



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

Location/Identification

MINFILE Number: 082FSW153
Name(s): LILY MAY (L.1052)
LILLY MAY, RICHMOND

Status: Past Producer
Mining Method: Underground
Regions:
BCGS Map: 082F001
NTS Map: 082F04W
Latitude: 49 03 24 N
Longitude: 117 48 51 W
Elevation: 903 metres
Location Accuracy: Within 500M
Comments: Located 2.0 kilometres south of Rossland on Trail Creek on the original Dewdney Trail (Assessment Report 16751, Map 1).

Mining Division: Trail Creek
Electoral District: Kootenay West
Resource District: Selkirk Natural Resource District

UTM Zone: 11 (NAD 83)
Northings: 5434074
Easting: 440518

Mineral Occurrence

Commodities: Silver, Copper, Lead, Zinc, Gold

Minerals
Significant: Pyrrhotite, Chalcopyrite, Boulangerite, Sphalerite, Galena, Stibnite, Pyrite, Magnetite
Associated: Quartz, Carbonate
Alteration: Sericite, Magnetite
Alteration Type: Sericitic, Skarn
Mineralization Age: Unknown

Deposit
Character: Vein, Disseminated, Massive
Classification: Hydrothermal, Epigenetic, Skarn
Type: I05: Polymetallic veins Ag-Pb-Zn+/-Au
Strike/Dip: 135/85N
Comments: Mineralized vein system. Minor magnetite skarns occur.

Host Rock

Dominant Host Rock: Metasedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Lower Jurassic	Rossland	Elise	-----
Lower Jurassic	-----	-----	Rossland Monzonite

Isotopic Age	Dating Method	Material Dated
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190 Ma	Uranium/Lead	Zircon

Lithology: Siltstone, Argillite, Hornfels, Monzonite, Biotite Hornblende Augite Monzonite

Comments: The new age date for the Rossland Monzonite is a personal communication from K.P.E. Andrew of the Geological Survey Branch (March 1991).

Geological Setting

Tectonic Belt: Omineca
Terrane: Quesnel, Kootenay
Physiographic Area: Selkirk Mountains

Metamorphic Type: Contact
Grade: Hornfels

Inventory

No inventory data

Summary Production

		Metric	Imperial
	Mined:	37 tonnes	40 tons
	Milled:	0 tonnes	0 tons
Recovery	Silver	18,506 grams	595 ounces
	Gold	124 grams	4 ounces
	Zinc	578 kilograms	1,274 pounds
	Copper	549 kilograms	1,210 pounds
	Lead	407 kilograms	897 pounds

Capsule Geology

The Lily May mine is underlain by siltstone and hornfelsic siltstone of the Lower Jurassic Elise Formation, Rossland Group. The occurrence is located 400 metres south of the southern edge of the Early Jurassic Rossland Monzonite and lies within the zone of thermal metamorphism associated with the monzonite intrusive. The grey to black siltstone and argillite grades to hornfels. Ammonites of Early Jurassic age were reported to occur in the siltstone on Ivanhoe Ridge.

Mineralization consists of veins, crosscutting the siltstone, hosting pyrite, pyrrhotite, magnetite, chalcopyrite, sphalerite, galena and minor stibnite. The vein system is considered part of the South belt of mineralization in the Rossland Camp. The ore is composed of fine-grained, disseminated, or crudely banded, massive sulphides in a gangue consisting of thoroughly sericitized rock with carbonate and quartz. The gangue consists mainly of quartz with altered wallrock. The deposit strikes 135 degrees, dipping 85 degrees north. Minor magnetite skarns also occur.

In 1910 and 1935, a total of 37 tonnes of ore were mined from the vein system with the resulting recovery of 124 grams of gold, 18,506 grams of silver, 549 kilograms of copper, 407 kilograms of lead and 578 kilograms zinc.

At the Lily May mine, considerable galena occurs in massive form showing cleavage cubes 0.6 centimetres in diameter. The galena is argentiferous and is associated with the sphalerite, chalcopyrite, pyrrhotite and minor stibnite. Boulangerite occurs in the ore. Also, a small amount of galena occurs as narrow bands and irregular masses interstitial to bladed and tabular crystals of boulangerite.

Bibliography

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EMPR ASS RPT 24, 34, 9054

EMPR BC METAL MM00678

EMPR BULL *74; 109

EMPR EXPL 1980-59

EMPR FIELDWORK 1987, pp. 19-30; 1988, pp. 33-43; 1989, pp. 11-27;
1990, pp. 9-31

EMPR OF 1988-1; 1989-11; 1990-8; 1990-9; 1991-2; 1991-16

GSC MAP 1004; 1504A; 1518

GSC MEM 77, pp. 5,77,170

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PERS COMM Andrew, K., March 1991

*Thorpe, R.I. (1967): Controls of Hypogene Sulphide Zoning, Rossland,
British Columbia, Ph.D. Thesis, University of Wisconsin

Howard, A.E. (2018-04-09): Technical Report on the Rossland Project

EMPR PFD 822469, 822470, 822474, 822475, 823018, 822573

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	2020/08/04	Revised By:	Karl A. Flower (KAF)	Field Check:	N