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GAS UTILITIES (Transport and Distribution Systems)

Historical File Copy

APRIL 1963

During April 1963 gas utilities received from field gathering systems and processing plants 67,816,425 Mcf. of natural gas. The transport systems accounted for 4,817,434 Mcf. from fields and 45,448,449 Mcf. from processing plants, while the distribution systems received 11,394,674 Mcf. and 6,155,868 Mcf. respectively; natural gas received from storage was 773,968 Mcf. The total supply of gas utilities totalled 69,715,750 Mcf. and was 12.5 per cent higher than in April 1962. Of the total supply, 40,329,665 Mcf., were sold to ultimate customers in Canada, an increase of 6.0 per cent, while exports amounted to 29,464,060 Mcf., an increase of 14.5 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 22,906,425 Mcf. to distribution systems, an increase of 19.9 per cent over last year. For the twelve-month period ended April 1963 exports totalled 377,902,897 Mcf., while net deliveries amounted to 811,222,087 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 46.5 billion commodity (Mcf.) miles during April 1963 compared with 41.8 billion for the same period a year ago. Ton-miles totalled 1,060 million for April 1963. The daily average deliveries of gas utilities amounted to 2.4 million Mcf./day.

Alberta natural gas utility receipts totalled 55.3 billion cubic feet; of this 24.3 per cent was sold to ultimate customers in Alberta, 22.9 per cent in Ontario, 3.8 per cent in Quebec, 3.5 per cent in Manitoba, 3.3 per cent in Saskatchewan and 1.3 per cent in British Columbia. In Table 3 deliveries of natural gas are considered as terminating and receipts from storage as originating in the province where the storage is located.

Revenue for the natural gas utilities for the month was \$34,731,866 and for manufactured and liquefied petroleum gases systems \$222,302, giving a combined Gas Utilities total of \$34,954,168.

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 residential, commercial and industrial sales although the reported sales volumes are believed to be within 1 to 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 adjustments.

Industry Division



ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa, 1963

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

April 1963

		New Brunswick	Quebec	Ontario	
0,			Mcf.		
	Receipts	11			
	By transport systems:				
ab	Fields Processing plants				
	By distribution systems:				
a	Fields Processing plants	10,058	-	973,78	
	Total (1 + 2)	10,058		973,78	
	Imports Other receipts	1	-	1,118,66	
	Total net receipts (3 + 4 + 5)	10,058	-	2,092,44	
	Received from storage		-	688,84	
	Total supply of gas utilities (6 + 7)	10,058		2,781,29	
	Transfers from:				
	Other provinces Distribution to transport (primary)	-	2,259,461	15,005, 0 507,1	
	Other gas utilities	-	2,259,461	18,746,1	
	Total gross receipts (9 + 11 + 12 + 13)	10,058	4,518,922	37,039,6	
ľ					
	Disposition				
	Sales:		45- III - 191		
	Residential	5,598	549,224	6,128,5	
	Industrial Commercial	1,800	1,403,487 174,332	7,365,90	
	Total sales (20 + 21 + 22)	7,398	2,127,043	15,458,0	
	Exports		-	130,0	
	Total net deliveries (30 + 31 + 32)	7,398	2,127,043	15,588,50	
	Delivered to storage	-	-	903, 5	
	Line pack fluctuation	-	- 3,250 46,156	- 101,44	
	Gas used in system Line losses and unaccounted for	2,660	89,512	- 1,388,59	
	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	10,058	2,259,461	15, <mark>526,8</mark> 8	
	Transfers to:				
	Other provinces	-	-	2,259,40	
	Distribution by transport (primary) Other gas utilities	-	2,259,461	13,535,29 5,717,91	
	Total disposition (39 + 40 + 41 + 42)	10,058	4,518,922	37,039,60	

r Revised figures.

