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GAS UTILITIES (Transport and Distribution Systems)

FEBRUARY 1969

During February field gathering systems and processing plants delivered to gas utilities 139,086,135 Mcf. of natural gas. The transport systems accounted for 108,237,286 Mcf. and the distribution systems 30,848,849 Mcf. Natural gas imported from the U.S.A. was 2,582,203 Mcf. and the volume recovered from storage was 10,028,714 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over February 1968	Revenue \$'000	% of total revenue
Ultimate customers	95,361	62.7	12.1	65,542	82.6
Exports	53,394	35.1	8.4	13,837	17.4
Other uses and adjustments	3,330	2.2	...	...	...
Totals	152,085	100.0	6.3	79,379	100.0

... Figures not appropriate or applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 86.1 billion commodity (Mcf.) miles (1,963 million ton miles) during February compared with 78.5 billion (Mcf.) miles (1,789 million ton miles) last year. The daily average deliveries of gas utilities amounted to 5.4 million Mcf.

Alberta natural gas utilities receipts totalled 111.4 billion cubic feet; of this 23.9 per cent was sold to ultimate customers in Alberta, 21.8 per cent in Ontario, 4.1 per cent in Quebec, 3.6 per cent in Saskatchewan, 1.2 per cent in British Columbia and 5.5 per cent in Manitoba. Exports accounted for 36.7 per cent and the remaining 3.2 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 February 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 February 1968	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	35,852	37.6	10.5	34,106	52.0	1,605
Industrial	35,327	37.0	6.9	14,743	22.5	12
Commercial	24,182	25.4	23.5	16,693	25.5	159
Totals	95,361	100.0	12.1	65,542	100.0	1,776

All gas volumes in Tables 1-7 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 of Natural Gas.

Manufacturing and Primary Industries Division

June 1969
6503-509

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province
February 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	10,628	12,608	1,011,924
2b	Processing plants	-	-	7,333
3	Total (1 + 2)	10,628	12,608	1,019,257
4	Imports	-	-	2,836,769
5	Other receipts(1)	-	-	428
6	Total net receipts (3 + 4 + 5)	10,628	12,608	3,856,454
7	Received from storage	-	-	9,239,202
9	Total supply of gas utilities (6 + 7)	10,628	12,608	13,095,656
	<u>Transfers from</u>			
11	Other provinces	-	4,813,006	31,523,437
12	Distribution to transport (primary)	-	-	613,292
13	Other gas utilities	-	4,387,476	34,090,700
19	Total gross receipts (9 + 11 + 12 + 13)	10,628	9,213,090	79,323,265
	<u>Disposition</u>			
	<u>Sales</u>			
20	Residential	3,865	1,558,069	14,411,620
21	Industrial	-	2,187,454	14,094,037
22	Commercial	2,559	817,893	9,068,728
30	Total sales (20 + 21 + 22)	6,424	4,563,416	37,574,385
31	Exports	-	197,182	485,461
32	Other deliveries	-	-	2,904
33	Total net deliveries (30 + 31 + 32)	6,424	4,760,598	38,062,750
34	Delivered to storage	-	-	791,210
35	Line pack fluctuation	-	3,010	8,140
36	Gas used in system	-	18,871	2,565,352
37	Line losses and unaccounted for	4,204	43,135	1,621,185
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	10,628	4,825,614	39,806,267
	<u>Transfers to</u>			
40	Other provinces	-	-	4,813,006
41	Distribution by transport (primary)	-	4,379,002	26,233,297
42	Other gas utilities	-	8,474	8,470,885
49	Total disposition (39 + 40 + 41 + 42)	10,628	9,213,090	79,323,265

(1) Includes peak shaving and enrichment.

