Petroleum Resources of Northern Alberta

Interesting Facts and Statistics with Respect to Production and Consumption of Petroleum Products

Up to the present time, oil in considerable quantities has not been found in Western Canada. Respecting the possibility that petroleum will be discovered, particularly in the Viking area and the Peace and Athabaska valleys, the situation may be summed

up as very promising.

A small quantity of dark oil obtained in one of the wells in the Viking gas-field is an encouraging indication, and oil has also been found in the Pelican Rapids gas-well. Seepages of oil have been found near Waterton lake in southwestern Alberta, and in the Flathead valley in southeastern

British Columbia.

In northern Alberta, there are enormous tar seepages which evidence an upwelling of petroleum unequalled elsewhere in the world. Along the Athabasca river, they extend from Pelican rapids to Fort McKay, a distance of over 100 miles. The known occurrences indicate that there is in sight at least 61/2 cubic miles of bitumen, and the petroleum from which it was derived must have been many times greater. While this enormous amount of petroleum has escaped, there must be untapped reservoirs in the Devonian limestones whence it was derived. Similar seepages occur near the Peace and Mackenzie rivers.

Near Peace River Landing, oil has been found in two wells, 900 and 1,100 feet deep, respectively. The first well is reported to have yielded 3 to 4 bbls. per day when oil was struck in the upper portion of the tar sands and to have had a maximum production of about 9 bbls. Drilling, however, was continued through the tar sands, which are about 80 feet in thickness at this point, and a heavy flow of water and gas was struck immediately below the sands.

The second well is in the tar sands and is reported to be yielding about 25 bbls. per day.

Ca

In the Sheep Creek district, about 32 miles southwest of Calgary, the production of oil is reported as follows:

we imported into Western Canada, for A careful account was kept of each defuel purposes, 95,593,497 gallons of petroleum, valued at \$2,738,555. For vefining, we imported, in the same 1st, 1918, to March 1st, 1919; year, 35,313,717 gallons, valued at RECEIPTS \$1,040,047. The discovery of extensive oil-fields in Alberta and Saskatchewan would retain in Canada at least \$3,750,000 which we are now paying for petroleum importations and an additional \$1,250,000 paid for petroleum products, such as gasolene and kerosene, or, in all, \$5,000,000.

In 1917, 312,000 gallons of gasolene and kerosene were recovered from Alberta crude oils. Presumably, part of this production was from petroleum

produced during 1916.

During 1917, the production of crude petroleum in Alberta amounted to 8,500 bbls., or 297,500 Imp.

*Commonly known as the Dingman

Mr. Dingman, president of the Cal-gary Petroleum Products Co., states that the company's oil wells have a combined capacity of 5 million cubic feet of gas per day; that their meas urements indicate a content of one gallon of gasolene per 1,000 cubic feet of gas and that, if only one-half the gasolene be recoverable, they could maintain an output of 2,500 gals, of gasolene per day.

-James White in Fuels of Western Canada.

ABOUT APPEARANCES

Appearances are often deceptive. The poorly dressed individual we sometimes see on the street may not be a vagrant, but a gentleman in hard luck. Similarly, the house that is badly in need of painting may not be the home of slovenly people, but of a family which is financially embarrassed. Nevertheless, it is true, that "the apparel oft proclaims the man" Likewise a man often either makes his own environment or his environment makes him. Paintless, weatherbeaten houses, whether in town or country, have a most depressing effect on those who must live in them, or near them. In addition, wood and metal materials rapidly deteriorate if not given a protective covering of some sort. Even whitewash, or a coat of good ochre and oil is better than nothing, but for better service and a wide variety of artistic effects paints are essential.

Company	Depth of well, feet	Specific gravity (Beaumé)	Production bbls. per day
algary Petroleum Products Co., No. 1 well* lberta Petroleum Consolidated — anada Southern Co. orthwest Pacific Co. (when op-	3,920 2,720 2,400	8° to 40° 55°	10 25 5
erating) lberta Southern Co., No. 1 well outhern Alberta Co., No. 1 well	3,500 3,200 3,300	38° 55° to 56° 58° to 60°	10 to 15 30

The Mid-West, 3,200 feet deep, and the Acme, 3,200-3,300 feet, also in the Sheep Creek district, are reported to have struck oil.

