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CANADA

DEPARTMENT OF TRADE AND COMMERCE

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THE NATURAL GAS INDUSTRY

IN

CANADA

1938

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| | |
|--------------------------------------|---|
| Dominion Statistician: | R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.) |
| Chief, Mining, Metallurgical Branch: | W. H. Losee, B.Sc. |
| Fuel Statistician: | B. R. Hayden. |

THE NATURAL GAS INDUSTRY IN CANADA, 1938.

Natural gas production in Canada during 1938 advanced to 33,444,791 thousand cubic feet valued at \$11,587,450 from the 1937 output of 32,380,991 thousand cubic feet worth \$11,674,802 and, the 1936 total of 28,113,348 thousand cubic feet at \$10,762,243.

New Brunswick wells produced 577,492 thousand cubic feet compared with 576,671 thousand cubic feet, a year ago. Wells in the Stoney Creek field, near Moncton supplied gas for the use of approximately 5,700 consumers in Moncton and Hillsboro. There were 36 gas wells in operation in this province at the end of 1938.

An increase of 1.9 per cent was recorded in Ontario's output; the 1938 total was 10,952,806 thousand cubic feet as against 10,746,334 thousand cubic feet in 1937. Developments in this province during 1938 were summarized as follows by Col. R. B. Harkness, Commissioner of Gas for Ontario:

"On the whole, the natural gas industry is in a healthy state and producers are optimistic as indicated by the great increase in acreage under lease. The gas fields are producing sufficient to meet the demands, although the pressure in the old fields is becoming dangerously low. Drilling in the Brownsville field has practically ceased; wells have been spaced much closer than has ever before been the practice excepting along boundaries of lease blocks.

"The practice of "crowding the line" along competitive boundary lines has been frowned on by the Department of Mines since the control of the industry was first placed in the hands of the government. A regulation was put into effect in 1919 fixing the distance between the wells of opposing interests at 1,000 feet, a distance considered to be good practice. Prior to this date wells of opposing interests had been drilled as close as 50 feet. The 1919 regulation was found unsatisfactory, because where wells were drilled on small acreages or on narrow leases and all others made to keep 1,000 feet distant, other lease owners would in many cases have been deprived of the right to drill for and recover their own gas. So much investigation and arbitration was entailed in the administration of this regulation and such difficulty was found in carrying it out that it was repealed by common consent and a new regulation substituted on February 4th, 1937. The new regulation is:

No person shall drill any well within three hundred and fifty (350) feet of a boundary line of a property owned or leased by any person or company other than the person or company which proposes to drill the said well, without the approval of the Commissioner.

"Manufacturers of gas appliances continue to improve their wares both along lines of convenience, efficiency and in colour schemes. A new gas range known as the C.P. Range (Certified Performance) is now offered that fulfills any and every task

that the most particular housewife might demand. Other than new and improved labour-saving devices and perfected insulation, a pressure regulator and filter has been added which insures against imperfect combustion resulting from pressure variations. With the assurance that no carbon monoxide can be formed from partially burned gases, the smoke pipe has been removed from most modern gas stoves. Another appliance that has reached maturity of design and has passed trials in the hands of the public is the gas refrigerator. It operates on either gas or kerosene and has no moving parts. Further advances have been made in the design of moderate price water heaters and furnace burners.

"The increase in the consumption of gas in 1938 over 1937 is only about 2 percent and can be accounted for by the increase in the number of consumers. Brownsville and Glencoe have been added to the municipalities supplied with natural gas. There has been a healthy growth in the demand for natural gas for all purposes.

"There has been little change in the rates charged for natural gas, and any revision has been somewhat downward in the average price.

"Drilling continued in the Declute field with average success. The wells drilled in Raleigh township are in the extension of the Dover township gas and oil field, which now reaches across the Thames river into Raleigh township for about one mile, and the limits have not yet been reached. These wells are about 3,000 feet deep, and most of them produce both gas and oil. No drilling was done in Chatham township in 1938, where eight producing wells are now closed in until further exploratory work is done. Drilling in the Dawn field in Lambton county has been most discouraging in 1937 and 1938; no producing wells have been found. Drilling in Middlesex to test the producing horizons of the Guelph and Clinton has met with no success, nor has a deep test to the Trenton limestone in Blanchard township, Perth county. In the Brownsville field drilling continued throughout the year. There were at the end of the year seventy-seven producing wells. Nine dry holes were drilled in Elgin county, in search of gas in the Guelph which is the producing horizon of the Brownsville field. There was little drilling in Norfolk county. Drilling in Haldimand county has fallen off greatly; 50 wells were drilled in 1938 as compared with 67 wells in 1937. In previous years most of this drilling was in Walpole township, but in the past year Rainham township received the most attention. In Lincoln, Welland and Brant counties a few wells are drilled each year. These fields are very old, and the rock pressure has declined to a minimum. Drilling in Bruce and Grey counties did not prove profitable, and the few producers drilled in 1936 with one exception have been abandoned. Two more producing wells have been drilled in the vicinity of Picton Prince Edward county.

"Although drilling activity as represented by totals was not as active in 1938 as in 1937, the year saw considerable exploratory work, which in 1939 is rapidly developing a new gas field in Malahide township. A new territory in the northern part of Huron county is claiming the attention of prospectors, who believe that a promising structure has been located. This structure was indicated in a map by M.Y. Williams published by Geological Survey of Canada in Memoir 111, "The Silurian Geology and Faunas of Ontario Peninsula and Manitoulin and Adjacent Islands". Further work by independent geologists has been done since the work mentioned was published in 1919.

"In 1938, 53 dry wells with a footage of 63,885 and 118 producing wells with a footage of 114,801 were drilled; a total of 171 wells and 178,686 feet.

"The number of drilling rigs working was 63 and the number of men employed, 148. The wages paid them was \$95,149. The capital invested in drilling equipment amounted to \$327,716.

"In the past year distributing companies have spent a very considerable sum in improvements to service.

"A distributing system was installed in Brownsville by the Oxford Pipe Line Company and in Glencoe by the Union Gas Company, giving these municipalities natural gas for the first time.

