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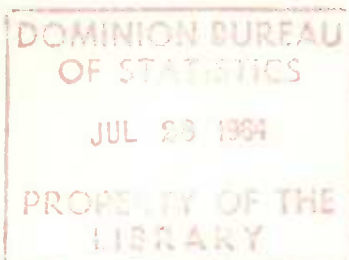
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GAS UTILITIES

(Transport and Distribution Systems)

APRIL 1964

During April 1964 field gathering systems and processing plants delivered 77,470,413 Mcf. of natural gas to gas utilities. The transport systems accounted for 59,955,466 Mcf., while the distribution systems received 17,514,947 Mcf.; natural gas received from storage was 1,155,624 Mcf. The total supply of gas utilities amounted to 80,287,332 Mcf., 15.2 per cent higher than last year. Of the total supply, 48,778,056 Mcf. were sold to ultimate customers in Canada, an increase of 21.8 per cent, while exports amounted to 32,295,319 Mcf., an increase of 9.6 per cent over the same month in 1963. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. Natural gas received by distribution systems from transport systems amounted to 26,598,833 Mcf., up 16.1 per cent from last year. For the twelve-month period ended April 1964 exports totalled 370,776,857 Mcf., while net deliveries amounted to 840,985,404 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 55.4 billion commodity (Mcf.) miles during April compared with 46.5 billion for April 1963. Ton-miles totalled 1,262 million for April 1964. The daily average deliveries of gas utilities amounted to 2.8 million Mcf.

Utility receipts of natural gas produced in Alberta totalled 63.7 billion cubic feet; of this 24.9 per cent was sold to ultimate customers in Ontario, 23.2 per cent in Alberta, 4.1 per cent in Quebec, 4.0 per cent in Manitoba, 2.5 per cent in Saskatchewan and 1.3 per cent in British Columbia. In Table 3 gas received from and delivered to storage is considered as having originated or terminated in the province where the storage is located.

Revenue for the natural gas utilities for the month was \$42,632,459 and for manufactured and liquefied petroleum gases systems \$213,505, giving a combined Gas Utilities total of \$42,845,964.

All gas volumes are given in cubic feet measured at 14.73 p.s.i.a. and 60°F; that is, without adjustments to a common B.T.U. base. Gas sales and exports in cubic feet containing 1,000 B.T.U.'s at 14.73 p.s.i.a. and 60°F are given separately in Tables 4 and 5 in the companion publication "Sales of Manufactured and Natural Gas", Catalogue number 45-005.

Residential sales and a substantial portion of the smaller commercial sales are for the most part "displacement meter" sales and adjustments to a common base are only close approximations; industrial and larger commercial sales are for the most part "orifice meter" sales which are easily adjusted to the common base. All sales are reported on a billing month basis, consequently "Line losses and unaccounted for" include cyclical billing adjustments.

A companion publication "Crude Petroleum and Natural Gas Production", Catalogue number 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division

July 1964
6511-509

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

April 1964

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	8,952	-	1,045,233
2b	Processing plants	-	-	-
3	Total (1 + 2)	8,952	-	1,045,233
4	Imports	-	-	1,647,494
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	8,952	-	2,692,727
7	Received from storage	-	-	1,101,384
9	Total supply of gas utilities (6 + 7)	8,952	-	3,794,111
	Transfers from:			
11	Other provinces	-	2,681,820	18,535,322
12	Distribution to transport (primary)	-	-	570,194
13	Other gas utilities	-	2,681,820	23,669,665
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,952	5,363,640	46,569,292
	<u>Disposition</u>			
	Sales:			
20	Residential	6,073	771,467	8,208,172
21	Industrial	-	1,654,545	8,691,262
22	Commercial	-	180,028	2,991,101
30	Total sales (20 + 21 + 22)	6,073	2,606,040	19,890,535
31	Exports	-	-	198,486
32	Other deliveries	-	-	523
33	Total net deliveries (30 + 31 + 32)	6,073	2,606,040	20,089,544
34	Delivered to storage	-	-	1,657,688
35	Line pack fluctuation	-	6,775	97,728
36	Gas used in system	-	16,397	883,476
37	Line losses and unaccounted for	2,879	52,608	- 3,080,823
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,952	2,681,820	19,647,613
	Transfers to:			
40	Other provinces	-	-	2,681,820
41	Distribution by transport (primary)	-	2,681,820	16,216,469
42	Other gas utilities	-	-	8,023,890
49	Total disposition (39 + 40 + 41 + 42)	8,952	5,363,640	46,569,292

