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GAS UTILITIES (Transport and Distribution Systems)

JANUARY 1967

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During January field gathering systems and processing plants delivered to gas utilities 116,379,947 Mcf. of natural gas. The transport systems accounted for 87,236,716 Mcf. and the distribution systems 29,143,231 Mcf. Natural gas imported from the U.S.A. was 4,379,773 Mcf. and the volume recovered from storage was 9,701,942 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume	% of total supply	% increase over Jan. 1966	Revenue	% of total revenue
	'000 Mcf.			\$'000	
Ultimate customers .....	79,072	60.6	6.7	56,904	85.1
Exports .....	43,701	33.5	13.1	9,970	14.9
Other uses and adjustments .....	7,712	5.9	...	...	...
Totals .....	130,485	100.0	4.3	66,874	100.0

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 75.9 billion commodity (Mcf.) miles (1,730 million ton miles) during January compared with 72.9 billion (Mcf.) miles (1,662 million ton miles) last year. The daily average deliveries of gas utilities amounted to 3.5 million Mcf.

Alberta natural gas utilities receipts totalled 93.6 billion cubic feet; of this 24.3 per cent was sold to ultimate customers in Alberta, 19.2 per cent in Ontario, 3.6 per cent in Quebec, 3.9 per cent in Saskatchewan, 1.3 per cent in British Columbia and 6.3 per cent in Manitoba. Exports accounted for 35.0 per cent and the remaining 6.4 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 January compared to the same month for the previous year. Details are contained in the following table.

Sales Category	Sales	% of total sales	% increase over Jan. 1966	Revenue	% of sales revenue	Number of customers
	'000 Mcf.			\$'000		'000
Residential .....	31,158	39.4	0.8	30,363	53.3	1,485
Industrial .....	29,419	37.2	10.2	12,397	21.8	11
Commercial .....	18,495	23.4	12.0	14,144	24.9	140
Totals .....	79,072	100.0	6.7	56,904	100.0	1,636

All gas volumes in Tables 1-7 and Table 11 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  
6503-509

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

January 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 .....	10,062	110	1,771,385
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	10,062	110	1,771,385
4	Imports .....	-	-	4,363,243
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	10,062	110	6,134,628
7	Received from storage .....	-	-	7,791,868
9	Total supply of gas utilities (6 + 7) .....	10,062	110	13,926,496
	Transfers from:			
11	Other provinces .....	-	3,468,113	23,704,500
12	Distribution to transport (primary) .....	-	-	1,020,684
13	Other gas utilities .....	-	3,240,147	30,131,379
19	Total gross receipts (9 + 11 + 12 + 13) ...	10,062	6,708,370	68,783,059
	<u>Disposition</u>			
	Sales:			
20	Residential .....	4,454	1,580,948	13,567,076
21	Industrial .....	-	1,254,983	11,551,624
22	Commercial .....	2,311	495,060	6,690,686
30	Total sales (20 + 21 + 22) .....	6,765	3,330,991	31,809,386
31	Exports .....	-	61,367	360,029
32	Other deliveries .....	-	-	2,850
33	Total net deliveries (30 + 31 + 32) .....	6,765	3,392,358	32,172,265
34	Delivered to storage .....	-	-	37,809
35	Line pack fluctuation .....	-	114	- 13,320
36	Gas used in system .....	121	9,153	2,230,951
37	Line losses and unaccounted for .....	3,176	66,598	- 264,822
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	10,062	3,468,223	34,162,883
	Transfers to:			
40	Other provinces .....	-	-	3,468,113
41	Distribution by transport (primary) .....	-	3,240,147	20,415,037
42	Other gas utilities .....	-	-	10,737,026
49	Total disposition (39 + 40 + 41 + 42) .....	10,062	6,708,370	68,783,059

