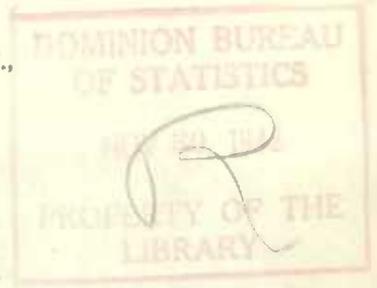


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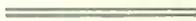
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MINING, METALLURGICAL & CHEMICAL STATISTICS



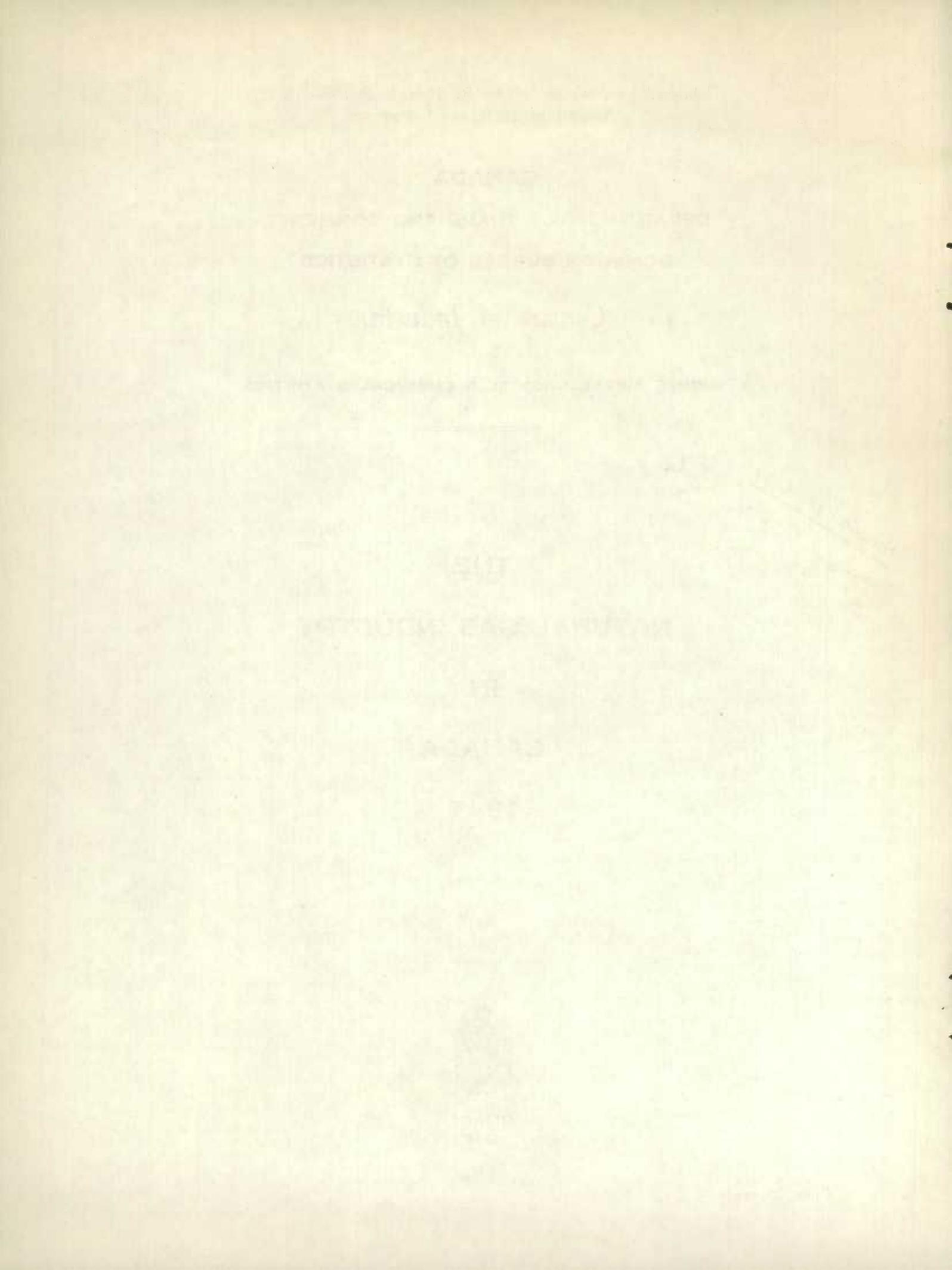
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THE
NATURAL GAS INDUSTRY
IN
CANADA
1947



OTTAWA
1948

Price 25 cents



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 Director - Division of Census of Industry and Merchandising:
 Chief - Mining, Metallurgical and Chemical Statistics:

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 H. McLeod

THE NATURAL GAS INDUSTRY IN CANADA, 1947

During 1947 the production of natural gas in Canada totalled 52,656,567 thousand cubic feet valued at \$13,429,558, an increase, both in quantity and value, from the 1946 output of 47,900,484 thousand cubic feet worth \$12,165,050. These figures include all natural gas sold for domestic, industrial or other uses and also the gas used in the field by the well operators, but the gas which is allowed to go to waste is not included.

Alberta was the leading province with a production of 44,106,643 thousand cubic feet. Of this amount 27,460,303 thousand cubic feet originated in the Turner Valley. The Viking-Kinsella field produced 10,494,374 thousand cubic feet and the remainder was obtained from Medicine Hat, Redcliff, Foremost and other fields.

Increased production in Saskatchewan brought the total for that province to 274,193 thousand cubic feet in 1947.

Production in Ontario amounted to 7,785,921 thousand cubic feet, this being an increase over each of the past three years which had shown declines.

New Brunswick's output at 489,810 thousand cubic feet was considerably below the 541,010 thousand cubic feet produced in the preceding year.

