MARIFIME MINING RECORI

Stellarton, N. S., February 27th., 1918

No 16.

DIATOMACEOUS EARTH

This material known under the names of "tri-four tons of infusorial earth were shipped from a polite," "tripoli," and "infusorial earth," is a pul-deposit at Alex. Sutherland's, in a marsh. The exin lakes and swamps in many parts of Nova Scotia, two feet thick and immediately under the sod. It is rarely pure and usually is mixed with carbonate & It is rarely pure and usually is mixed with carbonate (Englishtown, Cape Breton Council of lime and magnesia, clay and other substances, the infusorial earth, said to be of excessilica contents varying between 5 and 90 per cent.

The following is condensed from an article in the in a small lake behind the village.

Diatomaceous earth is very porous, the specific gravity being 0.25 to 0.30, owing to the numerous interstitial spaces and air cavities between the spicules and shells and within the latter, giving lightness and great absorbent power.

The uses to which diatomaceous earth is put are important deposit of infusorial earth was worked at very varied and are probably capable of greater extension. Formerly, it was widely used in the feet thick and extends over a large area. naturacture of dynamics as an absorbent of the natural pharmaceurs cartin has nitro-glycerine, its porosity, which allows of its abbeen found are: Lake Ainslie, Inverness County; sorbing liquids to the extent of four to five times its Lochaber, purpose. But in this connection it has been wholly county; Mackintosa Lake, Only Dake, Colleged by cheaper absorbents such as wood pulp, County; Grand Lake and Dartmouth Lakes, Halifax replaced by cheaper absorbents such as wood purp, county; transit make and Darthouse makes, marks sawdust, etc. At present its chief use is as a polish- County; and Kempt Lake, Kings County. There is sawdust, etc. At present use me use is as a point. County; and kempt bake, kings county. There is ing material, the grains being sharp and cutting, but no large demand for this mineral at the present fine enough not to scratch metal surfaces; it is also time. Its turn, however, may come. used as a conter covering, its persons, it can be used in the good non-conductor of heat. It can be used in the manufacture of bricks when great lightness is required, but owing to the difficulty of manufacture, these bricks are costly and cannot on that account be used for ordinary purposes. Such bricks can be made of one quarter the weight of ordinary bricks. Diatomaceous earth is also used to some extent in the manufacture of certain soaps, and as filtering material, etc.

The most important deposits discovered up to that time were in Nova Scotia and New Brunswick. In Nova Scotic it is found in the following places:-

Folly Lake, Cumberland County. The deposit at this place is the largest yet known in the province. It occupies the bed and shores of Folly Lake. The lake has an area of over 200 acres, two-thirds of which are probably covered with this deposit. Its surface is 600 feet above sea level. The deposit has been worked to a small extent for the manufacture of polishing material, and for use as a non-conductor

Fountain Lake, Cumberland County. A valuable deposit of tripolite has been found at this place. It occupies the bed of the lake which is on the road to River Philip Westchester Mountain. It is of remarkable parity and the lake a said to be easy to drain. It is eight miles distant from Minas Basin at Port-au-Pic, and about the same distance from the Intercolonial Railway. The deposit is worked to a small extent. Other deposits of less extent occur in

the numerous lakes of this region.

Upper Barney's River, Pictou County. In 1886 points, tripon, and infusorial earth, is a pure union at Alex, sutheriam s, in a marsh. The exversion of the deposit is not known. The marsh is 50 verifient substance, write when pure, but often have teen of the deposit is not known. The marsh is not ing a brownish discoloration. Deposits are common yards wide and of indefinite length. The deposit is Englishtown, Cape Breton County. A deposit of

fusorial earth, said to be of excellent quality, has been largely dug by Mr. F. Torrence. The deposit is

River Denys, Inverness County. A deposit at this place has had a certain amount of work done on it. Castlereagh, Cumberland County.

posit of infusorial earth occurs in Bass River Lake. The lake has been drained for the purpose of working the deposit.

a lake near St. Ann's. The deposit is from 3 to 4

sorbing inquids to the extent of four to live times her Lochaber, Antigonish County: Mackay Dake, own weight, rendering it eminently adapted to that Garden of Eden Lake, Grant Lake, Ben Lake, Pictou own weight, rendering it eminently adapted to that Garden of Eden Lake, Grant Lake, Ben Lake, Pictou purpose. But in this connection it has been wholly County; MacKintosh Lake, Gully Lake, Colchester

MOLYBDENUM.

Molybdenite is the most common ore of Molybdenum and the ore of molybdenum most widely occurring in Canada. It is found in foliated masses or scales and resembles graphite, but it differs from graphite in having a bluer color and giving a greenish streak on porcelain. It is a very soft metal and can be scratched by the finger-nail. It usually occurs in a hard gangue, largely quartz and feldspar. Its specific gravity is from 4.7 to 4.8.

Molybdenum is a metal of the Chromium group, resembling iron in its white color, malleability, difficult fusibility, and its capacity for forming steellike alloys with carbon. Its specific gravity is 9.01, symbol Mo., atomic weight, 96.0. It occurs only in combination, chiefly in Molybdenite, wulfenite and scheelite, and in small amounts in ores of iron and

It is used in the form of ferro-molybdenum to harden steel. Certain compounds of it are used in coloring pottery and fabric and in analytical chem-

How's Mineralogy, published in 1868, gives the first information of molybdenite in Nova Scotia. It mentions Gabarus, in Cape Breton County, Hammonds Plains and Musquodoboit in Halifax County,

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