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Gas Utilities
 and Distribution Systems)

MARCH 1967

During March, field gathering systems and processing plants delivered to gas utilities 114,672,317 Mcf. of natural gas. The transport systems accounted for 86,663,679 Mcf. and the distribution systems 28,008,638 Mcf. Natural gas imported from the U.S.A. was 4,959,518 Mcf. and the volume recovered from storage was 7,013,740 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% increase over March 1966	% of total supply	Revenue \$'000	% of total revenue
Ultimate	77,179	60.9	16.1	54,051	83.9
Exports	44,865	35.4	18.0	10,361	16.1
Other uses and adjustments	4,602	3.7	...	...	...
Totals	126,646	100.0	18.9	64,412	100.0

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 77.8 billion commodity (Mcf.) miles (1,773 million ton miles) during March compared with 67.5 billion (Mcf.) miles (1,539 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.0 million Mcf.

Alberta natural gas utilities receipts totalled 90.5 billion cubic feet; of this 23.0 per cent was sold to ultimate customers in Alberta, 20.4 per cent in Ontario, 3.6 per cent in Quebec, 4.0 per cent in Saskatchewan, 1.4 per cent in British Columbia and 5.9 per cent in Manitoba. Exports accounted for 37.5 per cent and the remaining 4.2 per cent was other deliveries, deliveries to storage, line pack changes, gas used in systems and line losses and unaccounted for.

In Table 3 "gas received from storage" is considered as having originated in the province where the storage is located and "gas delivered to storage" as a terminal delivery by the originating province.

There was an overall increase in distributor sales and revenues during March compared to the same month for the previous year. Details are contained in the following table.

Sales category	Sales '000 Mcf.	% of total sales	% increase over March 1966	Revenue \$'000	% of sales revenue	Number of customers
Residential	28,870	37.4	16.3	28,935	53.6	1,488
Industrial	31,285	40.5	11.3	12,841	23.7	11
Commercial	17,024	22.1	25.6	12,275	22.7	141
Totals	77,179	100.0	16.1	54,051	100.0	1,640

All gas volumes in Tables I-7 and Table II are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60°F; that is, without adjustments to a common B.T.U. base. Gas sales, exports and imports containing 1,000 B.T.U.'s per cubic foot are given separately in Tables 8-10.

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 No. 26-006 gives a comprehensive review of the Supply and Disposition for Natural Gas.

Manufacturing and Primary Industries Division

November 1967
 6503-509

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

March 1967

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	12,590	2,614	1,831,370
2b	Processing plants	-	-	-
3	Total (1 + 2)	12,590	2,614	1,831,370
4	Imports	-	-	4,945,458
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	12,590	2,614	6,776,828
7	Received from storage	-	-	6,261,797
9	Total supply of gas utilities (6 + 7)	12,590	2,614	13,038,625
	Transfers from:			
11	Other provinces	-	3,432,019	23,569,812
12	Distribution to transport (primary)	-	-	1,397,012
13	Other gas utilities	-	3,202,037	30,832,700
19	Total gross receipts (9 + 11 + 12 + 13) ...	12,590	6,636,670	68,838,149
	<u>Disposition</u>			
	Sales:			
20	Residential	4,596	1,471,438	13,049,770
21	Industrial	-	1,255,949	12,004,149
22	Commercial	2,512	560,642	6,548,249
30	Total sales (20 + 21 + 22)	7,108	3,288,029	31,602,168
31	Exports	-	65,642	412,923
32	Other deliveries	-	-	1,924
33	Total net deliveries (30 + 31 + 32)	7,108	3,353,671	32,017,015
34	Delivered to storage	-	-	672,044
35	Line pack fluctuation	-	- 104	6,038
36	Gas used in system	143	18,639	2,096,330
37	Line losses and unaccounted for	5,339	62,427	- 1,615,009
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,590	3,434,633	33,176,418
	Transfers to:			
40	Other provinces	-	-	3,432,019
41	Distribution by transport (primary)	-	3,202,037	22,368,234
42	Other gas utilities	-	-	9,861,478
49	Total disposition (39 + 40 + 41 + 42)	12,590	6,636,670	68,838,149

(1) Includes peak shaving and enrichment.

