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SALES RAPIDLY INCREASING

Thousands of tons of these fertilizers have gone into raising huge crops of potatoes and other produce, and are ready to do the same another season,

It is Safe to Put Your Dependence on Them.

## Dominion Fertilizer Co., Limited st. stephen, N. B.

## Mineral Resources of New Brunswick Gas, Oil, Bituminous Shales — Their History, Development, Value And Future Prospects

We may here remark that Dr. Chas. Baskerville, above referred to, is a very eminent scientific authority; and from a uthorities standpoint he has many times investigated the New Brunswick deposits. His opinion coincides with other authorities as to the quantity and value of the New Brunswick deposits.

Before closing, we would like to give a few extracts, supporting the above statements, from engineers of note William Griffiths, Mining Engineer and Geologist of Scranton, Fenn., makes the following statement:

"The approximate tonnage minable, above water level, on four miles in length, (Baltimore District) is \$6,714,000 tons; approximate tons minable below water level to depth of 1600 feet: (same area), 64,594,000 tons, or a total o' 71,308,000 tons. Deducting on account of uncertainties, 50%, there is still a total tunnage available of 35,654,000 tons on four miles of the territory. There's ample quantity of shale to warrant the installation of two mining plants.

his report:

"It will be noted therefrom that the stratigraphical position of the shale beds is identical with the position of the "shale seams of Scotland; I am satisfied that the supply of shale's practically unlimited; and estimates that there are "30,000,000 tons of shale, sufficient to give an output of 1,000 tons per day for 100 years in a small portion of the lease "hold alone, readily accessible by mining or oper-cast working."

cover only a small portion of the thirty-five miles in length included in the shale area of the Province.

We do not purpose, however, to intimate that the whole deposit in New Brunswick is of equal magnitude an quality with the district above mentioned. It has, however, been unquestionably established that many sections of this great area are equally rich.

Someone may ask what products of value are riterined from this shale. We will be a support the state of the products of value are riterined from this shale.

"Plant capacity, 1,500 long tons (2,240) lbs) per day, equal to 547,500 tons per annum, 365 days, retorts being continuously operated day and night.

"Production of crude oil 32.7 Imperial gallons per ton of shale, equals to 18,000,000 Imperial gallons per annum."

"7,961,500 " " Illuminating Oil Lubricating Oil Fuel Oil.

"1,710,000 " Fuel Oil.
"6,120,000 Pounds of Paraffin Wax.
" 1,530 tons of Coke.
" 13,687 tons Sulphate of Ammonia.

The quantity of crude oil and sulphate of ammonia in the above is based on the lowest estimate in Sir Boverton Redwood's analysis of the same. In addition to the above mentioned gasoline, further gasoline is obtained by extracting the same from the gas which is carried over a total distillation of the same of the same of the same from the gas which is carried over a total distillation.

In addition to the above mentioned gasoline, further gasoline is obtained by extracting the same from the gas which is carried over in the distillation of the shale.

This extraction is done by scrubbing the gas with heavy oil, by what is known as the "Absorbtion Process." The resultant production in gasoline being about 3 gallons per ton of shale retorted, which would amount to 1.600.000 gallons.

In speaking of this great bye-product, a few figures will be helpful. In 1905 the world's production was 649,300 metric tons of 2204.6 lbs to the ton. In 1913 it was 1,439,203 tons.

England produced in 1905, 273,550 tons; in 1913 her production had increased to 426,745 tons.

The production of France, Belgium, Holland, Spain, Italy, and other countries in 1905 was 127,000 tons, in 1913, 287,000 tons.

The price of sulphate of ammonia in 1905 was \$61.00 per ton, and in 1913 it was \$66.00 per ton. Owing to the war the price at the present time is enormously advanced over these figures. We may say that the price of sulphate of

quantity, it has not tended to lower the price.

The reason for this is that the great increase in the use of artificial fertilizers has made the demand more than keep pace with the supply.

Intensive Farming as now carried on in many parts of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the worlds and the total control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the worlds and the total control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the worlds and the total control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the worlds and the control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the world and the control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the world and the control of the world simply means that artificial fertilizers are indispensable to the tuture farming industry of the world and the control of the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means that artificial fertilizers are indispensable to the world simply means the

able to the future farming industry of the world; and sulphate of ammonia is practically the base of all artificial fertilizers

Shale is not wholly responsible for the great production above shown. The larger amount is produced from coal

coke ovens, gas works, etc.

If New Brunswick is to attain the proud position in the agricultural world that is expected of her, she must employ

MARKETS.

There has been much written about fuel oil for the Navy. The subject has been much more discussed in Engla and America than here. In England, however, in 1914, the situation became so acute, and the Admiralty being of to opinion that too high a price was being charged them for their fuel oil by the big controlling companies, the mother Parliaments decided that they must control a supply of fuel oil for their Navy. They, therefore, purchased a controlliniterest in the Angio-Persian Oil Company. At that time there was much adverse criticism of their action, but even have proven the wisdom of their course.

New Brunswick, with its possible great deposits of natural oil, with its immense bituminous shale hills, being on thousand miles hearer the Mother Land than any other oil source on the American continent should, in the near future be another source of supply for the British Navy. Would this not be a proud position for New Brunswick to occupy? Canada is today importing the greater part of her gasoline, kerosene and lubricating oils. We are also large importer of fertilizers. We have these products in shundance in this Province by the second of the characteristics.

It is expected that the capital for the development of the minerals discussed in this article wift be forth-coming in the capital for the development of the minerals discussed in this article wift be forth-coming in the capital for the development of the minerals discussed in this article wift be forth-coming in the capital for the

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