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GAS UTILITIES (Transport and Distribution Systems)

FEBRUARY 1963

In February 1963 the gas utilities received from field gathering systems and processing plants 74,149,733 Mcf. of natural gas. The transport systems accounted for 5,665,269 Mcf. from fields and 45,922,308 Mcf. from processing plants, while the distribution systems received 15,790,009 Mcf and 6,772,147 Mcf. respectively; natural gas received from storage was 5,486,862 Mcf. The total supply of gas utilities, 79,843,266 Mcf. was 7.6 per cent higher than in February 1962. Of the total supply, 52,290,843 Mcf. were sold to ultimate customers in Canada, an increase of 11.5 per cent, while exports amounted to 29,721,885 Mcf., an increase of 9.2 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 29,710,223 Mcf. to distribution systems, an increase of 26.0 per cent over last year. For the twelve-month period ended February 1963 exports totalled 370,557,376 Mcf., while net deliveries amounted to 800,260,910 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of untural gas had traffic amounting to 46.3 billion commodity (Mcf.) miles during February compared with 39.7 billion for the same period last year. Ton miles totalled 1,055 million for February 1963. The daily average deliveries of gas utilities amounted to 2.9 million Mcf./day.

Utility receipts of Alberta natural gas totalled 59.5 billion cubic feet; of this, 29.5 per cent was sold to ultimate customers in Alberta, 20.1 per cent in Ontario, 4.6 per cent in Manitoba, 3.4 per cent in Saskatchewan, 1.4 per cent in British Columbia and 3.4 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 \$45,558,678 and for manufactured and liquefied petroleum gases systems \$231,543 giving a combined Gas Utilities total of \$45,790,221.

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 1-2 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". DO MINION BUREAU

r Revised figures.

November 1963 8506-503

Industry Division

OF STATISTICS NOV 12 1963 ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa, 1963 LI BRARY

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TABLE 1. Receipts and Disposition of Natural Cas Ocilities by Province
February 1963

***		New Brunswick Quebec		Ontario
No.			Mcf.	
	Receipts	artile .		
1	By transport systems:			
la lb	Fields Processing plants	-	-	
2	By distribution systems:		1 4	
2a 2b	Fields Processing plants	13,897		2,839,037
3	Total (1 + 2)	13,897		2,839,037
4 5	Imports	H 709 II-	-:	157,694
6	Total net receipts (3 + 4 + 5)	13,897	49	2,996,731
7	Received from storage			5,300,619
9	Total supply of gas utilities (6 + 7)	13,897	-	8,297,350
	Transfers from:	511		
11	Other provinces Distribution to transport (primary)	-	2,175,841	14,340,550 1,936,214
13	Other gas utilities		2,175,841	24, 195, 334
19	Total gross receipts (9 + 11 + 12 + 13)	13,897	4,351,682	48,769,448
			. 711	
	Disposition		- AM	
	Sales:			
20	Regidential Industrial	7,047	1,044,500 752,398	10,897,014 6,100,399
22	Commercial	1,800	256,523	3,448,310
10	Total sales (20 + 21 + 22)	8,847	2,053,421	20,445,723
31	Exports Other deliveries	-	-	129,997 1,346
3	Total net deliveries (30 + 31 + 32)	8,847	2,053,421	20,577,066
4	Delivered to storage	-	-	289,663
6	Line pack fluctuation	-	550 39,632	- 74,083 667,042
7	Line losses and unaccounted for	5,050	82,238	- 997,629
9	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	13,897	2,175,841	20,462,059
	Transfers to:			
0	Other provinces	40	-	2,175,841
2	Distribution by transport (primary) Other gas utilities	9	2,175,841	18,781,059 7,350,489

