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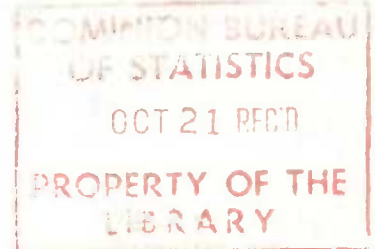
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GAS UTILITIES (Transport and Distribution Systems)

JULY 1964



For July 1964 field gathering systems and processing plants delivered to gas utilities 63,349,944 Mcf. of natural gas. The transport systems accounted for 51,122,494 Mcf. and the distribution systems 12,227,450 Mcf. Natural gas received from storage was 117,570 Mcf. The total supply of gas utilities amounted to 64,325,569 Mcf., 9.7 per cent higher than in July 1963. Of the total supply, 26,235,587 Mcf. were sold to ultimate customers in Canada, an increase of 9.4 per cent. Exports rose 5.4 per cent to 28,321,484 Mcf. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. The distribution systems received from the transport systems 18,136,148 Mcf. of natural gas, an increase of 10.7 per cent. For the twelve-month period ended July 1964 exports totalled 378,212,465 Mcf., while net deliveries amounted to 858,270,635 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 51.3 billion commodity (Mcf.) miles during July compared with 45.0 billion last year. Ton-miles totalled 1,169 million for July 1964. The daily average deliveries of gas utilities amounted to 2.0 million Mcf.

Alberta natural gas utility receipts totalled 53.5 billion cubic feet; of this 16.4 per cent was sold to ultimate customers in Alberta, 15.2 per cent in Ontario, 4.8 per cent in Quebec, 1.4 per cent in Manitoba, 1.2 per cent in Saskatchewan and 0.7 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 \$23,276,251 and for manufactured and liquefied petroleum gases systems \$145,957, giving a combined Gas Utilities total of \$23,422,208.

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 approximation; 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

October 1964
6511-509

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

July 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	5,966	-	694,424
2b	Processing plants	-	-	-
3	Total (1 + 2)	5,966	-	694,424
4	Imports	-	-	851,121
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	5,966	-	1,545,545
7	Received from storage	-	-	8,653
9	Total supply of gas utilities (6 + 7)	5,966	-	1,554,198
	Transfers from:			
11	Other provinces	-	2,619,139	17,988,577
12	Distribution to transport (primary)	-	-	545,084
13	Other gas utilities	-	2,619,139	20,862,658
19	Total gross receipts (9 + 11 + 12 + 13) ...	5,966	5,238,278	40,950,517
	<u>Disposition</u>			
	Sales:			
20	Residential	4,819	201,381	1,450,204
21	Industrial	-	2,270,280	7,448,773
22	Commercial	-	93,641	760,362
30	Total sales (20 + 21 + 22)	4,819	2,565,302	9,659,339
31	Exports	-	-	130,401
32	Other deliveries	-	-	-
33	Total net deliveries (30 + 31 + 32)	4,819	2,565,302	9,789,740
34	Delivered to storage	-	-	6,366,869
35	Line pack fluctuation	-	- 8,722	- 49,558
36	Gas used in system	-	4,388	734,192
37	Line losses and unaccounted for	1,147	58,171	82,393
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	5,966	2,619,139	16,923,636
	Transfers to:			
40	Other provinces	-	-	2,619,139
41	Distribution by transport (primary)	-	2,619,139	11,880,998
42	Other gas utilities	-	-	9,526,766
49	Total disposition (39 + 40 + 41 + 42)	5,966	5,238,278	40,950,517

