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GAS UTILITIES

(Transport and Distribution Systems)

MARCH 1963

Gas utilities for March 1963 received from field gathering systems and processing plants 77,381,234 Mcf. of natural gas. The transport systems accounted for 5,185,435 Mcf. from fields and 50,341,692 Mcf. from processing plants, while the distribution systems received 14,239,942 Mcf. and 7,614,165 Mcf. respectively; natural gas received from storage was 2,646,935 Mcf. The total supply of gas utilities, 81,017,137 Mcf. was 6.9 per cent higher than in March 1962. Of the total supply, 47,909,488 Mcf. were sold to ultimate customers in Canada, an increase of 2.7 per cent, while exports amounted to 32,520,099 Mcf., an increase of 12.5 per cent. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and small deliveries to storage. Transport systems delivered 27,422,291 Mcf. to distribution systems, an increase of 16.9 per cent over last year. For the twelve-month period ended March 1963 exports totalled 374,167,125 Mcf., while net deliveries amounted to 805,146,730 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 50.0 billion commodity (Mcf.) miles during March compared with 45.2 billion for the same period last year. Ton miles totalled 1,141 million for March 1963. The daily average deliveries of gas utilities amounted to 2.6 million Mcf./day.

Alberta natural gas utility receipts totalled 62.3 billion cubic feet; of this 24.5 per cent was sold to ultimate customers in Alberta, 22.0 per cent in Ontario, 4.2 per cent in Manitoba, 2.5 per cent in Saskatchewan, 1.3 per cent in British Columbia and 3.6 per cent in Quebec. Deliveries of gas to storage in Table 3 are considered as terminated and receipts of natural gas from storage for any province are considered as originated.

Revenue for the natural gas utilities for the month was \$42,106,859 and for manufactured and liquefied petroleum gases systems \$254,879 giving a combined Gas Utilities total of \$42,361,738.

This report has revisions in concept to bring it into line with the practice of industry, as well as several revisions by respondents to adopt the new concepts. All gas volumes are now 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. As a result of these changes it has been necessary to revise certain of the 1962 figures, particularly exports, to enable more meaningful comparisons. Unfortunately, there is no precise comparison of the residential, commercial and industrial sales although the reported sales volumes are believed to be within 1 - 2 per cent of what volumes would have been under the revised concepts.

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 a "cyclical billing adjustment".

Industry Division

November 1963  
8506-503

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

March 1963

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	15,228	-	1,676,619
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	15,228	-	1,676,619
4	Imports .....	-	-	979,733
5	Other receipts .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	15,228	-	2,656,352
7	Received from storage .....	-	-	2,629,062
9	Total supply of gas utilities (6 + 7) .....	15,228	-	5,285,414
	Transfers from:			
11	Other provinces .....	-	2,376,494	15,832,905
12	Distribution to transport (primary) .....	-	-	824,780
13	Other gas utilities .....	-	2,376,494	22,239,251
19	Total gross receipts (9 + 11 + 12 + 13) ...	15,228	4,752,988	44,182,359
	<u>Disposition</u>			
	Sales:			
20	Residential .....	6,709	887,138	9,246,354
21	Industrial .....	-	1,101,389	7,061,377
22	Commercial .....	1,600	227,431	3,010,657
30	Total sales (20 + 21 + 22) .....	8,309	2,215,958	19,318,388
31	Exports .....	-	-	156,927
32	Other deliveries .....	-	-	855
33	Total net deliveries (30 + 31 + 32) .....	8,309	2,215,958	19,476,170
34	Delivered to storage .....	-	-	264,664
35	Line pack fluctuation .....	-	450	154,691
36	Gas used in system .....	-	57,451	666,574
37	Line losses and unaccounted for .....	6,919	102,635	- 1,820,274
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	15,228	2,376,494	18,741,825
	Transfers to:			
40	Other provinces .....	-	-	2,376,494
41	Distribution by transport (primary) .....	-	2,376,494	16,796,389
42	Other gas utilities .....	-	-	6,267,671
49	Total disposition (39 + 40 + 41 + 42) .....	15,228	4,752,988	44,182,359

† Revised figures.

