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THE NATURAL GAS INDUSTRY IN CANADA, 1942

Production of natural gas in Canada during 1942 totalled 45,697,359 thousand cubic feet valued at \$13,301,655 compared with 43,495,353 thousand cubic feet worth \$12,665,116 in 1941; of the 1942 output, New Brunswick contributed 619,380 M cu. ft.; Ontario 10,476,770 M cu. ft.; Saskatchewan 117,124 M cu. ft.; Alberta 34,482,585 M cu. ft., and Northwest Territories 1,500 cu. ft. Production data as thus recorded includes only the natural gas consumed for industrial and domestic purposes and does not take into account the waste gas burned in the Turner Valley field of Alberta.

Natural gas has been found in most of the provinces of Canada. It is produced commercially in abundance in Alberta and Ontario, and in smaller quantities in New Brunswick, Saskatchewan and Quebec. The Bureau of Mines, Ottawa, reviewed the natural gas industry in 1942 as follows:

"In Alberta, most of the production comes from the Turner Valley Field, which supplies fuel for the field itself, and then feeds the pipe line to the cities and districts of Calgary and Lethbridge. It has not been necessary to drill gas wells for some years, and production is now largely derived from the oil wells in which the gas plays a vital role in the production of oil. The gas-oil ratio of many of these, particularly in the southern part of the field, where conservation measures had not been fully developed until after the wells had been some time in production, has risen so that in some cases wells have had to be re-classified as gas wells, thus adding to the reserve of gas. Production of gas is still much in excess of consumption, although the large amount wasted was reduced by nearly one-third in 1942. With further improvements in conservation, particularly should the experiment in re-cycling gas, started in December, prove successful, the waste is likely to continue to decline. Although the use of gas for fuel increased considerably owing to war demand, the more efficient operation of Turner Valley oil wells enabled the average daily production to be reduced.

"The Edmonton area is supplied from the gas field at Viking, about 80 miles south east of the city, supplemented by that at Kinsella farther east. The latter field was discovered in 1929, and was first connected by an extension of the pipe line in the fall of 1940. The duplicate 12 $\frac{3}{4}$ " line from Viking to Edmonton was not completed for lack of pipe. During 1942 three wells were drilled at Kinsella, and at the close of the year six wells were producing and the field thus became the principal producer. Medicine Hat and the adjacent town of Rodcliff are supplied from the Medicine Hat field, where one well was drilled. The Vermillion field became an important producer of natural gas in 1942, the quantity produced

being about the same as that of the Fabyan field, which supplies Wainwright. The output from the Brooks and Foremost fields was obtained from several small producers.

"In Saskatchewan, the eastern part of the Lloydminster field supplies the town of the same name. In the Kamsack area, two new wells were drilled, one well was deepened to 1,210 feet, and other from 1,575 feet to 1,755 feet. A total of 36 wells have been drilled in this field, mostly to depths around 200 feet, and they yield from 15 M to 250 M cubic feet at a closed-in pressure of 36 pounds. Much geophysical and geological work was done during 1942 and previously, principally in the area running diagonally from the southeast corner of the province in a north-westerly direction to about 50 miles north of Lloydminster, the purpose being the discovery of either gas or oil. Deep tests have, however, so far failed to disclose accumulations of gas in commercial quantities.

"In Ontario, natural gas is produced commercially only in the south-western part of the province, the principal fields being Tilbury, Maldimand, Dawn, De Clute, Brownsville, Dover, Norfolk, Welland, Onondaga, and Malahide.

"In Quebec, natural gas is produced in small quantities at several wells along the St. Lawrence River and is used locally.

"In New Brunswick, the Stoney Creek field supplies Moncton and Hillsborough with natural gas. Two new wells were drilled and five were deepened, one of which was abandoned owing to mechanical difficulties, and another showed no increase. The total new production, measured in terms of initial flush production, amounted to 21,862 M cubic feet. The total production for the year was 619,380 M cubic feet. A geophysical traverse was run across the field from well 47 to well 128, and continued to Albert mine. The results show the desirability of further work of this nature."

Dividends paid in 1942 by Ontario natural gas producing companies totalled \$91,573 and the total dividends paid by these same firms to the end of 1942 aggregated \$5,208,446.

