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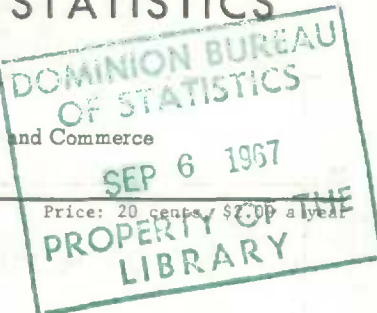
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GAS UTILITIES (Transport and Distribution Systems)

FEBRUARY 1967

During February field gathering systems and processing plants delivered to gas utilities 103,331,427 Mcf. of natural gas. The transport systems accounted for 77,786,464 Mcf. and the distribution systems 25,544,963 Mcf. Natural gas imported from the U.S.A. was 3,837,708 Mcf. and the volume recovered from storage was 12,845,362 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over February 1966	Revenue \$'000	% of total revenue
Ultimate customers	76,209	63.5	7.0	54,583	89.9
Exports	40,121	33.4	15.4	6,146	10.1
Other uses and adjustments	3,698	3.1	...	...	...
Totals	120,028	100.0	14.3	60,729	100.0

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 66.3 billion commodity (Mcf.) miles (1,512 million ton miles) during February compared with 64.9 billion (Mcf.) miles (1,479 million ton miles) last year. The daily average deliveries of gas utilities amounted to 4.2 million Mcf.

Alberta natural gas utilities receipts totalled 81.7 billion cubic feet; of this 26.2 per cent was sold to ultimate customers in Alberta, 16.5 per cent in Ontario, 4.0 per cent in Quebec, 4.2 per cent in Saskatchewan, 1.3 per cent in British Columbia and 6.8 per cent in Manitoba. Exports accounted for 37.0 per cent and the remaining 4.0 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 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 1966	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	30,688	40.3	1.8	29,881	54.8	1,487
Industrial	27,288	35.8	8.6	11,644	21.3	11
Commercial	18,233	23.9	14.1	13,058	23.9	141
Totals	76,209	100.0	7.0	54,583	100.0	1,639

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

August 1967
8503-509

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

February 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	11,267	1,130	1,503,135
2b	Processing plants	-	-	-
3	Total (1 + 2)	11,267	1,130	1,503,135
4	Imports	-	-	3,824,871
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	11,267	1,130	5,328,006
7	Received from storage	-	-	12,199,337
9	Total supply of gas utilities (6 + 7)	11,267	1,130	17,527,343
	Transfers from:			
11	Other provinces	-	3,458,797	19,846,349
12	Distribution to transport (primary)	-	-	619,096
13	Other gas utilities	-	3,210,855	28,631,988
19	Total gross receipts (9 + 11 + 12 + 13) ...	11,267	6,670,782	66,624,776
	<u>Disposition</u>			
	Sales:			
20	Residential	4,162	1,713,771	13,500,642
21	Industrial	-	989,959	10,533,453
22	Commercial	2,299	561,039	6,660,918
30	Total sales (20 + 21 + 22)	6,461	3,264,769	30,695,013
31	Exports	-	67,100	355,490
32	Other deliveries	-	-	3,139
33	Total net deliveries (30 + 31 + 32)	6,461	3,331,869	31,053,642
34	Delivered to storage	-	-	164,607
35	Line pack fluctuation	-	- 1,661	18,766
36	Gas used in system	151	66,076	1,721,813
37	Line losses and unaccounted for	4,655	63,643	956,067
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	11,267	3,459,927	33,914,895
	Transfers to:			
40	Other provinces	-	-	3,458,797
41	Distribution by transport (primary)	-	3,210,855	17,991,866
42	Other gas utilities	-	-	11,259,218
49	Total disposition (39 + 40 + 41 + 42)	11,267	6,670,782	66,624,776

(1) Includes peak shaving and enrichment.

