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GAS UTILITIES
 (Transport and Distribution Systems)
 FEBRUARY 1968

During February field gathering systems and processing plants delivered to gas utilities 127,933,447 Mcf. of natural gas. The transport systems accounted for 94,979,532 Mcf. and the distribution systems 28,844,415 Mcf. Natural gas imported from the U.S.A. was 6,629,657 Mcf. and the volume recovered from storage was 12,593,881 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over February 1967	Revenue \$'000	% of total revenue
Ultimate customers	85,086	59.4	11.6	59,789	82.3
Exports	49,271	34.4	22.8	12,831	17.7
Other uses and adjustments	8,794	6.2	...	...	...
Totals	143,151	100.0	19.3	72,620	100.0

... Figures not appropriate or not applicable.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 78.5 billion commodity (Mcf.) miles (1,789 million ton miles) during February compared with 66.3 billion (Mcf.) miles (1,512 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.7 million Mcf.

Alberta natural gas utilities receipts totalled 99.9 billion cubic feet; of this 22.3 per cent was sold to ultimate customers in Alberta, 15.6 per cent in Ontario, 3.8 per cent in Quebec, 3.8 per cent in Saskatchewan, 1.2 per cent in British Columbia and 5.7 per cent in Manitoba. Exports accounted for 38.9 per cent and the remaining 8.7 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 1967	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	32,452	38.1	5.7	31,580	52.8	1,548
Industrial	33,060	38.9	21.2	13,779	23.1	12
Commercial	19,574	23.0	7.4	14,430	24.1	149
Totals	85,086	100.0	11.6	59,789	100.0	1,709

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 of Natural Gas.

Manufacturing and Primary Industries Division

June 1968
 5503-509

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

February 1968

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	Receipts			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	12,661	14,931	1,208,009
2b	Processing plants	-	-	-
3	Total (1 + 2)	12,661	14,931	1,208,009
4	Imports	-	-	6,617,479
5	Other receipts(1)	-	-	6,608
6	Total net receipts (3 + 4 + 5)	12,661	14,931	7,832,096
7	Received from storage	-	-	11,543,958
9	Total supply of gas utilities (6 + 7)	12,661	14,931	19,376,054
	Transfers from:			
11	Other provinces	-	3,951,744	23,281,208
12	Distribution to transport (primary)	-	3,573,780	-
13	Other gas utilities	-	-	31,088,986
19	Total gross receipts (9 + 11 + 12 + 13) ...	12,661	7,540,455	73,746,248
	Disposition			
	Sales:			
20	Residential	4,066	1,867,641	14,539,195
21	Industrial	-	1,321,999	12,460,686
22	Commercial	2,630	637,218	7,708,306
30	Total sales (20 + 21 + 22)	6,696	3,826,858	34,708,187
31	Exports	-	128,369	365,011
32	Other deliveries	-	-	5,698
33	Total net deliveries (30 + 31 + 32)	6,696	3,955,227	35,078,896
34	Delivered to storage	-	-	22,672
35	Line pack fluctuation	-	-	3,407
36	Gas used in system	-	17,515	2,401,206
37	Line losses and unaccounted for	5,965	- 6,067	1,199,337
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,661	3,966,675	38,705,518
	Transfers to:			
40	Other provinces	-	-	3,951,744
41	Distribution by transport (primary)	-	3,573,780	21,728,797
42	Other gas utilities	-	-	9,360,189
49	Total disposition (39 + 40 + 41 + 42)	12,661	7,540,455	72,746,248