(1) Includes peak shaving and enrichment.  
... 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				
1b	Processing plants .....	78,771,451				
2	By distribution systems:					
2a	Fields .....	14,352,214				
2b	Processing plants .....	14,791,017				
3	Total (1 + 2) .....	116,379,947				
4	Imports .....	4,379,773				
5	Other receipts(1) .....	23,683(1)				
6	Total net receipts (3 + 4 + 5) .....	120,783,403				
7	Received from storage .....	9,701,942				
9	Total supply of gas utilities (6 + 7) .....	130,485,345				
	Transfers from:					
11	Other provinces .....	...				
12	Distribution to transport (primary) .....	6,345,214				
13	Other gas utilities .....	56,422,445				
19	Total gross receipts (9 + 11 + 12 + 13) ...	193,253,004				
	<u>Disposition</u>					
	Sales:					
20	Residential .....	31,158,284				
21	Industrial .....	29,418,788				
22	Commercial .....	18,494,795				
30	Total sales (20 + 21 + 22) .....	79,071,867				
31	Exports .....	43,700,898				
32	Other deliveries .....	241,834				
33	Total net deliveries (30 + 31 + 32) .....	123,014,599				
34	Delivered to storage .....	311,925				
35	Line pack fluctuation .....	29,177				
36	Gas used in system .....	5,101,044				
37	Line losses and unaccounted for .....	2,028,600				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	130,485,345				
	Transfers to:					
40	Other provinces .....	...				
41	Distribution by transport (primary) .....	42,803,077				
42	Other gas utilities .....	19,964,582				
49	Total disposition (39 + 40 + 41 + 42) .....	193,253,004				

(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.					
							8,465,265	10,462,945	1a
							78,771,451	73,537,156	1b
							14,352,214	15,425,563	2a
							14,791,017	12,687,509	2b
							116,379,947	112,113,173	3
							4,379,773	3,219,680	4
							23,683	2,357	5
							120,783,403	115,335,210	6
							9,701,942	9,757,678	7
							130,485,345	125,092,888	9
							...	...	11
							6,345,214	1,239,865	12
							56,422,445	58,643,485	13
							193,253,004	184,976,238	19
							31,158,284	30,900,098	20
							29,418,788	26,694,952	21
							18,494,795	16,511,102	22
							79,071,867	74,106,152	30
							43,700,898	38,644,552	31
							241,834	258,781	32
							123,014,599	113,009,485	33
							311,925	419,697	34
							29,177	96,608	35
							5,101,044	4,998,364	36
							2,028,600	6,568,734	37
							130,485,345	125,092,888	39
							...	...	40
							42,803,077	43,778,424	41
							19,964,582	16,104,926	42
							193,253,004	184,976,238	49

... Not appropriate or not applicable.



TABLE 3. Receipts and Disposition of Natural Gas by Source

January 1967

No.		New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
<u>Receipts</u>									
1	By transport systems:								
1a	Fields .....	-	-	-	-	7,905,202	560,063	...	8,465,265
1b	Processing plants .....	-	-	-	-	61,190,874	17,580,577	...	78,771,451
2	By distribution systems:								
2a	Fields .....	10,062	110	1,771,385	2,151,656	10,419,001	-	...	14,352,214
2b	Processing plants .....	-	-	-	2,168,040	12,503,122	119,855	...	14,791,017
3	Total (1 + 2) .....	10,062	110	1,771,385	4,319,696	92,018,199	18,260,495	...	116,379,947
4	Imports .....	-	-	-	-	-	-	4,379,773	4,379,773
5	Other receipts(1) .....	-	-	-	-	5,042	18,641(1)	...	23,683(1)
6	Total net receipts (3 + 4 + 5) .....	10,062	110	1,771,385	4,319,696	92,023,241	18,279,136	4,379,773	120,783,403
7	Received from storage .....	-	-	7,791,868	357,481	1,552,593	-	...	9,701,942
9	Total supply of gas utilities (6 + 7) .....	10,062	110	9,563,253	4,677,177	93,575,834	18,279,136	4,379,773	130,485,345
<u>Disposition</u>									
Sales:									
23	British Columbia .....	-	-	-	-	1,239,934	6,282,749	-	7,522,683
24	Alberta .....	-	-	-	-	22,740,227	-	11,585	22,751,812
25	Saskatchewan .....	-	-	-	4,065,631	3,661,991	-	-	7,727,622
26	Manitoba .....	-	-	-	-	5,922,608	-	-	5,922,608
27	Ontario .....	-	-	9,499,038	-	17,947,105	-	4,363,243	31,809,386
28	Quebec .....	-	110	-	-	3,330,881	-	-	3,330,991
29	New Brunswick .....	6,765	-	-	-	-	-	-	6,765
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,765	110	9,499,038	4,065,631	54,842,746	6,282,749	4,374,828	79,071,867
31	Exports .....	-	-	-	-	32,750,995	10,949,903	-	43,700,898
32	Other deliveries .....	-	-	-	-	236,579	-	5,255	241,834
33	Total net deliveries (30 + 31 + 32) .....	6,765	110	9,499,038	4,065,631	87,830,320	17,232,652	4,380,083	123,014,599
34	Delivered to storage .....	-	-	-	38,231	273,694	-	-	311,925
35	Line pack fluctuation .....	-	-	-	- 3,160	- 14,073	46,410	-	29,177
36	Gas used in system .....	121	-	31,105	179,654	4,093,495	796,669	-	5,101,044
37	Line losses and unaccounted for .....	3,176	-	33,110	396,821	1,392,398	203,405	- 310	2,028,600
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	10,062	110	9,563,253	4,677,177	93,575,834	18,279,136	4,379,773	130,485,345