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

April 1963

Manitoba	Saskatchewan	Albertar	Alberta ^r British		Apri1 ^r 1962	
			Columbia		Canada	N
	1	Mei	E. (
_	-	4,656,291	161,143	4,817,434		
-	-	36,246,127	9,202,322	45,448,449)	43,786,955	
-	178,977	10,226,646	5,206	11,394,674)	16 -16 -670	
-	2,010,780	4,108,288	36,800	6,155,868)	16,915,252	
-	2,189,757	55,237,352	9,405,471	67,816,425	60,702,207	
-		6,254	-	1,124,916	909,453	
441			-	441	330	
441	2,189,757	55,243,606	9,405,471	68,941,782	61,611,990	
-	71,423	13,696	-	773,968	360,268	
441	2,261,180	55,257,302	9,405,471	69,715,750	61,972,258	
21,670,800	23,729,812 449,836	2,031,879	16,255,160	2,988,816	* * *	1
1,822,140	2,052,490	2,706,956	3,082,047	30,669,258	29,324,575	1
23,493,381	28,493,318	59,996,137	28,742,678	103,373,824	91,296,833	1
884,483	1,469,271	3,668,126	1,203,525	13,908,773	13,642,351	2
659,763 607,008	1,891,990 667,448	7,053,351 2,730,349	1,515,693 386,135	19,890,248 6,530,644	18,102,553 6,291,451	2
2,151,254	4,028,709	13,451,826	3,105,353	40,329,665	38,036,355	3
4,619,749	-	2,451,364 58,859	22,262,860	29,464,060 59,194	25,728,288 12,919	3
6,771,003	4,028,709	15,962,049	25,368,213	69,852,919	63,777,562	3
-	461,354	183,861	-	1,548,765	1,690,300	3
- 22,077	- 16,915	- 60,994	16,244	- 188,432	- 288,027	3
236,799 - 319,527	512,452 - 665,408	48,253 - 860,839	203,864 72,310	1,572,385 - 3,069,887	1,292,061 - 4,557,122	3
6,666,198	4,320,192	15,272,330	25,660,631	69,715,750	61,914,774	3
15 005 0/2	21 670 800	20.084.072				1
15,005,043 1,822,140	21,670,800 2,052,490	39,984,972 210,497	3,026,545	22,906,425	19,112,539	4
-	449,836	4,528,338	55,502	10,751,649	10,269,520	4
				103,373,824		4

		January	February	March	April	May
io.						
			1	Mcf.	1	
	Receipts					
					_	
1	By transport systems:					
la 1b	Pields Processing plants	6,490,502 53,448,663	5,665,269 45,922,308	5,185,435 50,341,692	4,817,434 45,448,449	
2	By distribution systems:					
2а 2Ъ	Fields Processing plants	20,099,614 6,544,092	15,790,009 6,772,147	14,239,942 7,614,165	11,394,674 6,155,868	
3	Total (1 + 2)	86,582,871	74,149,733	77,381,234	67,816,425	
\$	Imports Other receipts	213,784 82,482	166,149 40,522	987,966 1,002	1,124,916 441	
6	Total net receipts (3 + 4 + 5)	86,879,137	74,356,404	78,370,202	68,941,782	
7	Received from storage	8,536,394	5,486,862	2,646,935	773,968	
,	Total supply of gas utilities (6 + 7)	95,415,531	79,843,266	81,017,137	69,715,750	
	Transfers from:					
2	Other provinces Distribution to transport (primary) Other gas utilities	4,275,301 43,342,270	4,737, 209 38,021,384	3,624,455 35,730,383	2,988,816 30,669,258	
	Total gross receipts (9 + 11 + 12 + 13)	143,033,102	122,601,859	120,371,975	103,373,824	
	Disposition					
	Sales:					
0	Residential Industrial Commercial	24,487,687 18,626,804 10,897,541	24,217,941 17,246,726 10,826,176	19,618,195 19,446,709 8,844,584	13,908,773 19,890,248 6,530,644	
,	Total sales (20 + 21 + 22)	54,012,032	52,290,843	47,909,488	40,329,665	
2	Exports Other deliveries	34,608,544 88,879	29,721,885 65,370	32,520,099 68,550	29,464,060 59,194	
3	Total net deliveries (30 + 31 + 32)	88,709,455	82,078,098	80,498,137	69,852,919	
4 5 6 7	Delivered to storage Line pack fluctuation Gas used in system Line losses and unaccounted for	607,009 168,468 2,125,732 3,804,867	363,974 - 110,881 1,883,954 - 4,371,879	680,971 254,266 1,922,048 - 2,338,285	1,548,765 - 188,432 1,572,385 - 3,069,887	
9	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266	81,017,137	69,715,750	
	Transfers to:					
0	Other provinces Distribution by transport (primary) Other gas utilities	34,377,018 13,240,553	29,710,223 13,048,370	27,422,291 11,932,547	22,906,425 10,751,649	
.9	Total disposition $(39 + 40 + 41 + 42)$	143,033,102	122,601,859	120,371,975	103,373,824	

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

June	July	August	September	October	November	December	Year to	o date	
							1963 ^r	1962 ^r	N
		1	1	Mcf.	1	1	1	1	
					r 1				
							22,158,640		
							195,161,112)193,609,850	
							61,524,239		
							27,086,272	83,978,753	
							305,930,263	277,588,603	
							2,492,815	942,118	
							124,447	36,846	
							308,547,525	278,567,567	
							17,444,159	14,405,726	
							325,991,684	292,973,293	
							15,625,781 147,763,295	137,590,455	
							489,380,760	430,563,748	
							82,232,596	77,926,007	
							75,210,487 37,098,945	69,147,423 34,983,086	
							194,542,028	182,056,516	
							126, 314, 588	109,753,380	
							281,993	251,342	
							321,138,609	292,061,238	
							3,200,719	3,387,048	
							123,421 7,504,119	- 159,530 6,140,076	
							- 5,975,184	- 8,521,696	
							325,991,684	292,907,136	
							114,415,957	92,753,399	
	1						48,973,119	44,903,213	1