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

March 1967

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	March 1966		No.
					Canada		
			Mcf.				
-	-	7,720,409	529,886	8,250,295	8,796,207	1a	
-	-	60,187,028	18,226,356	78,413,384	69,172,869	1b	
-	1,715,784	10,397,786	-	13,960,144	11,156,653	2a	
-	2,027,013	11,916,662	104,819	14,048,494	11,315,242	2b	
-	3,742,797	90,221,885	18,861,061	114,672,317	100,440,971	3	
-	-	14,060	-	4,959,518	3,041,015	4	
903	-	-	-	903	1,001	5	
903	3,742,797	90,235,945	18,861,061	119,632,738	103,482,987	6	
-	449,690	302,253	-	7,013,740	3,027,128	7	
903	4,192,487	90,538,198	18,861,061	126,646,478	106,510,115	9	
35,767,969	40,253,525	-	24,850,599	...	...	11
-	3,164,821	1,582,812	-	6,144,645	614,077	12	
4,824,011	3,163,271	5,681,923	8,205,113	55,909,055	51,555,605	13	
40,592,883	50,774,104	97,802,933	51,916,773	188,700,178	158,679,797	19	
2,512,649	2,839,450	6,223,985	2,768,160	28,870,048	24,823,276	20	
1,105,148	3,532,054	9,453,238	3,934,640	31,285,178	28,100,115	21	
1,764,453	1,569,337	5,160,928	1,418,127	17,024,248	13,556,267	22	
5,382,250	7,940,841	20,838,151	8,120,927	77,179,474	66,479,658	30	
6,876,383	-	3,064,664	34,445,517	44,865,129	38,020,917	31	
-	-	90,155	-	92,079	265,730	32	
12,258,633	7,940,841	23,992,970	42,566,444	122,136,682	104,766,305	33	
-	267,056	268,030	-	1,207,130	- 197,114	34	
7,863	- 5,592	67,304	61,112	136,621	61,210	35	
501,447	1,005,449	405,695	1,155,978	5,183,681	4,441,104	36	
- 568,883	- 529,711	700,076	- 71,874	- 2,017,636	- 2,561,390	37	
12,199,060	8,678,043	25,434,075	43,711,660	126,646,478	106,510,115	39	
23,569,812	35,767,969	65,104,124	-	...	...	40
-	3,163,271	1,369,900	8,188,091	38,291,533	39,030,411	41	
4,824,011	3,164,821	5,894,834	17,022	23,762,167	13,139,271	42	
40,592,883	50,774,104	97,802,933	51,916,773	188,700,178	158,679,797	49	

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1967

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	8,465,265	7,589,123	8,250,295		
1b	Processing plants	78,771,451	70,197,341	78,413,384		
2	By distribution systems:					
2a	Fields	14,352,214	13,056,197	13,960,144		
2b	Processing plants	14,791,017	12,488,766	14,048,494		
3	Total (1 + 2)	116,379,947	103,331,427	114,672,317		
4	Imports	4,379,773	3,837,708	4,959,518		
5	Other receipts(1)	23,683	13,514	903		
6	Total net receipts (3 + 4 + 5)	120,783,403	107,182,649	119,632,738		
7	Received from storage	9,701,942	12,845,362	7,013,740		
9	Total supply of gas utilities (6 + 7)	130,485,345	120,028,011	126,646,478		
	Transfers from:					
11	Other provinces .....	...	...	...
12	Distribution to transport (primary)	6,345,214	5,127,330	6,144,645		
13	Other gas utilities	56,422,445	53,253,749	55,909,055		
19	Total gross receipts (9 + 11 + 12 + 13) ...	193,253,004	178,409,090	188,700,178		
	<u>Disposition</u>					
	Sales:					
20	Residential	31,158,284	30,687,889	28,870,048		
21	Industrial	29,418,788	27,288,180	31,285,178		
22	Commercial	18,494,795	18,232,554	17,024,248		
30	Total sales (20 + 21 + 22)	79,071,867	76,208,623	77,179,474		
31	Exports	43,700,898	40,121,156	44,865,129		
32	Other deliveries	241,834	94,608	92,079		
33	Total net deliveries (30 + 31 + 32)	123,014,599	116,424,387	122,136,682		
34	Delivered to storage	311,925	675,440	1,207,130		
35	Line pack fluctuation	29,177	- 238,840	136,621		
36	Gas used in system	5,101,044	4,307,636	5,183,681		
37	Line losses and unaccounted for	2,028,600	- 1,140,612	- 2,017,636		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	130,485,345	120,028,011	126,646,478		
	Transfers to:					
40	Other provinces .....	...	...	...
41	Distribution by transport (primary)	42,803,077	38,618,252	38,291,533		
42	Other gas utilities	19,964,582	19,762,827	23,762,167		
49	Total disposition (39 + 40 + 41 + 42)	193,253,004	178,409,090	188,700,178		