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

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

February 1968

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	February 1967		No.
					Canada		
			Mcf.				
-	-	7,030,708	443,219	7,473,927	7,589,123	1a	
-	-	69,583,351	17,922,254	87,505,605	70,197,341	1b	
-	4,491,813	10,478,816	-	16,206,230	13,120,081	2a	
-	-	12,505,295	132,890	12,638,185	12,488,766	2b	
-	4,491,813	99,598,170	18,498,363	123,823,947	103,395,311	3	
-	-	12,178	-	6,629,657	3,837,708	4	
95,177	-	1,271	-	103,056	13,514	5	
95,177	4,491,813	99,611,619	18,498,363	130,556,660	107,246,533	6	
-	809,156	240,767	-	12,593,881	12,781,478	7	
95,177	5,300,969	99,852,386	18,498,363	143,150,541	120,028,011	9	
46,125,744	44,995,538	-	26,724,561	...	...	11
-	3,523,574	1,213,886	-	8,311,240	5,127,330	12	
5,906,966	3,950,007	6,629,390	8,351,448	55,926,797	53,253,749	13	
46,127,887	57,770,088	107,695,662	53,574,372	207,388,578	178,409,090	19	
2,739,920	3,595,909	7,134,678	2,571,139	32,452,548	30,687,889	20	
1,140,134	4,642,877	9,518,405	3,975,706	33,059,807	27,288,180	21	
1,852,232	1,919,197	5,640,629	1,813,888	19,574,100	18,232,554	22	
5,732,286	10,157,983	22,293,712	8,360,733	85,086,455	76,208,623	30	
10,314,427	-	2,897,577	35,565,230	49,270,614	40,121,156	31	
-	-	1,068,893	-	1,074,591	94,608	32	
16,046,713	10,157,983	26,260,182	43,925,963	135,431,660	116,424,387	33	
-	152,691	-	-	175,363	675,440	34	
2,984	9,417	- 47,731	- 25,769	- 57,692	- 238,840	35	
570,467	1,132,218	609,561	1,103,222	5,834,189	4,307,636	36	
319,549	- 1,281,546	1,310,275	219,508	1,767,021	- 1,140,612	37	
16,939,713	10,170,763	28,132,287	45,222,924	143,150,541	120,028,011	39	
23,281,208	40,125,744	71,720,099	-	...	...	40
5,906,966	3,950,007	62,662	8,128,690	43,350,902	38,618,252	41	
-	3,523,574	7,780,614	222,758	20,887,135	19,762,827	42	
46,127,887	57,770,088	107,695,662	53,574,372	207,388,578	178,409,090	49	

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

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	8,488,859	7,473,927			
1b	Processing plants	92,137,690	87,505,605			
2	By distribution systems:					
2a	Fields	15,919,170 ^r	16,206,230			
2b	Processing plants	15,001,003 ^r	12,638,185			
3	Total (1 + 2)	131,546,722	123,823,947			
4	Imports	6,173,198	6,629,657			
5	Other receipts(1)	76,688	103,056			
6	Total net receipts (3 + 4 + 5)	137,796,608	130,556,660			
7	Received from storage	15,026,932	12,593,881			
9	Total supply of gas utilities (6 + 7)	152,823,540	143,150,541			
	Transfers from:					
11	Other provinces .....	...	...	
12	Distribution to transport (primary)	8,795,580	8,311,240			
13	Other gas utilities	58,989,428	55,926,797			
19	Total gross receipts (9 + 11 + 12 + 13) ...	220,608,548	207,388,578			
	<u>Disposition</u>					
	Sales:					
20	Residential	36,331,980	32,452,548			
21	Industrial	32,916,942	33,059,807			
22	Commercial	22,129,036	19,574,100			
30	Total sales (20 + 21 + 22)	91,377,958	85,086,455			
31	Exports	52,092,912	49,270,614			
32	Other deliveries	123,294	1,074,591			
33	Total net deliveries (30 + 31 + 32)	143,594,164	135,431,660			
34	Delivered to storage	176,929	175,363			
35	Line pack fluctuation	547,540	- 57,692			
36	Gas used in system	6,386,066	5,834,189			
37	Line losses and unaccounted for	2,118,841	1,767,021			
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	152,823,540	143,150,541			
	Transfers to:					
40	Other provinces .....	...	...	
41	Distribution by transport (primary)	45,820,006	43,350,902			
42	Other gas utilities	21,965,002	20,887,135			
49	Total disposition (39 + 40 + 41 + 42)	220,608,548	207,388,578			