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

February 1969

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	February 1968		No.
					Canada		
Mcf.							
-	-	8,919,506	451,286	9,370,792	7,473,927	1a	
-	-	76,924,889	21,941,605	98,866,494	87,505,605	1b	
-	2,751,853	13,786,859	-	17,573,872	14,240,778	2a	
-	1,759,249	11,386,226	122,169	13,274,977	14,603,637	2b	
-	4,511,102	111,017,480	22,515,060	139,086,135	123,823,947	3	
-	-	15,434	-	2,852,203	6,574,121	4	
112,467	-	4,576	54	117,525	103,056	5	
112,467	4,511,102	111,037,490	22,515,114	142,055,863	130,501,124	6	
-	560,308	229,204	-	10,028,714	12,593,881	7	
112,467	5,071,410	111,266,694	22,515,114	152,084,577	143,095,005	9	
48,431,145	54,172,011	-	27,811,105	...	...	11
-	3,231,557	1,659,443	-	5,504,292	8,311,240	12	
5,154,419	3,888,521	6,833,153	9,696,730	64,050,999	55,926,797	13	
53,698,031	66,363,499	119,759,290	60,022,949	221,639,868	207,333,042	19	
3,038,042	3,863,499	9,620,573	3,356,031	35,851,699	32,452,548	20	
829,144	4,477,389	9,792,990	3,946,141	35,327,155	33,059,807	21	
2,206,868	2,234,483	7,230,607	2,621,445	24,182,583	19,574,100	22	
6,074,054	10,575,371	26,644,170	9,923,617	95,361,437	85,086,455	30	
10,756,981	-	3,221,894	38,732,413	53,393,931	49,270,614	31	
-	27,281	1,555,750	-	1,585,935	1,074,591	32	
16,831,035	10,602,652	31,421,814	48,656,030	150,341,303	135,431,660	33	
-	262,819	-	-	1,054,029	175,363	34	
347,063	12,095	44,007	105,893	520,208	- 57,692	35	
606,644	1,244,697	842,614	1,984,489	7,262,667	5,834,189	36	
- 764,747	- 1,309,987	- 3,024,857	- 420,193	- 7,093,630	1,711,485	37	
17,019,995	10,812,276	29,283,578	50,326,219	152,084,577	143,095,005	39	
31,523,617	48,431,145	81,983,116	-	...	...	40
5,154,419	3,888,521	287,901	9,514,105	49,457,245	43,350,902	41	
-	3,231,557	8,204,695	182,625	20,098,046	20,887,135	42	
53,698,031	66,363,499	119,759,290	60,022,949	221,639,868	207,333,042	49	

... Figures not appropriate or not applicable.

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			
1b	Processing plants	103,471,100	98,866,494			
2	<u>By distribution systems</u>					
2a	Fields	23,816,825	17,573,872			
2b	Processing plants	15,630,395	13,274,977			
3	Total (1 + 2)	153,564,294	139,086,135			
4	Imports	2,968,411	2,852,203			
5	Other receipts(1)	304,789	117,525			
6	Total net receipts (3 + 4 + 5)	156,837,494	142,055,863			
7	Received from storage	17,417,972	10,028,714			
9	Total supply of gas utilities (6 + 7)	174,255,466	152,084,577			
	<u>Transfers from</u>					
11	Other provinces .....	...	...	
12	Distribution to transport (primary)	5,983,105	5,504,292			
13	Other gas utilities	71,983,013	64,050,999			
19	Total gross receipts (9 + 11 + 12 + 13) ...	252,221,584	221,639,868			
	<u>Disposition</u>					
	<u>Sales</u>					
20	Residential	41,725,079	35,851,699			
21	Industrial	37,311,788	35,327,155			
22	Commercial	26,478,310	24,182,583			
30	Total sales (20 + 21 + 22)	105,515,177	95,361,437			
31	Exports	58,033,790	53,393,931			
32	Other deliveries	1,459,750	1,585,935			
33	Total net deliveries (30 + 31 + 32)	165,008,717	150,341,303			
34	Delivered to storage	695,411	1,054,029			
35	Line pack fluctuation	- 647,899	520,208			
36	Gas used in system	7,388,026	7,262,667			
37	Line losses and unaccounted for	1,811,211	- 7,093,630			
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	174,255,466	152,084,577			
	<u>Transfers to</u>					
40	Other provinces .....	...	...	
41	Distribution by transport (primary)	53,908,468	49,457,245			
42	Other gas utilities	24,057,650	20,098,046			
49	Total disposition (39 + 40 + 41 + 42)	252,221,584	221,639,868			

