



### Location/Identification

<b>MINFILE Number:</b>	082KSE011	<b>National Mineral Inventory Number:</b>	082K2 Ag2
<b>Name(s):</b>	<u>MOONSHINE (L.1881)</u>		
<b>Status:</b>	Past Producer	<b>Mining Division:</b>	Slocan
<b>Mining Method</b>	Underground	<b>Electoral District:</b>	Nelson-Creston
<b>Regions:</b>	British Columbia	<b>Resource District:</b>	Kootenay Lake Forest District
<b>BCGS Map:</b>	082K016		
<b>NTS Map:</b>	082K02W	<b>UTM Zone:</b>	11 (NAD 83)
<b>Latitude:</b>	50 08 04 N	<b>Northing:</b>	5553580
<b>Longitude:</b>	116 57 28 W	<b>Easting:</b>	503017
<b>Elevation:</b>	833 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	Centre of Crown grant Lot 1881.		

### Mineral Occurrence

<b>Commodities:</b>	Silver, Zinc, Lead, Gold, Copper		
<b>Minerals</b>	<b>Significant:</b>	Sphalerite, Galena, Chalcopyrite	
	<b>Associated:</b>	Quartz	
	<b>Mineralization Age:</b>	Unknown	
<b>Deposit</b>	<b>Character:</b>	Vein, Stratabound, Massive	
	<b>Classification:</b>	Replacement	
	<b>Type:</b>	E12: Mississippi Valley-type Pb-Zn, E14: Sedimentary exhalative Zn-Pb-Ag	

### Host Rock

<b>Dominant Host Rock:</b>	Metasedimentary		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Lower Cambrian	Undefined Group	Badshot	-----
Cambrian	Hamill	Marsh Adams	-----
<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>	
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<b>Lithology:</b>	Limestone, Micaceous Quartzite, Phyllite		

### Geological Setting

<b>Tectonic Belt:</b>	Omineca	<b>Physiographic Area:</b>	Purcell Trench
<b>Terrane:</b>	Kootenay, Ancestral North America		
<b>Metamorphic Type:</b>	Regional		
<b>Grade:</b>	Greenschist		
<b>Comments:</b>	Middle to upper greenschist facies.		

### Inventory

### Summary Production

		Metric	Imperial
	Mined:	573 tonnes	631 tons
	Milled:	0 tonnes	0 tons
Recovery	Silver	188,868 grams	6,072 ounces
	Gold	31 grams	1 ounces
	Zinc	98,366 kilograms	216,860 pounds
	Lead	86,748 kilograms	191,247 pounds
	Copper	437 kilograms	963 pounds

### Capsule Geology

The Moonshine prospect is located on Crown grant Lot 1881, one kilometre south of the Davis Creek bridge on Highway 31, south of Lardeau, in the Slocan Mining Division.

Regionally, the area lies within the Kootenay Arc near the margins of the Ancestral North American Terrane. The Kootenay Arc is a curving belt of highly deformed metasedimentary and metavolcanic rocks which includes the Upper Proterozoic Horsethief Creek Group, the Eocambrian Hamill Group, the Lower Cambrian Badshot Formation, and the lower Paleozoic Lardeau Group. The volcano-sedimentary sequence is intruded by numerous Ordovician, Devonian and Mississippian granitoid plutons. The rocks have undergone regional metamorphism to middle or upper greenschist facies (Paper 1993-1).

The mineralization is hosted by grey and white crystalline limestone of the Lower Cambrian Badshot Formation which is overlain by brown micaceous quartzite of the Marsh Adams Formation of the Hamill Group and phyllite of the Index Formation of the Lardeau Group. The rocks strike northwest and dip 15 to 20 degrees southwest. The limestone forms steep bluffs above and south of the workings.

Massive galena, sphalerite and minor chalcopryrite occur with minor quartz in a narrow discontinuous fractures that strike northeast and dip 65 degrees northwest. The sulphides are present both as fillings of the fracture and as replacement of the limestone, near the base of the unit. Quartz is mainly along the footwall of the fracture. The mineralized fracture ranges in thickness from a few centimetres up to almost 2 metres. Lenses of coarse massive sulphides, up to 1.5 metres long and 30 centimetres, wide occur along the fracture and constitute the best ore.

Limited mining between 1951 and 1968 produced 188,868 grams of silver, 98,366 kilograms of zinc, 86,748 kilograms of lead, 437 kilograms of copper and 31 grams of gold from 573 tonnes milled.

### Bibliography

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 Columbia, Canada, unpublished Ph.D. Thesis, University of London,  
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**Date Coded:** 1985/07/24

**Coded By:** BC Geological Survey (BCGS)

**Field Check:** N

**Date Revised:** 2007/09/18

**Revised By:** Mandy N. Desautels (MND)

**Field Check:** N