489,380,760

430,563,748

49

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

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TABLE 3. Receipts and Disposition of Natural Gas by Source

April 1963

		New				British	Imports	
		Brunswick	Ontario	Saskatchewan	Alberta	Columbia	from U.S.A.	Total
No.					Mcf.		1	
	Receipts							
1	By transport systems:							
la 1b	Fields Processing plants		-	-	4,656,291 36,246,127	161,143 9,202,322		4,817,43
2	By distribution systems:			-				
2a 2b	Fields Processing plants	10,058	973,787	178,977 2,010,780	10,226,646 4,108,288	5,206 36,800		11,394,674
3	Total (1 + 2)	10,058	973,787	2,189,757	55,237,352	9,405,471	••••	67,816,42
4 5	Imports Other receipts				441	U 4 U 64	1,124,916	1,124,910
6	Total net receipts (3 + 4 + 5)	10,058	973,787	2,189,757	55,237,793	9,405,471	1,124,916	68,941,78
7	Received from storage	-	688,849	71,423	13,696	-		773,96
9	Total supply of gas utilities (6 + 7)	10,058	1,662,636	2,261,180	55,251,489	9,405,471	1,124,916	69.715.75
					1. 10			
	Disposition							
	Sales:							
3	British Columbia	-	-	-	726,405	2,378,948	- 0r/	3,105,35
4 5	Alberta	-	-	2,231,185	13,445,572 1,797,524	-	6,254	13,451,82
5	Manitoba	-	-	194,870	1,956,384	-	-	2,151,25
7	Ontario	-	1,709,160		12,630,260 2,127,043	-	1,118,662	15,458,08
	New Brunswick	7,398	-	-	-	-	-	7,39
	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	7,398	1,709,160	2,426,055	32,683,188	2,378,948	1,124,916	40,329,66
1	Exports	-	-	-	22,661,343	6,802,717		29,464,06
2	Other deliveries	-	-	-	59,194	-	•••	59,19
	Total net deliveries (30 + 31 + 32)	7,398	1,709,160	2,426,055	55,403,725	9,181,665	1,124,916	69,852,91
	Delivered to storage	-	-	461,354	1,087,411	-	-	1,548,76
	Line pack fluctuation Gas used in system	-	21,363	12,521 38,852	- 216,314 1,382,236	15,361 129,934	-	- 188,43 1,572,38
7	Line losses and unaccounted for	2,660	- 67,887	- 677,602	- 2,405,569	78,511	-	- 3,069,88
9	Total demand on gas							
1	utilities (33 + 34 + 35							

TABLE 4. Operating Statistics: Natural Gas Utilities

April 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
April 1963:			
Daily average	1,745,683	1,344,322	2,380,056
Maximum(1)	2,118,938		
Minimum(1)	1,558,838		
Exports maximum(1)	1,035,935		1,035,935
April 1962:r			
Daily average	1,494,694	1,267,879	2,182,262
Maximum(1)	1,931,729		
Minimum(1)	1,329,889		* * *
Year to date 1963:		-	
Daily average	2,006,088	1,621,184	2,702,828
Maximum(1)	2,627,885		
Minimum(1)	1,558,838	* * *	e
Commodity miles:			
Mcf. miles (thousands)	46,511,704		• #
Ton-miles (millions)	1,060	0.0	
Line pack:			
Beginning of month (Mcf.)	6,609,067		
End of month (Mcf.)	6,411,441	• •	• •
Operating revenues	(\$)17,234,333	(\$)26,072,692	(\$)34,731,866(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 1963

	Manufactured	Liquefied petroleum gases
	Mc	f.
Gas receipts	125,232	138,473
Deliveries to ultimate customers	162,315	127,563
Line pack fluctuations	- 1,588	- 4,864
Gas used in system	- 28,173	-
ments and unaccounted for	- 7,322	15,774
Total disposition	125,232	138,473
Dafly average sendout	5,411	4,252
Revenues	(\$)107,358	(\$)114,944



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

Ar	or	1	1	1	9	63	

Customs port	Exportsr	Imports
	Mcf.	
Cornwall, Ontario	130,087	
Ojibway, Ontario	-	1,118,662
Emerson, Manitoba	4,619,749	
Coutts, Alberta	389	6,254
Aden, Alberta	1,725,717	
Carway, Alberta	725,258	-
Kingsgate, British Columbia	13,740,238	
Huntingdon, British Columbia	8,522,622	State in s
Canada	29,464,060	1,124,916

r Figures revised since publication in "Sales of Manufactured and Natural Gas", Catalogue No. 45-005