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

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

July 1964

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	July ^x 1963	No.
					Canada	
			Mcf.			
-	-	4,313,153	241,131	4,554,284	4,677,110	1a
-	-	39,299,607	7,268,603	46,568,210	41,472,855	1b
-	180,947	1,940,210	7,003	2,828,550	2,590,966	2a
-	1,454,835	7,932,130	11,935	9,398,900	9,020,805	2b
-	1,635,782	53,485,100	7,528,672	63,349,944	57,761,736	3
-	-	1,553	-	852,674	867,400	4
4,037	-	1,344	-	5,381	10,081	5
4,037	1,635,782	53,487,997	7,528,672	64,207,999	58,639,217	6
-	96,625	12,292	-	117,570	-	7
4,037	1,732,407	53,500,289	7,528,672	64,325,569	58,639,217	9
24,778,514	26,006,384	-	15,312,575	...	...	11
-	369,278	357,294	-	1,271,656	5,105,874	12
811,427	804,085	2,403,365	1,939,490	29,440,164	24,629,384	13
25,593,978	28,912,154	56,260,948	24,780,737	95,037,389	88,374,475	19
197,236	362,875	1,061,692	464,581	3,742,788	3,477,050	20
589,866	1,858,962	6,843,483	1,260,852	20,272,216	18,606,378	21
142,460	163,240	876,601	184,279	2,220,583	1,886,996	22
929,562 ^F	2,385,077	8,781,776	1,909,712	26,235,587	23,970,424	30
5,552,131	-	1,881,827	20,757,125	28,321,484	26,871,216	31
-	-	551,636	-	551,636	50,623	32
6,481,693	2,385,077	11,215,239	22,666,837	55,108,707	50,892,263	33
-	104,855	711,954	-	7,183,678	6,751,487	34
- 11,355	- 24,082	51,093	- 178,312	- 220,936	- 266,566	35
328,602	676,147	88,788	136,008	1,968,125	1,521,333	36
- 4,966	- 181,720	114,256	216,714	285,995	- 259,300	37
6,793,974	2,960,277	12,181,330	22,841,247	64,325,569	58,639,217	39
17,988,577	24,778,514	41,318,959	-	...	...	40
811,427	804,085	105,787	1,914,712	18,136,148	16,385,216	41
-	369,278	2,654,872	24,778	12,575,672	13,350,042	42
25,593,978	28,912,154	56,260,948	24,780,737	95,037,389	88,374,475	49

^F Revised figures.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

No.		January	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	5,997,558
1b	Processing plants	59,356,924	55,783,590	57,861,379	52,875,619	48,477,588
2	By distribution systems:					
2a	Fields	8,618,465	7,709,039	10,057,374	6,890,691	4,238,638
2b	Processing plants	14,340,369	12,676,726	12,782,801	10,624,256	10,474,666
3	Total (1 + 2)	90,397,955	83,705,926	88,824,582	77,470,413	69,188,450
4	Imports	12,330	9,898	11,539	1,655,234	2,848,426
5	Other receipts(1)	65,536	18,340	9,929	6,061	5,218
6	Total net receipts (3 + 4 + 5)	90,475,821	83,734,164	88,846,050	79,131,708	72,042,094
7	Received from storage	6,075,333	4,719,049	3,700,955	1,155,624	511,497
9	Total supply of gas utilities (6 + 7)	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	1,115,736	1,065,673	2,523,361	1,497,515	2,826,458
13	Other gas utilities	45,981,851	43,510,890	44,137,604	36,752,124	30,505,887
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936
	<u>Disposition</u>					
	Sales:					
20	Residential	26,037,617	22,076,532	20,845,693	18,366,182	10,050,433
21	Industrial	20,146,835	18,948,525	20,767,171	21,562,713	21,454,147
22	Commercial	12,098,782	10,226,998	10,091,415	8,849,161	5,137,351
30	Total sales (20 + 21 + 22)	58,283,234	51,252,055	51,704,279	48,778,056	36,641,931
31	Exports	36,341,974	34,210,271	34,637,621	32,295,319	31,550,953
32	Other deliveries	241,750	211,370	390,420	807,823	507,228
33	Total net deliveries (30 + 31 + 32)	94,866,958	85,673,696	86,732,320	81,881,198	68,700,112
34	Delivered to storage	599,075	744,277	665,295	2,783,382	5,536,497
35	Line pack fluctuation	- 35,828	10,537	- 80,392	92,806	- 14,974
36	Gas used in system	2,671,670	2,645,654	2,832,444	2,495,544	1,806,775
37	Line losses and unaccounted for	- 1,550,721	- 620,951	2,397,338	- 6,965,598	- 3,474,819
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	35,182,609	32,659,707	33,754,997	26,598,833	21,555,551
42	Other gas utilities	11,914,978	11,916,856	12,905,968	11,650,806	11,776,794
49	Total disposition (39 + 40 + 41 + 42)	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936

(1) Includes peak shaving and enrichment.

r Revised figures.