Manitoba	Saskatchewan	Saskatchewan Alberta ^T British Columbia		Canada	February ^r 1962	
Manteoba	Baskacontaan				Canada	No.
		Mc	Ē.			
-	-	5,420,242	245,027	5,665,269	48,073,283	
-	-	37,192,641	8,729,667	45,922,308)	
-	507,436 2,344,458	12,422,537 4,370,400	7,102 57,289	15,790,009 6,772,147	21,140,018	
	2,851,894	59,405,820	9,039,085	74,149,733	69,213,301	
	.,,	8,455		166,149	10,122	
40,522	-		-	40,522	4,105	
40,522	2,851,894	59,414,275	9,039,085	74,356,404	69,227,528	
-	109,117	77,126		5,486,862	4,957,597	
40,522	2,961,011	59,491,401	9,039,085	79,843,266	74,185,125	
						+
			16.000.000			
23,155,315	25,326,564 677,135	2,123,860	16,205,073	4,737,209) 34,351,159	
2,825,819	2,274,461	3,117,639	3,432,290	38,021,384)]
26,021,656	31,239,171	64,732,900	28,676,448	122,601,859	108,536,284	1
					1	
1,719,548	2,649,755 1,712,483	6,373,427 6,921,397	1,526,650 1,374,638	24,217,941 17,246,726	21,549,239 15,777,701	
1,065,898	1,227,220	4,267,857	558,568	10,826,176	9,568,923	2
3,170,857	5,589,458	17,562,681	3,459,856	52,290,843	46,895,863	1
5,703,153	-	2,500,181	21,388,554	29,721,885 65,370	27,219,437 34,229	3
		64,024	2/ 0/8 /10		74,149,529	
8,874,010	5,589,458	20,126,886	24,848,410	82,078,098		
- 17,090	49,329	24,982 - 32,016	49,757	363,974 - 110,881	540,946 - 176,656	
289,298 - 290,931	623,107 - 1,091,635	58,206	206,669	1,883,954 - 4,371,879	1,547,695 - 1,876,082	
				==-1		
8,855,287	5,132,260	17,959,764	25,244,158	79,843,266	74,185,432	1
14,340,550	23,155,315	41,531,637	40	4 7 7	n • n	
2,825,819	2,274,461	342,691	3,310,352 121,938	29,710,223 13,048,370	23,585,802 10,765,050	1
	677,135	4,898,808			108,536,284	
26,021,656	31,239,171	64,732,900	28, 676, 448	122,601,859	100, 330, 204	4

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

		January	February	March	April	May
				Mcf.		
		4		Mcr.		
	Receipts					
	By transport systems:					
a	Fields Processing plants	6,490,502 53,448,663	5,665,269 45,922,308			
	By distribution systems:					
a b	Fields Processing plants	20,099,614 6,544,092	15,790,009 6,772,147			
	Total (1 + 2),	86,582,871	74,149,733			
	Imports	213,784 82,482	166,149 40,522			
	Total net receipts (3 + 4 + 5)	86,879,137	74,356,404			
	Received from storage	8,536,394	5,486,862			
	Total supply of gas utilities (6 + 7)	95,415,531	79,843,266			
	Transfers from:			-		
	Other provinces	4,275,301 43,342,270	4,737,209 38,021,384			
	Total gross receipts (9 + 11 + 12 + 13)	143,033,102	122,601,859			
	Disposition					
	Sales:					
	Residential Industrial Commercial	24,487,687 18,626,804 10,897,541	24,217,941 17,246,726 10,826,176			
	Total sales (20 + 21 + 22)	54,012,032	52,290,843			
	Exports Other deliveries	34,608,544 88,879	29,721,885 65,370			
	Total net deliveries (30 + 31 + 32)	88,709,455	82,078,098			
	Delivered to storage	607,009 168,468 2,125,732 3,804,867	363,974 - 110,881 1,883,954 - 4,371,879			
	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266			
	Transfers to:					
	Other provinces	34, 377, 018 13,240,553	29,710,223 13,048,370			
		143,033,102	122,601,859			

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

June	July	August	august September Oc	October	October November	December	Year to date		
June		August		October		December	1963	1962 ^r	No
	1	1		Mcf.		1	1	1	Ť
							12,155,771	99,266,214	
							99,370,971)	
							35,889,623 13,316,239	44,761,908	
							160,732,604	144,028,122	
							379,933	22,254	
		4					123,004	32,438	
							161,235,541	144,082,814	
							14,023,256	11,101,766	
							175, 258, 797	155,184,580	
							9,012,510 81,363,654	74,034,359	
								2	
							265,634,961	229,218,939	
						}			
							48,705,628 35,873,530	44,499,826 33,141,583	ĺ
							21,723,717	19,748,143	
							106,302,875	97,389,552	
							64, 330, 429 154, 249	55, 114, 742	1
								167,065	
							170,787,553	152,671,359	
							970,983 57,587	642,908 - 118,852	
							4,009,686 - 567,012	3,182,272 - 1,237,699	
							175,258,797	155,139,988	
	-						64,087,241 26,288,923	50,189,668 23,889,283	
							265,634,961	229,218,939	