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

March 1963

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	March <sup>F</sup> 1962	No.
					Canada	
			Mcf.			
-	-	4,897,714	287,721	5,185,435	) 50,556,681	1a
-	-	40,208,058	10,133,634	50,341,692		)
-	393,107	12,147,953	7,035	14,239,942	) 22,301,593	2a
-	2,527,762	5,032,197	54,206	7,614,165		)
-	2,920,869	62,285,922	10,482,596	77,381,234		3
-	-	8,233	-	987,966	10,411	4
1,002	-	-	-	1,002	4,078	5
1,002	2,920,869	62,294,155	10,482,596	78,370,202	72,872,763	6
-	-	17,873	-	2,646,935	2,943,692	7
1,002	2,920,869	62,312,028	10,482,596	81,017,137	75,816,455	9
26,253,201	26,252,134	-	17,630,365	...	...	11
-	533,822	2,265,844	-	3,624,455	) 34,231,521	12
2,443,027	1,876,472	3,008,615	3,786,524	35,730,383		)
26,697,230	31,583,297	67,586,487	31,899,485	120,371,975	110,047,976	19
1,405,991	2,036,704	4,470,911	1,564,388	19,618,195	19,783,830	20
505,068	1,629,034	7,570,038	1,579,803	19,446,709	17,903,287	21
921,001	941,180	3,228,580 <sup>F</sup>	514,135	8,844,584	8,943,492	22
2,832,060	4,606,918	15,269,529	3,658,326	47,909,488	46,630,609	30
5,630,055	-	2,716,589 <sup>F</sup>	24,016,528 <sup>F</sup>	32,520,099	28,910,350	31
-	-	67,695	-	68,550	71,358	32
8,462,115	4,606,918	18,053,813	27,674,854	80,498,137	75,612,317	33
-	331,227	85,080	-	680,971	1,053,840	34
36,002	21,682	55,309	- 13,868	254,266	247,349	35
289,995	617,972	60,320	229,736	1,922,048	1,665,743	36
- 366,814	- 657,997	175,007	222,239	- 2,338,285	- 2,726,875	37
8,421,298	4,919,802	18,429,529	28,112,961	81,017,137	75,852,374	39
15,832,905	24,253,201	43,882,499	-	...	...	40
2,443,027	1,876,472	274,825	3,655,104	27,422,291	23,451,192	41
-	533,822	4,999,634	131,420	11,932,547	10,744,410	42
26,697,230	31,583,297	67,586,487	31,899,485	120,371,975	110,047,976	49

TABLE 7. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields .....	6,490,502	5,665,269	5,185,435		
1b	Processing plants .....	53,448,663	45,922,308	50,341,692		
2	By distribution systems:					
2a	Fields .....	20,099,614	15,790,009	14,239,942		
2b	Processing plants .....	6,544,092	6,772,147	7,614,165		
3	Total (1 + 2) .....	86,582,871	74,149,733	77,381,234		
4	Imports .....	213,784	166,149	987,966		
5	Other receipts .....	82,482	40,522	1,002		
6	Total net receipts (3 + 4 + 5) .....	86,879,137	74,356,404	78,370,202		
7	Received from storage .....	8,536,394	5,486,862	2,646,935		
9	Total supply of gas utilities (6 + 7) .....	95,415,531	79,843,266	81,017,137		
	Transfers from:					
11	Other provinces .....	...	...	...		
12	Distribution to transport (primary) .....	4,275,301	4,737,209	3,624,455		
13	Other gas utilities .....	43,342,270	38,021,384	35,730,383		
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,033,102	122,601,859	120,371,975		
	<u>Disposition</u>					
	Sales:					
20	Residential .....	24,487,687	24,217,941	19,618,195		
21	Industrial .....	18,626,804	17,246,726	19,446,709		
22	Commercial .....	10,897,541	10,826,176	8,844,584		
30	Total sales (20 + 21 + 22) .....	54,012,032	52,290,843	47,909,488		
31	Exports .....	34,608,544	29,721,885	32,520,099		
32	Other deliveries .....	88,879	65,370	68,550		
33	Total net deliveries (30 + 31 + 32) .....	88,709,455	82,078,098	80,498,137		
34	Delivered to storage .....	607,009	363,974	680,971		
35	Line pack fluctuation .....	168,468	- 110,881	254,266		
36	Gas used in system .....	2,125,732	1,883,954	1,922,048		
37	Line losses and unaccounted for .....	3,804,867	- 4,371,879	- 2,338,285		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	95,415,531	79,843,266	81,017,137		
	Transfers to:					
40	Other provinces .....	...	...	...		
41	Distribution by transport (primary) .....	34,377,018	29,710,223	27,422,291		
42	Other gas utilities .....	13,240,553	13,048,370	11,932,547		
49	Total disposition (39 + 40 + 41 + 42) .....	143,033,102	122,601,859	120,371,975		

\* Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

June	July	August	September	October	November	December	Year to date		No.
							1963 <sup>F</sup>	1962 <sup>F</sup>	
				Mcf.					
							17,341,206 149,712,663	149,822,895	1a 1b
							50,129,565 20,930,404	67,063,501	2a 2b
							238,113,838	216,886,396	3
							1,367,899 124,006	32,665 36,516	4 5
							239,605,743	216,955,577	6
							16,670,191	14,045,458	7
							256,275,934	231,001,035	9
							...	...	11
							12,636,965 117,094,037	108,265,880	12 13
							386,006,936	339,266,915	19
							68,323,823 55,320,239 30,568,301	64,283,656 51,044,870 28,691,635	20 21 22
							154,212,363	144,020,161	30
							96,850,528 222,799	84,025,092 238,423	31 32
							251,285,690	228,283,676	33
							1,651,954 311,853	1,696,748 128,497	34 35
							5,931,734 - 2,905,297	4,848,015 - 3,964,574	36 37
							256,275,934	230,992,362	39
							...	...	40
							91,509,532 38,221,470	73,640,860 34,633,693	41 42
							386,006,936	339,266,915	49



