleep cl 1-12 (YC60122) north of and cl 13-18 (YC60134) south of Rem cl 19-30 (YC39239). The claims were staked under a previously negotiated option agreement with BCGold Corp. Later in the month the company flew a regional airborne magnetic and radiometric geophysical survey over their claims holdings; including the Sleep claims. The Sleep claims were incorporated into BCGold's WS claim group (Minfile Occurrence #115 007) also optioned from Ryan. BCGold carried out exploration programs on the WS claims and used the assessment credit gained to keep the Sleeper claims in good standing.

In Aug/2007 Minto Explorations Ltd, a subsidiary of Sherwood Copper Corporation, operator of the Minto Mine (Minfile Occurrences #115I 021 & 022), staked Led cl 1-16 (YC65397) around the northern end of the historical lots.

Western Copper Corp staked Hip cl 1-17 (YC65554) in Aug/2007 around the southern end of the historical lots. In 2008 the company soil sampled on the southwest portion of the Hip claims and the northeast portions of the Hip and Rem claims. In Dec/2008 Western Copper Corp transferred the Rem and Hip claims to Carmacks Copper Ltd, a wholly own subsidiary and operator of the Williams Creek deposit (Minfile Occurrence #115I 008) located approximately 6 km to the southwest.

In July 2008 Minto Explorations transferred the Led claims to Northern Tiger Resources Inc as part of a Memoranda of Understanding signed between Sherwood Copper and Firestone Ventures Ltd, the parent company of Northern Tiger Resources. Under this agreement Sherwood Copper entered a 100% interest in four Yukon (Dawson Range) exploration properties and an extensive historical exploration database to Northern Tiger Resources. Sherwood Copper and Northern Tiger also entered into a Regional Exploration Alliance Agreement whereby the companies would provide input and cooperation on planning and executing exploration projects and long term strategies in the area. In return for this assistance Sherwood Copper retained back-in rights to acquire a 65% interest in any of Northern Tigers projects located within a 50 km radius of Sherwood Copper's Minto Mine facilities.

Following acquisition of the Led claims Northern Tiger Resources carried out a small exploration and prospecting program on the claims. In Sep/2008 Sherwood Copper announced that it had entered into a Letter of Agreement with Capstone Mining Corporation to create an intermediate copper producer. The merger was completed on November 24, 2008 resulting in Sherwood Copper being absorbed by Capstone Mining.

In 2009 Northern Tiger Resources flew a regional, low-level magnetic and radiometric geophysical survey over their claim holdings in the region, including the Led claims.

In Apr/2009 BCGold allowed Sleep cl 1-12 to lapse. Sleep cl 13-18 which adjoin the WS claims remained in good standing.

On August 19, 2011 Western Copper Corp announced its intention to spin out several wholly owned subsidiaries into new companies. The Williams Creek property was spun out into Copper North Mining Corp and renamed the Carmacks Copper project.

In Jul/2014 B. Harris restaked the expired Sleeper 1-12 as Koo cl 47-58 (YF46547). At the same Harris also staked fractional claims WCF 8-11 (YF46414) on the northwest boundary of the Koo claims. Koo claims 47-58 are part of a larger block of Koo claims (1-12, 21-44) staked to the northwest. Harris incorporated the Koo and WCF claims into his Stu property (Minfile Occurrence 115I 010), located to the northwest.

In Apr/2014 Northern Tiger Resources merged with Redtail Metals Corp and changed its name to Golden Predator Mining Corp. The new company allowed the Led claims to lapse in Jul/2014.

In Nov/2015 B. Harris restaked the claims as Led cl 1-16 (YE10088) and incorporated them into his neighboring Stu property.

GEOLOGY

The occurrence is located on the northwest side of Williams Creek approximately 1 km southwest of the Yukon River. Access is currently by boat from the Yukon River or by helicopter from staging

areas located along the Klondike Highway located approximately 3 km to the east.

Based on a geological compilation released in 2016 by Colpron and others the area straddles the boundary between the Granite Mountain batholith to the west and Povoas volcanics to the east. The Granite Mountain batholith intrudes Yukon-Tanana terrane rocks and in the vicinity of the claims is likely composed of foliated and unfoliated granodiorite of the latest Triassic to Early Jurassic Minto suite. The Hoocheekoo fault separates the batholith from Upper Triassic, Carnian and older (?) Povoas formation augite-phyric andesitic to dacitic volcanic flows and volcanoclastics rocks of the Stikinia terrane.

The occurrence consists of bornite and chalcopyrite in quartz veins and siliceous zones cutting highly altered Upper Triassic Povoas formation of the Stikinia terrane. The veins trend northwest and dip steeply east. The main outcrop on the Bonanza King No. 1 (Lot17), grades 3.29% copper over a 1.8 m width. The drifted vein ranged from 1.5 m to about 10 cm in width. A sample over the 1.5 m width assayed 1.45% copper, 10.3 g/t silver, and 0.69 g/t gold. The smelter shipment averaged 5.26% copper, 66.9 g/t silver and 4.4 g/t gold.

The vein on the former Dawson claim, (lot) is reported to be similarly mineralized with widths ranging from 5 to 45.7 cm. The vein on the War Eagle claim (Lot 34) was reported to be 0.6 m wide and to visually grade 1 to 2% copper. Only traces of copper were located in the Bunker Hill Copper claim (Lot 35) cross-cut.