"A compressor station was built by the Dominion Natural Gas Company at Rainham, in the central part of Haldimand county in order to improve service to the Port Colborne and St. Catherine areas. Some remote wells in Sherbrooke township were also connected into the Port Colborne pipeline, and some larger sized pipelines were added in St. Catharines. In St. Thomas a considerable amount of new intermediate pressure line was laid, and two new regulator stations were installed. This became necessary through the increase in the demand for gas.

"The Dominion Natural Gas Company sold its wells and lines in and around the villages of Vienna, Port Burwell, and Straffordville to the Central Pipe Line Company. The Dominion Natural Gas Company report seven leakage surveys, renewals, and repairs throughout their pipeline system.

"The Union Gas Company report having laid 19 miles of high pressure transmission pipeline from 3 inch to 10 inch to replace old pipe, which was mostly of smaller sizes. This includes renovating and various alterations to improve service to municipalities. Five miles of new distributing lines were laid to replace old pipe in Windsor, Wallaceburg, Petrolia, Sarnia, Dresden and Tilbury.

"The Provincial Gas Company report having replaced one mile of 8 inch pipe and $1\frac{1}{2}$ miles of smaller sizes.

"The Central Pipe Line Company extended their operations in the Brownsville field. Originally they had two wells supplying gas through a 3-inch pipeline to Aylmer, with a purification plant at Springfield; they have now drilled producing wells in the adjoining lots in Bayham township and are delivering gas through an 8-inch pipeline to the Dominion Natural Gas Company's transmission line near the village of Eden. This company has built another purification plant near Corinth."

Ontario's natural gas industry in 1938 included the activities of 183 operating, distributing and drilling firms who reported a total capital investment of \$51,054,815. Employment was furnished by these firms to 1,412 salaried employees and wage-earners who received salaries and wages totalling \$1,657,917. Fuel consumption by these operators necessitated an expenditure of \$49,030; 77.2 per cent of this outlay was for natural gas.

Natural gas production in Saskatchewan declined to 90,285 thousand cubic feet from the 1937 output of 100,380 thousand cubic feet. The 1938 output was used principally to supply consumers in Lloydminster.

Production from Alberta wells was recorded at 21,822,108 thousand cubic feet; this represented an increase of 4.1 per cent over the output a year ago. These figures include only the natural gas consumed for industrial and domestic purposes and do not take into account the waste gas burned in the Turner Valley field and the gas piped to the Bow Island field for storage.

The Turner Valley field, about 35 miles southwest of Calgary, is the largest natural gas producing area in Canada. In 1938, the consumption of Turner Valley gas for industrial (including drilling) and domestic use was 15,333,488 thousand cubic

feet as against 14,101,222 thousand cubic feet a year ago. Approximately 23,800 consumers in Calgary, Lethbridge and the district were served with this gas in 1938; in addition, a considerable quantity was used in the field for drilling purposes. Continuing the practice of previous years, a large quantity of Turner Valley gas was piped to the Bow Island field for repressuring wells in that area. Since 1930, approximately 13,755,000 thousand cubic feet of this gas has been piped into these wells.

Consumption in the city of Medicine Hat totalled 1,999,404 thousand cubic feet compared with 2,262,552 thousand cubic feet in 1937. Some 2,500 consumers were supplied with gas from the Medicine Hat field in 1938. About 270 industrial and domestic users were supplied with 594,119 thousand cubic feet of gas from the Redcliff field which is located about two miles west of Medicine Hat.

The Viking field, located approximately 80 miles southeast of Edmonton, supplied 11,500 consumers in that city and users outside the city with 3,338,955 thousand cubic feet of gas in 1938. Twenty-one wells were in operation in the Viking field during the year.

Approximately 300 consumers in Wainwright were supplied with gas from the Maple Leaf well in the Fabyan field.

There were 97 wells in Alberta producing natural gas ONLY on December 31, 1938; a year ago, 100 wells were active. Companies operating in this industry in 1938 reported capital employed amounting to \$26,057,961 as against \$24,710,670 in 1937. The industry employed 445 persons, who received salaries and wages totalling \$703,472. Fuel and electricity used during the year cost \$2,660.

At Fort Norman, in the Northwest Territories 1,500 thousand cubic feet of natural gas were used for power purposes in 1938.

Imports of mixed gas (natural and artificial) by pipeline from the United States amounted to 133,062 thousand cubic feet worth \$87,311. In 1937, importations totalled 114,275 thousand cubic feet at \$74,799.

There were 218 operators in the natural gas industry in Canada in 1938; capital employed by these operators totalled \$79,143,830. This industry furnished employment to 1,966 employees who were paid \$2,506,121. The cost of fuel and electricity used during the year was \$67,725.

Table 1 - PRODUCTION OF NATURAL GAS IN CANADA, BY PROVINCES, 1937 and 1938.

| Province | 1 9 3 7 | | 1 9 3 8 | |
|------------------------|------------|------------|------------|------------|
| | M cu. ft. | Value | M cu. ft. | Value |
| | | \$ | | \$ |
| New Brunswick | 576,671 | 283,922 | 577,492 | 284,689 |
| Ontario | 10,746,334 | 6,588,798 | 10,952,806 | 6,460,764 |
| Manitoba | 600 | 180 | 600 | 180 |
| Saskatchewan | 100,380 | 35,130 | 90,285 | 34,136 |
| Alberta | 20,955,506 | 4,766,437 | 21,822,108 | 4,807,346 |
| Northwest Territories. | 1,500 | 335 | 1,500 | 335 |
| CANADA | 32,380,991 | 11,674,802 | 33,444,791 | 11,587,450 |