(1) Includes peak shaving and enrichment.

r Revised figures.

... Figures not appropriate or not applicable.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

April 1964

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	April ^F 1963	No.
					Canada	
Mcf.						
-	-	6,872,845	207,002	7,079,847	6,167,559	1a
-	-	43,084,759	9,790,860	52,875,619	45,837,750	1b
-	514,479	5,311,709	10,318	6,890,691	5,215,991	2a
-	2,144,144	8,436,350	43,762	10,624,256	10,595,125	2b
-	2,658,623	63,705,663	10,051,942	77,470,413	67,816,425	3
-	-	7,740	-	1,655,234	1,124,916	4
394	-	5,667	-	6,061	441	5
394	2,658,623	63,719,070	10,051,942	79,131,708	68,941,782	6
-	21,531	32,709	-	1,155,624	773,968	7
394	2,680,154	63,751,779	10,051,942	80,287,332	69,715,750	9
26,854,396	28,946,055	-	17,625,688	...	...	11
-	614,387	312,934	-	1,497,515	2,988,816	12
2,081,948	1,815,760	2,938,796	3,564,135	36,752,124	30,669,258	13
28,936,738	34,056,356	67,003,509	31,241,765	118,536,971	103,373,824	19
1,352,612	1,962,740	4,623,162	1,441,956	18,366,182	13,908,773	20
698,953	1,999,919	6,824,443	1,693,591	21,562,713	19,602,222	21
917,234	937,670	3,321,056	502,072	8,849,161	6,530,644	22
2,968,799	4,900,329	14,768,661	3,637,619	48,778,056	40,041,639	30
5,774,082	-	2,444,441	23,878,310	32,295,319	29,464,060	31
-	-	807,300	-	807,823	59,194	32
8,742,881	4,900,329	18,020,402	27,515,929	81,881,198	69,564,893	33
-	498,896	626,798	-	2,783,382	1,836,791	34
22,215	20,446	1,144	- 55,502	92,806	- 188,432	35
404,210	850,896	121,257	219,308	2,495,544	1,572,385	36
- 849,838	- 1,498,754	- 1,589,565	- 2,105	- 6,965,598	- 3,069,887	37
8,319,468	4,771,813	17,180,036	27,677,630	80,287,332	69,715,750	39
18,535,322	26,854,396	46,571,743	-	...	...	40
2,081,948	1,815,760	314,152	3,488,684	26,598,833	22,906,425	41
-	614,387	2,937,578	75,451	11,650,806	10,751,649	42
28,936,738	34,056,356	67,003,509	31,241,765	118,536,971	103,373,824	49