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

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

June	July	August	September	October	November	December	Year to date January to February inclusive		No.
							1968	1967	
				Mcf.					
							15,962,786	16,054,388	1a
							179,643,295	148,968,792	1b
							32,125,400	28,827,337	2a
							27,639,188	27,279,783	2b
							255,370,669	221,130,300	3
							12,802,855	8,217,481	4
							179,744	37,197	5
							268,353,268	229,384,978	6
							27,620,813	21,128,378	7
							295,974,081	250,513,356	9
							11
							17,106,820	11,472,544	12
							114,916,225	109,676,194	13
							427,997,126	371,662,094	19
							68,784,528	61,846,173	20
							65,976,749	56,706,968	21
							41,703,136	36,727,349	22
							176,464,413	155,280,490	30
							101,363,526	83,822,054	31
							1,197,885	336,442	32
							279,025,824	239,438,986	33
							352,292	987,365	34
							489,848	- 209,663	35
							12,220,255	9,408,680	36
							3,885,862	887,988	37
							295,974,081	250,513,356	39
							40
							89,170,908	81,421,329	41
							42,852,137	39,727,409	42
							427,997,126	371,662,094	49

TABLE 3. Receipts and Disposition of Natural Gas by Source

February 1968

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	-	-	-	-	7,030,708	443,219	-	7,473,927	
1b	Processing plants	-	-	-	-	69,583,351	17,922,254	-	87,505,605	
2	By distribution systems:									
2a	Fields	12,661	14,931	1,208,009	4,491,813	10,478,816	-	-	16,206,230	
2b	Processing plants	-	-	-	-	12,505,295	132,890	-	12,638,185	
3	Total (1 + 2)	12,661	14,931	1,208,009	4,491,813	99,598,170	18,498,363	-	123,823,947	
4	Imports	-	-	-	-	-	-	6,629,657	6,629,657	
5	Other receipts(1)	-	-	6,608	-	96,448	-	-	103,056	
6	Total net receipts (3 + 4 + 5)	12,661	14,931	1,214,617	4,491,813	99,694,618	18,498,363	6,629,657	130,556,660	
7	Received from storage	-	-	11,543,958	809,156	240,767	-	-	12,593,881	
9	Total supply of gas utilities (6 + 7)	12,661	14,931	12,758,575	5,300,969	99,935,385	18,498,363	6,629,657	143,150,541	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	1,217,022	7,143,711	-	8,360,733	
24	Alberta	-	-	-	-	22,280,886	-	12,826	22,293,712	
25	Saskatchewan	-	-	-	6,352,734	3,805,249	-	-	10,157,983	
26	Manitoba	-	-	-	-	5,732,286	-	-	5,732,286	
27	Ontario	-	-	12,514,284	-	15,576,424	-	6,617,479	34,708,187	
28	Quebec	-	14,931	-	-	3,811,927	-	-	3,826,858	
29	New Brunswick	6,696	-	-	-	-	-	-	6,696	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,696	14,931	12,514,284	6,352,734	52,423,794	7,143,711	6,630,305	85,086,455	
31	Exports	-	-	-	-	38,923,394	10,347,220	-	49,270,614	
32	Other deliveries	-	-	-	-	1,074,591	-	-	1,074,591	
33	Total net deliveries (30 + 31 + 32)	6,696	14,931	12,514,284	6,352,734	92,421,779	17,490,931	6,630,305	135,431,660	
34	Delivered to storage	-	-	-	152,691	22,672	-	-	175,363	
35	Line pack fluctuation	-	-	-	3,514	33,460	20,718	-	57,692	
36	Gas used in system	-	-	43,659	188,694	4,719,380	882,456	-	5,834,189	
37	Line losses and unaccounted for	5,965	-	200,632	1,389,636	2,805,014	145,694	-	4,340,327	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	12,661	14,931	12,758,575	5,300,969	99,935,385	18,498,363	6,629,657	143,150,541	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