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

January 1967

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
January 1967:			
Daily average .....	2,790,451	2,550,705	3,978,275
Maximum(1) .....	3,039,856	...	...
Minimum(1) .....	2,542,371	...	...
Exports maximum(1) .....	1,505,524	...	1,505,524
January 1966:			
Daily average .....	2,658,805	2,390,521	3,659,006
Maximum(1) .....	2,834,533	...	...
Minimum(1) .....	2,489,158	...	...
Year to date 1967:			
Daily average .....	2,790,451	2,550,705	3,978,275
Maximum(1) .....	3,039,856	...	...
Minimum(1) .....	2,542,371	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	75,899,064	...	..
Ton-miles (millions) .....	1,730	...	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	8,226,702	..	..
End of month (Mcf.) .....	8,272,666	..	..
Operating revenues .....	..	\$56,904,573(2)	..

(1) Non-coincident.

(2) Estimated.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1967

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	23,182	194,168
Deliveries to ultimate customers .....	25,821	172,954
Line pack fluctuations .....	-	-
Gas used in system .....	-	3,862
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 2,639	17,352
Total disposition .....	23,182	194,168
Daily average sendout .....	747	6,263
Revenues .....	31,730	283,908(1)

(1) Estimated.

TABLE 6. Sales of Natural Gas

No.		January 1967			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
<b>Residential:</b>					
1	New Brunswick .....	100	1,998	4,454	13,955
2	Quebec .....	87,565	204,629	1,580,948	2,262,109
3	Ontario .....	515,859(1)	654,388	13,567,076	15,920,451
4	Manitoba .....	92,668	95,410	2,882,300	2,446,781
5	Saskatchewan .....	105,094	109,434	3,088,442	2,050,671
6	Alberta .....	235,885	242,074	7,187,077	3,530,447
7	British Columbia .....	156,376	176,683	2,847,987	4,138,927(1)
8	Canada .....	1,193,547	1,484,616	31,158,284	30,363,341
<b>Industrial:</b>					
9	New Brunswick .....	-	-	-	-
10	Quebec .....	-	2,383	1,254,983	931,146
11	Ontario .....	-	7,115	11,551,624	7,166,006
12	Manitoba .....	-	281	1,086,482	371,014
13	Saskatchewan .....	-	572	2,892,768	808,926
14	Alberta .....	-	551	9,522,368	1,825,333
15	British Columbia .....	-	203	3,110,563	1,294,765(1)
16	Canada .....	-	11,105	29,418,788	12,397,190
17	Firm .....	-	10,581	25,353,546	10,750,726
18	Interruptible .....	-	524	4,065,242	1,646,464
<b>Commercial:</b>					
19	New Brunswick .....	-	58	2,311	4,666
20	Quebec .....	-	9,968	495,060	612,862
21	Ontario .....	-	56,618	6,690,686	6,194,682
22	Manitoba .....	-	8,506	1,953,826	1,302,802
23	Saskatchewan .....	-	14,818	1,746,412	885,803
24	Alberta .....	-	27,375	6,042,367	3,379,551
25	British Columbia .....	-	23,262	1,564,133	1,763,676(1)
26	Canada .....	-	140,605	18,494,795	14,144,042
<b>Total sales:</b>					
27	New Brunswick .....	-	2,056	6,765	18,621
28	Quebec .....	-	216,980	3,330,991	3,806,117
29	Ontario .....	-	718,121	31,809,386	29,281,139
30	Manitoba .....	-	104,197	5,922,608	4,120,597
31	Saskatchewan .....	-	124,824	7,727,622	3,745,400
32	Alberta .....	-	270,000	22,751,812	8,735,331
33	British Columbia .....	-	200,148	7,522,683	7,197,368(1)
34	Canada .....	-	1,636,326	79,071,867	56,904,573

(1) Estimated.