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

February 1967

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	February 1966		No.
					Canada		
			Mcf.				
-	-	7,124,497	464,626	7,589,123	9,199,677	1a	
-	-	54,184,820	16,012,521	70,197,341	64,527,919	1b	
-	1,871,947	9,668,718	-	13,056,197	10,866,000	2a	
-	1,896,390	10,495,965	96,411	12,488,766	10,993,992	2b	
-	3,768,337	81,474,000	16,573,558	103,331,427	95,587,588	3	
-	-	12,837	-	3,837,708	2,861,093	4	
13,514	-	-	-	13,514	- 564	5	
13,514	3,768,337	81,486,837	16,573,558	107,182,649	98,448,117	6	
-	447,651	198,374	-	12,845,362	6,568,074	7	
13,514	4,215,988	81,685,211	16,573,558	120,028,011	105,016,191	9	
32,467,818	36,600,607	-	21,853,604	...	...	11
-	3,061,630	1,446,604	-	5,127,330	667,774	12	
5,660,077	2,998,081	5,470,959	7,281,789	53,253,749	49,635,064	13	
38,141,409	46,876,306	88,602,774	45,708,951	178,409,090	155,319,029	19	
2,696,062	3,246,941	7,084,794	2,441,517	30,687,889	30,127,488	20	
1,007,092	2,946,323	8,486,941	3,324,412	27,288,180	25,119,783	21	
1,919,777	1,781,407	5,809,944	1,497,170	18,232,554	15,985,229	22	
5,622,931	7,974,671	21,381,679	7,263,099	76,208,623	71,232,500	30	
6,519,641	-	2,782,082	30,396,843	40,121,156	34,761,484	31	
-	-	91,469	-	94,608	266,370	32	
12,142,572	7,974,671	24,255,230	37,659,942	116,424,387	106,260,354	33	
-	244,691	266,142	-	675,440	813,407	34	
- 7,455	69,061	- 135,516	- 182,035	- 238,840	- 62,730	35	
407,692	841,249	212,993	1,057,662	4,307,636	4,409,579	36	
92,174	- 780,895	- 1,367,849	- 108,407	- 1,140,612	- 6,404,419	37	
12,634,983	8,348,777	23,231,000	38,427,162	120,028,011	105,016,191	39	
19,846,349	32,467,818	58,454,211	-	...	...	40
5,660,077	2,998,081	1,662,890	7,094,483	38,618,252	37,511,726	41	
-	3,061,630	5,254,673	187,306	19,762,827	12,791,112	42	
38,141,409	46,876,306	88,602,774	45,708,951	178,409,090	155,319,029	49	

... Figures not appropriate or not applicable.

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			
1b	Processing plants	78,771,451	70,197,341			
2	By distribution systems:					
2a	Fields	14,352,214	13,056,197			
2b	Processing plants	14,791,017	12,488,766			
3	Total (1 + 2)	116,379,947	103,331,427			
4	Imports	4,379,773	3,837,708			
5	Other receipts(1)	23,683	13,514			
6	Total net receipts (3 + 4 + 5)	120,783,403	107,182,649			
7	Received from storage	9,701,942	12,845,362			
9	Total supply of gas utilities (6 + 7)	130,485,345	120,028,011			
	Transfers from:					
11	Other provinces .....	.....	.....	
12	Distribution to transport (primary)	6,345,214	5,127,330			
13	Other gas utilities	56,422,445	53,253,749			
19	Total gross receipts (9 + 11 + 12 + 13) ...	193,253,004	178,409,090			
	<u>Disposition</u>					
	Sales:					
20	Residential	31,158,284	30,687,889			
21	Industrial	29,418,788	27,288,180			
22	Commercial	18,494,795	18,232,554			
30	Total sales (20 + 21 + 22)	79,071,867	76,208,623			
31	Exports	43,700,898	40,121,156			
32	Other deliveries	241,834	94,608			
33	Total net deliveries (30 + 31 + 32)	123,014,599	116,424,387			
34	Delivered to storage	311,925	675,440			
35	Line pack fluctuation	29,177	- 238,840			
36	Gas used in system	5,101,044	4,307,636			
37	Line losses and unaccounted for	2,028,600	- 1,140,612			
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	130,485,345	120,028,011			
	Transfers to:					
40	Other provinces .....	.....	.....	
41	Distribution by transport (primary)	42,803,077	38,618,252			
42	Other gas utilities	19,964,582	19,762,827			
49	Total disposition (39 + 40 + 41 + 42)	193,253,004	178,409,090			

