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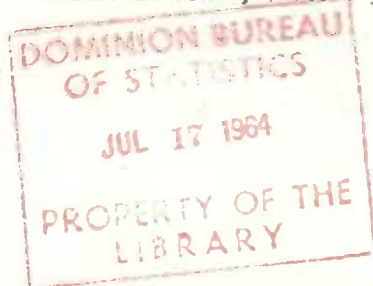
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GAS UTILITIES
(Transport and Distribution Systems)

MARCH 1964



During March 1964 natural gas received by gas utilities from field gathering systems and processing plants totalled 88,824,582 Mcf. The transport systems accounted for 65,984,407 Mcf., and the distribution systems 22,840,175 Mcf. Receipts of natural gas from storage was 3,700,955 Mcf. The total supply of gas utilities was 92,547,005 Mcf., up 14.2 per cent over March 1963. Of the total supply, 51,704,279 Mcf. were sold to ultimate customers in Canada, an increase of 8.5 per cent, while exports rose 6.5 per cent to 34,637,621 Mcf. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and small deliveries to storage. The distribution systems received from the transport systems 33,754,997 Mcf. of natural gas, an increase of 23.1 per cent. For the twelve-month period ended March 1964 exports totalled 367,945,598 Mcf., while net deliveries amounted to 828,669,099 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 58.5 billion commodity (Mcf.) miles for March 1964 compared with 50.0 billion for the same month a year ago. Ton-miles totalled 1,334 million for March 1964. The daily average deliveries of gas utilities amounted to 2.8 million Mcf.

Natural gas received by Alberta utilities totalled 72.5 billion cubic feet; of this 22.3 per cent was sold to ultimate customers in Alberta, 20.9 per cent in Ontario, 4.0 per cent in Manitoba, 3.8 per cent in Quebec, 3.2 per cent in Saskatchewan and 1.4 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 March was \$45,693,881 and for manufactured and liquefied petroleum gases systems \$216,546, giving a combined Gas Utilities total of \$45,910,427.

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 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division

June 1964
6511-509

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

March 1964

No.	New Brunswick	Quebec	Ontario
		Mcf.	
	<u>Receipts</u>		
1	By transport systems:		
1a	-	-	-
1b	-	-	-
2	By distribution systems:		
2a	12,420	-	2,191,960
2b	-	-	-
3	12,420	-	2,191,960
4	-	-	-
5	-	-	-
6	12,420	-	2,191,960
7	-	-	3,296,057
9	12,420	-	5,488,017
	Transfers from:		
11	-	2,832,858	19,210,755
12	-	-	1,396,428
13	-	2,832,858	27,090,487
19	12,420	5,665,716	53,185,687
	<u>Disposition</u>		
	Sales:		
20	5,582	1,053,056	9,241,879
21	-	1,430,560	8,038,833
22	-	283,911	3,310,391
30	5,582	2,767,527	20,591,103
31	-	-	173,503
32	-	-	1,063
33	5,582	2,767,527	20,765,669
34	-	-	35,842
35	-	- 7,190	- 66,828
36	-	11,253	1,044,464
37	6,838	61,268	86,767
39	12,420	2,832,858	21,865,914
	Transfers to:		
40	-	-	2,832,858
41	-	2,832,858	19,916,946
42	-	-	8,570,149
49	12,420	5,665,716	53,185,967