Table 1 - PRODUCTION OF NATURAL GAS IN CANADA, BY PROVINCES, 1941 and 1942

Province	1 9 4 1		1 9 4 2	
	M cu.ft.	Value \$	M cu.ft.	Value \$
New Brunswick	653,542	317,437	619,380	299,688
Ontario	11,828,703	7,140,130	10,476,770	6,809,901
Manitoba .....	...	...	...	...
Saskatchewan	106,168	31,850	117,124	45,585
Alberta	30,905,440	5,175,364	34,482,585	6,146,146
Northwest Territories ...	1,500	335	1,500	335
CANADA	43,495,353	12,665,116	45,697,359	13,301,655

Table 2 - NATURAL GAS PRODUCTION IN ONTARIO, BY FIELDS, 1941 and 1942

County	Field	1 9 4 1	1 9 4 2
		M cu.ft.	M cu.ft.
Essex	Kingsville	32,418	32,419
	(Tilbury	2,433,968	2,528,029
	(Declute	1,482,186	824,325
Kent	(Dover	341,516	310,261
	(Chatham	165,010	1,127,281
Lambton	(Dawn	1,661,500	1,526,149
	(Oil Springs	8,249	...
Middlesex	Mosa .....	...	...
Oxford	Brownsville (x)	230,077	77,905
Elgin	Bayham	71,692	118,257
	(Bayham	2,497,447	868,299
Norfolk	(Malahide	421,717	431,926
	Norfolk .....	...	...
Lincoln	Lincoln .....	...	...
Haldimand	Haldimand	1,962,524	2,124,122
Wentworth	Wentworth .....	...	...
Welland	Welland	274,039	288,663
Brant	Onondaga	182,360	145,134
Prince Edward	Hollowell .....	...	...
Wells in surface drift	Harwich and Howard Tps.	14,000	14,000
Private wells .....	.....	60,000	60,000
TOTAL PRODUCED		11,828,703	10,476,770

(x) Dereham Twp. -- 178,841 M cu.ft.; Bayham Twp. -- 41,236 M cu.ft. .. 1941.

(x) Dereham Twp. -- 58,782 M cu.ft.; Bayham Twp. -- 19,123 M cu.ft. .. 1942.

Table 3 - PRODUCTION OF NATURAL GAS IN CANADA, BY MONTHS, 1941 and 1942

	New Brunswick	Ontario	Saskatchewan	Alberta	CANADA
	M cu.ft.	M cu.ft.	M cu.ft.	M cu.ft.	M cu.ft.
<u>1 9 4 1</u>					
January	74,894	1,509,538	15,555	3,676,525	5,276,512
February	75,410	1,527,606	15,969	3,251,619	4,870,604
March	67,366	1,502,902	12,810	3,126,234	4,709,312
April	68,388	1,043,122	8,054	2,255,692	3,375,256
May	54,786	750,636	5,146	2,133,067	2,943,635
June	48,085	580,811	3,589	1,655,319	2,237,804
July	31,263	472,338	2,272	1,645,758	2,152,131(x)
August	28,510	489,661	2,765	1,665,552	2,186,988(x)
September	34,862	586,490	6,233	2,062,352	2,690,437(x)
October	46,953	782,291	7,166	2,473,227	3,309,637
November	60,313	1,205,817	11,801	3,104,149	4,382,085
December	62,707	1,377,491	14,808	3,855,946	5,310,952
TOTAL	653,542	11,828,703	106,168	30,905,440	43,495,353

Table 3 - PRODUCTION OF NATURAL GAS IN CANADA, BY MONTHS, 1941 and 1942 (Concluded)

	New Brunswick	Ontario	Saskat- chewan	Alberta	CANADA
	M cu.ft.	M cu.ft.	M cu.ft.	M cu.ft.	M cu.ft.
<u>1 9 4 2</u>					
January	78,394	1,476,794	15,441	3,824,436	5,395,065
February	69,596	1,360,428	16,053	3,421,694	4,867,771
March	61,534	1,247,777	11,023	3,334,127	4,654,461
April	59,847	1,032,425	10,595	2,723,218	3,826,085
May	52,204	796,150	5,015	2,349,200	3,202,569
June	38,143	588,178	4,807	1,827,174	2,458,302
July	30,120	476,156	3,456	1,808,406	2,318,638(x)
August	27,315	510,820	3,644	1,846,965	2,389,244(x)
September	31,205	592,285	6,020	2,370,421	3,000,431(x)
October	42,906	650,643	8,535	2,861,719	3,563,803
November	57,631	765,957	13,757	3,805,321	4,642,666
December	70,485	979,157	18,778	4,309,904	5,378,324
TOTAL	619,380	10,476,770	117,124	34,482,585	45,697,359

(x) Includes production from Fort Norman, Northwest Territories.

