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GAS UTILITIES
 (Transport and Distribution Systems)

MARCH 1969

During March field gathering systems and processing plants delivered to gas utilities 146, 719, 269 Mcf. of natural gas. The transport systems accounted for 116,482,003 Mcf. and the distribution systems 30,237,266 Mcf. Natural gas imported from the U.S.A. was 4,201,424 Mcf. and the volume recovered from storage was 6,752,190 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume	% of total supply	% increase over March 1968	Revenue	% of total revenue
	'000 Mcf.			\$'000	
Ultimate customers	88,183	55.9	12.3	59,762	80.4
Exports	56,607	35.9	7.8	14,567	19.6
Other uses and adjustments	13,004	8.2	...	...	...
Totals	157,794	100.0	15.4	74,329	100.0

... Figures not appropriate or applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 93.4 billion commodity (Mcf.) miles (2,130 million ton miles) during March compared with 80.9 billion (Mcf.) miles (1,844 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.9 million Mcf.

Alberta natural gas utilities receipts totalled 117.6 billion cubic feet; of this 19.6 per cent was sold to ultimate customers in Alberta, 22.0 per cent in Ontario, 4.0 per cent in Quebec, 3.3 per cent in Saskatchewan, 1.2 per cent in British Columbia and 4.4 per cent in Manitoba. Exports accounted for 36.5 per cent and the remaining 9.0 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	% of total sales	% increase over March 1968	Revenue	% of sales revenue	Number of customers
	'000 Mcf.			\$'000		'000
Residential	29,424	33.4	5.7	30,206	50.5	1,610
Industrial	38,571	43.7	14.2	15,560	26.0	12
Commercial	20,188	22.9	19.6	13,996	23.5	160
Totals	88,183	100.0	11.1	59,762	100.0	1,782

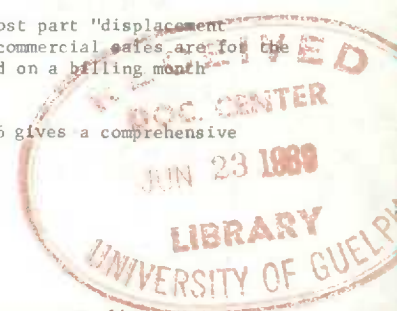
All gas volumes in Tables I-7 and Table II are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60°F; that is, without adjustments to a common B.T.U. base. Gas sales, exports and imports containing 1,000 B.T.U.'s per cubic foot are given separately in Table 8-10.

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 of Natural Gas.

Manufacturing and Primary Industries Division

June, 1969
 6503-509



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

March 1969

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	<u>By transport systems</u>			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	<u>By distribution systems</u>			
2a	Fields	10,772	13,449	522,417
2b	Processing plants	-	-	547,946
3	Total (1 + 2)	10,772	13,449	1,070,363
4	Imports	-	-	4,187,546
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	10,772	13,449	5,257,909
7	Received from storage	-	-	5,472,153
9	Total supply of gas utilities (6 + 7)	10,772	13,449	10,730,062
	<u>Transfers from</u>			
11	Other provinces	-	4,964,342	36,933,658
12	Distribution to transport (primary)	-	-	672,799
13	Other gas utilities	-	4,508,880	38,942,140
19	Total gross receipts (9 + 11 + 12 + 13)	10,772	9,486,671	87,278,659
	<u>Disposition</u>			
	<u>Sales</u>			
20	Residential	2,763	1,662,995	12,928,417
21	Industrial	-	2,361,182	15,214,073
22	Commercial	2,033	717,472	8,406,074
30	Total sales (20 + 21 + 22)	4,796	4,741,649	36,548,564
31	Exports	-	218,064	541,735
32	Other deliveries	-	-	2,448
33	Total net deliveries (30 + 31 + 32)	4,796	4,959,713	37,092,747
34	Delivered to storage	-	-	1,478,333
35	Line pack fluctuation	-	94	- 29,620
36	Gas used in system	-	22,199	2,890,854
37	Line losses and unaccounted for	5,976	- 4,215	1,267,064
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	10,772	4,977,791	42,699,378
	<u>Transfers to</u>			
40	Other provinces	-	-	4,964,342
41	Distribution by transport (primary)	-	-	32,071,545
42	Other gas utilities	-	4,508,880	7,543,394
49	Total disposition (39 + 40 + 41 + 42)	10,772	9,486,671	87,278,659

(1) Includes peak shaving and enrichment.