The natural gas industry employed an average of 1,784 persons in 1947. Salaries and wages amounted to \$3,057,249; fuel and electricity cost \$220,344, and \$19,975 was spent for process supplies. Employment statistics relating to wells which produce both natural gas and crude petroleum are included in the crude petroleum industry.

A review by the Bureau of Mines, Ottawa, states that in Alberta, the Viking-Kinsella field in the east central part of the province supplies Edmonton and all towns on the Edmonton-Calgary C.P.R. line as far south as Red Deer. Calgary is supplied mainly from the Turner Valley field. A pipe line joins Calgary with the Bow Island and Foremost fields in southern Alberta, and during peak load periods, which now exceed a rate of 100,000 thousand cubic feet a day, these fields may be used to augment the supply from Turner Valley.

Previous to the discovery of the Leduc field in 1947 the shortage of oil in the Prairie Provinces made it imperative that new supplies be found and it appeared that synthetic gasoline made from natural gas might have to meet part of this demand. This led to a vigorous search for new gas supplies and much was found. Imperial Oil Limited undertook to delimit the Viking-Kinsella field and many wells were drilled. The field is now estimated to cover 572 square miles and includes the Fabyan producing area from which gas is obtained to supply Wainwright. The reserves that have been established are approximately 1,000,000,000 thousand cubic feet which is the largest proven reserve in Alberta. In Southern Alberta, McColl-Frontenac and Union Oil companies also undertook a drilling campaign to establish gas reserves. This led to the discovery of the Pendant d'Oreille field, south and east of Pakowki lake, and of the Manyberries field, 35 miles southeast of Foremost. The Black Butte and Smith Coulee areas were also found to the south of the Pendant d'Oreille field and close to the International Boundary. The reserves that have been established for these fields are estimated to be about 330,000,000 thousand cubic feet.

The southwestern peninsula of Ontario has had a long record of gas production and the principal fields have been in Kent and Haldimand counties. In 1947, in Lambton county, Imperial Oil Limited discovered a new field at Kimball, 11 miles southeast of Sarnia. The discovery well, Imperial Kimball No.2, showed an initial open flow of 435 thousand cubic feet at a depth of 2,150 to 2,195 feet. Two dry holes and three gas wells were completed in this field during the year. In the winter of 1947-48 southwestern Ontario experienced an acute gas shortage with costly industrial shut-downs. This is a situation which is very difficult to remedy. Application was made by the Union Gas Company in 1946 to the Federal Power Commission in Washington for the importation of gas into Ontario by the Panhandle Eastern Gas Company and plans were made to bring in gas, but the shortage of gas in United States in the cities adjoining Ontario caused the cancellation of this concession. The application, however, has been renewed.

This report was prepared by A. R. Deir, Mining Statistician.

Table 1 - PRINCIPAL STATISTICS FOR THE NATURAL GAS INDUSTRY IN CANADA, 1938-1947

Year	Number of Firms	Number of Wells(x)	Average number of Employees	Salaries and Wages	Cost of Fuel and Electricity	Cost of Process Supplies	Gross Selling value of Products
1938	218	3,325	1,966	2,506,121	67,725	15,162	9,831,564
1939	222	3,352	1,990	2,536,220	82,877	15,520	10,732,543
1940	236	3,438	2,189	2,748,740	85,561	8,793	11,203,103
1941	231	3,424	2,161	2,841,795	103,229	4,975	11,223,103
1942	212	3,566	1,940	2,826,811	92,489	12,313	11,356,350
1943	191	3,558	1,882	2,846,514	181,841	7,899	11,552,696
1944	211	3,621	1,810	2,885,654	188,003	13,149	9,772,357
1945	218	3,748	1,890	2,993,091	227,514	18,298	10,860,594
1946	219	3,825	1,655	2,491,361	226,980	21,457	10,588,175
1947	186	3,799	1,784	3,057,249	220,344	19,975	12,333,332

(x) See note to Table 2.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947.

Province	Number of Firms	Number of Wells (x)	Average Number of Employees	Salaries and Wages	Cost of Fuel and Electricity	Cost of Process Supplies	Gross Selling value of Products
1946							
New Brunswick ...	2	43	76	119,328	16,393	...	287,111
Ontario	193	3,643	1,063	1,574,305	149,873	20,161	4,656,528
Saskatchewan	3	4	5	5,391	...	...	61,740
Alberta	21	135	511	792,337	60,714	1,296	5,582,796
CANADA	219	3,825	1,655	2,491,361	226,980	21,457	10,588,175
1947							
New Brunswick ...	2	45	77	135,958	12,901	...	299,907
Ontario	158	3,608	1,064	1,803,138	162,977	18,759	5,334,991
Saskatchewan	4	6	5	7,949	...	...	68,891
Alberta	22	140	638	1,110,204	44,466	1,216	6,629,543
CANADA	186	3,799	1,784	3,057,249	220,344	19,975	12,333,332

(x) Wells which produce natural gas only; if both petroleum and natural gas were produced the wells were included in the Crude Petroleum Industry.