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	Receipts							
							7.	
1	By transport systems:							
1a	Fields	-	**	-	5,420,242	245,027		5,665,269
1b	Processing plants		•	40	37,192,641	8,729,667	-	45,922,308
2	By distribution systems:							
2a	Fields	13,897	2,839,037	507,436	12,422,537	7,102		15,790,009
2ь	Processing plants		-	2,344,458	4,370,400	57,289	-	6,772,147
3	Total (1 + 2)	13,897	2,839,037	2,851,894	59,405,820	9,039,085	-	74,149,733
4	Imports				_		166,149	166,149
5	Other receipts		-	-	40,522	-	-	40,522
6	Total net receipts							
	(3 + 4 + 5)	13,897	2,839,037	2,851,894	59,446,342	9,039,085	166, 149	74,356,404
7	Received from storage	-	5,300,619	109,117	77,126	-	-	5,486,862
9	Total supply of gas utilities (6 + 7)	13,897	8,139,656	2,961,011	59,523,468	9,039,085	166,149	79,84 3,266
	Disposition						1	
	Sales:							
3	British Columbia				050 672	2 600 104		2 /50 056
4	Alberta	- [_	-	859,672 17,554,226	2,600,184	8,455	3,459,856 17,562,681
5	Saskatchewan	-		3,558,771	2,030,687	-	-	5,589,458
7	Ontario	-	8,350,916	433,361	2,737,496	_	157,694	3,170,857
8	Quebec	-	-		2,053,421	-	157,074	2,053,421
9	New Brunswick	8,847	-	-	-	44	-	8,847
0	Total sales (23 + 24 +							
	25 + 26 + 27 + 28 + 29)	8,847	8,350,916	3,992,132	37,172,615	2,600,184	166,149	52,290,843
ı	Exports				22 /50 2/0	(07) (07		00 301 005
2	Other deliveries	-		-	23,450,248	6,271,637	-	29,721,885
3	Total net deliveries							
V.	(30 + 31 + 32)	8,847	8,350,916	3,992,132	60,688,233	8,871,821	166, 149	82,078,098
	Delivered to storage			49,329	314,645			262 07/
5	Line pack fluctuation	-		- 15,213	- 131,636	35,968		363,974 - 110,881
6	Gas used in system	-	48,943	44,511	1,652,107	138,393		1,883,954
	Line losses and unaccounted for	5,050	- 260,203	- 1,109,748	- 2,999,881	- 7,097		- 4,371,879
	Total demand on gas	3,030	220,203	2,207,740	-, ///, 001	7,077		4,3/1,0/2
9	avena vemento dii kab							
9	utilities (33 + 34 + 35 + 36 + 37)							

TABLE 4. Operating Statistics: Natural Gas Utilities February 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
February 1963:			
Daily average	2,122,575	1,867,530	2,944,360
Maximum(1)	2,487,531	* * *	
Minimum(1)	1,915,081		* * *
Exports maximum(1)	1,140,696		1,140,696
February 1962 ^r :			
Daily average	1,814,472	1,674,852	2,667,517
Maximum(1)	2,226,408		• • •
Minimum(1)	1,679,528		* * *
Year to date 1963:			
Daily average	2,176,570	1,801,743	2,911,186
Maximum(1)	2,627,885		***
Minimum(1)	1,915,081		
Commodity miles:			
Mcf. miles (thousands)	46,260,341		* *
Ton miles (millions)	1,055	0.0	• •
Line pack:	7000		
Beginning of month (Mcf.)	6,418,040		• •
End of month (Mcf.)	6,314,691	• •	• •
Operating revenues	(\$)18,520,540	(\$)36,604,253	(\$)45,558,678(2)

⁽¹⁾ Non-coincident.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

February 1963

	Manufactured	Liquefied petroleum gases		
	Mcf.			
Gas receipts	137,091	159,699		
Deliveries to ultimate customers	167,380	137,439		
Line pack fluctuations	113	5,984		
Gas used in system	- 32,901			
Metering difference, line losses, cyclical billing adjustments and unaccounted for	2,499	16,276		
Total disposition	137,091	159,699		
Daily average sendout	5,978	4,909		
Revenues	(\$)115,299	(\$)116,244		

⁽²⁾ Interindustry revenues eliminated.

^{..} Figures not available.

^{...} Figures not appropriate or not applicable. r Revised figures.



TABLE 6. Exports and Imports to and from the United States
February 1963

Customs port	Exportsr	Imports		
	Mcf.			
Cornwall, Ontario	129,997			
Ojibway, Ontario		157,694		
Emerson, Manitoba	5,703,153	E CHANGE FOR		
Coutts, Alberta	296	8,455		
den, Alberta	1,712,237			
arway, Alberta	787,648			
Kingsgate, British Columbia	13,047,847			
untingdon, British Columbia	8,340,707	AT LITT		
Canada	29,721,885	166,149		

Revised figures from Catalogue 45-005 "Sales of Manufactured and Natural Gas".