Table 4 - CAPITAL EMPLOYED IN THE NATURAL GAS INDUSTRY IN CANADA, BY PROVINCES, 1941 and 1942

	Ontario	Alberta	CANADA (x)
	\$	\$	\$
<u>1 9 4 1</u>			
Capital Employed as Represented by:			
Cost of land, buildings, plant, machinery and tools	43,727,294	25,433,809	70,537,671
Cost of supplies and stock on hand..	875,341	282,838	1,181,581
Cash, trading and operating accounts and bills receivable	6,926,006	2,449,494	9,511,289
TOTAL	51,528,641	28,166,141	81,280,541
<u>1 9 4 2</u>			
Capital Employed as Represented by:			
Cost of land, buildings, plant, machinery and tools	43,953,488	25,644,329	71,032,694
Cost of supplies and stock on hand..	839,411	342,640	1,202,091
Cash, trading and operating accounts and bills receivable	7,447,188	2,926,010	10,533,817
TOTAL	52,240,087	28,912,979	82,768,602

(x) Includes data for New Brunswick and Saskatchewan.

Table 5 - EMPLOYEES, SALARIES AND WAGES IN THE NATURAL GAS INDUSTRY IN CANADA, BY PROVINCES, 1941 and 1942

Province	Average Number of Employees				Salaries and Wages		
	Salaried Employees		Wage-earners	TOTAL	Salaries	Wages	TOTAL
	Male	Female					
					\$	\$	\$
<u>1941</u>							
New Brunswick..	13	8	91	112	39,603	109,374	148,977
Ontario	591	152	786	1,529	1,065,265	864,760	1,930,025
Saskatchewan ..	1	1	7	9	3,000	2,465	5,465
Alberta	247	46	218	511	551,691	205,637	757,328
CANADA	852	207	1,102	2,161	1,659,559	1,182,236	2,841,795
<u>1942</u>							
New Brunswick..	11	11	71	93	40,610	104,901	145,511
Ontario	548	155	626	1,329	1,078,481	727,295	1,805,776
Saskatchewan ..	3	1	...	4	4,500	...	4,500
Alberta	243	60	211	514	573,068	297,956	871,024
CANADA	805	227	908	1,940	1,696,659	1,130,152	2,826,811

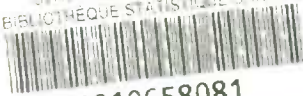
Table 6 - NATURAL GAS PIPELINE MILEAGE IN CANADA, 1941 and 1942

	Actual Miles of Main				Miles of Equivalent 3" Mains			
	Gathering and transmission		Distribution		Gathering and transmission		Distribution	
	1941	1942	1941	1942	1941	1942	1941	1942
New Brunswick ...	20	20	65	65	36	36	73	73
Ontario	2,289	2,286	2,690	2,541	3,919	3,884	2,675	2,771
Saskatchewan .....	...	...	8	6	...	...	6	4
Alberta	670	676	613	621	2,178	2,195	1,073	1,168
CANADA	2,979	2,982	3,376	3,233	6,133	6,115	3,827	4,016

Table 7 - SALES OF MANUFACTURED GAS, NUMBER OF CUSTOMERS AND MILEAGE OF PIPE LINES, 1942

Area	Number of customers	Number of active meters	Gas Sales		Mileage of pipe lines	Approximate population served by mains
			M cu.ft.	\$		
Eastern provinces	212,362	232,126	5,683,707	6,096,712	1,004	1,698,000
Ontario	213,878	214,106	10,722,202	8,764,113	1,997	1,338,447
Western provinces	71,663	75,561	2,507,321	2,455,310	869	612,319
TOTAL	497,903	521,793	18,913,230	17,316,135	3,870	3,648,766

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