Table 3 - PRODUCTION OF NATURAL GAS IN CANADA, 1928 - 1947

Year	Quantity	Value	Year	Quantity	Value
	M cu. ft.	\$		M cu. ft.	\$
1928	22,582,586	8,614,182	1938	33,444,791	11,587,450
1929	28,378,462	9,977,124	1939	35,185,146	12,507,307
1930	29,376,919	10,289,985	1940	41,232,125	13,000,593
1931	25,874,723	9,026,754	1941	43,495,353	12,665,116
1932	23,420,174	8,899,462	1942	45,697,359	13,301,655
1933	23,138,103	8,712,234	1943	44,276,216	13,159,418
1934	23,162,324	8,759,652	1944	45,067,158	11,422,541
1935	24,910,786	9,363,141	1945	48,411,585	12,309,564
1936	28,113,348	10,762,243	1946	47,900,484	12,165,050
1937	32,380,991	11,674,802	1947	52,656,567	13,429,558

Table 4 - PRODUCTION OF NATURAL GAS IN CANADA, BY PROVINCES, 1938 - 1947

Year	New Brunswick	Ontario	Saskatchewan	Alberta	Northwest Territories	Canada
1938	577,492	10,952,806	90,285	21,822,108	1,500	33,444,791 *
1939	606,382	11,966,581	96,423	22,513,660	1,500	35,185,146 *
1940	616,041	13,053,403	100,773	27,459,808	1,500	41,232,125 *
1941	653,542	11,828,703	106,168	30,905,440	1,500	43,495,353
1942	619,380	10,476,770	117,124	34,482,585	1,500	45,697,359
1943	675,029	7,914,408	116,201	35,569,078	1,500	44,276,216
1944	702,464	7,082,508	119,116	37,161,570	1,500	45,067,158
1945	653,230	7,199,970	163,824	40,393,061	1,500	48,411,585
1946	541,010	7,051,309	209,569	40,097,096	1,500	47,900,484
1947	489,810	7,785,921	274,193	44,106,643	...	52,656,567

* Includes 600 M cu. ft. in Manitoba.

Table 5 - PRODUCTION (x) OF NATURAL GAS IN CANADA, BY PROVINCES, 1946 and 1947.

Province	1 9 4 6		1 9 4 7	
	M cu. ft.	Value	M cu. ft.	Value
New Brunswick	541,010	262,441	489,910	279,790
Ontario	7,051,309	4,656,528	7,785,921	5,334,991
Saskatchewan	209,569	61,740	274,193	68,891
Alberta	40,097,096	7,184,006	44,106,643	7,745,886
Northwest Territories	1,500	335	...	...
CANADA	47,900,484	12,165,050	52,656,567	13,429,558

(x) Sold and used by producer.

Table 6 - PRODUCTION (a) OF NATURAL GAS IN CANADA, BY MONTHS AND BY PROVINCES, 1947.

Month	New Brunswick	Ontario	Saskatchewan	Alberta	Canada
			(M cu. ft.)		
January	58,498	840,754	42,684	4,775,153	5,717,089
February	52,098	997,746	39,012	4,583,463	5,672,319
March	45,664	871,699	33,245	4,286,401	5,237,009
April	48,628	759,514	20,462	3,312,214	4,140,818
May	44,969	621,067	13,289	3,135,349	3,814,674
June	40,542	469,372	8,638	2,712,471	3,231,023
July	29,941	392,972	5,580	2,589,724	3,018,217
August	23,464	331,954	7,784	2,795,364	3,158,566
September	25,802	402,366	13,598	3,028,970	3,470,736
October	35,825	465,163	18,606	3,551,511	4,071,105
November	40,052	728,663	30,815	4,461,428	5,260,958
December	44,327	904,651	40,480	4,874,595	5,864,053
TOTAL	489,810	7,785,921	274,193	44,106,643	52,656,567

(a) Sales and consumption by producers.

Table 7 - PRODUCTION OF NATURAL GAS IN ONTARIO, BY FIELDS, 1946 and 1947

County	Field	1 9 4 6	1 9 4 7
		(M cu. ft.)	
Essex	Kingsville	22,276	19,108
	(Tilbury, Romney and Raleigh)	2,540,638	2,285,249
Kent	(Dover	134,814	129,184
	(Chatham	296,757	466,162
	(Zone	692,149	1,251,338
Lambton	(Dawn		
	(Oil Springs	337,298	652,303
Oxford	Brownsville	22,999	15,825
Elgin	(Bayham	13,661	24,640
	(Malahide	45,437	43,459
Norfolk	Norfolk	450,316	414,397
Lincoln	Lincoln		
Haldimand	Haldimand	2,022,637	1,970,961
Wentworth	Wentworth		
Welland	Welland	340,639	372,974
Brant	Onondaga, Brantford and Tuscarora	65,188	73,821
Wells in surface drift	Harwich and Howard Tps.	6,500	6,000
Private wells .....	.....	60,000	60,500
	TOTAL PRODUCED	7,051,309	7,785,921

Table 8 - PRODUCTION (x) OF NATURAL GAS IN ALBERTA, BY FIELDS, 1947

Field	M cu. ft.
Turner Valley	27,460,303
Foremost	183,016
Viking-Kinsella	10,494,374
Medicine Hat	3,388,532
Redcliff	1,272,346
Other fields	1,308,072
TOTAL ALBERTA	44,106,643

(x) Does not include waste gas and absorption plant shrinkage.