(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.					
							16,054,388	19,662,622	1a
							148,968,792	138,065,075	1b
							27,408,411	26,291,563	2a
							27,279,783	23,681,501	2b
							219,711,374	207,700,761	3
							8,217,481	6,080,773	4
							37,197	1,793	5
							227,966,052	213,783,327	6
							22,547,304	16,325,752	7
							250,513,356	230,109,079	9
							11
							11,472,544	1,907,639	12
							109,676,194	108,278,549	13
							371,662,094	340,295,267	19
							61,846,173	61,027,586	20
							56,706,968	51,814,735	21
							36,727,349	32,496,331	22
							155,280,490	145,338,652	30
							83,822,054	73,406,036	31
							336,442	525,151	32
							239,438,986	219,269,839	33
							987,365	1,233,104	34
							- 209,663	33,878	35
							9,408,680	9,407,943	36
							887,988	164,315	37
							250,513,356	230,109,079	39
							40
							81,421,329	81,290,150	41
							39,727,409	28,896,038	42
							371,662,094	340,295,267	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

February 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	-	-	-	-	7,124,497	464,626	-	7,589,123	
1b	Processing plants	-	-	-	-	54,184,820	16,012,521	-	70,197,341	
2	By distribution systems:									
2a	Fields	11,267	1,130	1,503,135	1,871,947	9,668,718	-	-	13,056,197	
2b	Processing plants	-	-	-	1,896,390	10,495,965	96,411	-	12,488,766	
3	Total (1 + 2)	11,267	1,130	1,503,135	3,768,337	81,474,000	16,573,558	-	103,331,427	
4	Imports	-	-	-	-	-	-	3,837,708	3,837,708	
5	Other receipts(1)	-	-	-	-	13,514	-	-	13,514	
6	Total net receipts (3 + 4 + 5)	11,267	1,130	1,503,135	3,768,337	81,487,514	16,573,558	3,837,708	107,182,649	
7	Received from storage	-	-	12,199,337	447,651	198,374	-	-	12,845,362	
9	Total supply of gas utilities (6 + 7)	11,267	1,130	13,702,472	4,215,988	81,685,888	16,573,558	3,837,708	120,028,011	
	<u>Disposition</u>									
	Sales:									
23	British Columbia	-	-	-	-	1,095,819	6,167,280	-	7,263,099	
24	Alberta	-	-	-	-	21,372,813	-	8,866	21,381,679	
25	Saskatchewan	-	-	-	4,558,426	3,416,195	-	-	7,974,671	
26	Manitoba	-	-	-	63,549	5,559,382	-	-	5,622,931	
27	Ontario	-	-	13,367,616	-	13,502,526	-	3,824,871	30,695,013	
28	Quebec	-	1,130	-	-	3,263,639	-	-	3,264,769	
29	New Brunswick	6,461	-	-	-	-	-	-	6,461	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,461	1,130	13,367,616	4,622,025	48,210,374	6,167,280	3,833,737	76,208,623	
31	Exports	-	-	-	-	30,195,311	9,925,825	-	40,121,156	
32	Other deliveries	-	-	-	-	89,588	-	5,020	94,608	
33	Total net deliveries (30 + 31 + 32)	6,461	1,130	13,367,616	4,622,025	78,495,273	16,093,125	3,838,757	116,424,387	
34	Delivered to storage	-	-	-	244,691	430,749	-	-	675,440	
35	Line pack fluctuation	-	-	-	11,306	- 61,500	- 188,646	-	- 238,840	
36	Gas used in system	151	-	31,477	168,693	3,221,842	885,473	-	4,307,636	
37	Line losses and unaccounted for	4,655	-	303,379	- 830,727	- 400,476	- 216,394	- 1,049	- 1,140,612	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	11,267	1,130	13,702,472	4,215,988	81,685,888	16,573,558	3,837,708	120,028,011	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics: Natural Gas Utilities