TABLE 3. Receipts and Disposition of Natural Gas by Source

March 1963

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	<u>Receipts</u>							
1	By transport systems:							
1a	Fields .....	-	-	-	4,897,714	287,721	-	5,185,435
1b	Processing plants .....	-	-	-	40,208,058	10,133,634	-	50,341,692
2	By distribution systems:							
2a	Fields .....	15,228	1,676,619	393,107	12,147,953	7,035	-	14,239,942
2b	Processing plants .....	-	-	2,527,762	5,032,197	54,206	-	7,614,165
3	Total (1 + 2) .....	15,228	1,676,619	2,920,869	62,285,922	10,482,596	-	77,381,234
4	Imports .....	-	-	-	-	-	987,966	987,966
5	Other receipts .....	-	-	-	1,002	-	-	1,002
6	Total net receipts (3 + 4 + 5) .....	15,228	1,676,619	2,920,869	62,286,924	10,482,596	987,966	78,370,202
7	Received from storage .....	-	2,629,062	-	17,873	-	-	2,646,935
9	Total supply of gas utilities (6 + 7) .....	15,228	4,305,681	2,920,869	62,304,797	10,482,596	987,966	81,017,137
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	794,898	2,863,428	-	3,658,326
24	Alberta .....	-	-	-	15,261,296	-	8,233	15,269,529
25	Saskatchewan .....	-	-	3,073,252	1,533,666	-	-	4,606,918
26	Manitoba .....	-	-	191,016	2,641,044	-	-	2,832,060
27	Ontario .....	-	4,603,303	-	13,735,352	-	979,733	19,318,388
28	Quebec .....	-	-	-	2,215,958	-	-	2,215,958
29	New Brunswick .....	8,309	-	-	-	-	-	8,309
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	8,309	4,603,303	3,264,268	36,182,214	2,863,428	987,966	47,909,488
31	Exports .....	-	-	-	25,117,194	7,402,905	-	32,520,099
32	Other deliveries .....	-	-	-	68,550	-	-	68,550
33	Total net deliveries (30 + 31 + 32) .....	8,309	4,603,303	3,264,268	61,367,958	10,266,333	987,966	80,498,137
34	Delivered to storage .....	-	-	331,227	349,744	-	-	680,971
35	Line pack fluctuation .....	-	-	26,321	290,771	10,184	-	254,266
36	Gas used in system .....	-	36,786	37,981	1,696,020	151,261	-	1,922,048
37	Line losses and unaccounted for .....	6,919	334,408	686,286	1,399,696	75,186	-	2,338,285
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	15,228	4,305,681	2,920,869	62,304,797	10,482,596	987,966	81,017,137

TABLE 4. Operating Statistics: Natural Gas Utilities

March 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
March 1963:			
Daily average .....	1,933,625	1,545,467	2,618,681
Maximum(1) .....	2,317,964	...	...
Minimum(1) .....	1,702,097	...	...
Exports maximum(1) .....	1,172,444	...	1,172,444
March 1962 <sup>F</sup> :			
Daily average .....	1,689,082	1,504,213	2,473,102
Maximum(1) .....	2,181,114	...	...
Minimum(1) .....	1,425,561	...	...
Year to date 1963:			
Daily average .....	2,092,890	1,713,470	2,810,434
Maximum(1) .....	2,627,885	...	...
Minimum(1) .....	1,702,097	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	50,039,667	..	..
Ton miles (millions) .....	1,141	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	6,314,691	..	..
End of month (Mcf.) .....	6,609,067	..	..
Operating revenues .....	(\$)19,142,416	(\$)33,079,287	(\$)42,106,859(2)

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

<sup>F</sup> Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

March 1963

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	145,287	172,045
Deliveries to ultimate customers .....	174,550	156,968
Line pack fluctuations .....	2,143	- 3,222
Gas used in system .....	- 27,968	-
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 3,438	18,299
Total disposition .....	145,287	172,045
Daily average sendout .....	5,631	5,063
Revenues .....	(\$)116,868	(\$)138,011



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

March 1963

Customs port	Exports <sup>r</sup>	Imports
	Mcf.	
Cornwall, Ontario .....	156,927	-
Ojibway, Ontario .....	-	979,733
Emerson, Manitoba .....	5,630,055	-
Coutts, Alberta .....	422	8,233
Aden, Alberta .....	1,904,561	-
Carway, Alberta .....	811,606	-
Kingsgate, British Columbia .....	14,736,687	-
Huntingdon, British Columbia .....	9,279,841	-
Canada .....	32,520,099	987,966

<sup>r</sup> Revised figures from Catalogue 45-005 "Sales of Manufactured and Natural Gas".