February 1968

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
February 1968:			
Daily average	3,193,845	2,934,016	4,676,104
Maximum(1)	3,468,908	...	...
Minimum(1)	3,008,700	...	...
Exports maximum(1)	1,769,086	...	...
February 1967:			
Daily average	2,812,121	2,721,737	4,182,136
Maximum(1)	3,063,732	...	...
Minimum(1)	2,586,086	...	...
Year to date 1968:			
Daily average	3,175,573	2,941,074	4,656,302
Maximum(1)	3,494,251	...	...
Minimum(1)	3,008,700	...	...
Commodity miles:			
Mcf. miles (thousands)	78,468,198	..	..
Ton-miles (millions)	1,789	..	..
Line pack:			
Beginning of month (Mcf.)	8,356,326	..	..
End of month (Mcf.)	8,450,282	..	..
Operating revenues .....	..	59,789,145	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

February 1968

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	32,683	207,902
Deliveries to ultimate customers	28,846	119,313
Line pack fluctuations	-	374
Gas used in system	-	3,075
Metering difference, line losses, cyclical billing adjustments and unaccounted for	3,837	85,140
Total disposition	32,683	207,902
Daily average sendout	1,127	7,169
Revenues	28,304	199,931

TABLE 6. Sales of Natural Gas

No.		February 1968			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
Residential:					
1	New Brunswick	130	1,903	4,066	13,414
2	Quebec	93,792	204,229	1,867,641	2,805,822
3	Ontario	547,608	679,385	14,539,195	17,053,325
4	Manitoba	96,851	102,308	2,739,920	2,358,304
5	Saskatchewan	110,652	116,067	3,595,909	2,362,738
6	Alberta	249,171	251,417	7,134,678	3,522,902
7	British Columbia	169,352	192,938	2,571,139	3,463,318
8	Canada	1,267,556	1,548,247	32,452,548	31,579,823
Industrial:					
9	New Brunswick	-	-	-	-
10	Quebec		2,252	1,321,999	984,411
11	Ontario		7,372	12,460,686	7,753,588
12	Manitoba		287	1,140,134	354,331
13	Saskatchewan		585	4,642,877	1,189,917
14	Alberta		811	9,518,405	1,796,249
15	British Columbia		215	3,975,706	1,700,948
16	Canada		11,522	33,059,807	13,779,444
17	Firm		10,436	22,903,476	10,963,817
18	Interruptible		1,086	10,156,331	2,815,627
Commercial:					
19	New Brunswick		60	2,630	5,222
20	Quebec		10,264	637,218	804,182
21	Ontario		60,507	7,708,306	7,121,579
22	Manitoba		9,233	1,852,232	1,263,103
23	Saskatchewan		15,922	1,919,197	1,010,751
24	Alberta		28,268	5,640,629	2,159,519
25	British Columbia		25,122	1,813,888	2,065,522
26	Canada		149,376	19,574,100	14,429,878
Total sales:					
27	New Brunswick		1,963	6,696	18,636
28	Quebec		216,745	3,826,858	4,594,415
29	Ontario		747,264	34,708,187	31,928,492
30	Manitoba		111,828	5,732,286	3,975,738
31	Saskatchewan		132,574	10,157,983	4,563,406
32	Alberta		280,496	22,293,712	7,478,670
33	British Columbia		218,275	8,360,733	7,229,788
34	Canada		1,709,145	85,086,455	59,789,145

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

No.		February 1968		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	13,579	65,520	126,264
2	Industrial	7	432	866
3	Commercial	2,583	53,361	72,801
4	Total	16,169	119,313	199,931