February 1967

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
February 1967:			
Daily average	2,812,121	2,721,737	4,182,136
Maximum(1)	3,063,732	...	...
Minimum(1)	2,586,086	...	...
Exports maximum(1)	1,496,757	...	...
February 1966:			
Daily average	2,581,186	2,544,018	3,737,338
Maximum(1)	2,741,786	...	...
Minimum(1)	2,401,658	...	...
Year to date 1967:			
Daily average	2,619,995	2,757,451	4,075,023
Maximum(1)	3,063,732	...	...
Minimum(1)	2,542,371	...	...
Commodity miles:			
Mcf. miles (thousands)	66,304,017	..	..
Ton-miles (millions)	1,512	..	..
Line pack:			
Beginning of month (Mcf.)	8,272,666	..	..
End of month (Mcf.)	10,400,559	..	..
Operating revenues .....	..	54,582,793	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

February 1967

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	36,348	159,331
Deliveries to ultimate customers	30,693	122,242
Line pack fluctuations	-	5,423
Gas used in system	- 5,423	1,623
Metering difference, line losses, cyclical billing adjustments and unaccounted for	11,078	30,043
Total disposition	36,348	159,331
Daily average sendout	1,298	5,690
Revenues	\$25,783	\$220,393

TABLE 6. Sales of Natural Gas

No.		February 1967			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
	Residential:				
1	New Brunswick	100	1,988	4,162	14,067
2	Quebec	88,137	205,044	1,713,771	2,503,447
3	Ontario	516,425	654,882	13,500,642	15,890,132
4	Manitoba	93,268	95,994	2,696,062	2,402,369
5	Saskatchewan	105,129	109,470	3,246,941	2,137,211
6	Alberta	238,510	242,682	7,084,794	3,450,731
7	British Columbia	157,125	177,378	2,441,517	3,482,724
8	Canada	1,198,694	1,487,438	30,687,889	29,880,681
	Industrial:				
9	New Brunswick	-	-	-	-
10	Quebec		2,240	989,959	751,983
11	Ontario		7,064	10,533,453	6,684,712
12	Manitoba		268	1,007,092	343,059
13	Saskatchewan		577	2,946,323	873,218
14	Alberta		523	8,486,941	1,640,254
15	British Columbia		228	3,324,412	1,350,621
16	Canada		10,900	27,288,180	11,643,847
17	Firm		10,564	23,931,511	9,895,284
18	Interruptible		336	3,356,669	1,748,563
	Commercial:				
19	New Brunswick		58	2,299	4,614
20	Quebec		10,094	561,039	674,231
21	Ontario		56,593	6,660,918	6,129,144
22	Manitoba		8,580	1,919,777	1,284,205
23	Saskatchewan		14,857	1,781,407	938,961
24	Alberta		27,482	5,809,944	2,078,502
25	British Columbia		23,459	1,497,170	1,948,603
26	Canada		141,123	18,232,554	13,058,265
	Total sales:				
27	New Brunswick		2,046	6,461	18,681
28	Quebec		217,378	3,264,769	3,929,661
29	Ontario		718,539	30,695,013	28,703,990
30	Manitoba		104,842	5,622,931	4,029,636
31	Saskatchewan		124,904	7,974,671	3,949,390
32	Alberta		270,687	21,381,679	7,169,487
33	British Columbia		201,065	7,263,099	6,781,948
34	Canada		1,639,461	76,208,623	54,582,793

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

No.		February 1967		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue
	No.	Mcf.	\$	
1	Domestic	13,994	74,968	137,403
2	Industrial	36	2,252	2,328
3	Commercial	2,644	45,021	80,662
4	Total	16,674	122,242	220,393