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

r Revised figures

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

March 1964

Manitoba	Saskatchewan	Alberta ^F	British Columbia	Canada	March ^F 1963		No.
					Canada		
			Mcf.				
-	-	7,766,193	356,835	8,123,028	6,682,865	1a	
-	-	47,032,677	10,828,702	57,861,379	50,789,042	1b	
-	653,230	7,183,646	16,118	10,057,374	7,058,003	2a	
-	2,373,414	10,338,770	70,617	12,782,801	12,851,324	2b	
-	3,026,644	72,321,286	11,272,272	88,824,582	77,381,234	3	
-	-	11,539	-	11,539	987,966	4	
1,342	-	8,587	-	9,929	1,002	5	
1,342	3,026,644	72,341,412	11,272,272	88,846,050	78,370,202	6	
-	281,490	123,408	-	3,700,955	2,646,935	7	
1,342	3,308,134	72,464,820	11,272,272	92,547,005	81,017,137	9	
29,481,350	32,194,176	-	19,491,035	...	...	11
-	762,389	364,364	-	2,523,361	3,624,455	12	
3,519,375	2,553,618	3,582,950	4,558,316	44,137,604	35,730,383	13	
33,002,067	38,818,317	76,412,134	35,321,623	139,207,970	120,371,975	19	
1,608,089	2,017,351	5,045,270	1,874,466	20,845,693	19,618,195	20	
702,528	1,405,383	7,307,391	1,882,476	20,767,171	19,176,060	21	
1,073,048	945,890	3,856,824	621,351	10,091,415	8,844,584	22	
3,383,665	4,368,624	16,209,485	4,378,293	51,704,279	47,638,839	30	
6,291,817	-	2,396,363	25,775,938	34,637,621	32,520,099	31	
-	-	389,357	-	390,420	68,550	32	
9,675,482	4,368,624	18,995,205	30,154,231	86,732,320	80,227,488	33	
-	128,473	500,980	-	665,295	951,620	34	
- 13,500	- 18,170	- 32,961	58,257	- 80,392	254,266	35	
442,651	939,364	126,620	268,092	2,832,444	1,922,048	36	
167,304	602,669	1,189,765	282,727	2,397,338	- 2,338,285	37	
10,271,937	6,020,960	20,779,609	30,763,307	92,547,005	81,017,137	39	
19,210,755	29,481,350	51,685,211	-	...	...	40
3,519,375	2,553,618	509,840	4,422,360	33,754,997	27,422,291	41	
-	762,389	3,437,474	135,956	12,905,968	11,932,547	42	
33,002,067	38,818,317	76,412,134	35,321,623	139,207,970	120,371,975	49	

TABLE 2. 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		
1b	Processing plants	59,356,924	55,783,590	57,861,379		
2	By distribution systems:					
2a	Fields	8,618,465	7,709,039	10,057,374		
2b	Processing plants	14,340,369	12,676,726	12,782,801		
3	Total (1 + 2)	90,397,955	83,705,926	88,824,582		
4	Imports	12,330	9,898	11,539		
5	Other receipts(1)	65,536	18,340	9,929		
6	Total net receipts (3 + 4 + 5)	90,475,821	83,734,164	88,846,050		
7	Received from storage	6,075,333	4,719,049	3,700,955		
9	Total supply of gas utilities (6 + 7)	96,551,154	88,453,213	92,547,005		
	Transfers from:					
11	Other provinces .....	...	...	...
12	Distribution to transport (primary)	1,115,736	1,065,673	2,523,361		
13	Other gas utilities	45,981,851	43,510,890	44,137,604		
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,648,741	133,029,776	139,207,970		
	<u>Disposition</u>					
	Sales:					
20	Residential	26,037,617	22,076,532	20,845,693		
21	Industrial	20,144,427	18,948,525	20,767,171		
22	Commercial	12,098,782	10,226,998	10,091,415		
30	Total sales (20 + 21 + 22)	58,280,826	51,252,055	51,704,279		
31	Exports	36,341,974	34,210,271	34,637,621		
32	Other deliveries	241,750	211,370	390,420		
33	Total net deliveries (30 + 31 + 32)	94,864,550	85,673,696	86,732,320		
34	Delivered to storage	599,075	744,277	665,295		
35	Line pack fluctuation	- 35,828	10,537	- 80,392		
36	Gas used in system	2,671,670	2,645,654	2,832,444		
37	Line losses and unaccounted for	- 1,548,313	- 620,951	2,397,338		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	96,551,154	88,453,213	92,547,005		
	Transfers to:					
40	Other provinces .....	...	...	...
41	Distribution by transport (primary)	35,182,609	32,659,707	33,754,997		
42	Other gas utilities	11,914,978	11,916,856	12,905,968		
49	Total disposition (39 + 40 + 41 + 42)	143,648,741	133,029,776	139,207,970		