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1967

June	July	August	September	October	November	December	Year to date		No.
							1967	1966	
				Mcf.					
							24,304,683	28,458,829	1a
							227,382,176	207,237,944	1b
							41,368,555	36,980,328	2a
							41,328,277	34,996,743	2b
							334,383,691	307,673,844	3
							13,176,999	9,121,788	4
							38,100	2,794	5
							347,598,790	316,798,426	6
							29,561,044	20,551,473	7
							377,159,834	337,349,899	9
							11
							17,617,189	2,521,716	12
							165,585,249	159,834,154	13
							560,362,272	499,705,769	19
							90,716,221	85,850,862	20
							87,992,146	79,914,850	21
							53,751,597	46,052,598	22
							232,459,964	211,818,310	30
							128,687,183	111,426,953	31
							428,521	790,881	32
							361,575,668	324,036,144	33
							2,194,495	2,528,213	34
							- 73,042	95,088	35
							14,592,361	13,849,047	36
							- 1,129,648	- 3,158,593	37
							377,159,834	337,349,899	39
							40
							119,712,862	120,320,561	41
							63,489,576	42,035,309	42
							560,362,272	499,705,769	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

March 1967

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.								
	<u>Receipts</u>									
1	By transport systems:									
1a	Fields	-	-	-	-	7,720,409	529,886	-	8,250,295	
1b	Processing plants	-	-	-	-	60,187,028	18,226,356	-	78,413,384	
2	By distribution systems:									
2a	Fields	12,590	2,614	1,831,370	1,715,784	10,397,786	-	-	13,960,144	
2b	Processing plants	-	-	-	2,027,013	11,916,662	104,819	-	14,048,494	
3	Total (1 + 2)	12,590	2,614	1,831,370	3,742,797	90,221,885	18,861,061	-	114,672,317	
4	Imports	-	-	-	-	-	-	4,959,518	4,959,518	
5	Other receipts(1)	-	-	-	-	903	-	-	903	
6	Total net receipts (3 + 4 + 5)	12,590	2,614	1,831,370	3,742,797	90,222,788	18,861,061	4,959,518	119,632,738	
7	Received from storage	-	-	6,261,797	449,690	302,253	-	-	7,013,740	
9	Total supply of gas utilities (6 + 7)	12,590	2,614	8,093,167	4,192,487	90,525,041	18,861,061	4,959,518	126,646,478	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	1,263,852	6,857,075	-	8,120,927	
24	Alberta	-	-	-	-	20,828,476	-	9,675	20,838,151	
25	Saskatchewan	-	-	-	4,301,777	3,639,064	-	-	7,940,841	
26	Manitoba	-	-	-	1,550	5,380,700	-	-	5,382,250	
27	Ontario	-	-	8,177,243	-	18,479,467	-	4,945,458	31,602,168	
28	Quebec	-	2,614	-	-	3,285,415	-	-	3,288,029	
29	New Brunswick	7,108	-	-	-	-	-	-	7,108	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	7,108	2,614	8,177,243	4,303,327	52,876,974	6,857,075	4,955,133	77,179,474	
31	Exports	-	-	-	-	33,896,909	10,968,220	-	44,865,129	
32	Other deliveries	-	-	-	-	87,704	-	4,375	92,079	
33	Total net deliveries (30 + 31 + 32)	7,108	2,614	8,177,243	4,303,327	86,861,587	17,825,295	4,959,508	122,136,682	
34	Delivered to storage	-	-	-	267,056	940,074	-	-	1,207,130	
35	Line pack fluctuation	-	-	-	39,666	78,807	97,480	-	136,621	
36	Gas used in system	143	-	32,262	176,223	3,998,413	976,640	-	5,183,681	
37	Line losses and unaccounted for	5,339	-	116,338	514,453	1,353,840	38,354	10	2,017,636	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,590	2,614	8,093,167	4,192,487	90,525,041	18,861,061	4,959,518	126,646,478	