Table 2 - NATURAL GAS PRODUCTION IN ONTARIO, BY FIELDS, 1937 and 1938. (a)

| County | Field | 1 9 3 7 | 1 9 3 8 |
|------------------------|-----------------------|--------------|------------|
| | | M cu.ft. | M cu.ft. |
| Essex | Kingsville | 3,245,333 | 3,265,726 |
| | (Tilbury) | | |
| | (Declute) | 1,512,300 | 1,797,789 |
| Kent | (Dover) | 636,552 | 509,677 |
| Lambton | Dawn and Oil Springs | 1,890,874 | 1,894,730 |
| Oxford | (Brownsville (Dereham | 455,611 | 506,005 |
| Elgin | (Field (Bayham | 31,320 | 50,917 |
| Elgin | Bayham | 260,974 | 113,651 |
| Norfolk | Norfolk | 441,375 | 437,867 |
| Lincoln | Lincoln | | |
| Haldimand | Haldimand | 1,784,257 | 1,912,882 |
| Wentworth | Wentworth | | |
| Brant | Onondaga | 112,482 | 135,348 |
| Bruce | Amabel | 2,763 | 1,129 |
| Welland | Welland | 298,493 | 253,085 |
| Wells in surface drift | Howard and Harwich | 14,000 | 14,000 |
| Private wells | | 60,000 | 60,000 |
| Total Produced | | 10,746,334 | 10,952,806 |
| Value | | \$ 6,588,798 | 6,460,763 |
| Imported mixed gas | | 113,495 | 125,807 |
| Total distributed | | 10,859,829 | 11,078,613 |

(a) Prepared by the Ontario Department of Mines.

Table 3 - PRODUCTION OF NATURAL GAS IN CANADA, BY MONTHS, 1937 and 1938.

| | New Brunswick | Ontario | (a) Manitoba | Saskatchewan | Alberta | CANADA |
|-----------|---------------|------------|--------------|--------------|------------|--------------|
| 1 9 3 7 | M cu.ft. | M cu.ft. | M cu.ft. | M cu.ft. | M cu.ft. | M cu.ft. |
| January | 67,813 | 1,194,640 | 50 | 17,659 | 3,195,979 | 4,476,141 |
| February | 67,845 | 1,140,411 | 50 | 14,779 | 2,598,469 | 3,821,554 |
| March | 65,788 | 1,117,123 | 50 | 11,665 | 1,992,147 | 3,186,773 |
| April | 64,111 | 937,775 | 50 | 6,498 | 1,604,708 | 2,613,142 |
| May | 48,303 | 723,575 | 50 | 3,677 | 1,132,334 | 1,907,939 |
| June | 33,947 | 568,068 | 50 | 2,431 | 891,356 | 1,495,852 |
| July | 26,778 | 528,138 | 50 | 1,879 | 850,464 | (b)1,407,809 |
| August | 22,631 | 498,283 | 50 | 2,854 | 904,582 | (b)1,428,900 |
| September | 26,225 | 734,357 | 50 | 3,437 | 1,069,176 | (b)1,833,745 |
| October | 41,542 | 874,829 | 50 | 6,976 | 1,631,390 | 2,554,787 |
| November | 52,005 | 1,063,788 | 50 | 12,345 | 2,219,256 | 3,347,444 |
| December | 59,683 | 1,365,347 | 50 | 16,180 | 2,865,645 | 4,306,905 |
| TOTAL | 675,671 | 10,746,534 | 600 | 100,380 | 20,955,506 | 32,380,991 |
| 1 9 3 8 | | | | | | |
| January | 72,760 | 1,576,320 | 50 | 11,957 | 2,404,750 | 4,065,837 |
| February | 69,635 | 1,437,690 | 50 | 16,564 | 2,523,826 | 4,047,765 |
| March | 67,298 | 1,184,070 | 50 | 9,840 | 1,944,099 | 3,205,357 |
| April | 59,887 | 970,049 | 50 | 6,512 | 1,917,026 | 2,953,524 |
| May | 50,177 | 602,529 | 50 | 4,614 | 1,486,372 | 2,143,742 |
| June | 37,305 | 505,549 | 50 | 1,670 | 1,185,754 | 1,730,328 |
| July | 26,472 | 430,628 | 50 | 1,887 | 1,136,218 | (b)1,595,755 |
| August | 22,061 | 474,426 | 50 | 2,880 | 1,271,891 | (b)1,771,808 |
| September | 29,314 | 606,226 | 50 | 2,347 | 1,294,354 | (b)1,932,791 |
| October | 41,490 | 752,359 | 50 | 7,757 | 1,721,816 | 2,523,472 |
| November | 43,970 | 1,048,986 | 50 | 10,362 | 2,278,593 | 3,381,961 |
| December | 57,123 | 1,363,974 | 50 | 13,895 | 2,657,409 | 4,092,451 |
| TOTAL | 577,492 | 10,952,806 | 600 | 90,285 | 21,822,108 | 33,444,791 |

(a) Estimated. (b) Includes production from Fort Norman, Northwest Territories.

Table 4-PRINCIPAL STATISTICS OF THE NATURAL GAS INDUSTRY IN CANADA, 1936,1937 and 1938.

| | 1936 | 1937 | 1938 |
|---------------------------------------|---------------|---------------|---------------|
| Number of firms | 227 | 218 | 218 |
| Capital employed \$ | 77,666,568 | 75,611,107 | 79,143,830 |
| Number of employees - On salary | 797 | 787 | 808 |
| On wages | 1,278 | 1,241 | 1,158 |
| Total | 2,075 | 2,028 | 1,966 |
| Salaries and wages - Salaries | \$ 1,137,506 | \$ 1,142,020 | \$ 1,152,029 |
| Wages | \$ 1,319,412 | \$ 1,346,105 | \$ 1,354,092 |
| Total | \$ 2,456,918 | \$ 2,488,125 | \$ 2,506,121 |
| Cost of fuel and electricity | \$ 77,658 | \$ 75,690 | \$ 67,725 |
| Selling value of products | \$ 10,762,243 | \$ 11,674,802 | \$ 11,587,450 |

Table 5 - NATURAL GAS PIPELINE MILEAGE IN CANADA, 1937 and 1938.

| | ACTUAL MILES OF MAIN | | | | MILES OF EQUIVALENT 3" MAINS | | | |
|------------------|----------------------------|-------|--------------|-------|------------------------------|-------|--------------|-------|
| | Gathering and Transmission | | Distribution | | Gathering and Transmission | | Distribution | |
| | 1937 | 1938 | 1937 | 1938 | 1937 | 1938 | 1937 | 1938 |
| New Brunswick .. | 20 | 20 | 60 | 61 | 41 | 58 | 64 | 54 |
| Ontario | 2,136 | 2,151 | 2,101 | 1,896 | 3,709 | 3,719 | 2,311 | 2,073 |
| Saskatchewan .. | ... | ... | 7 | 7 | ... | ... | 6 | 6 |
| Alberta | 608 | 620 | 556 | 560 | 1,950 | 1,984 | 957 | 965 |
| CANADA | 2,764 | 2,791 | 2,724 | 2,524 | 5,700 | 5,761 | 3,338 | 3,098 |

Table 6 - PRICES OF NATURAL FUEL GAS USED FOR DOMESTIC CONSUMPTION IN SPECIFIED CITIES
IN CANADA, 1913, 1937 and 1938.

