

# MINFILE Detail Report BC Geological Survey Ministry of Energy, Mines and Petroleum Resources

# Location/Identification

093M4 W1 MINFILE Number: 093M 067 National Mineral Inventory Number:

Name(s): RED ROSE

WOLFRAMITE (L. 3045), TUNGSTEN (L. 3044), TUNGSTEN (L. 3041-3043)

**Mining Division:** Omineca Past Producer Status: Stikine Underground **Electoral District:** Mining Method

Regions: British Columbia Skeena Stikine Natural Resource District **Resource District:** 

093M012 **BCGS Map:** 

093M04E 09 (NAD 83) NTS Map: **UTM Zone:** 55 08 20 N Latitude: 6111140 Northing: Longitude: 127 36 06 W **Easting:** 589137

1678 metres **Elevation:** Within 500M **Location Accuracy:** 

Level 600 shaft, on the northwest slope of the Rocher Deboule Range about 11 kilometres south of Hazelton. **Comments:** 

### Mineral Occurrence

Tungsten, Copper, Gold, Silver, Molybdenum, Uranium **Commodities:** 

Scheelite, Chalcopyrite, Molybdenite, Ferberite, Uraninite Minerals Significant:

> Associated: Quartz, Feldspar, Biotite, Hornblende, Ankerite, Tourmaline, Apatite, Pyrrhotite

**Mineralization Age:** Unknown

Character: Vein, Shear **Deposit** 

> Hydrothermal, Epigenetic Classification:

I12: W veins Type:

Regular Modifier: Sheared Shape: 145/65W 335x120x3 metres Strike/Dip: **Dimension:** 

Red Rose shear. **Comments:** 

#### Host Rock

**Dominant Host Rock:** Plutonic

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Stratigraphic Age Group **Formation** Igneous/Metamorphic/Other

Jurassic-Cretaceous Bowser Lake

**Bulkley Intrusions** Upper Cretaceous

Isotopic Age **Dating Method Material Dated** 

72 Ma Potassium/Argon Biotite

Diorite Dike, Granodiorite, Diorite, Siltstone, Argillite Lithology:

The Rocher Deboule stock age date is from Geological Survey of Canada Open File 720. **Comments:** 

### Geological Setting

**Tectonic Belt:** Intermontane Hazelton Ranges Physiographic Area:

Stikine, Plutonic Rocks Terrane:

Metamorphic Type: Contact Grade: Hornfels

### Inventory

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 Ore Zone:
 RED ROSE
 Year:
 1960

 Category:
 Indicated
 Report On:
 Y

 Quantity:
 13,606 tonnes
 NI 43-101:
 N

CommodityGradeCopper0.3000 per centTungsten1.1800 per cent

**Comments:** Probable reserves above the 335-metre level.

**Reference:** Bulletin 43, page 59.

Summary Production				
<u> </u>		Metric	Imperial	·
	Mined:	113,373 tonnes	124,972 tons	
	Milled:	110,828 tonnes	122,166 tons	
Recovery	Silver	26,806 grams	862 ounces	
	Gold	19,299 grams	620 ounces	
	Tungsten	977,451 kilograms	2,154,911 pounds	
	Copper	26,452 kilograms	58,317 pounds	
		Capsule Geology		

The Red Rose mine is located on the northwest slope of the Rocher Deboule Range, 11 kilometres south of Hazelton.

Siltstone and argillite of the Middle Jurassic to Lower Cretaceous Bowser Lake Group are intruded by the Late Cretaceous Rocher Deboule granodiorite stock of the Bulkley Plutonic Suite. The sediments are hornfelsed by emplacement of the stock and are intruded by northeast trending diorite dikes which are older than the stock. Bedding in the sediments strikes 015 degrees and dips 30 to 50 degrees west. The Chicago Creek fault, striking 010 degrees and dipping 70 degrees west, cuts all rocks and is a normal fault with a dip slip of 600 to 900 metres.

The Red Rose vein-occupied shear is a small, 145 degree striking, 65 degree west dipping fault, mainly hosted in a diorite dike. The vein is 1.2 to 2.8 metres wide, 60 to 120 metres along strike, and at least 335 metres downdip. It is pegmatitic and contains largely quartz with lesser amounts of feldspar, biotite, hornblende, ankerite, tourmaline, apatite, scheelite, ferberite, chalcopyrite, pyrrhotite, molybdenite and uraninite. Extensive lenses of chalcopyrite occur in the hanging wall shear. The biggest concentrations of radioactive material are erratically distributed with molybdenite in the wallrocks.

The vein has been developed and mined above the 1100-level and little is known below this level. Between 1942 and 1954, 103,424 tonnes produced 1,002,839 kilograms of tungsten. It is estimated that there are 13,600 tonnes of ore at a grade of approximately 1.9 per cent WO3 above the 1100-level (Bulletin 43). A 75-centimetre sample taken in 1914 assayed 28.8 grams per tonne gold, 110 grams per tonne silver and 3.9 per cent copper (Minister of Mines Annual Report 1914). A radioactive sample from the mine assayed 0.35 per cent equivalent uranium (Geological Survey of Canada Economic Geology 16).

Probable reserves above the 335-metre level are 13,606 tonnes grading 1.18 per cent tungsten (1.5 per cent WO3; conversion to tungsten used a factor of 1.2611).