The Rem claims were staked to provide access along Williams Creek to the Yukon River and the North Klondike Highway located approximately 3 km to the east. The Hip claims were staked to; 1) cover open ground, 2) provide a buffer around the Carmacks Copper deposit (Minfile Occurrence #115I 008) located approximately 6 km to the southwest and 3) to explore for potential mineralization in the Povoas formation volcanic rocks. The 2008 soil sampling program tested for copper mineralization at the granodiorite-volcanic contact and covered Hip claims 1-6 and cl 16-17 and Rem cl 11-13, all located on the west side of the Yukon River. Results showed that areas underlain by the volcanics returned anomalous values up to 5 time's normal background but no visible mineralization was discovered. It appears the volcanics are naturally enriched in copper compared to the neighbouring granodiorite.

BCGold has released limited information on the Sleep claims. It appears that the airborne magnetic survey outlined a magnetic lineament cutting the eastern end of Sleep cl 13-18. Sleep cl 1-12 were allowed to lapse in Apr/2009.

Prospecting on the Led claims in 2008 by Northern Tiger Resources returned a rock composite grab sample from an old pit that returned 1.74% copper, 0.399 g/t gold and 1.46 g/t silver. Soil sampling outlined a weak coincident copper-gold anomaly from a separate part of the claim block. The airborne geophysical survey identified an unspecified number of targets on the claims.

Copper North Mining Corp has kept the Hip and Rem claims in good standing by grouping the claims with the larger Carmacks Copper property and using assessment work performed on the larger property to meet assessment credit requirements for the Hip and Rem claim blocks.

Work History

Date	Work Type	Comment
12/31/2009	Airborne Geophysics	Also magnetic survey, on Led claims.
12/31/2008	Geochemistry	On Rem and Hip claims. Also on Led claims.
12/31/2008	Other	Small prospecting program (1 day) on Led claims.
12/31/2007	Airborne Geophysics	Also magnetic survey flown by BCGold.
12/31/1943	Other	Yukon Consolidated Gold investigated area.
12/31/1920	Development, Underground	Minor shafting and drifting between 1917 and 1920.
12/31/1917	Development, Underground	Minor mining and ore shipment. Amount of ore shipped = 5.9 Tonnes from Bonanza King shafts. Likely a bulk sample. Other claims saw small adits and shafts dug.
12/13/2006	Other	Surveyed Rem claim posts using GPS.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094003	1998	[CARMACKS COPPER Report-Bulk Sampling, Geotechnical and Environmental Studies Compilation]	Rock - Geochemistry, Bulk Sample - Lab Work/Physical Studies, Column Leach Test - Lab Work/Physical Studies, Metallurgical Tests - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Research/Summarize - Pre-existing Data, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Pre-feasibility - Studies, Handblast - Trenching, Mechanical - Trenching		
093083	1992	Biophysical Assessment Report of Williams Creek	Silt - Geochemistry, Water - Geochemistry, Data Compilation - Pre-existing Data, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
093040	1991	WILLIAMS CREEK Copper Oxide Project	Metallurgical Tests - Lab Work/Physical Studies, Research/Summarize - Pre-existing Data, Environmental Assessment/Impact - Studies, Pre-feasibility - Studies, Resource Estimate - Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC012202	Property examination reports - I. Goulter Crown grants		Property File Collection	Report
ARMC012196	Property submission report: Dennis Anderson's copper prospect		Property File Collection	Report
YEG2009_OV	Yukon Exploration and Geology Overview 2009	p. 159-184.	Yukon Geological Survey	Annual Report
2006_1	Tectonic assemblage map of Yukon-Tanana and related terranes in Yukon and northern British Columbia (1:1 000		Yukon Geological	Open File (Geological - Bedrock)

600000	000 scale)		Survey	Open File (Geological - Bedrock)
YEG2003_21	Early Jurassic porphyry(?) copper (-gold) deposits at Minto and Williams Creek, Carmacks Copper Belt, western Yukon	p. 289-303.	Yukon Geological Survey	Annual Report Paper
YEG2007_OV	Yukon Exploration and Geology Overview 2007	p. 25, 38.	Yukon Geological Survey	Annual Report
YEG2015_13	Copper-gold ± silver mineralization at the Stu occurrence, central Yukon (Yukon MINFILE 115I 011)	p. 389-303.	Yukon Geological Survey	Annual Report Paper
YEG2008_OV	Yukon Exploration and Geology Overview 2008	p. 33.	Yukon Geological Survey	Annual Report
ARMC020132	Correspondence Re: Williams Creek copper-gold deposit, Yukon Territory		Property File Collection	Miscellaneous Company Documents
ARMC020316	Correspondence to Carl Freitang Re: Williams Creek oxide copper property - Notes and maps		Property File Collection	Miscellaneous Company Documents
ARMC020317	Summary report - Williams Creek copper deposit - Carmacks area, Yukon Territory		Property File Collection	Report
ARMC020321	Metallurgical investigation of Williams Creek copper oxide ore - File no. M90-001		Property File Collection	Report
ARMC020322	Correspondence Re: Williams Creek copper deposit		Property File Collection	Miscellaneous Company Documents
ARMC020323	Williams Creek copper deposit summary report		Property File Collection	Report
ARMC020339	Orthogonal longitudinal section - Williams Creek copper oxide project		Property File Collection	Geoscience Map (General)