As "commercial" gasolene is 60° to 63° B., the oil produced by the Calgary Petroleum Products, Canada Southern, Alberta Southern and Southern Alberta companies approximates to the fuel ordinarily marketed

Making Small Farms Pay (Continued from page 15)

husking corn (Longfellow and Quebec Yellow) gave 175 bushels of ears and 18 tons of fodder; 16 rows of potatoes, 20 rods long, yielded 80 bushels, one acre of turnips yielded 1,200 bushels; 13 acres of pasture sustained 14 milk cows, 4 yearling heifers and 3 horses. The balance of the farm was In the year ending March 31, 1917, in soiling crop, garden, orchard, etc.

partment of the farm and below is the result of the year's operations, March

RECEIPTS	
Milk sold	\$1,951.72
Live Stock	912.20
Poultry and eggs	139.19
Farm products	80.65
Bees	20.00
Prize money, etc.	94.22
Increase in live stock	
during year, also feed	593.00
TotalExpenses	\$3,790.98
Feed purchased	\$451.29
Stock purchased	
Repairs, upkeep, insurance,	
etc	
Hired help, silo filling, etc	_ 85.25
Loss on stock	16.00
Interest on investment (\$10,000 at 6 per cent)	600.00
Taxes	82.55
Total	\$1,889.11
Total income, including in-	

\$196.98, repairs to building, machinery, etc

Total wages for my wife

crease in live stock of

Total expenses, including

\$593.00 -----

and myself over expenses \$1,901.87 "In addition to this income, we also had free house, all the vegetables, apples, maple syrup, milk, eggs and fowls that we required. We also had our butter, until Nov. 1st, when we commenced shipping milk to Montreal. These results were obtained under ordinary conditions. While we have a number of pure bred animals, we valued them as grades. From March 1st, 1918, until May, the cream was shipped. From May until Oct. 15, the milk was sent to the condensery. From Oct. 15th until March 1st, 1919 the whole milk was sent to Montreal."

A NEGLECTED FERTILIZER

Many towns and cities have experienced a scarcity of manure since the vacant-lot garden movement has become so popular. The St. Thomas Horticultural Society, a very wideawake institution, has met this difficulty by collecting and storing annually about 400 loads of pavement sweepings, stable manure and leaves. This is stored in a convenient place just outside the city where it decomposes, being frequently turned to hasten rotting and prevent burning. It is afterwards applied to the Society's boulevard beds and to reclaimed waste areas, whilst some is sold to members. It is important that as much leaveand stable manure as possible be mixed with the pavement sweepings as the latter are apt to be leached out and to consist of a good deal of dira not of high manurial value.

POTATO SEED TESTS

Tests by the Ontario Department of Agriculture, last year, showed that 1,000 men for about fifteen years potatoes grown from Northern Ontario seed yielded 30 bags per acre more than those grown from Old Ontario seed. New Brunswick seed did not give quite as good results as that ious soils in the province planted t from Northern Ontario

Solving Pure Seed Problem in Quebec

Co-operative Seed Cleaning and Grading Plant is Proving Valuable Asset

At Ste. Rosalie, Que., is to be found one of the most unique co-operative enterprises of its kind on the North American continent. It is a plan ontaining an equipment for the pur pose of cleaning and grading see grain for the farmers of the province seed grain and some other farm sup olies are also bought and sold.

The capital required for the erec ion of the plant and the purchasin of the machinery was raised by sell ng shares at \$100 per share, each shareholder being limited to one share

The need for cleaner and bette graded grain for seed purposes ha ong been felt in Quebec and thi plant is intended to meet the need The cleaning and grading machine n the plant was made in France an is the very best of its kind obtainable \$3,790.98 A fixed charge is made for cleaning and grading.

The cleaning is well done, which is 1,889.11 a distinct improvement on old con ditions, as there are very few good fanning mills in the district. Wheat is turned out in four grades as to plumpness and size of berry. best is used for seed and the other grades are used for flour or feed purposes according to the quality. Oats are graded into two grades. The largest and plumpest being used for seed and the smaller and inferior ker-nels ground for feed. In this way, the proportion of the grain unfit for seed is best utilized by feeding it rather than by sowing. Grass, clove and all cereals are handled in this plant.

> A three per cent discount off list prices is made to members and shareholders who purchase seeds or other supplies handled by the Society. Farmers' clubs and other co-operative societies may join the Ste. Rosalie society and receive the same benefits on purchases as individual members The plant is running at full capacity and it is the hope of the Society that many other farm products and supplies will eventually be handled by them. The profits are being allowe to accumulate for the purpose of en larging the plant in the near future -F. C. Nunnick.

COPPER IN MANITOBA

The copper discoveries of Mani-oba are rapidly assuming considerable magnitude. Prof. Wallace, Commisioner for Northern Manitoba, sta that, in one copper mine, as yet un developed, 20,000,000 tons of averaging \$8.75 a ton in value been blocked out. He estimates when railway facilities are availa this area will provide employment

These tests will be continued three years more and an effort will be made to test the productivity of var the same kind of seed.