

Location/Identification

MINFILE Number:	082FSW190		
Name(s):	<u>SPOTTED HORSE (L.5375)</u>		
Status:	Past Producer	Mining Division:	Nelson
Mining Method	Underground	Electoral District:	Nelson-Creston
Regions:	British Columbia	Forest District:	Arrow Boundary Forest District
BCGS Map:	082F034		
NTS Map:	082F06W	UTM Zone:	11 (NAD 83)
Latitude:	49 19 33 N	Northing:	5463727
Longitude:	117 19 08 W	Easting:	476828
Elevation:	1554 metres		
Location Accuracy:	Within 500M		
Comments:	Centre of Lot 5375 (NTS Map 082F06).		

Mineral Occurrence

Commodities:	Gold, Silver, Tungsten		
Minerals	Significant:	Pyrite, Gold	
	Significant Comments:	Tungsten also reported.	
	Associated:	Quartz, Calcite	
	Mineralization Age:	Unknown	
Deposit	Character:	Vein, Stockwork, Shear	
	Classification:	Hydrothermal, Epigenetic	
	Type:	L01: Subvolcanic Cu-Ag-Au (As-Sb), I05: Polymetallic veins Ag-Pb-Zn+/-Au, I12: W veins	
	Shape:	Irregular	Modifier: Sheared
	Dimension:	1x0x0 metres	Strike/Dip: 110/57N Trend/Plunge: 000
	Comments:	Shear zone hosting veinlets and stringers.	

Host Rock

Dominant Host Rock:	Volcanic		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Lower Jurassic	Rossland	Elise	-----
Isotopic Age	Dating Method	Material Dated	
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Lithology: Augite Feldspar Porphyritic Sill, Augite Porphyry, Basaltic Lapilli Tuff, Basalt Flow, Flow Breccia

Comments: Units Je2 and Je4 of the Elise Formation (Open File 1989-11).

Geological Setting

Tectonic Belt:	Omineca	Physiographic Area:	Selkirk Mountains
Terrane:	Quesnel, Plutonic Rocks		

Inventory

No inventory data

Summary Production

		Metric	Imperial
	Mined:	47 tonnes	51 tons
	Milled:	0 tonnes	0 tons
Recovery	Silver	2,083 grams	67 ounces
	Gold	1,649 grams	53 ounces

Capsule Geology

The Spotted Horse deposit is located on the headwaters of a west flowing tributary of Barrett Creek about 17 kilometres north- northeast of Salmo. Workings comprise an open cut, a short adit and trenches. The workings are just northeast of the Porto Rico mine (082FSW189).

The area is underlain by basaltic lapilli tuff (Je2) and basalt flows and flow breccias (Je4) of the Lower Jurassic Elise Formation, Rossland Group (Open File 1989-11).

The adit exposes quartz and calcite veinlets and stringers in a shear zone, 0.91 to 1.2 metres wide, which generally strikes 110 degrees and dips 55 to 60 degrees north. The 0.15-metre wide quartz vein at the portal pinches out within a short distance. Native gold has been reported from the stringers and tungsten has also been reported from this occurrence. The vein hosts pyrite and gold. The vein is probably a continuation of the Porto Rico (082FSW189) main vein. The host rock is an augite porphyry sill which intrudes the volcanics.

Production from 1901, 1903 and 1937 totalled 47 tonnes which produced 1649 grams of gold and 2083 grams of silver.

Bibliography

EMPR AR 1899-597; 1902-161; 1903-244; 1904-127; *1937-A39,E27,46; 1944-62

EMPR ASS RPT 18921

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EMPR BULL 1, p. *98; 10, p. 93; 10 (Rev.), p. 155; 41; 109

EMPR FIELDWORK 1980, pp. 149-158; 1981, pp. 28-32, pp. 176-186; 1987, pp. 19-30; 1988, pp. 33-43; 1989, pp. 247-249; 1990, pp. 291-300

EMPR GEM 1972-51; 1973-63

EMPR MAP 7685G; RGS 1977; 8480G

EMPR OF 1988-1; *1989-11; 1991-16; 1991-17; 1994-8

GSC MAP 1090A; 1091A; 1144A; 1145A

GSC MEM 191, p. 47; 308, p. 173

Andrew, K.P.E. and Hoy, T. (1990): Structural Models for Precious Metal Deposits in Jurassic Arc Volcanic rocks of the Rossland Group, southeastern B.C.; abstract with program, G.A.C. - M.A.C. Annual Meeting, Vancouver, B.C., p. A3

Hoy, T. and Andrew, K.P.E. (1988): Geology, geochemistry and mineral deposits of the Lower Jurassic Rossland Group, southeastern British Columbia; abstract in Twelfth District 6 Meeting, Canadian Institute of Mining and Metallurgy, Fernie, B.C., pp. 11-12

Date Coded: 1985/07/24 **Coded By:** BC Geological Survey (BCGS) **Field Check:** N

Date Revised: 1991/06/03 **Revised By:** Dorthe E. Jakobsen(DEJ) **Field Check:** N