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

No.		January ^F	February	March	April	May	
				Mcf.			
	<u>Receipts</u>						
1	By transport systems:						
1a	Fields	8,082,197	7,536,571	8,123,028	7,079,847		
1b	Processing plants	59,356,924	55,783,590	57,861,379	52,875,619		
2	By distribution systems:						
2a	Fields	8,618,465	7,709,039	10,057,374	6,890,691		
2b	Processing plants	14,340,369	12,676,726	12,782,801	10,624,256		
3	Total (1 + 2)	90,397,955	83,705,926	88,824,582	77,470,413		
4	Imports	12,330	9,898	11,539	1,655,234		
5	Other receipts(1)	65,536	18,340	9,929	6,061		
6	Total net receipts (3 + 4 + 5)	90,475,821	83,734,164	88,846,050	79,131,708		
7	Received from storage	6,075,333	4,719,049	3,700,955	1,155,624		
9	Total supply of gas utilities (6 + 7)	96,551,154	88,453,213	92,547,005	80,287,332		
	<u>Transfers from:</u>						
11	Other provinces .....	...	...	...	...
12	Distribution to transport (primary)	1,115,736	1,065,673	2,523,361	1,497,515		
13	Other gas utilities	45,981,851	43,510,890	44,137,604	36,752,124		
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,648,741	133,029,776	139,207,970	118,536,971		
	<u>Disposition</u>						
	<u>Sales:</u>						
20	Residential	26,037,617	22,076,532	20,845,693	18,366,182		
21	Industrial	20,146,835	18,948,525	20,767,171	21,562,713		
22	Commercial	12,098,782	10,226,998	10,091,415	8,849,161		
30	Total sales (20 + 21 + 22)	58,283,234	51,252,055	51,704,279	48,778,056		
31	Exports	36,341,974	34,210,271	34,637,621	32,295,319		
32	Other deliveries	241,750	211,370	390,420	807,823		
33	Total net deliveries (30 + 31 + 32)	94,866,958	85,673,696	86,732,320	81,881,198		
34	Delivered to storage	599,075	744,277	665,295	2,783,382		
35	Line pack fluctuation	- 35,828	10,537	- 80,392	92,806		
36	Gas used in system	2,671,670	2,645,654	2,832,444	2,495,544		
37	Line losses and unaccounted for	- 1,550,721	- 620,951	2,397,338	- 6,965,598		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	96,551,154	88,453,213	92,547,005	80,287,332		
	<u>Transfers to:</u>						
40	Other provinces .....	...	...	...	...
41	Distribution by transport (primary)	35,182,609	32,659,707	33,754,997	26,598,833		
42	Other gas utilities	11,914,978	11,916,856	12,905,968	11,650,806		
49	Total disposition (39 + 40 + 41 + 42)	143,648,741	133,029,776	139,207,970	118,536,971		

(1) Includes peak shaving and enrichment.

^F Revised figures.

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

June	July	August	September	October	November	December	Year to date		No.
							1964 ^r	1963 ^r	
				Mcf.					
							30,821,643	27,774,015	1a
							225,877,512	196,916,835	1b
							33,275,569	33,223,249	2a
							50,424,152	48,016,164	2b
							340,398,876	305,930,263	3
							1,689,001	2,492,815	4
							99,866	124,447	5
							342,187,743	308,547,525	6
							15,650,961	17,444,159	7
							357,838,704	325,991,684	9
							11
							6,202,285	15,625,781	12
							170,382,469	147,763,295	13
							534,423,458	489,380,760	19
							87,326,024	82,232,596	20
							81,425,244	74,276,262	21
							41,266,356	37,098,945	22
							210,017,624	193,607,803	30
							137,485,185	126,314,588	31
							1,651,363	281,993	32
							349,154,172	320,204,384	33
							4,792,029	4,134,944	34
							- 12,877	123,421	35
							10,645,312	7,504,119	36
							- 6,739,932	- 5,975,184	37
							357,838,704	325,991,684	39
							40
							128,196,146	114,415,957	41
							48,388,608	48,973,119	42
							534,423,458	489,380,760	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