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

March 1969

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	March 1968	No.
					Canada	
Mcf.						
-	-	9,514,482	490,453	10,004,935	6,497,664	1a
-	-	83,002,998	23,474,070	106,477,068	87,892,790	1b
-	2,458,303	13,233,770	-	16,238,711	12,299,703	2a
-	1,761,097	11,577,107	112,405	13,998,555	14,235,623	2b
-	4,219,400	117,328,357	24,076,928	146,719,269	120,925,780	3
-	-	13,878	-	4,201,424	9,137,564	4
116,589	-	5,019	43	121,651	59,198	5
116,589	4,219,400	117,347,254	24,076,971	151,042,344	130,122,542	6
-	1,117,805	162,232	-	6,752,190	4,996,699	7
116,589	5,337,205	117,509,486	24,076,971	157,794,534	135,119,241	9
55,242,160	60,439,853	-	28,445,401	...	...	11
-	2,817,581	1,832,094	131,879	5,454,353	4,811,010	12
5,392,036	3,202,633	6,698,031	9,969,001	68,712,721	57,214,827	13
60,750,785	71,797,272	126,039,611	62,623,252	231,961,608	197,145,078	19
2,259,436	2,882,253	6,817,645	2,870,688	29,424,197	27,842,494	20
1,175,571	4,109,860	10,734,593	4,976,072	38,571,351	33,774,234	21
1,741,232	1,570,476	5,560,261	2,189,848	20,187,396	16,879,171	22
5,176,239	8,562,589	23,112,499	10,036,608	88,182,944	78,495,899	30
12,019,793	-	3,470,139	40,357,651	56,607,382	52,521,009	31
-	48,151	1,320,308	-	1,370,907	1,186,419	32
17,196,032	8,610,740	27,902,946	50,394,259	146,161,233	132,203,327	33
-	190,916	-	-	1,669,249	2,651,498	34
119,231	- 101,525	- 795	53,934	41,319	738,663	35
698,684	1,405,658	930,536	2,041,766	7,989,697	4,760,483	36
411,144	429,109	- 208,455	32,413	1,933,036	- 5,234,730	37
18,425,091	10,534,898	28,624,232	52,522,372	157,794,534	135,119,241	39
36,933,658	55,242,160	88,885,254	-	...	...	40
-	3,202,633	244,920	449,428	35,968,526	44,897,540	41
5,392,036	2,817,581	8,285,205	9,651,452	38,198,548	17,128,297	42
60,750,785	71,797,272	126,039,611	62,623,252	231,961,608	197,145,078	49