(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.									
							20,016,766	15,962,786	1a
							202,337,594	178,457,675	1b
							41,390,697	30,159,948	2a
							28,905,372	29,604,640	2b
							292,650,429	254,185,049	3
							5,820,614	12,747,319	4
							422,314	179,744	5
							298,893,357	267,112,112	6
							27,446,686	27,620,813	7
							326,340,043	294,732,925	9
							11
							11,487,397	17,106,820	12
							136,034,012	114,916,225	13
							473,861,452	426,755,970	19
							77,576,778	68,784,528	20
							72,638,943	65,976,749	21
							50,660,893	41,703,318	22
							200,876,614	176,464,595	30
							111,427,721	101,363,526	31
							3,045,685	1,197,885	32
							315,350,020	279,026,006	33
							1,749,440	352,292	34
							- 127,691	489,848	35
							14,650,693	12,220,255	36
							- 5,282,419	2,644,524	37
							326,340,043	294,732,925	39
							40
							103,365,713	89,170,908	41
							44,155,696	42,852,137	42
							473,861,452	426,755,970	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

February 1969

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
									Mcf.
	<u>Receipts</u>								
1	<u>By transport systems</u>								
1a	Fields	-	-	-	-	8,919,506	451,286	-	9,370,792
1b	Processing plants	-	-	-	-	76,924,889	21,941,605	-	98,866,494
2	<u>By distribution systems</u>								
2a	Fields	10,628	12,608	1,011,924	2,751,853	13,786,859	-	-	17,573,872
2b	Processing plants	-	-	7,333	1,759,249	11,386,226	122,169	-	13,274,977
3	Total (1 + 2)	10,628	12,608	1,019,257	4,511,102	11,017,480	22,515,060	-	139,086,135
4	Imports	-	-	-	-	-	-	2,852,203	2,852,203
5	Other receipts(1)	-	-	428	-	117,043	54	-	117,525
6	Total net receipts (3 + 4 + 5)	10,628	12,608	1,019,685	4,511,102	11,134,523	22,515,114	2,852,203	142,055,863
7	Received from storage	-	-	9,239,202	560,308	229,204	-	-	10,028,714
9	Total supply of gas utilities (6 + 7)	10,628	12,608	10,258,887	5,071,410	11,363,727	22,515,114	2,852,203	152,084,577
	<u>Disposition</u>								
	<u>Sales</u>								
23	British Columbia	-	-	-	-	1,379,550	8,544,067	-	9,923,617
24	Alberta	-	-	-	-	26,628,909	-	15,261	26,644,170
25	Saskatchewan	-	-	-	6,582,855	3,992,516	-	-	10,575,371
26	Manitoba	-	-	-	-	6,074,054	-	-	6,074,054
27	Ontario	-	-	10,451,833	-	24,285,783	-	2,836,769	37,574,385
28	Quebec	-	12,608	-	-	4,550,808	-	-	4,563,416
29	New Brunswick	6,424	-	-	-	-	-	-	6,424
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,424	12,608	10,451,833	6,582,855	66,911,620	8,544,067	2,852,030	95,361,437
31	Exports	-	-	-	-	40,896,439	12,497,492	-	53,393,931
32	Other deliveries	-	-	-	-	1,585,935	-	-	1,585,935
33	Total net deliveries (30 + 31 + 32)	6,424	12,608	10,451,833	6,582,855	109,393,994	21,041,559	2,852,030	150,341,303
34	Delivered to storage	-	-	-	262,819	791,210	-	-	1,054,029
35	Line pack fluctuation	-	-	-	- 14,360	439,699	94,869	-	520,208
36	Gas used in system	-	-	46,875	244,207	5,211,684	1,759,901	-	7,262,667
37	Line losses and unaccounted for	4,204	-	- 239,821	- 2,004,111	- 4,472,860	- 381,215	173	- 7,093,630
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	10,628	12,608	10,258,887	5,071,410	11,363,727	22,515,114	2,852,203	152,084,577