April 1964

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	<u>Receipts</u>							
1	By transport systems:							
1a	Fields	-	-	-	6,872,845	207,002	...	7,079,847
1b	Processing plants	-	-	-	43,084,759	9,790,860	...	52,875,619
2	By distribution systems:							
2a	Fields	8,952	1,045,233	514,479	5,311,709	10,318	...	6,890,691
2b	Processing plants	-	-	2,144,144	8,436,350	43,762	...	10,624,256
3	Total (1 + 2)	8,952	1,045,233	2,658,623	63,705,663	10,051,942	...	77,470,413
4	Imports .....	...	...	...	...	...	1,655,234	1,655,234
5	Other receipts (1)	-	-	-	6,061	-	...	6,061
6	Total net receipts (3 + 4 + 5)	8,952	1,045,233	2,658,623	63,711,724	10,051,942	1,655,234	79,131,708
7	Received from storage	-	1,101,384	21,531	32,709	-	...	1,155,624
9	Total supply of gas utilities (6 + 7)	8,952	2,146,617	2,680,154	63,744,433	10,051,942	1,655,234	80,287,332
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	849,566	2,788,053	-	3,637,619
24	Alberta	-	-	-	14,760,921	-	7,740	14,768,661
25	Saskatchewan	-	-	3,326,548	1,573,781	-	-	4,900,329
26	Manitoba	-	-	368,989	2,599,810	-	-	2,968,799
27	Ontario	-	2,386,460	-	15,856,581	-	1,647,494	19,890,535
28	Quebec	-	-	-	2,606,040	-	-	2,606,040
29	New Brunswick	6,073	-	-	-	-	-	6,073
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,073	2,386,460	3,695,537	38,246,699	2,788,053	1,655,234	48,778,056
31	Exports	-	-	-	25,139,079	7,156,240	...	32,295,319
32	Other deliveries	-	-	-	807,823	-	...	807,823
33	Total net deliveries (30 + 31 + 32)	6,073	2,386,460	3,695,537	64,193,601	9,944,293	1,655,234	81,881,198
34	Delivered to storage	-	-	498,896	2,284,486	-	-	2,783,382
35	Line pack fluctuation	-	-	- 9,174	164,834	- 62,854	-	92,806
36	Gas used in system	-	33,892	42,474	2,262,927	156,251	-	2,495,544
37	Line losses and unaccounted for	2,879	- 273,735	- 1,547,579	- 5,161,415	14,252	-	- 6,965,598
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,952	2,146,617	2,680,154	63,744,433	10,051,942	1,655,234	80,287,332

(1) Includes peak shaving and enrichment.
 ... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

April 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
April 1964:			
Daily average	1,963,138	1,625,935	2,822,153
Maximum(1)	2,513,595	...	...
Minimum(1)	1,873,122	...	...
Exports maximum(1)	1,205,719	...	1,205,719
April 1963 ^r :			
Daily average	1,745,683	1,334,721	2,380,056
Maximum(1)	2,118,938	...	...
Minimum(1)	1,558,838	...	...
Year to date 1964:			
Daily average	2,195,713	1,735,683	2,925,175
Maximum(1)	2,732,436	...	...
Minimum(1)	1,873,122	...	...
Commodity miles:			
Mcf. miles (thousands)	55,357,990	..	..
Ton-miles (millions)	1,262	..	..
Line pack:			
Beginning of month (Mcf.)	6,522,974	..	..
End of month (Mcf.)	6,621,915	..	..
Operating revenues	(\$)19,660,148	(\$)32,934,709	(\$)42,632,459(2)

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

^r Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

April 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	44,063	215,714
Deliveries to ultimate customers	47,259	216,368
Line pack fluctuations	-	- 8,389
Gas used in system	8,389	2,614
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 11,585	5,121
Total disposition	44,063	215,714
Daily average sendout	1,575	7,212
Revenues	(\$)41,749	(\$)171,756



TABLE 6. Exports and Imports to and from the United States

April 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	198,486	-
Ojibway, Ontario	-	1,647,494(2)
Emerson, Manitoba	5,774,082	-
Coutts, Alberta	219	7,740
Aden, Alberta	1,729,464	-
Carway, Alberta	714,758	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,114,617	-
Other U.S.A.	3,789,624	-
Huntingdon, British Columbia	8,974,069	-
Canada - 1964	32,295,319	1,655,234
1963	29,464,060	1,124,916

(1) California, Nevada, Arizona.

(2) Includes 559,167 Mcf. entered at customs port of Niagara Falls.