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1969

No.		January	February	March	April	May
		Mcf.				
	<u>Receipts</u>					
1	<u>By transport systems</u>					
1a	Fields	10,645,974	9,370,792	10,004,935		
1b	Processing plants	103,471,100	98,866,494	106,477,068		
2	<u>By distribution systems</u>					
2a	Fields	23,816,825	17,573,872	16,238,711		
2b	Processing plants	15,630,395	13,274,977	13,998,555		
3	Total (1 + 2)	153,564,294	139,086,135	146,719,269		
4	Imports	2,968,411	2,852,203	4,201,424		
5	Other receipts(1)	304,789	117,525	121,651		
6	Total net receipts (3 + 4 + 5)	156,837,494	142,055,863	151,042,344		
7	Received from storage	17,417,972	10,028,714	6,752,190		
9	Total supply of gas utilities (6 + 7)	174,255,466	152,084,577	157,794,534		
	<u>Transfers from</u>					
11	Other provinces .....	...	...	...
12	Distribution to transport (primary)	5,983,105	5,504,292	5,454,353		
13	Other gas utilities	71,983,013	64,050,999	68,712,721		
19	Total gross receipts (9 + 11 + 12 + 13) ...	252,221,584	221,639,868	231,961,608		
	<u>Disposition</u>					
	<u>Sales</u>					
20	Residential	41,725,079	35,851,699	29,424,197		
21	Industrial	37,311,788	35,327,155	38,571,351		
22	Commercial	26,478,310	24,182,583	20,187,396		
30	Total sales (20 + 21 + 22)	105,515,177	95,361,437	88,182,944		
31	Exports	58,033,790	53,393,931	56,607,382		
32	Other deliveries	1,459,750	1,585,935	1,370,907		
33	Total net deliveries (30 + 31 + 32)	165,008,717	150,341,303	146,161,233		
34	Delivered to storage	695,411	1,054,029	1,669,249		
35	Line pack fluctuation	- 647,899	520,208	41,319		
36	Gas used in system	7,388,026	7,262,667	7,989,697		
37	Line losses and unaccounted for	1,811,211	- 7,093,630	1,933,036		
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	174,255,466	152,084,577	157,794,534		
	<u>Transfers to</u>					
40	Other provinces .....	...	...	...
41	Distribution by transport (primary)	53,908,468	49,457,245	35,968,526		
42	Other gas utilities	24,057,650	20,098,046	38,198,548		
49	Total disposition (39 + 40 + 41 + 42)	252,221,584	221,639,868	231,961,608		

(1) Includes peak shaving and enrichment.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1969

June	July	August	September	October	November	December	Year to date		No.
							1969	1968	
Mcf.									
							30,021,701	22,460,450	1a
							308,814,662	266,350,465	1b
							57,629,408	42,459,651	2a
							42,903,927	43,840,263	2b
							439,369,698	375,110,829	3
							10,022,038	21,884,883	4
							543,965	238,942	5
							449,935,701	397,234,654	6
							34,198,876	32,617,512	7
							484,134,577	429,852,166	9
							11
							16,941,750	21,917,830	12
							204,746,733	172,131,052	13
							705,823,060	623,901,048	19
							107,000,975	96,627,022	20
							111,210,294	99,750,983	21
							70,848,289	58,582,489	22
							289,059,558	254,960,494	30
							168,035,103	153,884,535	31
							4,416,592	2,384,304	32
							461,511,253	411,229,333	33
							3,418,689	3,003,790	34
							- 86,372	1,228,511	35
							22,640,390	16,980,738	36
							- 3,349,383	- 2,590,206	37
							484,134,577	429,852,166	39
							40
							139,334,239	134,068,448	41
							82,354,244	59,980,434	42
							705,823,060	623,901,048	49

TABLE 4. Operating Statistics: Natural Gas Utilities

March 1969

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<u>Daily sendouts (Mcf.)</u>			
March 1969			
Daily average	3,318,096	3,076,175	4,883,720
Maximum(1)	3,979,814	...	...
Minimum(1)	3,225,948	...	...
Exports maximum(1)	1,930,323	...	...
March 1968			
Daily average	3,142,533	2,532,125	4,350,183
Maximum(1)	3,458,215	...	...
Minimum(1)	2,991,398	...	...
Year to date 1969			
Daily average	3,415,215	3,211,773	5,165,888
Maximum(1)	4,008,770	...	...
Minimum(1)	3,225,948	...	...
<u>Commodity miles</u>			
Mcf. miles (thousands)	93,430,160	..	..
Ton-miles (millions)	2,130	..	..
<u>Line pack</u>			
Beginning of month (Mcf.)	8,778,850	..	..
End of month (Mcf.)	8,690,818	..	..
Operating revenues	\$..	59,762,270	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

