

Location/Identification								
MINFILE Number:	082FSW021	National	l Mineral Inventory Nui	nber: 082F3 Mo1				
Name(s):	<u>MOLLY (L.14232)</u>							
	MOLYBDENITE, BROMYRITE KING, BROMYRITE, MOLYBDENUM NO. 1, MOLLY 1-9 (LOTS 14232-14241)							
Status:	Past Producer		Mining Division:	Nelson				
Mining Method	Underground		Electoral District:	Nelson-Creston				
Regions:	British Columbia		Resource District:	Arrow Boundary Forest District				
BCGS Map:	082F005							
NTS Map:	082F03E		UTM Zone:	11 (NAD 83)				
Latitude:	49 05 00 N		Northing:	5436738				
Longitude:	117 11 44 W		Easting:	485720				
Elevation:	1250 metres		-					
Location Accuracy:	tey: Within 500M							
Comments: Located south of Lost Creek. Refer to 082FSW280, M.U.T. also.								
Mineral Occurrence								
Commodition	Molybdenum, Tungsten, Ur	anium						
Commodities:	inorjouenum, rungsten, or							
Minerals	Significant: Molybdenite, Scheelite, Pyrite, Pyrrhotite, Uraninite							
	Associated:	Quartz						
	Mineralization Age:	Unknown						
Deposit	Character:	Stockwork, Vein, Disseminated						
Deposit	Classification:	Porphyry, Igneous-contact, Skarn						
	Туре:	L05: Porphyry Mo (Low F- type), K	05: W skarn					
	Shape:	Irregular Modifier:	Fractured					
Host Rock								
Dominant Host Rock: Plutonic								
Stratigraphic Age	Group	Formation	Igne	cous/Metamorphic/Other				
Ordovician	Undefined Gro	oup Active						
Jurassic			Nels	son Intrusions				
Isotopic Age	Dating Method Material Dated							
Lithology: G	ranite, Aplite, Argillite, Limy Argillite							
Comments: G	ranites of the Lost Creek stock.							
Geological Setting								
Tectonic Belt:	Omineca	Physiographic Ar	ea: Selkirk Mo	untains				
Terrane:	Kootenay, Plutonic	Rocks						
Metamorphic Typ	e• Contact	Polationshin	Syn-mineralization					
Inventory								
No inventory data								
Summary Production								

		Metric	Imperial			
	Mined:	171 tonnes	188 tons			
	Milled:	0 tonnes	0 tons			
Recovery	Molybdenum	11,366 kilograms	25,058 pounds			
Capsule Geology						

The property is located at about 1219 metres elevation on the south side of Lost Creek, 12.8 kilometres south-southeast of Salmo.

The showings were staked in July 1913 by Messrs. Benson, Bennett and Ross. The 4 claims comprising the property were the Bromyrite King, Bromyrite, Molybdenite, and Molybdenum No.1. In 1914, the property was leased for 6 months to Bell brothers of Salmo and ore was shipped to Denver, Colorado from open cuts and pits. Early in 1915 the property was leased for one year to B.C. Molybdenite Company, Limited and additional ore was shipped to Denver. In 1916, the property was under lease to International Molybdenum Company, Limited who shipped about 90 tonnes of ore to their plant at Renfrew, Ontario. The original owners resumed work on the property in 1917 and shipped about 45 tonnes of ore to the Mines Branch, Ottawa.

The property was restaked as the Molly and Molly 1-9 claims (Lots 14232-14241 respectively). The Consolidated Mining and Smelting Company of Canada Limited purchased the property in 1926 and a small amount of underground work and diamond drilling was carried out the following year. The claims were Crown-granted to the company in 1930. The workings at that time included about 30 metres of drift and crosscut, an 18-metre raise, and a winze.

Scheelite was discovered on the Molly 4 claim, about 305 metres southeast and 122 metres above the molybdenum showing, by Joe Gollo, of Howser, in 1942; the company carried out considerable exploration for scheelite that same year. Further work by the company on the molybdenum showing during the period July 1942-February 1943 included 35 metres of crosscut, 21 metres of drift, and a 5-metre raise; a small tonnage of ore was mined but not shipped.

Consolidated leased the property in 1952 to Pacific Gold & Uranium Mines, Ltd. but there is no report of work done. The company name (Consolidated) was changed in 1966 to Cominco Ltd. During 1978 the company carried out a magnetometer survey over 4 kilometres, and 266 metres of diamond drilling in 3 holes.

The Molly mine is hosted by granites of the Lost Creek stock of the Middle to Late Jurassic Nelson Intrusions, which are intruded into a sequence of argillites and limy argillites of the Ordovician Active Formation. The granite is quartz rich and appears to have an upper fine-grained, aplitic chilled zone or border capping in the order of 2 metres thick.

The aplite is sparsely impregnated with molybdenum but the main molybdenum ore occurs below this capping within a zone about 3 metres thick containing numerous joints parallel to the intrusive contact. The best mineralization appears within this sheeted zone where the intrusive contact dips at low angles and/or where there are prominent fractures intersecting this sheeting. Molybdenite occurs as selvages on the joint planes or disseminated between the joints. The more massive granite below the sheeted zone is host to very little molybdenite. Tungsten, as scheelite, occurs locally disseminated in skarn zones of small size.

Records indicate that the Molly mine produced at least 171 tonnes of ore which carried 3.5 to 5.88 per cent MoS2. From 1914 to 1917, a total of 11,366 kilograms of molybdenum were produced. Minor pyrite, pyrrhotite, and uraninite are also associated with the deposit. A sample assayed 0.13 equivalent uranium (Geological Survey of Canada, Economic Geology #16).

Bibliography EMPR AR 1913-128; 1914-328; 1915-27,136,165,167; 1916-K205; 1918-198; 1926-281; 1927-404; 1929-353; 1930-447; 1942-77; 1943-77 EMPR ASS RPT 6667, 7041, 7651, 7849, 8564, 9893 EMPR BULL 9, p. 54; 10 (Rev.); *41, p. 132; 109 EMPR EXPL 1978-48 EMPR FIELDWORK 1987, pp. 19-30; 1988, pp. 33-43; 1989, pp. 11-27; 1990, pp. 9-31 EMPR MAP 22, #9 EMPR OF 1988-1; 1989-11; 1990-8; 1990-9; 1990-32; 1991-2; 1991-17 EMR CANMET RPT 1925, #592, p. 36 EMR MP CORPFILE (International Molybdenum Company, Limited) EMR MP Resource File MR-MO-301.00 GSC EC GEOL #16, p. 45; #16 (2nd Ed.), p. 235; *#17, p. 102; *#20, pp. 24, 289 GSC MAP 1145A GSC MEM 94; 172, p. 84; 308 GSC OF 551; 1195

GSC P 49-22; 50-19; 51-10; 52-13 CIM TRANS 53, 1950, pp. 282,285 ECON GEOL Vol. 46, 1951, pp. 353-366 EMPR PFD 2793, 750240 **Date Coded:** 1985/07/24 **Coded By:** BC Geological Survey (BCGS) **Date Revised:** 1991/02/26 **Revised By:** Laura L. Coughlan (LLC)

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Field Check:

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