Table 9 - NATURAL GAS WELLS IN ONTARIO, BY TOWNSHIPS, 1946 and 1947

Township	Number of producing wells in operation December 31, 1946	Number of producing wells in operation December 31, 1947	Number of idle wells in 1947	Number of wells abandoned 1947	Number of dry wells drilled 1947	Number of producing wells drilled 1947
Bayham	33	27	11	...	1	1
Bertie	179	184	7	...	1	8
Binbrook	44	44	2	2	...	...
Brantford	2	2	...	...	...	...
Caistor	90	93	...	9	4	11
Camden Gore	13	14	2	...	7	1
Canboro	152	159	3	3	3	9
Cayuga North	233	245	1	1	12	11
Cayuga South	87	100	1	5	1	11
Charlotteville	15	15	...	...	...	...
Chatham	23	23	2	1	...	...
Crowland	35	38	1	...	...	4
Dawn	30	31	...	3	...	3
Delhi Village	3	3	...	...	...	...
Dereham	2	7	5	...	...	...
Dover	14	14	...	...	...	...
Dunn	73	97	2	8	6	29
Enniskellen	3	3	1	...	1	...
Euphemia .....	...	...	...	...	2	...
Gainsborough	11	11	1	2	...	1
Glanford	10	10	...	...	...	...
Gosfield South	24	15	12	...	...	...
Houghton	4	4	...	...	...	...
Howard .....	...	...	...	...	1	...
Humberstone	81	92	3	3	1	17
Malahide	15	8	8	...	2	1
Malden .....	...	...	3	...	5	1
Mersea	3	3	2	...	...	2
Middleton	35	32	7	...	...	...
Moore .....	...	2	1	...	1	3
Moulton	103	104	2	...	3	3
Norwich South	1	1	...	...	...	...
Oneida	118	122	...	18	14	17
Onondaga	14	17	2	...	...	...
Port Dover Village ..	3	3	...	...	...	...
Port Rowan	4	4	...	...	...	...
Rainham	307	289	15	16	1	2
Raleigh	56	54	6	1	...	...
Romney	132	128	4	2	...	...
Senaca	141	137	9	8	5	3
Sherbrooke	16	15	1	1	...	...
Sombra .....	...	5	3	2	10	4
Stamford	5	5	...	...	...	...
Thorold	3	9	2	...	2	8
Tilbury East	115	114	1	1	...	...
Townsend	64	63	...	4	...	...
Tuscarora	56	47	...	10	...	1
Wainfleet	41	41	...	1	4	1
Walpole	560	530	35	17	7	8
Walsingham North	14	22	...	...	2	8
Walsingham South	15	16	...	...	1	1
Willoughby	54	57	2	1	3	6
Windham	21	21	...	...	...	...
Woodhouse	92	93	13	...	3	9
Yarmouth	1	4	1	...	2	4
Zone	41	42	...	1	1	2
Wells in surface drift	69	69	...	...	...	...
Private wells	320	320	...	...	...	...
TOTAL ...	3,580	3,608	171	120	106	190

Table 10 - NATURAL GAS PIPELINE MILEAGE IN CANADA, 1946 and 1947

Province	Actual Miles of Mains				Miles of Equivalent 3" Mains			
	Gathering and Transmission		Distribution		Gathering and Transmission		Distribution	
	1946	1947	1946	1947	1946	1947	1946	1947
New Brunswick ..	20	20	65	65	36	36	73	73
Ontario	2,352	2,343	2,071	2,092	3,949	3,877	2,417	2,453
Saskatchewan ...	4	4	8	8	3	3	5	5
Alberta	842	878	700	744	2,649	2,760	1,168	1,196
CANADA	3,218	3,245	2,844	2,909	6,637	6,676	3,663	3,727

Table 11 - SALES (x) OF MANUFACTURED AND NATURAL GAS IN CANADA, 1946 and 1947

	1 9 4 6			1 9 4 7		
	Number of customers	Quantity sold	Revenue from sales	Number of customers	Quantity sold	Revenue from sales
		M cu.ft.	\$		M cu.ft.	\$
Manufactured Gas						
Domestic	504,544	13,773,461	14,892,220	524,443	14,071,745	15,691,566
House heating	6,604	1,760,702	962,255	5,266	1,955,875	1,142,464
Industrial	3,687	4,617,662	2,810,862	2,866	4,110,970	2,713,188
Commercial	29,199	4,048,811	3,569,418	31,465	4,497,920	4,073,631
Miscellaneous	126	35,390	49,667	123	30,022	28,202
TOTAL	544,160	24,236,026	22,284,422	564,163	24,666,532	23,649,051
Natural Gas						
Domestic	203,941	17,398,813	8,082,941	195,555	19,561,089	8,936,875
Industrial	1,196	7,711,571	1,774,132	1,232	11,486,678	2,063,933
Commercial	12,646	7,834,497	2,094,600	13,146	8,637,814	2,296,257
Miscellaneous	453	241,264	108,540	441	148,830	30,508
TOTAL	218,236	33,186,145	12,060,213	210,374	39,834,411	13,327,573
TOTAL - ALL GAS	762,396	57,422,171	34,344,635	774,537	64,497,943	36,976,624

(x) Sales by distributing companies to final consumers, amounts used by producers are not included.

Table 12 - SALES (ix) OF NATURAL GAS IN CANADA DURING THE TWELVE MONTHS ENDED DECEMBER 31, 1946, and DECEMBER, 1947.

	Twelve Months Ended December 31, 1946		Twelve Months Ended December 31, 1947	
	Quantity sold	Revenue from sales	Quantity sold	Revenue from sales
	M cu.ft.	\$	M cu.ft.	\$
Eastern Canada				
Domestic	6,490,589	4,968,800	6,944,604	5,424,674
Industrial	1,150,963	881,024	1,215,269	756,898
Commercial	602,729	424,973	615,861	459,247
Miscellaneous (x)	201,392	106,315	52,407	26,321
TOTAL	8,445,673	6,381,112	8,828,141	6,667,140
Western Canada				
Domestic	10,908,224	3,114,141	12,616,485	3,512,201
Industrial	6,560,608	893,108	10,271,409	1,307,035
Commercial	7,231,768	1,669,627	8,021,953	1,837,010
Miscellaneous (x)	39,872	2,225	96,423	4,187
TOTAL	24,740,472	5,679,101	31,006,270	6,660,433
Canada - Total				
Domestic	17,398,813	8,082,941	19,561,089	8,936,875
Industrial	7,711,571	1,774,132	11,486,678	2,063,933
Commercial	7,834,497	2,094,600	8,637,814	2,296,257
Miscellaneous (x)	241,264	108,540	148,830	30,508
TOTAL	33,186,145	12,060,213	39,834,411	13,327,573

(x) Includes some free customers.

(ix) See footnote to table 11.