March 1969

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	46,878	116,119
Deliveries to ultimate customers	46,475	90,451
Line pack fluctuations	-	-
Gas used in system	-	970
Metering difference, line losses, cyclical billing adjustments and unaccounted for	403	24,698
Total disposition	46,878	116,119
Daily average sendout	1,512	3,746
Revenues	\$ 33,109	148,820

TABLE 6. Sales of Natural Gas

No.		March 1969			
		Customers		Gas sold	Revenue
		Space heating	Total		
		No.	Mcf.	\$	
	<u>Residential</u>				
1	New Brunswick	130	1,756	2,763	9,789
2	Quebec	103,345	205,024	1,662,995	2,714,859
3	Ontario	580,695	708,686	12,928,417	15,310,929
4	Manitoba	105,428	107,743	2,259,436	1,879,568
5	Saskatchewan	119,903	122,329	2,882,253	2,085,171
6	Alberta	262,628	265,163	6,817,645	3,445,357
7	British Columbia	199,263	199,244	2,870,688	4,760,540
8	Canada	1,371,392	1,609,945	29,424,197	30,206,213
	<u>Industrial</u>				
9	New Brunswick	-	-	-	-
10	Quebec	2,204	2,204	2,361,182	1,461,665
11	Ontario	8,341	8,341	15,214,073	9,036,122
12	Manitoba	296	296	1,175,571	371,575
13	Saskatchewan	627	627	4,109,860	1,176,888
14	Alberta	523	523	10,734,593	1,962,608
15	British Columbia	292	292	4,976,072	1,551,099
16	Canada	12,283	12,283	38,571,351	15,559,957
17	Firm		11,697	34,002,680	13,567,234
18	Interruptible		586	4,568,671	1,992,723
	<u>Commercial</u>				
19	New Brunswick	66	66	2,033	4,163
20	Quebec	10,427	10,427	717,472	842,571
21	Ontario	65,599	65,599	8,406,074	7,479,193
22	Manitoba	10,495	10,495	1,741,232	1,156,579
23	Saskatchewan	16,970	16,970	1,570,476	894,223
24	Alberta	30,317	30,317	5,560,261	2,120,141
25	British Columbia	25,941	25,941	2,189,848	1,499,230
26	Canada	159,815	159,815	20,187,396	13,996,100
	<u>Total sales</u>				
27	New Brunswick		1,822	4,796	13,952
28	Quebec		217,655	4,741,649	5,019,095
29	Ontario		782,626	36,548,564	31,826,244
30	Manitoba		118,534	5,176,239	3,407,722
31	Saskatchewan		139,926	8,562,589	4,156,282
32	Alberta		296,003	23,112,499	7,528,106
33	British Columbia		225,477	10,036,608	7,810,869
34	Canada		1,782,043	88,182,944	59,762,270

... Figures not appropriate or not applicable.

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

No.		March 1969		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
		No.	Mcf.	\$
1	Residential	11,195	42,109	82,883
2	Industrial	8	605	774
3	Commercial	2,259	47,737	65,161
4	Total	13,462	90,451	148,823