(Prepared in the Internal Trade Branch)

Net price per 1,000 cu.ft. (exclusive of meter rent or other service charges)
(Where double quotations are shown, the first figure is the regular rate, and the second figure is the summer rate; single quotations apply to the end of the year)

| | 1913 | 1937 | 1938 |
|----------------------|------|------|------|
| | \$ | \$ | \$ |
| New Brunswick - | | | |
| Moncton | .38 | .50 | .50 |
| Ontario - | | | |
| Brantford | .30 | .80 | .80 |
| Chatham | .25 | 1.36 | 1.36 |
| Galt | - | .80 | .80 |
| London | - | 1.40 | 1.40 |
| Niagara Falls | .40 | 1.00 | 1.00 |
| Port Colborne | - | .80 | .80 |
| St. Catharines | .70 | .75 | .75 |
| Sarnia | .30 | .55 | .55 |
| | | .80 | .80 |
| Welland | .28 | 1.00 | 1.00 |
| Windsor | .30 | 1.40 | 1.40 |
| Woodstock | .35 | .80 | .80 |
| Alberta - | | | |
| Calgary | .30 | .33 | .33 |
| Edmonton | - | .38 | .38 |
| Medicine Hat | .135 | .237 | .237 |

MANUFACTURED GAS

Table 7-SALES OF MANUFACTURED GAS, NUMBER OF CUSTOMERS and MILEAGE OF PIPE LINES, 1938.

| Areas | No. of custom- ers | No. of active meters | GAS SALES | | Mileage of pipe lines | Approximate population served by mains |
|----------------------|--------------------------|----------------------------|------------|------------|-----------------------------|---|
| | | | M cu. ft. | \$ | | |
| Eastern provinces .. | 190,979 | 218,790 | 4,973,548 | 5,574,211 | 984 | 1,608,600 |
| Ontario | 220,068 | 211,893 | 8,348,474 | 7,457,070 | 1,893 | 1,260,000 |
| Western provinces .. | 64,690 | 69,690 | 1,876,046 | 1,969,861 | 841 | 506,000 |
| TOTAL | 475,737 | 500,373 | 15,198,068 | 15,001,142 | 3,718 | 3,374,600 |

Table 8 -- GENERAL RATES FOR MANUFACTURED GAS IN CANADIAN TOWNS AND CITIES, 1938.

| Towns or Cities | APPROXIMATE | | GENERAL | RATE |
|------------------------|--------------------|----------------------|--|------|
| | Per M cu.ft. Gross | Discount | | |
| | \$ | | | |
| Halifax, N.S. | 2.00 - 1.10 | 10 cents per M | 1.00 per month for pre-payment meters. | |
| Saint John, N.B. | 1.80 - 1.45 | 10 cents per M | 60 cents per month. | |
| Quebec, P.Q. | 1.66 - 0.90 | 10 per cent | - | |
| Sherbrooke, P.Q. | 1.35 - 1.00 | 10 per cent | (x) | |
| Montreal, P.Q. | 1.17 - 0.50 | 10 per cent | 14 to 55 cents per meter per month. | |
| Barrie, Ont. | 2.00 | 10 per cent | 75 cents per month. | |
| Belleville, Ont. | 1.60 - 1.00 | 10 cents penalty | 50 cents per month. | |
| Brockville, Ont. | 1.50 | 10 per cent | (x) | |
| Guelph, Ont. | 0.65 - 0.40 | 10 per cent penalty | (x) | |
| Kingston, Ont. | 1.20 - 0.90 | 10 per cent | (x) | |
| Toronto, Ont. | 0.90 - 0.52 | (x) | (x) | |
| Cobourg, Ont. | 2.20 - 1.65 | 10 per cent | 55 cents per month. | |
| Oshawa, Ont. | 2.00 - 0.60 | (x) | (x) | |
| Whitby, Ont. | 1.50 - 1.05 | 10 cents penalty | (x) | |
| Bowmanville, Ont. | 1.50 - 1.05 | 10 cents penalty | (x) | |
| Peterborough, Ont. | 1.45 - 1.00 | 10 per cent | 45 cents per month. | |
| Kitchener, Ont. | 0.95 - 0.75 | (x) | (x) | |
| Waterloo, Ont. | 1.20 (net) | (x) | (x) | |
| Ottawa, Ont. | 1.36 - 1.00 | 10 cents per M | 50 cents per month. | |
| Port Hope, Ont. | 2.50 - 2.00 | (x) | \$1.20 per year. | |
| Owen Sound Ont. | 1.25 - 1.10 | 10 per cent | 19 cents per month meter rent. | |
| Stratford, Ont. | 1.72 - 1.11 | 10 per cent | 25 cents per month. | |
| Hamilton, Ont. | 0.80 - 0.40 | 5 to 15 cents per M | (x) | |
| Sault Ste. Marie, Ont. | 1.70 - 0.50 | (x) | (x) | |
| Brandon, Man. | 2.10 - 1.39 | 10 per cent penalty | (x) | |
| Winnipeg, Man. | 1.30 - 0.95 | 10 per cent discount | - | |
| Nelson, B. C. | 2.25 - 1.25 | 10 cents per M | (x) | |
| Vancouver, B. C. | 1.25 - 1.15 (net) | 25 cents per M | (x) | |
| New Westminster, B.C.) | 15 cents above | (x) | (x) | |
| Burnaby, B. C.) | Vancouver | (x) | (x) | |
| Victoria, B. C. | 1.75 - 0.45 | (x) | 25 cents per month meter rent. | |

(x) Not mentioned on report.

FIRMS OPERATING IN THE NATURAL GAS INDUSTRY IN CANADA, 1938.