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

TABLE 4. Operating Statistics: Natural Gas Utilities
March 1967

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
March 1967:			
Daily average	2,682,472	2,489,660	3,978,833
Maximum(1)	3,012,767	...	...
Minimum(1)	2,714,406	...	...
Exports maximum(1)	1,496,178	...	...
March 1966:			
Daily average	2,485,527	2,144,505	3,421,336
Maximum(1)	2,682,843	...	...
Minimum(1)	2,273,264	...	...
Year to date 1967:			
Daily average	2,760,000	2,582,888	3,628,493
Maximum(1)	3,038,785	...	...
Minimum(1)	2,614,954	...	...
Commodity miles:			
Mcf. miles (thousands)	77,751,972	..	..
Ton-miles (millions)	1,773	..	..
Line pack:			
Beginning of month (Mcf.)	8,205,908	..	..
End of month (Mcf.)	10,400,559	..	..
Operating revenues .....	...	54,051,935	...

(1) Non-coincident.
.. Figures not available.
... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities
Receipts and Disposition
March 1967

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	54,173	144,522
Deliveries to ultimate customers	57,957	131,037
Line pack fluctuations	-	-
Gas used in system	-	1,517
Metering difference, line losses, cyclical billing adjustments and unaccounted for	- 3,784	11,968
Total disposition	54,173	144,522
Daily average sendout	1,748	4,662
Revenues	\$42,949	\$232,979

TABLE 6. Sales of Natural Gas

No.		March 1967			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
	Residential:				
1	New Brunswick	100	1,981	4,596	14,511
2	Quebec	88,153	204,697	1,471,438	2,256,498
3	Ontario	518,389	656,659	13,049,770	15,404,311
4	Manitoba	93,626	96,300	2,512,649	2,148,408
5	Saskatchewan	104,123	107,482	2,839,450	1,910,091
6	Alberta	240,383	243,162	6,223,985	3,116,466
7	British Columbia	154,687	178,005	2,768,160	4,085,070
8	Canada	1,199,461	1,488,286	28,870,048	28,935,355
	Industrial:				
9	New Brunswick	-	-	-	-
10	Quebec		2,236	1,255,949	916,574
11	Ontario		7,116	12,004,149	7,297,036
12	Manitoba		274	1,105,148	359,482
13	Saskatchewan		572	3,532,054	869,666
14	Alberta		523	9,453,238	1,753,177
15	British Columbia		249	3,934,640	1,645,827
16	Canada		10,970	31,285,178	12,841,762
17	Firm		10,620	26,305,117	10,317,266
18	Interruptible		350	4,980,061	1,760,449
	Commercial:				
19	New Brunswick		58	2,512	5,045
20	Quebec		10,047	560,642	646,112
21	Ontario		57,028	6,548,249	6,057,627
22	Manitoba		8,621	1,764,453	1,191,377
23	Saskatchewan		14,480	1,569,337	832,429
24	Alberta		27,619	5,160,928	1,925,845
25	British Columbia		23,464	1,418,127	1,616,383
26	Canada		141,317	17,024,248	12,274,818
	Total sales:				
27	New Brunswick		2,039	7,108	19,556
28	Quebec		216,980	3,288,029	3,819,184
29	Ontario		720,803	31,602,168	28,758,974
30	Manitoba		105,195	5,382,250	3,699,267
31	Saskatchewan		122,534	7,940,841	3,612,186
32	Alberta		271,304	20,838,151	6,795,488
33	British Columbia		201,718	8,120,927	7,347,280
34	Canada		1,640,573	77,179,474	54,051,935

... Figures not appropriate or not applicable.

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

No.		March 1967		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	14,064	80,470	145,097
2	Industrial	41	1,993	2,096
3	Commercial	2,680	48,574	85,786
4	Totals	16,785	131,037	232,979