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

February 1969

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<u>Daily sendouts (Mcf.)</u>			
February 1969:			
Daily average	3,673,256	3,405,766	5,406,976
Maximum(1)	4,008,770	...	...
Minimum(1)	3,533,811	...	...
Exports maximum(1)	1,966,687	...	...
February 1968:			
Daily average	3,193,845	2,934,016	4,676,104
Maximum(1)	3,468,908	...	...
Minimum(1)	3,008,700	...	...
Year to date 1969:			
Daily average	3,640,567	3,404,688	5,374,567
Maximum(1)	4,008,770	...	...
Minimum(1)	3,330,349	...	...
<u>Commodity miles</u>			
Mcf. miles (thousands)	86,083,090	..	..
Ton-miles (millions)	1,963	..	..
<u>Line pack</u>			
Beginning of month (Mcf.)	8,612,127	..	..
End of month (Mcf.)	3,533,811	..	..
Operating revenues	(\$)	65,542,248	..

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

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

February 1969

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	34,761	123,225
Deliveries to ultimate customers	30,681	99,607
Line pack fluctuations	-	-
Gas used in system	-	1,264
Metering difference, line losses, cyclical billing adjustments and unaccounted for	4,080	22,354
Total disposition	34,761	123,225
Daily average sendout	1,241	4,404
Revenues	(\$)	162,026

TABLE 6. Sales of Natural Gas

No.		February 1969			
		Customers		Gas sold	Revenue
		Space heating	Total		
		No.	Mcf.	\$	
	<u>Residential</u>				
1	New Brunswick	130	1,774	3,865	12,913
2	Quebec	102,247	204,296	1,558,069	2,537,751
3	Ontario	587,041	706,741	14,411,620	16,904,971
4	Manitoba	105,097	107,456	3,038,042	2,467,539
5	Saskatchewan	118,924	121,330	3,863,499	2,647,323
6	Alberta	261,866	264,213	9,620,573	4,603,812
7	British Columbia	181,689	199,821	3,356,031	4,931,590
8	Canada	1,356,994	1,605,631	35,851,699	34,105,899
	<u>Industrial</u>				
9	New Brunswick	-	-	-	-
10	Quebec		2,271	2,187,454	1,385,569
11	Ontario		8,139	14,094,037	8,688,152
12	Manitoba		297	829,144	318,339
13	Saskatchewan		621	4,477,389	1,293,383
14	Alberta		526	9,792,990	1,755,740
15	British Columbia		247	3,946,141	1,302,459
16	Canada		12,101	35,327,155	14,743,642
17	Firm		11,542	31,146,021	13,050,196
18	Interruptible		559	4,181,134	1,693,446
	<u>Commercial</u>				
19	New Brunswick		66	2,559	5,392
20	Quebec		10,406	817,893	916,829
21	Ontario		64,974	9,068,728	7,977,760
22	Manitoba		10,465	2,206,868	1,434,681
23	Saskatchewan		16,765	2,234,483	1,233,939
24	Alberta		30,253	7,230,607	2,745,126
25	British Columbia		25,792	2,621,445	2,378,980
26	Canada		158,721	24,182,583	16,692,707
	<u>Total sales</u>				
27	New Brunswick		1,840	6,424	18,305
28	Quebec		216,973	4,563,416	4,840,149
29	Ontario		779,854	37,574,385	33,570,883
30	Manitoba		118,218	6,074,054	4,220,559
31	Saskatchewan		138,716	10,575,371	5,174,645
32	Alberta		294,992	26,644,170	9,104,678
33	British Columbia		225,860	9,923,617	8,613,029
34	Canada		1,776,453	95,361,437	65,542,248

... Figures not appropriate or not applicable.

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

No.		February 1969		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
		No.	Mcf.	\$
1	Residential	11,281	38,926	80,150
2	Industrial	7	344	687
3	Commercial	2,260	60,337	81,189
4	Total	13,548	99,607	162,026