- NOTE - (a) Drilling only.
 (b) Distributing only.
 (c) Producing wells drilled in 1938 - no output reported.
 (d) Dry wells drilled in 1938.
 (e) Drilling and producing.
 (f) Pipe line company.
 (g) Using or selling gas from absorption plant.

| <u>NAME</u> | <u>ADDRESS</u> | <u>LOCATION-FIELD</u> |
|--|---|---|
| <u>NEW BRUNSWICK</u> - | | |
| (b) Moncton Electricity & Gas Co., Ltd., 700 Main St., Moncton New Brunswick Gas & Oilfields, Ltd., P.O. Box 194, Moncton | | - Stony Creek. |
| <u>ONTARIO</u> - | | |
| Acme Gas & Oil Co., Ltd. | Suite 1602, 330 Bay Street, Toronto | Middleton. |
| Adams Truemer Co. | c/o Hotel Belvidere, London | Dereham |
| (e) Ajax Oil & Gas Co., Ltd. | 85 Richmond St.W., Toronto | Dover, Middleton, Raleigh and Tuscarora. |
| (a) Allen, A. J. | Dunnville | - |
| Aloka Oil Co., Ltd. | 57 Queen St.W., Toronto | Dereham. |
| Amity Gas Co. | Lowbanks | Moulton. |
| Avery, Esmond & Company | 5172 St. Jean Ave., Detroit, Mich., U.S.A. | Cayuga North |
| Barnhart, Mrs. E. | Stevensville | Bertie |
| Beacon Natural Gas Syndicate | 112 Locust St., Kitchener | Walpole |
| Beer, Geo. | Binbrook | Binbrook. |
| Benn, A. S. | Hagersville | Walpole. |
| Bertie Gas Co. | Fisherville | Bertie and (c) Willoughby |
| Binbrook Gas Co. | Binbrook | Binbrook. |
| Broadway Gas Syndicate | Jarvis | Walpole |
| Brownsville-Nelson Gas Syndicate | Capitol Park Building Detroit, Mich. U.S.A. | Bayham |
| Buck, C. S. | Port Rowan | Walsingham South. |
| Burchell Natural Gas & Oil Syndicate | 1111 Canada Permanent Bldg., Toronto. | Canboro, Raleigh, and Woodhouse. |
| Canada Cement Co. Ltd., | Port Colborne | Wainfleet. |
| Canadian Natural Gas Syndicate | Simcoe | Bayham & Moulton. |
| Canadian Penn Grade Producers | 44 George St., Brantford | Onondaga. |
| Canby, B. F. | Wainfleet | Wainfleet |
| Canfield Gas Syndicate | 703 Capitol Park Bldg., Detroit, Mich., U.S.A. | Cayuga North. |
| Canfield Natural Gas Co. Ltd. | Canfield | Cayuga North. |
| Cartwright, S. E. | 1972 Penobscot Bldg., Detroit, Mich., U.S.A. | Walpole. |
| Central Pipe Line Co. Ltd., | Chatham | Bayham, Dereham, Houghton, Malshide and Middleton. |
| Central Seneca Gas Syndicate | Cayuga | Seneca. |

ONTARIO - con.

| | | |
|--|--|---|
| (b) City Gas Company of London Colbert, M.A. Coleman, J.A. | 215 Dundas St., London Welland Junction Wellandport | - Walpole. Gainsboro and Wainfleet. |
| Colonial Natural Gas and Oil Co. Columbia Natural Gas & Oil Co.Ltd., Comins, H.M. Connor & McKechnie Continental Gas Corp. Ltd., | Stoney Creek 575 Pigott Bldg., Hamilton Flint, Mich., U.S.A. Aylmer Goderich | Canboro and Moulton. Dunn. Rainham. Bayham. Binbrook and Walpole. |
| Coronation Gas Syndicate (e) Culver, W.H. Estate | Stevensville Dunnville | Bertie. Moulton and Oneida. |
| Dawson, Ralph Dean Gas Syndicate | Merlin Tillsonburg | (c) Bayham and Middleton. |
| Delhi Gas Syndicate Dereham Gas and Oil Co. | Cayuga 80 Richmond St.W., Toronto | Windham. Oneida, Rainham Walpole and Walsingham South. Moulton, Rainham, Seneca & Walpole. |
| Domestic Natural Gas Syndicate | 36 Toronto St., Toronto | Bayham, Binbrook, Caistor, Canboro, Cayuga, (North and South), Charlotteville, Dunn, Glanford, Houghton, Humber- stone, Middleton, Moulton, Oneida, Onondaga, Rainham, Seneca, Sherbrooke, Townsend, Wainfleet, Walpole, Walsing- ham (North and South) Windham and Woodhouse. |
| Dominion Natural Gas Co., Ltd. | 518 Jackson Bldg., Buffalo, N.Y., U.S.A. | |
| Dunnville-Detroit Gas Syndicate | Capitol Park Bldg., Detroit, Mich., U.S.A. | Cayuga North. |
| East Side Gas Co. | Lowbanks | Sherbrooke. |
| Economy Natural Gas Syndicate | Stratford | Moulton, and Woodhouse. |
| Emerald Gas Syndicate | 100 Adelaide St.W., Toronto Dunnville | Oneida. Canboro and Moulton. |
| (e) Emerson, H.L. | Wainfleet | Wainfleet |
| (c) Emerson, Lloyd Empire Natural Gas Ltd., | 25 King St. W., Toronto | Walpole and Walsingham South. |
| Erie Gas Limited | c/o The Premier Trust Co., 15 Richmond St.W., Toronto | Woodhouse. |
| (a) Evans, H. Fisherville Gas Co. Gas Producers Syndicate | Brownsville Fisherville 703 Capitol Park Bldg., Detroit, Mich., U.S.A. | Rainham. |
| Gazzo Natural Gas Limited Gifford, A., & Son | 45 Regal Road, Toronto Cayuga | Raleigh. Rainham. Cayuga South. |

ONTARIO - con.