TABLE 6. Sales of Natural Gas

February 1967		February 1966				No.
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total			
2.1	3.38	100	2,175	5,982	17,827	1
8.3	1.46	84,261	206,868	1,389,156	1,965,554	2
20.2	1.18	489,084	634,499	13,233,792	15,553,129	3
28.0	0.89	84,706	87,691	2,524,005	2,142,909	4
29.6	0.66	98,037	102,086	3,352,320	2,165,287	5
29.1	0.49	229,579	235,600	7,381,468	3,594,738	6
13.7	1.43	145,213	167,061	2,240,765	2,638,028	7
20.6	0.97	1,130,980	1,435,980	30,127,488	28,077,472	8
-	-	-	-	-	-	9
44.2	0.76	-	2,341	1,264,114	904,250	10
1,491	0.63	-	6,816	8,660,690	4,359,365	11
3,757	0.34	-	266	714,738	258,919	12
5,106	0.30	-	818	3,080,339	812,141	13
16,227	0.19	-	570	7,549,510	1,384,332	14
14,580	0.41	-	905	3,850,392	1,690,554	15
2,504	0.43	-	11,716	25,119,783	9,409,561	16
-	-	-	11,246	21,559,824	7,887,845	17
-	-	-	470	3,559,959	1,521,716	18
39.6	2.01	-	-	-	-	19
55.6	1.20	-	9,908	395,826	501,223	20
117.7	0.92	-	53,402	5,650,496	5,312,223	21
223.8	0.67	-	7,956	1,814,699	1,195,900	22
119.9	0.53	-	13,642	1,770,112	932,461	23
211.4	0.36	-	26,527	5,394,202	2,065,193	24
63.8	1.31	-	21,440	959,894	1,008,958	25
129.2	0.72	-	132,875	15,985,229	11,015,958	26
3.2	2.89	-	2,175	5,982	17,827	27
15.0	1.20	-	219,117	3,049,096	3,371,027	28
42.7	0.94	-	694,717	27,544,978	25,224,717	29
53.6	0.72	-	95,913	5,053,442	3,597,728	30
63.8	0.50	-	116,546	8,202,771	3,909,889	31
79.0	0.34	-	262,697	20,325,180	7,044,263	32
36.1	0.93	-	189,406	7,051,051	5,337,540	33
46.5	0.72	-	1,580,571	71,232,500	48,502,991	34

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

February 1967				No.
Manufactured gas		Gas sold		
Customers No.		Gas sold Mcf.	Revenue \$	
1,986		3,917	5,299	1
29		14,196	6,273	2
577		12,580	14,211	3
2,592		30,693	25,783	4

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

	February 1967			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	4,162	-	2,298	6,460
Quebec	1,719,226	993,154	563,185	3,275,565
Ontario	13,581,651	9,566,525	6,716,789	29,864,965
Manitoba	2,717,233	1,014,438	1,937,269	5,668,940
Saskatchewan	3,264,570	2,270,195	1,791,079	7,325,844
Alberta	7,556,659	8,398,033	5,820,732	21,775,424
British Columbia	2,575,693	3,503,184	1,577,794	7,656,671
Canada	31,419,194	25,745,529	18,409,146	75,573,869

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

	February 1967						Year to date total
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	
	Mcf.						
Exports	67,106	357,267	6,552,239	2,754,262	32,019,344	41,750,218	87,205,801
Imports	-	3,849,351	-	12,841	-	3,862,192	8,238,281

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

	February 1967	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	101,041	13,734

TABLE 11. Exports and Imports to and from the United States
February 1967

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	67,100	-
Ontario - Cornwall	355,490	-
Niagara Falls	-	1,338,730
Ojibway	-	2,486,141
Total Ontario	355,490	3,824,871
Manitoba - Emerson	6,519,641	-
Alberta - Aden	1,669,978	-
Carway	1,111,986	-
Coutts	118	12,837
Total Alberta	2,782,082	12,837
British Columbia - Kingsgate - U.S.A. District V South(1)	14,690,954	-
Other U.S.A.	4,314,693	-
Huntingdon	11,391,196	-
Total British Columbia	30,396,843	-
Canada - February 1967	40,121,156	3,837,708
February 1966	34,761,484	2,861,093
Year to date - 1967	83,822,054	8,217,481
1966	73,406,036	6,080,773
Value - 1967	9,886,099	1,723,604
1966	8,949,414	1,314,171

(1) California, Nevada, Arizona.

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