TABLE 6. Sales of Natural Gas

		February 1967					
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	No.	
		Space heating No.	Total				
2.1	3.30	100	1,988	4,162	14,067	1	
9.1	1.50	88,137	205,044	1,713,771	2,503,447	2	
21.4	1.73	516,425	654,882	13,500,642	15,890,132	3	
26.8	0.86	93,268	95,994	2,696,062	2,402,369	4	
31.0	0.66	105,129	109,470	3,246,941	2,137,211	5	
28.4	0.49	238,510	242,682	7,084,794	3,450,731	6	
13.3	1.34	157,125	177,378	2,441,517	3,482,724	7	
21.0	0.97	1,198,694	1,487,438	30,687,889	29,880,681	8	
-	-	-	-	-	-	9	
587	0.74	-	2,240	989,959	751,983	10	
1,690	0.62	-	7,064	10,533,453	6,684,712	11	
3,973	0.31	-	268	1,007,092	343,059	12	
7,937	0.26	-	577	2,946,323	873,218	13	
11,737	0.19	-	523	8,486,941	1,640,254	14	
18,492	0.43	-	228	3,324,412	1,350,621	15	
2,869	0.42	-	10,900	27,288,180	11,643,847	16	
			10,564	23,931,511	9,895,284	17	
			336	3,356,669	1,748,563	18	
43.8	1.99	-	58	2,299	4,614	19	
62.1	1.26	-	10,094	561,039	674,231	20	
127.4	0.92	-	56,593	6,660,918	6,129,146	21	
300.6	0.68	-	8,580	1,919,777	1,284,208	22	
120.5	0.53	-	14,857	1,781,407	938,961	23	
199.5	0.38	-	27,482	5,809,944	2,078,502	24	
72.2	1.14	-	23,459	1,497,170	1,948,603	25	
131.0	0.74	-	141,123	18,232,554	13,058,265	26	
3.4	2.78	-	2,046	6,461	18,681	27	
17.7	1.20	-	217,378	3,264,769	3,929,661	28	
46.4	0.92	-	718,539	30,695,013	28,703,990	29	
51.3	0.69	-	104,842	5,622,931	4,029,636	30	
76.6	0.45	-	124,904	7,974,671	3,949,390	31	
79.5	0.34	-	270,687	21,381,679	7,169,487	32	
38.3	0.86	-	201,065	7,263,099	6,781,948	33	
49.8	0.70	-	1,639,461	76,208,623	54,582,793	34	

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

February 1968				
Customers		Manufactured gas		No.
No.		Gas sold Mcf.	Revenue \$	
1,763		7,882	9,974	1
22		9,445	5,295	2
520		11,519	13,035	3
2,305		28,846	28,304	4

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

	February 1968			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	4,906	-	3,173	8,079
Quebec	1,887,057	1,327,522	643,640	3,858,219
Ontario	14,646,925	12,559,163	7,764,116	34,970,204
Manitoba	2,767,813	1,150,484	1,872,693	5,790,990
Saskatchewan	3,615,432	4,668,085	1,929,617	10,213,134
Alberta	7,584,048	9,983,968	6,029,555	23,597,571
British Columbia	2,710,413	4,209,309	1,919,061	8,838,783
Canada	33,216,594	33,898,531	20,161,855	87,276,980

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

	February 1968						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	129,268	367,201	10,396,942	2,937,513	37,405,042	51,235,966	105,840,989
Imports	-	6,676,636	-	12,178	-	6,688,814	12,937,105

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

	February 1968	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	102,651	13,399

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

February 1968

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	128,369	-
Ontario - Cornwall	365,011	-
Niagara Falls	-	4,526,265
Ojibway	-	2,091,214
Total Ontario	365,011	6,617,479
Manitoba - Emerson	10,314,427	-
Alberta - Aden	1,439,653	-
Carway	1,457,709	-
Coutts	215	12,178
Total Alberta	2,897,577	12,178
British Columbia - Kingsgate - U.S.A. District V South(1)	19,410,148	-
Other U.S.A.	4,419,818	-
Huntingdon	11,735,264	-
Total British Columbia	35,565,230	-
Canada - 1968	49,270,614	6,629,657
1967	40,121,156	3,837,708
Year to date - 1968	101,363,526	12,802,855
1967	83,822,054	8,217,481
Value - 1968	12,831,264	3,037,724
1967	9,886,099	1,723,604

(1) California, Nevada, Arizona.

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