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| (e) Glenny, D. Grand River Gas & Oil Syndicate | Dunnville | Canboro. |
| (a) Gregory, Geo. F., & Son Grimsby Natural Gas Co. Ltd. | Canfield | Cayuga North. |
| | Petrolia | - |
| | Grimsby | Caistor and (c) Gainsboro. |
| Haldimand Gas Syndicate | Cayuga | Rainham. |
| Haldimand Natural Gas Syndicate | Stevensville | Bertie. |
| Highbank Oil Limited | Chatham | Raleigh. |
| (a) High Grade Natural Gas Co. Hill, A.W. | Chatham | - |
| Holmes, A.B. and Rodgers, A.L. | Coatsworth | Tilbury East. |
| (a) Hoover, A.E. Hope Gas Company | Tillsonburg | Bayham. |
| (e) House, Charles C. | Selkirk | - |
| (a) Hussey, W.J. Ideal Gas Syndicate | 43 Ontario St., St. Catharines | Moulton. |
| (e) Jackson, Percy L. | Stevensville | Bertie. |
| | Petrolia | - |
| | Fisherville | (d) Dunn and Rainham. |
| | Dunnville | Canboro, Moulton and Onondaga. |
| Jackson and Graff Syndicate | Dunnville | Crowland, (c) (d) Wainfleet and (d) Willoughby. |
| Jasperson, Bon | Kingsville | Gosfield South. |
| Kelly Gas & Oil Syndicate | 15 Drayton Ave., Toronto | Rainham and Walpole. |
| (e) Kidd, L.W. Kindy, D., & Sons | 181 Strathearn Rd., Toronto | Bayham and Dereham. |
| (a) Kiser Bros. Ladd & Kabana | Selkirk | Rainham. |
| | Hicks Bldg., Chatham | - |
| Ladd & Knight | 1957 Penobscot Bldg., Detroit, Mich., U.S.A. | Tilbury East. |
| Ladd-Knight-Medina Company | 1957 Penobscot Bldg., Detroit, Mich., U.S.A. | Walpole. |
| Ladd and Zeigen | 1957 Penobscot Bldg., Detroit, Mich., U.S.A. | Dover. |
| Lake Erie Gas Syndicate | 1957 Penobscot Bldg., Detroit, Mich., U.S.A. | Tilbury East. |
| (a) Lauer, D.G. | 57 Queen St. W., Toronto | Rainham. |
| (b) Leamington, Town of Lincoln Gas Co. Ltd., | Tillsonburg | - |
| | Leamington | - |
| Lindsay, William B., Estate of | 10 Adelaide St. E., Toronto | Caistor, Canboro and Gainsboro. |
| Lomac Gas and Oil Company | Canada Permanent Bldg., Edmonton, Alberta. | Canboro, Rainham and Walpole. |
| (e) Lymburner Bros. & Webber | 745 Talbot St., St. Thomas | Bayham. |
| | Dunnville | Moulton, Rainham and Walpole. |
| Lynn Valley Gas Syndicate | Kitchener | Oneida. |
| (b) Manufacturers Natural Gas Co. Ltd. | 518 Jackson Bldg., Buffalo, N.Y., U.S.A. | - |
| (c) May-Gold Gas Company | Canboro | Marysburgh. |
| (a) McCutcheon, Thos. J. and T.O. | Dunnville | - |
| (e) McKechnie, S. McKechnie & Hussey | Dunnville | Walpole. |
| McKillop, Wm. | Dunnville | Canboro. |
| (a) McNinch, S.E. Melrose Gas Company | Dunnville | Walpole. |
| Middleton-Norfold Gas Co., Ltd. | Canboro | - |
| | 911 Kent Bldg., Toronto | Oneida. |
| | 52 Young St., Stratford | Middleton. |

ONTARIO - con.

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| Midfield Gas Corp., | 1108 Victory Bldg., Toronto | Cayuga North, and Oneida. |
| Midwal Oil & Gas Co., Ltd. | 22 King St. W., Toronto | Cayuga South, Middleton and Walsingham North. |
| Minnicog Gas Company | 5172 St. Jean Ave., Detroit, Mich., U.S.A. | Cayuga North. |
| Mohawk Gas & Oil Syndicate, Ltd. | 421 Main St.E., Hamilton | Canboro, Oneida and Walpole. |
| Monarch Gas & Oil Syndicate | Fisherville | Walpole. |
| (a) Nagle, E. | Stevensville | - |
| National Gas Syndicate | Dunnville | Seneca. |
| Nelles Corners Gas Company | Hagersville | Cayuga North and Rainham. |
| New Eden Natural Gas Co. Ltd., | Simcoe | Bayham. |
| New Tillsonburg Oil & Gas Co. Ltd., | 26 Adelaide St.W., Toronto | Middleton. |
| Niagara Natural Gas Co. Ltd., | 72 East Main St., Welland | Moulton. |
| Niece, Elmond | Lowbanks | Sherbrooke. |
| Norhal Gas and Oil, Ltd., | 812 Canada Permanent Bldg., Toronto | Walpole. |
| North Cayuga Gas Syndicate | 1673 Beacon St., Brookline, Mass., U.S.A. | Cayuga North. |
| North Shore Gas Co. | Selkirk | Rainham. |
| Nottawa Oil & Gas Co. Ltd., | 17 Queen St. E., Toronto | (c) Onondaga, Rainham, Wainfleet and Walpole. |
| (b) Oil Springs Oil & Gas Co., Ltd., | Oil Springs | - |
| (d) Olga Gas and Oil Co. | 320 Bay Street, Toronto | Orford. |
| (b) Ontario Salt Co. (J.R. Robert) | 1428 Erie St. E., Windsor | - |
| Otter River Gas Corp. | 18 Toronto St., Toronto | Middleton. |
| (b)(f)Oxford Pipe Line Co. Ltd., | Dunnville | - |
| (c) Palmer, J. | Wainfleet | Wainfleet. |
| Patterson, W.C., Gas Co. Ltd., | Box 914, Jamestown, N.Y., U.S.A. | Bayham, Cayuga North, Crowland, Dereham, Dunn, Humberstone, Rainham, Walpole and Willoughby. |
| (a) Perkins, J.E. | Dunnville | - |
| Petrol Oil & Gas Co., Ltd. | 414 Bay St., Toronto | Dover, Oneida, Onon- daga and Tuscarora. |
| Pine Ridge Gas Co., | Dunnville | Dereham and (d) Yarmouth. |
| Port Colborne-Welland Gas Co., | Port Colborne | Oneida, Onondaga and Seneca. |
| Povac Gas Syndicate | Tillsonburg | Canboro and (c) Mersea. |
| (e) Prairie Gas & Oil Co., Ltd., | 350 Bay St., Toronto | Dover. |
| Provincial Gas Co. Ltd., | Fort Erie North | Bertie, Crowland, Humberstone and Willoughby. |
| Rainham Gas Syndicate | Cayuga | Rainham and Seneca. |
| Reicheld, Gas Syndicate | Jarvis | Walpole. |
| Reid-Adams Co. | 105 Dundas St., London | (d) Bayha, Dereham, (d) Malahide and (d) Nissouri West. |
| Rich Gas Co. | 18 Lola Road, Toronto | Moulton. |

ONTARIO - con.

