

NAME OF PROPERTY **LEPETICH**

OBJECT LOCATED -Diat. symbol on Map 12-1959.

UNCERTAINTY IN METRES 1,000. Lat. 52°44'48" Long. 122°31'

Mining Division **Cariboo** District **Cariboo**

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The diatomite has been found along the edge of rather flat rolling bench land where the ground begins to rise steeply to the rim of the plateau to the west. The slope is broken by a series of small, narrow, elongate ridges parallel to the river, and the exposures are commonly found along the east sides of these ridges. Other exposures are in small gullies on the bench, and along the east edge of the bench, near the top of the bank where the steep drop to the river begins.

There obviously has been considerable movement of ground in the area, both by faulting and slumping, and as a result few of the diatomite bodies are in their original topographic positions. In addition, much erosion has taken place since the diatomite was laid down. These two factors, combined with poor-ness of exposures and lack of reliable horizon markers, make it difficult to estimate the amount of diatomite present.

The diatomite is creamy white to buff, the colour varying slightly from place to place and from horizon to horizon and

see Card 2 ....

Associated minerals or products of value

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located one mile NW of Buck Ridge, 2 miles E of the Nacosli Creek, and 17 miles S of Quesnel.

The property, on Lots 1616, 1617, 8010, 8011, 8013, 8016 and 8017, was owned by the Lepetich family in 1941. During 1941, 1942, 1945 and 1947, drilling, stripping and dipping were reported.

In 1960, Lots 1616 and 8011 had 4 truck loads of material shipped to Quesnel.

In 1962, Cariboo Diatomite Ltd. acquired the property, totalling 477 acres. During 1963-64, surface exploration and sample testing was done. In 1965, 7 drill holes, each 37 feet deep, were put down, along with 12-foot deep trenches. Reserves on 1/6 of the property were estimated at 200,000 tons.

The property was still owned by Cariboo Diatomite Ltd. in 1974.

120562

HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia: 1947, p. 210;  
1959, pp. 163-66; 1960, p. 139.

Canadian Mines Handbook, Mineral Resources Branch: "Cariboo  
Diatomite Ltd.", 1962-1974.

Mineral Development Sector; Corporation Files: "Cariboo  
Diatomite Ltd.".

MAP REFERENCES

#Map 12-1959, Quesnel, (Geol.), Sc. 1:253,440.

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

REMARKS

Comp./Rev. By	RT						
Date	8-75						

PRODUCT

DIATOMITE

PROVINCE OR  
TERRITORY

British Columbia

N.T.S. AREA 93 B/10, 9

- Card 2 -

REF. DTM 2

NAME OF PROPERTY

LEPETICH

## DESCRIPTION OF DEPOSIT (continued)

depending partly on the moisture content and length of time of exposure to the weather. Microscopic examination of samples from the various showings and from different horizons in them showed that all are much alike in composition, the main variable being the amount of silt and ash present. The diatoms are mostly varieties of *Melosira granulata* of different sizes, generally small, with a few scattered boat-shaped and disk types. A considerable number of diatoms are broken. Scattered thin layers of clay occur as interbeds, and iron banks similar to those described at the big bend are to be seen in a few showings.

The greatest thickness of diatomite seen was 25 feet on Lots 1615 and 6148; however, drilling has proved thicknesses of 30 to 55 feet on Lots 8014, 8015, 8016, and 8011, with the bottom not reached in some holes.

The diatomite assayed an average of 69.12% SiO<sub>2</sub>.