TABLE 6. Sales of Natural Gas

February 1969		February 1969					No.
Sales per customer	Revenue per Mcf.	Customers		Gas sold	Revenue		
		Space heating	Total				
Mcf.	\$	No.		Mcf.	\$		
2.2	3.34	130	1,903	4,066	13,414	1	
7.6	1.63	93,792	204,229	1,867,641	2,805,822	2	
20.4	1.17	547,608	679,385	14,539,195	17,053,325	3	
28.3	0.81	96,851	102,308	2,739,920	2,358,304	4	
31.8	0.69	110,652	116,067	3,595,909	2,362,738	5	
36.4	0.48	249,171	251,417	7,134,678	3,522,902	6	
16.8	1.47	169,352	192,938	2,571,139	3,463,318	7	
22.3	0.95	1,267,556	1,548,247	32,452,548	31,579,823	8	
-	-	-	-	-	-	9	
963	0.63		2,252	1,321,999	984,411	10	
1,731	0.62		7,372	12,460,686	7,753,588	11	
2,792	0.38		287	1,140,134	354,331	12	
7,210	0.29		585	4,642,877	1,189,917	13	
18,618	0.18		811	9,518,405	1,796,249	14	
15,976	0.33		215	3,975,706	1,700,948	15	
2,919	0.42		11,522	33,059,807	13,779,444	16	
			10,436	22,903,476	10,963,817	17	
			1,086	10,156,331	2,815,627	18	
38.8	2.11		60	2,630	5,222	19	
78.6	1.12		10,264	637,218	804,182	20	
139.6	0.88		60,507	7,708,306	7,121,579	21	
210.9	0.65		9,233	1,852,232	1,263,103	22	
133.3	0.55		15,922	1,919,197	1,010,751	23	
239.0	0.38		28,268	5,640,629	2,159,519	24	
101.6	0.91		25,122	1,813,888	2,065,522	25	
152.4	0.69		149,376	19,574,100	14,429,878	26	
3.5	2.85		1,963	6,696	18,636	27	
21.0	1.06		216,745	3,826,858	4,594,415	28	
48.2	0.89		747,264	34,708,187	31,928,492	29	
51.4	0.69		111,828	5,732,286	3,975,738	30	
76.2	0.49		132,574	10,157,983	4,563,406	31	
90.3	0.34		280,496	22,293,712	7,478,670	32	
43.9	0.87		218,275	8,360,733	7,229,788	33	
53.7	0.69		1,709,145	85,086,455	59,789,145	34	

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

February 1969				No.
Manufactured gas				
Customers	Gas sold	Revenue		
No.	Mcf.	\$		
1,581	8,002	9,881	1	
18	13,008	5,717	2	
475	9,671	11,157	3	
2,074	30,681	26,755	4	

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

	February 1969			
	Residential	Industrial	Commercial	Total
	Mcf.			
<u>Sales</u>				
New Brunswick	4,663	-	3,088	7,751
Quebec	1,589,509	2,232,590	830,341	4,652,440
Ontario	14,702,991	14,385,782	9,253,975	38,342,748
Manitoba	3,085,307	838,202	2,243,163	6,166,672
Saskatchewan	3,863,499	4,477,389	2,234,483	10,575,371
Alberta	10,196,013	9,994,558	7,699,181	27,889,752
British Columbia	3,485,199	4,104,414	2,721,883	10,311,496
Canada	36,927,181	36,032,935	24,986,114	97,946,230

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

	February 1969						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	200,534	493,714	10,939,850	3,274,086	40,621,900	55,530,084	115,658,962
Imports	-	2,885,754	-	15,434	-	2,901,188	5,922,613

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

	February 1969	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	71,022	14,236

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

February 1969

Province and customs port	Exports	Imports
		Mcf.
Quebec - Phillipsburg	197,182	-
Ontario - Cornwall	485,461	-
Niagara Falls	-	2,389,303
Ojibway	-	447,466
Total Ontario	485,461	2,836,769
Manitoba - Emerson	10,756,981	-
Alberta - Aden	1,562,405	-
Carway	1,659,469	-
Coutts	20	15,434
Total Alberta	3,221,894	15,434
British Columbia - Kingsgate - U.S.A. District V South(1)	20,501,844	-
Other U.S.A.	4,313,208	-
Huntingdon	13,917,361	-
Total British Columbia	38,732,413	-
Canada - February 1969	53,393,931	2,852,203
1968	49,270,614	6,574,121
Year to date - 1969	111,427,721	5,820,614
1968	101,363,526	12,747,319
Value - February 1969	13,837,173	2,711,690
1968	12,831,264	3,037,724

(1) California, Nevada, Arizona.

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