

PRODUCT PERLITE

PROVINCE OR TERRITORY British Columbia

N.T.S. AREA 93 K/4

REF. PRL 1

NAME OF PROPERTY		FRANCOIS		HISTORY OF EXPLORATION AND DEVELOPMENT	
LOCATION		Lat. 54°02'35"	Long. 125°39'	<p>This property is located on the north shore of Francois Lake, about $3\frac{1}{2}$ miles east of the village of Francois Lake.</p> <p>In 1876 G.M. Dawson of the Geological Survey of Canada reported that perlite outcropped at one locality on the north shore of Francois Lake. In 1948 N.B. Davis, of Ottawa, became interested in the possibility of finding perlite in commercial quantity in Canada. Noting Dawson's reference, he went to the locality and located the Francois and Francois No. 2 claims (Lots 6946 & 6948). In January 1949 he sold these claims to Western Gypsum Products Limited. The company surveyed the claims and recorded the Francois Fractional claim. Local residents recorded 8 additional claims surrounding those located by Mr. Davis. Intermittent stripping, trenching, and quarrying operations were carried out in 1949, 1952, and 1953.</p>	
Mining Division	Qmineca	District	Range 5 Coast		
County		Township or Parish			
Lot		Concession or Range			
Sec.		Tp.	R.		
OWNER OR OPERATOR AND ADDRESS					
DESCRIPTION OF DEPOSIT					
<p>The country rocks are Eocene or Oligocene volcanics, mainly rhyolitic flows and tuffs. In the vicinity of the deposit these rocks strike N40°E and dip about 30° northwest. Perlite outcrops on the lake-shore, and at distances of 1,000, 2,800, and 3,200 feet to the north-east. The rock itself is light grey with scattered darker streaks. It shows well-developed perlitic structure, which gives it a granular appearance. At the lake shore the exposure is about 40 feet thick. At 1,000 feet to the northeast the perlite, about 45 feet thick, outcrops for about 400 feet along a gully, and lies on coarse tuff. At the outcrop 3,200 feet from the lake, the perlite pinches out between light coloured rhyolite above and cherty-looking rhyolite below. Two analyses of the perlite show it to be about 73% silica, 12% alumina, 1% iron oxide, $4\frac{1}{2}\%$ each of soda and potash, 3.8% water, and less than 1% lime and magnesia.</p>					
Associated minerals or products of value				Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.	

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HISTORY OF PRODUCTION

Recorded production during the period 1949 to 1953 inclusive is 1,750 tons.

MAP REFERENCES

Map 907 A, Fort St. James, (Geol.), Sc. 1":6 miles. (1948) -
Accomp. Memoir 252.

Map 93 K/4 E, Burns Lake, (Topo.), Sc. 1:50,000.

REMARKS

REFERENCES

McCazmon, J.W.; Francois & Francois No. 2; Report of Minister of Mines, British Columbia; 1949, pp. 258-261.

Armstrong, J.E.; Fort St. James Map-Area, Cassiar and Coast Districts, British Columbia; Memoir 252, p. 198, Geol. Surv. of Canada, 1949.

Reports of Minister of Mines, British Columbia; 1952, p. 261; 1953, p. 194.

MAY 1969

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