

Location/Identification									
MINFILE Number	:: 082FSW153								
Name(s):	LILY MAY (L.1052)								
	LILLY MAY, RICHM	IOND							
_	Deat Dee ducor		Mining Division.	Trail Creek					
Status:	Linderground		Flasteral District	Kootenay West					
Regions:	Onderground		Electoral District: Resource District:	Selkirk Natural Resource District					
BCGS Man:	082F001		Resource District.						
NTS Map:	082F04W		UTM Zone:	11 (NAD 83)					
Latitude:	49 03 24 N		Northing:	5434074					
Longitude:	117 48 51 W		Easting:	440518					
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								
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:	Classification: Hydrothermal, Epigenetic, Skarn							
	Type:I05: Polymetallic veins Ag-Pb-Zn+/-Au								
		Str	ike/Dip: 135/85N						
	Comments:	Mineralized vein system. M	linor magnetite skarns occur.						
		Но	st Rock						
Dominant Host R	ock: Metasedimentar	у							
Stratigraphic Ag	ge Group	Formation	Igne	eous/Metamorphic/Other					
Lower Jurassic	Kossiand		Ros	 sland Monzonite					
T		D-4 M-4h-d							
Isotopic Age		Dating Method	Material Dated						
 190 Ma		Uranium/Lead							
190 101a	Cranun/Lead Zircon								
Lithology:	Siltstone, Argillite, Hornfels, Monzonite, Biotite Hornblende Augite Monzonite								
Comments:	The new age date for the Rossland Monzonite is a personal communica- tion from K.P.E. Andrew of the Geological Survey Branch (March 1991).								
Geological Setting									
Tectonic Belt:	Omineca	Physiogra	phic Area: Selkirk Mo	ountains					
Terrane:	Quesnel, Kootenay		-						
Metamorphic Ty	pe: 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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Date Coded: 1	985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	Ν					
Date Revised: 2	2020/08/04	Revised By:	Karl A. Flower (KAF)	Field Check:	Ν					