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| Ricker, Arthur | Canboro | Canboro. |
| Riley, J.V. | Simcoe | Moulton. |
| River Valley Natural Gas Syndicate | 17 Queen St. E., Toronto | Oneida. |
| Romney Oil & Gas Co. | 18 Toronto St., Toronto | Romney, and Wainfleet. |
| Rossmore Exploration, Ltd. | 80 Richmond St.W., Toronto | Cayuga N. and Oneida. |
| (e) Roth, Frank & Harvey | Dunnville | Bertie. |
| (e) Rowe, E.P. | 350 Bay St., Toronto | Bayham, Dover, Middleton and Raleigh. |
| Salina Gas Co., Ltd. | 47 Sixth St., Chatham | Tilbury East. |
| Sandusk Gas Syndicate | Fisherville | Walpole. |
| Sarnia Oil & Gas Co. | 204 Atlas Bldg., Toronto | Enniskillen and Sarnia. |
| Security Oil and Gas Co., Ltd. | 1428 Erie St., Windsor | Seneca. |
| Shelton, S.F. | York | Seneca. |
| Shepherd, E. | Dunnville | Canboro. |
| Sherk, John M. | Stevensville | Bertie. |
| Smith, Armand M. | Aylmer | Bayham and (d) Dereham. |
| (e) Smith and Ehde | Lowbanks | Moulton. |
| (e)(d) Smith, H.B. | 373 Oak Ave., Windsor | Malden |
| Southern Ontario Gas Co. Ltd. | 518 Jackson Bldg., Buffalo, N.Y., U.S.A. | Mersea, Raleigh, Romney and Tilbury East. |
| Springvale Gas & Oil Co., Ltd. | Hagersville | Walpole. |
| Standard Gas & Oil Syndicate | Fisherville | Rainham and Walpole. |
| Sterling Gas Co. Ltd. | 7 Quebec St.W., Guelph | Walpole. |
| Stevensville Natural Gas & Fuel Co. | Stevensville | Bertie. |
| (e) Stewart and Stewart | Jarvis | (c) Rainham and Walpole. |
| (e) Stover, F.H. and Associates | c/o Draper Dobie Co., 330 Bay St., Toronto. | Dover and Raleigh. |
| Stromwell Syndicate | Tillsonburg | Moulton. |
| (a) Stubble, H.H. | 207 Pattison Ave., Chatham | - |
| Sundy Gas Co. | Dunnville | Canboro. |
| Superior Gas Syndicate | Fisherville | Rainham. |
| Sweets Corners Gas Syndicate | Fisherville | Rainham. |
| Tanner, F.O. | General Motors Bldg., Detroit, Mich., U.S.A. | Cayuga North and Oneida. |
| Treleaven, A. | 98 Central Ave., London | Dereham. |
| Turkey Point Co. | Simcoe | Charlotteville. |
| Union Gas Co. of Canada, Ltd., | 52 Fifth Ave., Chatham | Canboro, Cayuga North, Cayuga South, Dawn, Dover, (d) Deleware, (d) Dorchester S., Dunn, (d) Dun- wich, (d) Euphemia, (d) Malahide, Rainham, Raleigh, Romney, Seneca, Southwold, |

ONTARIO - conc.

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| Union Gas Co. of Canada, Ltd. (concluded) | 52 Fifth Ave., Chatham | Tilbury East and (c)(d) Walpole. |
| (b) United Gas & Fuel Co. of Hamilton, Ltd. | 82-84 King St.E., Hamilton | -- |
| Vacuum Gas & Oil Co. Ltd., | 350 Bay Street, Toronto | Middleton. |
| Victoria Gas Co. | Dunnville | Rainham and Walpole. |
| (d) Volcanic Gas and Oil Co., Ltd. | 510 Royal Bank Bldg., Toronto, | Blanchard, Nissouri (East and West) |
| Walpole Gas Syndicate | Cayuga | Walpole. |
| (e) Walter Gas Syndicate, Ltd. | Sun Life Bldg., Hamilton | Middleton, Townsend and Woodhouse. |
| Welland County Gas Syndicate | Stevensville | Bertie. |
| Western Ontario Natural Gas Co. Ltd. | Dunnville | Bayham, Canboro, Cayuga North, Dereham, Dunn and Sherbrooke. |
| (a) Willits, G.E. | Bothwell | -- |
| York Natural Gas Syndicate | 25 King St.W., Toronto | Oneida and Seneca. |

SASKATCHEWAN

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|---------------------------------|--------------|---------------|
| Colony Oil & Gas Co., Ltd. | Lloydminster | Lloydminster. |
| Lloydminster Gas Co. Ltd. | Lloydminster | Lloydminster. |
| (a) Northern Royalties, Ltd. | Yorkton | Kamsack. |
| (a) Oil and Gas Association | Riverhurst | Riverhurst. |
| (a) Oil and Gas Development Co. | Vera | Vera. |