#### Work History

In 1912, showings containing encouraging assays in gold, silver and copper were discovered on the south side of the ridge by C. Peterson and C. Ek. The showings were staked as the Red Rose group, comprising the Red Rose, Yellowhammer, Prosperity, Juniper, and Summit claims. In the fall of 1914, the property was acquired under option by a syndicate headed by T.J. Vaughan-Rhys and some activity continued until the fall of 1916. Development work was done in four adits totalling over 245 metres of drifts and crosscuts between elevations of 1570 and 1736 metres, including a lower crosscut which was driven 137 metres feet without reaching the vein.

In about 1923, tungsten-bearing minerals were discovered in a quartz vein on the ridge about 213 metres above the uppermost gold-silver workings. The property was under option in 1923 to W.S. Sargent of Hazelton, however, no further activity was reported until 1939 when The Consolidated Mining and Smelting Company of Canada, Limited acquired an option to purchase the property from Mrs. B. Sargent of New Hazelton. The property comprised 15 claims; Tungsten 1-8, Wolframite Fr., Scheelite, Gordie, Dee, Jay, Tat and Eta Frs. (Crown grant Lots 3041-3045, 6250-6259). The company carried out diamond drilling in 1940 and underground development began in the 300-level adit in June 1941. A 25 ton-per-day mill was installed, and connected to the mine by 1.6 kilometres of aerial tramway. Milling operations were carried out from early in 1942 until October 1943

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when the mine closed.

Western Uranium Cobalt Mines Limited leased the property from Consolidated Mining & Smelting in 1951; the company name was changed in 1952 to Western Tungsten Copper Mines Limited. Milling began in December 1951 and continued until December 15, 1954 when the mine closed. Mill capacity was increased to 100 tons-per-day in 1952 and to 140 tons-per-day in 1953. Development work on the Tungsten showings to December 1954 totalled approximately 3657 metres of crosscuts, drifts, subdrifts and raises on twelve levels and sublevels from four adits, the 800 (1725 metres elevation), 600 (1804 metres elevation, 300 (1870 metres elevation) and 200 (1900 metres elevation), and an inclined shaft from 600 to 1100 levels.

Reserves at time of closing were not known in detail. The 1100-level was not mined. The vein on the 1000-level was about half-mined and on the 800 and 900-levels about three-quarters mined. Above this, there was thought to be very little left. There is probably about 4600 tons of ore of average grade above the 1100-level (Bulletin 43, page 59). Grades are estimated at 1.5 per cent tungstic oxide (WO3) and 0.3 per cent copper (Bulletin 43, page 59).

Farwest Tungsten Copper Mines Limited was incorporated in August 1955 to acquire all the assets of Western Tungsten. All the machinery and equipment on the property was subsequently sold.

In 2006, Crucible Resources Ltd. completed an option on the Brunswick (093M 066) and Jupiter (093M 065) from D. Warkentin. Two days were spent on the property in 2006. The first day consisted of a visit to the Slater (#532105) claim, while the second day was spent exploring along Red Rose Creek, including the Red Rose tailings and the Brunswick prospect. This work covered parts of both the Armagosa (093M 068) and Brunswick claims. In these investigations, some historical workings were identified, including the Brunswick adits, and the Red Rose tailings. In total, four rock or chip samples were collected. In addition, one tailings sample was collected along Red Rose Creek and one stream sediment and three soil geochemical samples were collected in and around Slater Creek.

In 2015, operators Kyler Hardy, Tim Johnson and Crucible Resources Ltd. conducted a limited ground exploration program of prospecting, rock, soil and stream sediment geochemical sampling in the Red Rose Creek area, Slater Creek area and Sultana/Boulder creeks areas. A total of eight rock samples, twelve soil and silt geochemical samples, and three tailings samples were collected

In 2016, operators Kyler Hardy, Tim Johnson and Crucible Resources Ltd. conducted prospecting and rock sampling in the Brunswick mine area as well as in-fill soil and talus samples to the north and east of the old Sultana workings, and the Red Rose Creek area.

In February of 2017, the owners of the Porphyry Creek property agreed to option the claims to Lansdowne Holdings, a private company seeking a Canadian Securities Exchange listing. The work completed in the same year consisted of prospecting and soil sampling in the Sultana area and the Ridge Target in the Red Rose area of the property. The purpose of the work was to systematically follow up on geophysical anomalies identified by an airborne geophysical survey completed in July of 2010.

In 2018, Lansdown Holdings completed a minor program of prospecting and soil and rock sampling on the area.

# **Bibliography**

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EMPR BULL 10, pp. 39-47; \*10 (Rev.), pp. 60-67; \*43, pp. 54-59

EMPR FIELDWORK 2006, pp. 1-17

EMPR MAP 22; 53; 58; 65, 1989; 69-1 (#278)

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GSC MAP 971A; 44-24; 1731

GSC MEM 110, pp. 18-19; \*223, pp. 56-58; \*223 (Rev.), pp. 55-57

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 $750457,\,883812,\,883811,\,887076,\,887077,\,887078,\,887079,\,508154,\,508155$ 

Date Coded:1985/07/24Coded By:BC Geological Survey (BCGS)Field Check:NDate Revised:2020/08/21Revised By:Karl A. Flower (KAF)Field Check:N

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