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

TABLE 3. Receipts and Disposition of Natural Gas by Source

March 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	-	-	-	7,766,193	356,835	...	8,123,028	
1b	Processing plants	-	-	-	47,032,677	10,828,702	...	57,861,379	
2	By distribution systems:								
2a	Fields	12,420	2,191,960	653,230	7,183,646	16,118	...	10,057,374	
2b	Processing plants	-	-	2,373,414	10,338,770	70,617	...	12,782,801	
3	Total (1 + 2)	12,420	2,191,960	3,026,644	72,321,286	11,272,272	...	88,824,582	
4	Imports .....	...	...	...	...	...	11,539	11,539
5	Other receipts(1)	-	-	-	9,929	-	...	9,929	
6	Total net receipts (3 + 4 + 5)	12,420	2,191,960	3,026,644	72,331,215	11,272,272	11,539	88,846,050	
7	Received from storage	-	3,296,057	281,490	123,408	-	...	3,700,955	
9	Total supply of gas utilities (6 + 7)	12,420	5,488,017	3,308,134	72,454,623	11,272,272	11,539	92,547,005	
	<u>Disposition</u>								
	<u>Sales:</u>								
23	British Columbia	-	-	-	1,008,656	3,369,637	-	4,378,293	
24	Alberta	-	-	-	16,197,946	-	11,539	16,209,485	
25	Saskatchewan	-	-	2,045,600	2,323,024	-	-	4,368,624	
26	Manitoba	-	-	517,834	2,865,831	-	-	3,383,665	
27	Ontario	-	5,469,438	-	15,121,665	-	-	20,591,103	
28	Quebec	-	-	-	2,767,527	-	-	2,767,527	
29	New Brunswick	5,582	-	-	-	-	-	5,582	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,582	5,469,438	2,563,434	40,284,649	3,369,637	11,539	51,704,279	
31	Exports	-	-	-	27,167,624	7,469,997	...	34,637,621	
32	Other deliveries	-	-	-	390,420	-	...	390,420	
33	Total net deliveries (30 + 31 + 32)	5,582	5,469,438	2,563,434	67,842,693	10,839,634	11,539	86,732,320	
34	Delivered to storage	-	-	128,473	536,822	-	-	665,295	
35	Line pack fluctuation	-	-	- 170	- 128,550	48,328	-	- 80,392	
36	Gas used in system	-	70,882	54,064	2,513,382	194,116	-	2,832,444	
37	Line losses and unaccounted for	6,838	- 52,303	562,333	1,690,276	190,194	-	2,397,338	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,420	5,488,017	3,308,134	72,454,623	11,272,272	11,539	92,547,005	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

March 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
March 1964:			
Daily average	2,206,214	1,667,880	2,819,278
Maximum(1)	2,611,773	...	...
Minimum(1)	1,914,223	...	...
Exports maximum(1)	1,212,073	...	1,212,073
March 1963^F:			
Daily average	1,933,626	1,536,737	2,618,681
Maximum(1)	2,317,964	...	...
Minimum(1)	1,702,097	...	...
Year to date 1964:			
Daily average	2,272,387	1,771,837	2,959,112
Maximum(1)	2,732,436	...	...
Minimum(1)	1,914,223	...	...
Commodity miles:			
Mcf. miles (thousands)	58,489,480	..	..
Ton-miles (millions)	1,334	..	..
Line pack:			
Beginning of month (Mcf.)	6,594,169	..	..
End of month (Mcf.)	6,522,974	..	..
Operating revenues	(\$) <u>20,882,060</u>	(\$) <u>35,946,821</u>	(\$) <u>45,693,881(2)</u>

(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

March 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	43,795	236,813
Deliveries to ultimate customers	43,515	211,549
Line pack fluctuations	-	4,645
Gas used in system	- 4,645	2,971
Metering difference, line losses, cyclical billing adjustments and unaccounted for	4,925	17,648
Total disposition	43,795	236,813
Daily average sendout	1,404	6,824
Revenues	(\$) <u>40,244</u>	(\$) <u>176,302</u>



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

March 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	173,503	-
Ojibway, Ontario	-	-
Emerson, Manitoba	6,291,817	-
Coutts, Alberta	353	11,539
Aden, Alberta	1,569,165	-
Carway, Alberta	826,845	-
Kingsgate, British Columbia - U.S.A. District V South(1)	12,272,047	-
Other U.S.A.	4,198,591	-
Huntingdon, British Columbia	9,305,300	-
Canada - 1964	34,637,621	11,539
1963	32,520,099	987,966

(1) California, Nevada, Arizona.