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

July 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	-	-	-	4,313,153	241,131	...	4,554,284
1b	Processing plants	-	-	-	39,299,607	7,268,603	...	46,568,210
2	By distribution systems:							
2a	Fields	5,966	694,424	180,947	1,940,210	7,003	...	2,828,550
2b	Processing plants	-	-	1,454,835	7,932,130	11,935	...	9,398,900
3	Total (1 + 2)	5,966	694,424	1,635,782	53,485,100	7,528,672	...	63,349,944
4	Imports .....	...	...	...	...	...	852,674	852,674
5	Other receipts(1)	-	-	-	5,381	-	...	5,381
6	Total net receipts (3 + 4 + 5)	5,966	694,424	1,635,782	53,490,481	7,528,672	852,674	64,207,999
7	Received from storage	-	8,653	96,625	12,292	-	...	117,570
9	Total supply of gas utilities (6 + 7)	5,966	703,077	1,732,407	53,502,773	7,528,672	852,674	64,225,259
	<u>Disposition</u>							
	<u>Sales:</u>							
23	British Columbia	-	-	-	373,653	1,536,059	-	1,909,712
24	Alberta	-	-	-	8,780,223	-	1,553	8,781,776
25	Saskatchewan	-	-	1,760,218	624,859	-	-	2,385,077
26	Manitoba	-	-	184,562	745,000	-	-	929,562
27	Ontario	-	644,918	-	8,163,300	-	851,121	9,659,339
28	Quebec	-	-	-	2,565,302	-	-	2,565,302
29	New Brunswick	4,819	-	-	-	-	-	4,819
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	4,819	644,918	1,944,780	21,252,337	1,536,059	852,674	26,235,587
31	Exports	-	-	-	22,433,342	5,888,142	...	28,321,484
32	Other deliveries	-	-	-	551,636	-	...	551,636
33	Total net deliveries (30 + 31 + 32)	4,819	644,918	1,944,780	44,237,315	7,424,201	852,674	55,108,707
34	Delivered to storage	-	-	104,855	7,078,823	-	-	7,183,678
35	Line pack fluctuation	-	-	- 8,942	- 17,087	- 194,907	-	- 220,936
36	Gas used in system	-	49,910	18,943	1,814,591	84,681	-	1,968,125
37	Line losses and unaccounted for	1,147	8,249	- 327,229	389,131	214,697	-	285,995
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	5,966	703,077	1,732,407	53,502,773	7,528,672	852,674	64,325,569

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

TABLE 4. Operating Statistics: Natural Gas Utilities

July 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
July 1964:			
Daily average	1,498,633	846,309	2,009,432
Maximum(1)	1,836,923	...	...
Minimum(1)	1,362,645	...	...
Exports maximum(1)	1,066,970	...	1,066,970
July 1963 ^F :			
Daily average	1,395,369	773,239	1,859,476
Maximum(1)	1,680,994	...	...
Minimum(1)	1,171,709	...	...
Year to date 1964:			
Daily average	1,944,728	1,429,304	2,609,085
Maximum(1)	2,732,436	...	...
Minimum(1)	1,362,645	...	...
Commodity miles:			
Mcf. miles (thousands)	51,288,717	..	..
Ton-miles (millions)	1,169	..	..
Line pack:			
Beginning of month (Mcf.)	6,572,499	..	..
End of month (Mcf.)	6,372,653	..	..
Operating revenues	(\$) 16,808,882	(\$) 14,330,269	(\$) 23,276,251

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

^F Revised figures

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

July 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	51,213	98,919
Deliveries to ultimate customers	51,520	87,953
Line pack fluctuations	-	- 640
Gas used in system	640	1,045
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 947	10,561
Total disposition	51,213	98,919
Daily average sendout	1,662	2,837
Revenues	(\$) 39,839	(\$) 106,118

TABLE 6. Exports and Imports to and from the United States
July 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	130,401	-
Ojibway, Ontario	-	851,121
Emerson, Manitoba	5,552,131	-
Coutts, Alberta	189	1,553
Aden, Alberta	953,864	-
Carway, Alberta	927,774	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,070,303	-
Other U.S.A.	2,644,289	-
Huntingdon, British Columbia	7,042,533	-
Canada - 1964	28,321,484	852,674
1963	26,871,216	867,400

(1) California, Nevada, Arizona.