Table 13 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

	Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
1946								
New Brunswick ...	...	...	75	1	76	...	119,328	119,328
Ontario	244	64	743	12	1,063	494,547	1,079,758	1,574,305
Saskatchewan	3	...	2	...	5	2,944	2,447	5,391
Alberta	104	5	397	5	511	217,734	574,603	792,337
CANADA	351	69	1,217	18	1,655	715,225	1,776,136	2,491,361
1947								
New Brunswick ...	...	...	76	1	77	...	135,958	135,958
Ontario	83	75	901	5	1,064	344,362	1,458,776	1,803,138
Saskatchewan	3	...	2	...	5	4,084	3,865	7,949
Alberta	74	36	519	9	638	233,379	876,825	1,110,204
CANADA	160	111	1,498	15	1,784	581,825	2,475,424	3,057,249

Table 14 - WORKMEN, BY MONTHS, 1946 and 1947 (On the last work-day of each month)

Month	1946			1947		
	Male	Female	Total	Male	Female	Total
January	827	14	841	1,140	7	1,147
February	795	14	809	1,169	8	1,177
March	878	15	893	1,156	10	1,166
April	1,066	16	1,082	1,323	13	1,336
May	1,285	16	1,301	1,506	13	1,519
June	1,384	16	1,400	1,609	17	1,626
July	1,479	17	1,496	1,695	26	1,721
August	1,543	16	1,559	1,698	25	1,723
September	1,408	19	1,427	1,753	15	1,768
October	1,390	18	1,408	1,798	16	1,814
November	1,328	15	1,343	1,622	13	1,635
December	1,111	15	1,126	1,340	10	1,350
AVERAGE	1,217	18	1,235	1,498	15	1,513

Table 15 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1946		1947	
		Quantity	Value	Quantity	Value
Bituminous coal - Canadian ...	Short ton	11	150	3	60
Imported ...	Short ton	38	577	4	58
Anthracite coal - Imported ...	Short ton	7	96	...	...
Lignite coal	Short ton	...	...	...	...
Gasoline	Imp.gal.	68,780	20,992	48,426	15,083
Kerosene or coal oil	Imp.gal.	...	...	90	28
Fuel oil and diesel oil	Imp.gal.	77,296	7,567	60,654	9,658
Wood	cord	...	...	2	10
Natural gas	M cu.ft.	591,921	196,206	581,982	194,271
Electricity purchased	K.W.H.	32,513	1,392	54,415	1,176
TOTAL .....	...	...	226,980	...	220,344

Table 16 - POWER EQUIPMENT, 1947

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines	4	140	...	...
Steam turbines .....	...	...	...	...
Diesel engines	1	335	2	469
Gasoline, gas and oil engines, other than Diesel engines	256	10,016	17	463
Hydraulic turbines or water wheels .....	...	...	...	...
Electric motors -				
(a) Operated by purchased power	1,081	1,642	37	671
TOTAL	1,342	12,133	56	1,603
(b) Operated by power generated by above primary units .....	...	...	...	...
Stationary power boilers	9	360	...	...
Motor-generator sets	8	53	...	...

DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY
IN CANADA, 1947.

Note: (a) Drilling only.
(b) Distributing only.
(c) Drilling and producing.
(d) Using or selling gas from absorption plant.

Name	Address	Location of Field
<u>New Brunswick</u>		
Moncton Electricity & Gas Co. Ltd.(b)	700 Main St., Moncton	...
New Brunswick Oilfields Ltd.,	Box 194, Moncton	Stoney Creek
<u>Ontario</u>		
Acme Gas Syndicate	Ridgeway	Bertie
Amer-Can Oil & Gas Co.	215 King St. W., Chatham	Dover, Tilbury E. and Walpole
Barnhart, Mrs. E.	Stevensville	Bertie
Bates, Norman	Humberstone	Humberstone
Beachville Natural Gas Syndicate (b)	Beachville	...
Beaver Oil & Gas Syndicate	67 Yonge St., Toronto	Walpole
Belmont Gas Co. (b)	815 Lawrence Rd., Windsor	...
Benn, A. S.	Hagersville	Walpole
Benner, K. W.	Fisherville	Rainham and Walpole
Benner & Tinney	Fisherville	Rainham and Walpole
Bertie Township Gas & Oil Syndicate	Fisherville	Bertie and Willoughby
Big Seven Gas Syndicate	Fisherville	Rainham
Binbrook Gas Co.	Binbrook	Binbrook
Bliss, Douglas E.	Tillsonburg	Middleton
Brindley & Harper	Bradford, Pa., U.S.A.	Brantford
Broadway Gas Syndicate	Cayuga	Walpole
Buck, C. S.	Port Rowan	Walsingham South
Burchell Natural Gas & Oil Syndicate	R.R.2 Listowel	Woodhouse
Canada Cement Co. Ltd.,	Montreal, Que.	Wainfleet
Canadian Natural Gas Syndicate	Simcoe	Bayham and Moulton
Canfield Gas Syndicate	703 Capitol Park Bldg., Detroit 26, Mich., U.S.A.	Cayuga North
Canfield Natural Gas Co. Ltd.	Dunnville	Cayuga North
Cartwright, S. E.	2377 Penobscot Bldg., Detroit, Mich., U.S.A.	Walpole

 DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY IN CANADA, 1947 (Continued)

