

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

		Location/Identific	cation	
MINFILE Number:	092JNE055 National		/lineral Inventory Nu	mber: 092J9, 092I12 Mo1
Name(s):	INDEX (L.1306)			
	MOLY			
Status:	Prospect		Mining Division:	Lillooet
Mining Method	Underground		Electoral District:	Fraser-Nicola
Regions:			Resource District:	Cascades Natural Resource District
BCGS Map:	092J060			
NTS Map:	092J09E		UTM Zone:	10 (NAD 83)
Latitude:	50 31 35 N		Northing:	5597633
Longitude:	122 00 15 W		Easting:	570586
Elevation:	2394 metres		U	
Location Accuracy:	Within 500M			
Comments:	Seventeen kilometres	south of Lillooet. Includes Crown Grant l	ots 1309, 5074, and 5	113.
		Mineral Occurre	ence	
Commodition	Molybdenum, Gold, Uraniu	ım		
Commodities:	Noryodenam, Sona, Oram	****		
Minerals	Significant:	Molybdenite, Pyrite, Uraninite		
	Significant Comments: Very minor pyrite.			
	Associated:	Quartz		
	Alteration:	Sericite, Molybdenite, Kaolinite		
	Alteration Type:	Sericitic, Silicific'n, Oxidation, Argillic		
	Mineralization Age:	Unknown		
Deposit	Character:	Stockwork, Disseminated		
Deposit	Classification:	Porphyry, Hydrothermal		
	Туре:	L08: Porphyry Mo (Climax-type)		
	Shape:	Irregular		
	_	Host Rock		
Dominant Host Roc	:k: Plutonic			
Stratigraphic Age	Group	Formation	Ign	eous/Metamorphic/Other
Paleozoic-Mesozoi	8	Undefined Formation		
Cretaceous-Tertiary			Um	named/Unknown Informal
Isotopic Age		Dating Method	Material Dated	
Lithology: Gr	anodiorite, Argillite, Quartzi	te, Chert, Andesite, Lamprophyre Dike, H	lornfels, Andesite Bree	ccia, Greenstone, Tuff
	anodiorite and lamprophyre	are part of the "Index Stock".		
	1 1 2	Geological Sett	ing	
Tectonic Belt:	Coast Crystalline	Physiographic Area	-	nges
Terrane:	Bridge River, Metl			
		-	.	
Motomombio Type	: Contact	Relationship:	Pre-mineralization	
Metamorphic Type Grade:	Hornfels	F ·		

		Inventory		
Ore Zone: Category:	SAMPLE Assay/analysis		Year: Report On: NI 43-101:	
Sample Type:	Bulk Sample			1
	Commodity Molybdenum	Grade 9.1000 per cent		
Comments: Reference:	Test shipment. Minister of Mines Annual Report	1949, page 113.		

Capsule Geology

The area is underlain by hornfelsed sediments, argillite, quartzite and chert and volcanics, andesite breccia and greenstone tuff of the Mississippian to Jurassic Bridge River Complex (Group). An oblong-shaped stock, 1.5 kilometres by 2 kilometres long, intrudes the sediments and volcanics. The Index stock is mainly granodiorite, grading to biotite granite and quartz monzonite. It is related to a larger Tertiary-Cretaceous intrusion located a kilometre east of the Phair Creek fault. Small andesite dykes and a swarm of biotite lamprophyre dykes cut through the stock.

Molybdenite occurs mainly within the core of the Index Stock, which is fine-grained and aplitic. The molybdenum is seen in northerly trending shears and disseminated on fractures. The highest concentrations are in a 1-metre wide lenticular zone as clots of solid fine-grained crystals or rosettes which assay up to 7 per cent MoS2 and have low grade (1.3 grams per tonne) gold values. The molybdenum is associated with quartz and sericite with kaolinitized orthoclase. Molybdite, an oxide of molybdenite, characterizes the surface of enriched zones. In 1916, 7.4 tonnes of material grading 15.01 per cent MoS2 was extracted (Minister of Mines Annual Report 1949, page 113).

Uraninite has been reported in the mineralized outcrops; however, assays are low, the highest being 0.0085 per cent U3O8 (Minister of Mines Annual Report 1949, page 114).

During 2007 through 2010, Galliard Resources Corp. examined the area as the Index and Enterprise properties.

Bibliography EMPR AR 1916-26,272; 1935-F58; *1949-113-114; 1964-84; 1965-145; 1966-140 EMPR ASS RPT 6213, 15032 EMPR BULL 9, p. 84 EMPR FIELDWORK 1974, p. 35; 1985, pp. 303-310; 1986, pp. 23-29; 1987, pp. 93-130; 1988, pp. 105-152; 1989, pp. 45-72; 1990, pp. 75-83 EMPR GEM 1970-227; 1977-E162 EMPR MAP 22-41 EMPR OF 1987-11; 1988-3; 1989-4; 1990-10 EMPR PF (Report by N.W. Emmens, 1917; Report by D.L. Hings, 1965; *Report by J.F.V. Millar, 1964, Texas Creek Mines Ltd.) GSC EC GEOL #16, p. 45; #16 (2nd Edit.), p. 233; #20, pp. 41,227, 266-267 GSC MEM 262, p. 106 GSC OF 482, 551 CIM TRANS Vol. 53, 1950, p. 285 ECON GEOL Vol. 46, 1951, pp. 353-366 GCNL #81, 1978 Mitchell, M.A. (2009-12-03): Technical Report on the Enterprise Property Mitchell, M.A. (2010-03-30): Technical Report on the Enterprise Property EMPR PFD 11430, 11431, 811058, 811056, 811057, 811055, 811059, 811061, 811062, 811060, 811063, 811064, 811026, 826475, 600661, 670053 Date Coded 1985/07/24 BC Geological Survey (BCGS) Field Cheeks N Coded Dy

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Date Revised:	2020/06/24	Revised By:	Karl A. Flower (KAF)	Field Check:	Ν