



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

Location/Identification

MINFILE Number:	094C 034	National Mineral Inventory Number:	094C10 Mic1
Name(s):	<u>FAMILY FARM</u> GENERAL HOLDING CO., MICA MOUNTAIN, EAST MICA MOUNTAIN, MICA PEAK		
Status:	Past Producer	Mining Division:	Omineca
Mining Method	Underground	Electoral District:	Peace River North
Regions:	British Columbia	Resource District:	Mackenzie Natural Resource District
BCGS Map:	094C057		
NTS Map:	094C10E	UTM Zone:	10 (NAD 83)
Latitude:	56 33 19 N	Northing:	6269229
Longitude:	124 44 03 W	Easting:	393406
Elevation:	1708 metres		
Location Accuracy:	Within 1KM		
Comments:	Area of main workings near the General Holding Company main camp (ca. 1926) on the north end of East Mica Mountain (Mica Mountain), about 9 kilometres southwest of where Fort Graham used to be (presently under Williston Lake) (Minister of Mines Annual Report 1926, page A154; Geological Survey of Canada Summary Report 1927, Part A, pages 32, 33).		

Mineral Occurrence

Commodities:	Mica		
Minerals	Significant:	Muscovite, Feldspar, Quartz	
	Significant Comments:	Beryl was reported from one dike in the district, but not necessarily from this occurrence.	
	Associated:	Pyrite, Tourmaline, Garnet	
	Mineralization Age:	Unknown	
Deposit	Character:	Vein, Concordant	
	Classification:	Pegmatite, Industrial Min.	
	Type:	O03: Muscovite pegmatite	
	Shape:	Bladed	
	Dimension:	100x12x10 metres	Strike/Dip: 150/70W Trend/Plunge: 150 12
	Comments:	The pegmatite dike is ellipsoidal in shape with a long axis 100 metres in length and an intermediate axis 12 metres in length oriented parallel to schistosity.	

Host Rock

Dominant Host Rock:	Metasedimentary		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Proterozoic	Ingenika	-----	-----
Isotopic Age	Dating Method	Material Dated	
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Lithology:	Schist, Quartzite, Pegmatite Dike, Pegmatite		
Comments:	Neoproterozoic Ingenika Group.		

Geological Setting

Tectonic Belt:	Omineca	Physiographic Area:	Omineca Mountains
Terrane:	Cassiar, Ancestral North America		

Metamorphic Type: Regional
Grade: Amphibolite

Inventory

No inventory data

Summary Production

	Metric	Imperial
Mined:	2 tonnes	2 tons
Milled:	0 tonnes	0 tons
Recovery	Mica	
	2,300 kilograms	5,071 pounds

Capsule Geology

The Family Farm occurrence is situated on the north side of Mica Peak (East Mica Mountain), 6.5 kilometres southwest of Williston Lake and approximately 86 kilometres north of the community of Germansen Landing.

The area is underlain by regionally metamorphosed miogeoclinal rocks of the Neoproterozoic Ingenika Group. In the vicinity of the showing, these metasediments largely comprise quartzites and schists.

According to Geological Survey of Canada Summary Report 1927, all mica-bearing pegmatites in this area consist of feldspar and quartz, and small amounts tourmaline, garnet, and pyrite. The tourmaline occurs as small, well formed, jet-black crystals frequently arranged in rosettes, and commonly found in the country rocks adjoining the pegmatites. The garnets are bright ruby-red in colour. One pegmatite dike in the area is also reported to have contained a well-developed crystal of pale bluish green beryl.

The Family Farm occurrence comprises two concordant dikes of white pegmatite, intruding schist and consisting of mostly muscovite, quartz, and feldspar. The larger dike forms an elongate ellipsoid that strikes 150 degrees, dips 70 degrees west and plunges up to 12 degrees towards 150 degrees, with long and intermediate axis of 100 metres and 12 metres, respectively. This dike varies up to 10 metres wide. Muscovite crystals, up to 13 centimetres in diameter, occur in the pegmatite, with the larger grains generally within 1 metre of the wallrocks. The muscovite is reported to be of excellent quality despite some surface weathering.

The smaller, parallel pegmatite dike of similar shape occurs about a hundred metres northeast of the larger one. Although pyrite, tourmaline and garnet are more abundant, only minor amounts of muscovite mica are present in this dike.

The larger dike was explored by a shaft and several drifts, while the smaller one was trenched by General Holdings Company Ltd. between 1925 and 1927. The company extracted up to 2.3 tonnes of raw mica from the workings in 1927 (Minister of Mines Annual Report 1927, page 161).

In 2005, Guardsmen Resources Inc. acquired the Mica Peak property, which covers the Family Farm showing, in hopes that appreciable rare earth elements may be found in association with pegmatite zones. During a 1996 visit, heavy snowfall limited exploration to stream silt sampling. Unfortunately, exploration in 2007 was limited to the westernmost part of the property. In 2010, Guardsmen Resources Inc. conducted a two-day reconnaissance silt and rock geochemical sampling program; two mineral prospects, Family Farm and Birthday (094C 124), were briefly examined.

Bibliography

EMPR AR 1925-145; *1926-A153-A155; 1927-161
EMPR ASS RPT 28896, 29773, 31914
EMPR OF 1995-6; 1996-19
EMR MP CORPFILE (General Holding Company Limited)
GSC EC GEOL 19, pp. 83,90
GSC MAP 2-1975
GSC MEM 274, pp. 101,102
GSC OF 864
GSC P 75-33, p. 17; 77-19
GSC SUM RPT *1927, Part A, pp. 31-35
CANMET RPT 701, pp. 78-80

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	2021/03/30	Revised By:	George Owsiacki (GO)	Field Check:	N