<u>Name</u>	<u>Address</u>	<u>Location of Field</u>
<u>Ontario (Continued)</u>		
Cayuga Gas Syndicate	Cayuga	Cayuga South
Central Pipe Line Co. Ltd. (c)	Aylmer West	Bayham, Houghton, Malahide and Yarmouth
Central Seneca Gas Syndicate	Cayuga	Seneca
Chippawa Creek Gas Syndicate	Drawer 200, Fort Erie N.	Willoughby
Chira Gas Syndicate (b)	Brownsville	...
City Gas Co. of London (b)	London	...
Coleman, Ada	Wellandport	Gainsborough
Coronation Gas Syndicate	Stevensville	Bertie
Crowland Gas Syndicate (c)	R.R.4, Welland	Crowland
Dain City Gas Syndicate	Ridgeway	Bertie and Humberstone
Dawson, Ralph	Merlin	Tilbury East
Delhi Gas Syndicate	Cayuga	Windham
Dominion Natural Gas Co. Ltd.	220 Delaware Ave., Buffalo 2, N.Y., U.S.A.	Norfolk, Haldimand, Welland, Essex and Kent
Dunn Natural Gas Co. Ltd.	15 Wellington St.W., Toronto	Dunn
Dunnville-Detroit Gas Syndicate	703 Capitol Park Bldg., Detroit, Mich., U.S.A.	Cayuga North
Economy Gas Syndicate	Stratford	Woodhouse
Elgin Prospecting Syndicate	Ridgeway	Humberstone
Elk Development Syndicate	Stevensville	Humberstone
Emerson, H. L. (c)	Dunnville	Canboro, Moulton, Wain- fleet and Gainsborough
Erie Prospecting Syndicate	Ridgeway	Walpole
Essex Gas & Oil Ltd.	430 Giles St. W., Windsor	Malden
Fairbanks & Rance Gas Co.	Petrolia	Enniskillen
Falls View Gas Syndicate	Drawer 200, Fort Erie N.	Stamford
Fisherville Gas Co.	Fisherville	Rainham
Fleet Manufacturing & Aircraft Co.	Fort Erie	Bertie
Fletcher, Eva	R.R.2, Glanford Station	Binbrook
Fonthill-Ridgeville Gas Co. Ltd. (b)	Box 511, Portland, Indiana, U.S.A.	...
Fox, E. S.	161 Thorold Ave., Welland	Thorold
Garrison Gas Syndicate	Drawer 200, Fort Erie N.,	Bertie
Gas Producers Co.	703 Capitol Park Bldg., Detroit, Mich., U.S.A.	Raleigh and Woodhouse
Gifford, A. & Sons	R.R.2, Cayuga	Cayuga South
Glennay, Elizabeth A.	Dunnville	Canboro
Gosfield Properties Ltd.	Kingsville	Gosfield S. and Romney
Grand River Gas & Oil Syndicate (c)	Canfield	Cayuga North
Grimsby Natural Gas Co. Ltd.	Grimsby	Caistor, Gainsboro and Canboro
Haldimand Gas Syndicate	Cayuga	Rainham
Highbank Oil Ltd.	Chatham	Raleigh
Houk Syndicate	Dunnville	Moulton
House, C. C. (c)	Stevensville	Bertie
Ideal Gas Syndicate	Fisherville	Rainham
Imperial Oil Ltd.	56 Church St., Toronto	Sombra, Raleigh and Moore
Jackson & Graff Syndicate	Dunnville	Crowland
Jackson, P. L. (c)	Dunnville	Walpole, Moulton, Can- boro, Cayuga North, Rainham, Dunn, Crow- land, Cayuga South, Sherbrooke, Woodhouse, and Seneca
Jenkins, S. S.	Fort Erie	Bertie and Townsend
Kent Gas Syndicate	Stratford	Walpole
Kerr, Robert	York	Seneca
Lake Erie Gas Syndicate	54 Hambly Ave., Toronto	Rainham
Lake Shore Gas & Oil Syndicate	Ridgeway	Bertie
Lapp & Arendt	Stevensville	Bertie and Humberstone
Leamington, Town of (b)	Leamington	Leamington

 DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY IN CANADA, 1947 (Continued)

<u>Name</u>	<u>Address</u>	<u>Location of Field</u>
Ontario (Continued)		
Leslie, F. Lincoln Natural Gas Ltd.	Niagara Falls Dunnville	Willoughby Canboro, Moulton, Caistor, Gainsboro, and Wainfleet
Little, R. W. Locators Oils Ltd.	222 Humbercrest Blvd., Toronto 22 King St. W., Toronto	Onondaga Cayuga South and Middleton
Lunenfeld, S. Lymburner Bros. & Wabber (c)	Drawer 200, Fort Erie N. Dunnville	Bertie Cayuga North, Rain- ham and Walpole
Maple Leaf Gas Syndicate, McDougall, Seymour McKechnie, Sam Estate (c) McMaster, R. & Sons (c) Mehlenbacher Gas Syndicate	Ridgeway 279 St. George St., Toronto Dunnville Caledonia Cayuga	Bertie and Crowland Rainham Seneca and Walpole Binbrook Cayuga North and Walpole
Minor & Luck Mohawk Gas & Oil Syndicate Ltd. Monarch Gas & Oil Syndicate	Cheltenham 421 Main St. E., Hamilton Fisherville	Sherbrooke Oneida and Walpole Walpole, Dunn and Cayuga South
Morningstar, Roy Gas Well Nevada Gas Syndicate, #1 and 2 Niagara Gas Syndicate Niagara Natural Gas Co. Ltd. Niece, Elmond Norotto Gas Co. Ltd. (b) North Cayuga Gas Co. North Shore Gas Co. Noyes, L. A. Oil Springs Oil & Gas Co. Ltd. (b) Palso, J. (b) Patterson, W. C. Gas Co. Ltd. (c)	Ridgeway Drawer 200, Fort Erie N. Fisherville Fort Erie N. Dunnville Norwich Cayuga Selkirk Stevensville Oil Springs Wainfleet Box 914, Jamestown, N.Y., U.S.A.	Bertie Thorold Bertie Moulton Sherbrooke ... Cayuga North Rainham Willoughby ... Dunn, Rainham, Walpole, Cayuga North, Wainfleet, Willoughby, Crowland, Bayham, Dereham and Humberstone
Patterson & Culver (c) Peacock Point Gas & Oil Syndicate Petrol Oil & Gas Co. Ltd.	Dunnville Fisherville 414 Bay St., Toronto	Oneida Walpole Oneida, Onondaga and Tuscarora
Port Colborns Welland Gas Co. (c)	Port Colborne	Onondaga, Oneida, Seneca and Cayuga North
Povec Gas Syndicate Prairie Gas & Oil Co. Ltd. Provincial Gas Co. Ltd.	Tillsonburg 350 Bay St., Toronto 1, Fort Erie N.	Canboro Dover Humberstone, Willoughby, Bertie and Crowland
Purcifer & Ferguson Queenston Gas & Oil Co. Ltd.	Stevensville Fort Erie	Humberstone Willoughby, Walsingham South, Oneida, Rainham and Woodhouse
Rainham Gas Syndicate Reicheld, F. W. (c) Ricker, Arthur (c) Rocks Mill Gas & Oil Syndicate Romney Oil & Gas Syndicate Roth, Frank Rowe, E. P. Estate Royal Gas Syndicate Salina Gas Co. Sandusk Gas Syndicate Sarnia Oil & Gas Co. Shank Bros. (c)	Cayuga Jarvis Canboro London 18 Toronto St., Toronto Ridgeway 350 Bay St., Toronto 1, Stevensville 317 Queen St., Chatham Fisherville 350 Bay St., Toronto Selkirk	Rainham Walpole Canboro Norwich South Wainfleet Bertie Raleigh and Dover Bertie Tilbury East Walpole Enniskillen Oneida and Rainham

 DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY IN CANADA, 1947, (Continued)

<u>Name</u>	<u>Address</u>	<u>Location of Field</u>
<u>Ontario (Concluded)</u>		
Sherk & Carrothers	Sherkston	Humberstone
Sherk & Learn	Sherkston	Humberstone
Sherk & Nagel	Stevensville	Bertie
Sherk, Perry M.	Sherkston	Humberstone
Shurr, Ivan	South Cayuga	Rainham
Sider, Andrew & Jesse	Stevensville	Bertie and Humberstone
Sider, Norman	Sherkston	Humberstone
Smith & Ehde	Lowbanks	Dunn and Moulton
Smith, Harry B.	Windsor	Romey
Springvale Gas & Oil Co. Ltd.	Hagersville	Walpole
Standard Gas & Oil Syndicate	Fisherville	Rainham and Walpole
Star Gas Syndicate	Ridgeway	Bertie
Sterling Gas Co.	Fisherville	Walpole
Stevensville Natural Gas Co.	Stevensville	Bertie
Stewart, Elgin (c)	Jarvis	Walpole
Stewart & Stewart	Jarvis	Walpole
Stover & Rawlings & Associates (c)	Chatham	Raleigh
Stromwell Syndicate	Tillsonburg	Moulton
Sundy Gas Wells	Dunnville	Canboro
Tanner, F. O.	1650 Penobscot Bldg., Detroit, Mich., U.S.A.	Oneida
Tanke, Eugene	697 West Delavan Ave., Buffalo, N.Y., U.S.A.	Thorold
Till Gas Syndicate	Tillsonburg	Walpole
Union Gas Company of Canada Ltd.	Chatham	Tilbury, D'Clute, Dover, Dawn, Camden Gore, Zone, Haldimand and Chatham Fields
United Gas & Fuel Co. of Hamilton Ltd., (b)	82-84 King St. E., Hamilton	...
Victoria Gas Co.	Dunnville	Rainham and Walpole
Victory Oil & Gas Syndicate Ltd.	510 Huron & Erie Bldg., London	Windham
Wainfleet Gas Co. Ltd.	Box 914, Jamestown, N.Y., U.S.A.	Wainfleet
Walpole Gas Syndicate	Cayuga	Walpole, Walsingham, Cayuga North and Senaca
Walter Gas Syndicate Ltd. (c)	Simcoe	Walpole, Walsingham S., Townsend and Woodhouse
Warren Gas Syndicate	Cayuga	Bayham and Dereham
Welland County Gas Syndicate	Stevensville	Bertie
Wentworth Gas Co. Ltd. (b)	82-84 King St. E., Hamilton	...
Western Ontario Natural Gas Co. Ltd.	15 Wellington St. W., Toronto	Canboro, Cayuga North and Dunn
West Petroleum Ltd.	372 Bay St., Toronto	Romey
Wilkinson, W. N.,	R.F.D.#1, Gainesville, N.Y., U.S.A.	Thorold
Willoughby Gas Syndicate	Chippawa	Humberstone
Wood, Ray	61 Inches Ave., Chatham	Townsend
<u>Saskatchewan</u>		
Bata Petroleums Ltd.	310 Broder Bldg., Regina	Unity
Lloydminster Gas Co. Ltd. (b)	Lloydminster	Lloydminster
Northern Gas Distributors Ltd.	Box 80, Kamsack	Kamsack
Northern Utilities Ltd.	Lloydminster	Lloydminster
<u>Alberta</u>		
Alberta Clay Products Co. Ltd.	Medicine Hat	Medicine Hat
Alberta Pacific Royalties Ltd.	201 Lancaster Bldg., Calgary	Turner Valley
Allied Royalties Ltd.	201 Lancaster Bldg., Calgary	Turner Valley
Amalgamated Oils Ltd.	900 Lancaster Bldg., Calgary	Turner Valley
Anglo-Canadian Oil Co. Ltd.	900 Lancaster Bldg., Calgary	Turner Valley
Argus Royalties Ltd.	900 Lancaster Bldg., Calgary	Turner Valley
Arrow Oil Royalties Ltd.	804 Southam Bldg., Calgary	Turner Valley

 DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY IN CANADA, 1947, (Concluded)