TABLE 6. Sales of Natural Gas

March 1969			March 1968			No.
Sales per customer	Revenue per Mcf.	Customers		Gas sold	Revenue	
		Space heating	Total			
Mcf.	\$	No.		Mcf.	\$	
1.6	3.54	130	1,905	4,416	14,426	1
8.1	1.63	94,333	204,191	1,399,512	2,579,070	2
18.2	1.18	547,752	679,861	13,760,748	16,232,931	3
21.0	0.83	94,546	102,431	2,414,987	2,085,283	4
23.6	0.72	111,906	117,373	2,447,114	1,723,920	5
25.7	0.51	249,420	252,100	5,304,693	2,776,691	6
14.4	1.66	169,971	189,760	2,511,024	3,632,729	7
18.3	1.03	1,268,058	1,547,621	27,842,494	29,045,050	8
-	-	-	-	-	-	9
1,071	0.62	-	2,257	1,665,298	1,083,638	10
1,824	0.59	-	7,455	13,148,862	7,947,750	11
3,971	0.32	-	302	1,536,537	548,998	12
6,554	0.29	-	611	4,296,799	1,182,620	13
20,525	0.18	-	567	8,892,913	1,676,324	14
17,041	0.31	-	269	4,233,825	1,761,961	15
3,140	0.40	-	11,461	33,774,234	14,111,291	16
			10,289	23,594,456	10,572,922	17
			1,172	10,179,778	3,538,369	18
30.8	2.05	-	60	2,847	5,591	19
68.8	1.17	-	10,294	608,607	760,676	20
128.1	0.89	-	60,653	7,142,819	6,841,202	21
165.9	0.66	-	9,258	1,695,329	1,153,293	22
92.5	0.57	-	16,073	1,647,133	869,061	23
183.4	0.38	-	28,280	4,334,573	1,682,573	24
84.4	0.68	-	24,622	1,447,863	1,635,828	25
126.3	0.69	-	149,240	16,879,171	12,948,224	26
2.6	2.91	-	1,965	7,263	20,017	27
21.8	1.06	-	216,742	3,673,417	4,423,384	28
46.7	0.87	-	747,969	34,052,429	31,021,883	29
43.7	0.66	-	111,991	5,646,853	3,697,574	30
61.2	0.49	-	134,057	8,391,046	3,775,601	31
78.1	0.33	-	280,947	18,532,179	6,135,588	32
44.5	0.78	-	214,651	8,192,712	7,030,518	33
49.5	0.68	-	1,708,322	78,495,899	56,104,565	34

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

March 1969				No.
Manufactured gas				
Customers	Gas sold	Revenue		
No.	Mcf.	\$		
1,574	7,748	10,673		1
17	27,869	9,878		2
472	10,858	12,558		3
2,063	46,475	33,109		4

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

	March 1969			
	Residential	Industrial	Commercial	Total
	Mcf.			
<u>Sales</u>				
New Brunswick	3,333	-	2,053	5,386
Quebec	1,694,974	2,407,369	730,741	4,833,084
Ontario	13,153,021	15,481,003	8,551,090	37,185,114
Manitoba	2,281,641	1,184,703	1,760,588	5,226,932
Saskatchewan	2,897,902	4,132,174	1,579,002	8,609,078
Alberta	7,208,220	11,186,964	5,905,791	24,300,975
British Columbia	3,022,752	5,216,923	2,278,087	10,517,762
Canada	30,261,843	39,609,136	20,807,352	90,678,331

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

	March 1969						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	221,771	550,944	12,224,129	3,529,957	42,308,046	58,834,847	174,506,740
Imports	-	4,221,994	-	13,878	-	4,235,872	10,158,485

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

	March 1969	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	65,021	22,328

TABLE 11. Exports and Imports to and from the United States
March 1969

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	218,064	-
Ontario - Cornwall	-	-
Niagara Falls	541,735	2,766,339
Ojibway	-	1,421,207
Total Ontario	541,735	4,187,546
Manitoba - Emerson	12,019,793	-
Alberta - Aden	1,637,956	-
Carway	1,832,123	-
Coutts	60	13,878
Total Alberta	3,470,139	13,878
British Columbia - Kingsgate - U.S.A. District V South(1)	21,015,060	-
Other U.S.A.	4,300,750	-
Huntingdon	15,041,841	-
Total British Columbia	40,357,651	-
Canada - March 1969	56,607,382	4,201,424
1968	52,521,009	9,137,564
Year to date - 1969	168,035,103	10,022,038
1968	153,884,535	21,884,883
Value - March 1969	14,567,353	1,852,376
1968	13,316,931	5,208,146

(1) California, Nevada, Arizona.

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