TABLE 6. Sales of Natural Gas

March 1967		March 1966				No.
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total			
2.3	3.16	100	2,123	4,082	14,014	1
7.2	1.53	84,496	206,590	1,230,866	1,981,580	2
19.9	1.18	489,094(1)	636,290	10,634,933	12,732,255	3
26.1	0.86	85,187	88,196	2,016,197	1,738,352	4
26.4	0.67	99,105(1)	103,021	2,596,255	1,754,723	5
25.6	0.50	229,741(1)	236,320	5,933,372	2,985,795	6
15.6	1.48	146,463(1)	167,908	2,407,571	2,905,676(1)	7
19.3	1.00	1,134,186	1,440,448	24,823,276	24,112,395	8
-	-	-	-	-	-	9
562	0.73	-	2,358	1,593,788	1,032,313	10
1,687	0.61	-	6,860	9,797,880	5,862,957	11
4,033	0.33	-	384	911,348	296,054	12
6,174	0.25	-	549	3,057,032	810,220	13
18,075	0.19	-	563	8,185,730	1,484,391	14
15,802	0.42	-	958	4,554,337	2,000,605(1)	15
2,852	0.40	-	11,672	28,100,115	11,486,540	16
-	-	-	11,186	22,721,933	9,256,207	17
-	-	-	486	5,378,182	2,230,333	18
43.3	2.01	-	52	1,878	3,936	19
55.8	1.15	-	9,922	342,133	470,833	20
114.8	0.93	-	53,864	5,045,825	4,613,245	21
204.7	0.68	-	7,947	1,447,639	982,912	22
108.4	0.53	-	11,255	1,398,713	409,268	23
186.9	0.37	-	26,516	4,482,798	1,719,533	24
60.4	1.14	-	21,618	837,821	890,896(1)	25
120.5	0.72	-	131,174	13,556,267	9,090,623	26
3.5	2.75	-	2,175	5,960	17,950	27
15.2	1.16	-	218,870	3,166,787	3,484,726	28
43.8	0.91	-	697,014	25,478,638	23,208,457	29
51.2	0.69	-	96,527	4,375,184	3,017,318	30
64.8	0.46	-	114,825	7,052,000	2,974,211	31
76.0	0.32	-	263,444	18,601,900	6,189,719	32
40.2	0.90	-	190,484	7,799,189	5,797,177	33
47.0	0.70	-	1,583,339	66,479,658	44,689,558	34

(1) Estimated.

TABLE 7. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas

March 1967				No.
Manufactured gas				
Customers	Gas sold	Revenue	No.	
No.	Mcf.	\$		
1,971	11,336	15,298	1	
29	34,120	13,319	2	
573	12,501	14,332	3	
2,573	57,957	42,949	4	

TABLE 8. Sales of Natural Gas in Mcf. with a Heat Content of 1,000 B.T.U. per Cubic Foot

	March 1967			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	5,545	-	3,031	8,576
Quebec	1,482,833	1,263,390	567,379	3,313,602
Ontario	13,123,502	12,070,263	6,583,625	31,777,390
Manitoba	2,532,056	1,113,069	1,780,276	5,425,401
Saskatchewan	2,854,866	3,551,231	1,577,857	7,983,954
Alberta	6,663,296	10,019,276	5,514,372	22,196,944
British Columbia	2,924,435	4,138,959	1,494,473	8,557,867
Canada	29,586,533	32,156,188	17,521,013	79,263,734

TABLE 9. Exports and Imports of Natural Gas at 1,000 B.T.U.

	March 1967						Year to date total
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	
	Mcf.						
Exports	66,036	414,988	6,917,641	2,785,799	36,213,150	46,397,614	133,603,415
Imports	-	4,920,792	-	14,112	-	4,934,904	13,173,185

TABLE 10. Pipeline Sales of Liquefied Petroleum Gases and Manufactured Gas at 1,000 B.T.U.

	March 1967	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	154,202	26,113

TABLE 11. Exports and Imports to and from the United States

March 1967

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	65,642	-
Ontario - Cornwall	412,923	-
Niagara Falls	-	2,291,023
Ojibway	-	2,654,435
Total Ontario	412,923	4,945,458
Manitoba - Emerson	6,876,383	-
Alberta - Aden	1,825,744	-
Carway	1,238,705	-
Coutts	215	14,059
Total Alberta	3,064,664	14,059
British Columbia - Kingsgate - U.S.A. District V South(1)	17,062,095	-
Other U.S.A.	4,715,294	-
Huntingdon	12,668,128	-
Total British Columbia	34,445,517	-
Canada - March 1967	44,865,129	4,959,517
March 1966	38,020,917	3,041,015
Year to date - 1967	128,687,183	13,176,998
1966	111,426,953	9,121,788
Value - 1967	10,360,696	1,383,686
1966	8,949,000	1,169,086

(1) California, Nevada, Arizona.

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