<u>Name</u>	<u>Address</u>	<u>Location of Field</u>
<u>Alberta (Concluded)</u>		
Atlas Investments Ltd.	720 Stock Exchange Bldg., Vancouver, B.C.	Turner Valley
Bow Island, Town of (b)	Bow Island	...
British American Oil Co. Ltd. (d)	Royal Bank Bldg., King and Yonge Sts. Toronto, Ontario	...
British Colonial Oils Ltd.	809 Second St. W., Calgary	Turner Valley
British Dominion Oil & Dev. Corp. Ltd.	213 Dominion Bank Bldg., Calgary	Turner Valley
California Standard Co.	700 Lancaster Bldg., Calgary	Taber, Conrad and Princess
Calmont Oils Ltd.	303 Toronto General Trusts Bldg. Calgary	Turner Valley
Canadian Pacific Railway Co.	Montreal, Que.	Medicine Hat
Canadian Western Power & Fuel Co. Ltd.	Third St., Redcliff	Redcliff
Canadian Western Natural Gas, Light, Heat & Power Co. Ltd.	215 - 6th Ave. W., Calgary	Brooks
Coastal Oils Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Commonwealth Petroleum Ltd.	4 Clarence Blk., 122 - 8th Ave. W., Calgary	Turner Valley
Continental Oil Co. of Canada Ltd., Crude Oils Ltd.	407 Lancaster Bldg., Calgary 304 Toronto General Trusts Bldg., Calgary	Turner Valley Turner Valley
D & D Royalties Ltd.	303 Toronto General Trusts Bldg., Calgary	Turner Valley
Davies Petroleums L.d.	409 Lancaster Bldg., Calgary	Turner Valley
Deep Oils Ltd.	304 Toronto General Trusts Bldg., Calgary	Turner Valley
Department of National Defence Director Royalties Ltd.	Suffield 304 - 9th Ave. W., Calgary	Suffield Turner Valley
Dominion Glass Co. Ltd.	1111 Beaver Hall Hill, Montreal, Que.	Medicine Hat and Redcliff
East Crest Oil Co. Ltd.	212 Grain Exchange Bldg., Calgary	Turner Valley
Empire Petroleums Ltd.	304 Toronto General Trusts Bldg., Calgary	South Princess Turner Valley
Extension Oil Royalties Ltd.	900 Lancaster Bldg., Calgary	Turner Valley
Federated Petroleums Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Foothills Oil & Gas Co. Ltd.	604-606 Second St. W., Calgary	Turner Valley
Four Star Petroleums Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Franco Oils Ltd.	Vermilion	Vermilion
Franco Public Service Ltd.	Vermilion	Vermilion
Gas & Oil Refineries Ltd. (d)	301 Lancaster Bldg., Calgary	...
Gunderson Brick & Coal Co. Ltd.	Redcliff	Redcliff
Harris Wells Ltd.	201 Lancaster Bldg., Calgary	Turner Valley
Home Oil Co. Ltd.	226 Lougheed Bldg., Calgary	Turner Valley
Hudson's Bay Oil & Gas Co. Ltd.	79 Main St., Winnipeg, Man.	Viking
Imperial Oil Co. Ltd.	56 Church St., Toronto, Ont.	Turner Valley and Leduc
Inland Gas & Oil Co. Ltd.	36 Dominion Bank Chambers, Edmonton	Fabyan
Kamalita Ltd.	201 Lancaster Bldg., Calgary	Turner Valley
Major Oil Investments Ltd.	407 Lancaster Bldg., Calgary	Turner Valley
Maple Leaf Milling Co. Ltd.	Dominion Bank Bldg., Toronto, Ont.	Medicine Hat
Medicine Hat Brick & Tile Co. Ltd.	Box 100, Medicine Hat	Medicine Hat
Medicine Hat, City of	Medicine Hat	Medicine Hat
National Petroleum Corp. Ltd.	401 Leeson-Lineham Bldg., Calgary	Turner Valley
Northwestern Utilities Ltd.	10124 - 104th St., Edmonton	Viking and Kinsella
Ogilvie Flour Mills Co. Ltd.	Medicine Hat	Medicine Hat
Pacific Petroleums Ltd.	304 Toronto General Trusts Bldg., Calgary	Turner Valley
Redcliff Premier Brick Co. Ltd.	Redcliff	Redcliff
Redcliff Pressed Brick Co. Ltd.	Redcliff	Redcliff
Royal Crest Petroleums Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Royalite Model #1	201 Lancaster Bldg., Calgary	Turner Valley
Royalite Oil Co. Ltd. (d)	304 - 9th Ave. W., Calgary	Turner Valley
Southwest Petroleum Co. Ltd.	604-606 Second St. W., Calgary	Turner Valley

 DIRECTORY OF FIRMS IN THE NATURAL GAS INDUSTRY IN CANADA, 1947 (Concluded)

<u>Name</u>	<u>Address</u>	<u>Location of Field</u>
<u>Alberta (Concluded)</u>		
Sunset Oils Ltd.	302 Toronto General Trusts Bldg. Calgary	Turner Valley
Taylor Petroleum Operators Ltd.	412 Lancaster Bldg., Calgary	Leduc
Three Point Petroleum Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Turner Valley Royalties Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Twin Valley Royalties Ltd.	804 Southam Bldg., Calgary	Turner Valley
United Assets Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Valley Gas Co. Ltd. (b)	207 Insurance Exchange Bldg., Calgary	...
Vulcan Brown Petroleum Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Wainwright Gas Co. Ltd.	36 Dominion Bank Bldg., Edmonton	Wainwright
Westside Royalties Ltd.	232 Lougheed Bldg., Calgary	Turner Valley
Wetaskiwin, City of	Wetaskiwin	Wetaskiwin
York Oils Ltd.	221-A Eighth Ave. W., Calgary	Turner Valley



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