ALBERTA

| | | |
|--|---|--------------------|
| Agriculture, Department of | 910 McCallum Hill Bldg., Regina, Sask. | Atlee |
| Alberta Clay Products Co. | Medicine Hat | Medicine Hat. |
| Barsac Royalties, Ltd. | Toronto General Trust Bldg., Calgary | Turner Valley. |
| (b) Bow Island, Town of | Bow Island | -- |
| (g) British American Oil Co. Ltd., | Royal Bank Bldg., Toronto, Ont. | -- |
| British Dominion Oil & Development Corp. Ltd., | 208 Dominion Bank Bldg., Calgary | Turner Valley. |
| Brown Oil Corp. Ltd. | 232 Lougheed Bldg., Calgary | Turner Valley. |
| Calgary Power Co. Ltd. | Insurance Exchange Bldg., Calgary | Bassano. |
| Canadian Maple Leaf Royalties, Ltd. | 1 Central Bldg., Calgary | Highwood-Sinclair. |
| Canadian Pacific Railway Co. | Medicine Hat | Medicine Hat. |
| Canadian Western Natural Gas, Light, Heat & Power Co., Ltd. | 215 Sixth Ave.W., Calgary | Brooks. |
| Canadian Western Power & Fuel Company Ltd., | Redcliff | Redcliff. |
| Carleton Royalties, Ltd. | 304 Foothills Bldg., Calgary | Turner Valley. |
| Century Royalties, Ltd. | 3004-4th St.W., Calgary | Turner Valley. |
| Coronation Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Dina Oil & Refining Co., Ltd. | Lloydminster, Sask. | Dina. |

ALBERTA - con.

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| Dominion Glass Co. Ltd. | 1111 Beaver Hall Hill, Montreal, P.Q. | Turner Valley. |
| East Crest Oil Co., Ltd. | 409 Maclean Block, Calgary | Turner Valley. |
| Firestone Petroleums, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Foothills Oil & Gas Co. Ltd., | 606 Second St.W., Calgary | Turner Valley. |
| Foundation Petroleums, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Frontier Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| (g) Gas and Oil Products | 300 Lancaster Bldg., Calgary | -- |
| Globe Royalties, Ltd. | 401 Leeson-Lineham Block, Calgary | Turner Valley. |
| Gold Standard Oils, Ltd. | Wainwright | Wainwright. |
| Granville Oils, Ltd. | 638 Columbia St., New Westminster | Turner Valley. |
| Gunderson Brick & Coal Co. Ltd. | Redcliff | Redcliff. |
| Hargal Oils Ltd. | 301 Bank of Nova Scotia Bldg., Vancouver, B.C. | Wainwright. |
| Highwood-Sarcee Oils, Ltd. | 614 Lancaster Bldg., Calgary | Turner Valley. |
| Hudson's Bay Oil & Gas Co. Ltd. | 79 Main St., Winnipeg, Man. | Viking. |
| Hylo Oils Ltd., | 118-7th Ave., West, Calgary | Turner Valley. |
| Inter-City Royalties, Ltd. | 232 Lougheed Bldg., Calgary | Turner Valley. |
| Maple Leaf Milling Co. Ltd. | Medicine Hat | Medicine Hat. |
| Maple Leaf Oil Co. Ltd. | 708 Stock Exchange Bldg., Vancouver, B. C. | Fabyan. |
| Medicine Hat Brick & Tile Co. Ltd. | Medicine Hat | Medicine Hat. |
| Medicine Hat, City of | Medicine Hat | Medicine Hat. |
| Mercury Oils, Ltd., | 300 Lancaster Bldg., Calgary | Turner Valley. |
| Mill City Petroleums, Ltd. | 300 Lancaster Bldg., Calgary | Turner Valley. |
| Miracle Oils, Ltd. | 300 Lancaster Bldg., Calgary | Turner Valley. |
| Model Oils Ltd. | 201 Lancaster Bldg., Calgary | Turner Valley. |
| Model Spooner Syndicate | 717 Lancaster Bldg., Calgary | Turner Valley. |
| Monarch Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Northwestern Utilities Ltd. | 10124 - 104th St., Edmonton | Viking. |
| Ogilvie Flour Mills Co. Ltd. | Medicine Hat | Medicine Hat. |
| Oil investors, Ltd. | 1005 - 9th Ave.E., Calgary | Turner Valley. |
| (g) Oilwell Machine Co. | Turner Valley | -- |
| O'Neil, W.N. Company, Ltd. | c/o Toronto General Trusts, Pender & Seymour St., Vancouver, B.C. | Red Coulee. |
| Prairie Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Range Oil & Gas Co., Ltd. | 101 Canadian Bank of Commerce Bldg., Calgary | Border. |
| Redcliff Premier Brick Co. Ltd. | Redcliff | Redcliff. |
| Redcliff Pressed Brick Co. | Redcliff | Redcliff. |
| Renfrew Royalty Co. Ltd. | 1005 - 9th Ave. E. | Turner Valley. |
| Reward Spooner Model | 717 Lancaster Bldg., Calgary | Turner Valley. |
| Royal Crest Petroleums, Ltd., | 232 Lougheed Bldg., Calgary | Turner Valley. |
| Royalite Oil Co., Ltd. | 606 Second St.W., Calgary | Turner Valley. |
| Share Royalties Ltd. | 61 Canada Life Bldg., Calgary | Turner Valley. |
| Southwest Petroleum Co. Ltd. | 606 - 2nd Street W., Calgary | Turner Valley. |
| Spooner Oils Ltd. | 717 Lancaster Bldg., Calgary | Turner Valley. |
| Spy Hill Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |

ALBERTA -- conc.

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| Sterling Royalties, Ltd. | 304 Foothills Bldg., Calgary | Turner Valley. |
| Suffield, Village of | Suffield | Suffield. |
| Sunburst Oil Co., Ltd. | 31 Canada Life Bldg., Calgary | Turner Valley. |
| Sundance Royalties, Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| Vanalta Limited | Granville Island, Vancouver, B. C. | Red Coulee. |
| (b) Wainwright Gas Co. Ltd. | 36 Dominion Bank Bldg., Edmonton | - |
| Westflank Oil Co., Ltd. | 902 Lancaster Bldg., Calgary | Turner Valley. |
| West Turner Petroleums, Ltd. | 703 Hall Bldg., Vancouver, B. C. | Turner Valley. |
| Wetaskiwin, City of | Wetaskiwin | Wetaskiwin. |

NORTHWEST TERRITORIES --

| | | |
|--------------------|---|--------------|
| Northwest Co. Ltd. | 606 Second Street West, Calgary, Alberta | Fort Norman. |
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BIBLIOTHÈQUE STATISTIQUE CANADA



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