1	PRODUCT DIATOMITE	PROVINCE OR Brit TERRITORY	ish Columbia	N.T.S. AREA	93 B/15	REF. DTM 1	
	NALE OF PROPERTY CROWNITE, QUESNI	l (lot 906)	HISTORY OF EXPLORATION AND DEVELOPMENT The occurrence is located at the 2,300 foot elevation				
	OBJECT LOCATED - Quarry. UNCERTAINTY IN METRES 1,000. Lat. 52°58' Mining Division Cariboo District County Township or Parish Lot Concession or Range Sec Tp. R. OWNER OR OPERATOR AND ADDRESS	Long. 122°32'30" Cariboo	The occurrence is located at the 2,300 foot elevat: on Pre-emption Lot 906, 2 miles southwest of Quesnel. The property was owned by R.G. Elliott in 1927. Eardley-Wilmot (1928) reported that a number of test he had been drilled in the deposit. Crownite Diatoms Ltd., incorporated in April 1963, acquired the property. Bulldozer trenching was carried during the winter of 1958-59. One hundred tons of diat was mined in 1967. Dome Petroleum Limited acquired cor of Crownite Diatoms Ltd. in 1967. The company name (Cr ite) was changed in January 1968 to Crownite Industrial Minerals Ltd. Trenching, stripping, and sampling was carried out in 1968-69. Construction of a 100 ton-per- industrial minerals plant was completed early in 1970. Lot 906 approximately 40 acres were cleared. Five 10-fi high benches, 1,000 feet long, were established. About 10,000 tons of diatomite were stockpiled and 500 tons shipped. The plant operated intermittently in 1970, 71 72, processing some 3,000 tons of diatomite. Operation were suspended in 1973 for plant alterations.				
	DESCRIPTION OF DEPOSIT The diatomite, thought to be of lower overlies older Tertiary clays, sands and beds which are 700 feet above Quesnel, s plainly visible from the town. The clift high, within which there are three expose distance of about 300 feet. The foot of with talus, but test holes showed that th down for at least 15 feet, thus proving to or more thick. Test holes between the de continuity of the beds. The exposures st parallel to the valley. Toward the east denuded away by landslides, and to the we basalt and humus. Between the main outco canyon, two miles to the north, the diato test holes and exposures, but the definit was not determined. The diatomite, which is very compact colour, occurs in beds from a few inches Associated minerals or products of value		1205¢ evelopment Sector, Depart		and Resources, Ottawa.		

HISTORY OF PRODUCTION

Production during the period 1967-1972 is estimated at about 12,600 tons of diatomite.

REFERENCES

- Eardley-Wilmot, V.L.; Diatomite, its Occurrence, Preparation, Uses; Rept. No. 691, pp. 45-51, Mines Branch, Ottawa, 1928.
- Reports of Minister of Mines, British Columbia: 1927, p. 171; 1947, pp. 209-211; 1959, p. 161; 1965, p. 262; 1966, p. 271; 1967, pp. 303, 315; 1968, p. 299.
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 389; 1970, p. 497; 1971, p. 461; 1972, p. 585; 1973, p. 545.
- Reinecke, Leopold; Mineral Deposits between Lillooet and Prince George, British Columbia; Memoir 118, pp. 76, 79, Geol. Surv. of Canada, 1920.
- Diatomaceous Earth at Quesnel; Western Miner, December 1969, p. 24.
- Lay, Douglas; Fraser River Tertiary Drainage-History in Relation to Placer Gold Deposits; Bulletin 3, pp. 15, 16, British Columbia Dept. of Mines, 1940.

MAP REFERENCES

Map 12-1959, Quesnel, (Geol.), Sc. 1":4 miles.

#Diatomite occurrences in the Quesnel Area; Sc. 1":2 miles, Fig. 25, Report of Minister of Mines, British Columbia, 1959, p. 157.

*Map 93 B, Quesnel, (Topo.), Sc. 1:250,000.

REMARKS						
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NAME OF PROPERTY CROW

CROWNITE, QUESNEL (LOT 906)

DESCRIPTION OF DEPOSIT (continued)

diatomite consists almost exclusively of various sizes of Melosira granulata diatoms, usually very small, with variable amounts of clay, silt, and volcanic ash. The highest grade material and the thickest beds occur over an interval of 6 feet in the middle of the deposit. Thin clay seams occur at from 5 to 10-foot intervals, and near the centre of the outcrops there is a 6-inch seam of dark, highly ferruginous clay, which is exposed throughout the whole deposit and serves to indicate the degree of movement within the mass subsequent to its deposition. These beds which have a general dip of 15 to 20 degrees to the west into the gently rising hill above them, are very much faulted. In places many small local faults are visible every few inches. The main fault in the exposure shows a throw of 20 feet. The best analysis from the deposit as reported by Eardley-Wilmot is as follows: SiO₂, 83.03%; Al₂O₃, 6.3%; Fe₂O₃, 3.36%; CaO, 0.85%; MgO, 0.32%.