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

No.		January 1967		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue(1)
	No.	Mcf.	\$	
1	Domestic .....	14,035	81,728	148,326
2	Industrial .....	38	838	862
3	Commercial .....	2,645	96,909	81,223
4	Totals .....	16,718	179,475	230,411

(1) Estimated.



TABLE 6. Sales of Natural Gas

		January 1966				
Sales per customer	Revenue per Mcf.	Customers		Gas sold	Revenue	No.
		Space heating	Total			
Mcf.	\$	No.		Mcf.	\$	
2.2	3.13	100	2,135	8,601	22,597	1
7.7	1.43	83,659	206,554	1,692,161	2,392,553	2
20.7	1.17	484,669(1)	634,233	12,205,617	14,457,854	3
30.2	0.85	84,416	87,464	2,592,131	2,201,673	4
28.2	0.66	97,435(1)	101,435	3,079,359	2,015,072	5
29.7	0.49	228,905(1)	234,925	8,417,526	4,001,516	6
16.1	1.45	144,653(1)	166,007	2,904,703	3,429,416	7
21.0	0.97	1,123,837	1,432,753	30,900,098	28,520,681	8
-	-	-	-	-	-	9
527	0.74	-	2,336	1,292,032	960,196	10
1,624	0.62	-	6,757	8,814,460	5,635,469	11
3,866	0.34	-	266	975,644	320,958	12
5,057	0.28	-	806	2,842,463	731,818	13
17,282	0.19	-	570	8,840,647	1,581,682	14
15,323	0.42(1)	-	868	3,929,706	1,715,476	15
2,649	0.42	-	11,603	26,694,952	10,945,599	16
			11,129	22,947,710	9,340,553	17
			474	3,747,242	1,605,046	18
39.8	2.02	-	-	-	-	19
49.7	1.24	-	9,880	449,185	572,167	20
118.2	0.93	-	53,039	5,485,767	5,117,532	21
229.7	0.67	-	7,920	1,764,219	1,170,809	22
117.9	0.51	-	13,445	1,595,651	843,303	23
220.7	0.56	-	26,436	6,149,343	2,312,904	24
67.2	1.13	-	21,332	1,066,937	1,122,547	25
131.5	0.76	-	132,052	16,511,102	11,139,262	26
3.3	2.75	-	2,135	8,601	22,597	27
15.3	1.14	-	218,770	3,433,378	3,924,916	28
44.3	0.92	-	694,029	26,505,844	25,210,855	29
56.8	0.70	-	95,650	5,331,994	3,693,440	30
61.9	0.48	-	115,686	7,517,473	3,590,193	31
84.3	0.38	-	261,931	23,407,516	7,896,102	32
37.6	0.96	-	188,207	7,901,346	6,267,439	33
48.3	0.72	-	1,576,408	74,106,152	50,605,542	34

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

January 1967				
Customers		Manufactured gas		No.
No.		Gas sold	Revenue	
		Mcf.	\$	
2,000		10,336	14,164	1
29		46,588	16,428	2
586		13,667	15,908	3
2,615		70,591	46,510	4

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

	January 1967			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick .....	4,454	-	2,311	6,765
Quebec .....	1,594,798	1,266,236	499,344	3,360,378
Ontario .....	13,645,870	11,616,068	6,728,389	31,990,327
Manitoba .....	2,909,640	1,096,243	1,975,123	5,981,006
Saskatchewan .....	3,105,210	2,908,474	1,755,894	7,769,578
Alberta .....	7,707,817	10,416,313	6,100,720	24,224,850
British Columbia .....	3,010,390	3,272,429	1,648,777	7,931,596
Canada .....	31,978,179	30,575,763	18,710,558	81,264,500

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

	January 1967						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports .....	61,797	362,189	7,178,954	3,045,763	34,806,880	45,455,583	45,455,583
Imports .....	-	4,359,415	-	16,674	-	4,376,089	4,376,089

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

	January 1967	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals .....	157,997	32,170

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

January 1967

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg .....	61,367	-
Ontario - Cornwall .....	360,029	-
Niagara Falls .....	-	1,684,057
Ojibway .....	-	2,679,186
Total Ontario .....	360,029	4,363,243
Manitoba - Emerson .....	7,129,051	-
Alberta - Aden .....	1,811,996	-
Carway .....	1,234,698	-
Coutts .....	24	16,530
Total Alberta .....	3,046,718	16,530
British Columbia - Kingsgate - U.S.A. District V South(1)	15,949,375	-
Other U.S.A. ....	4,655,700	-
Huntingdon .....	12,498,658	-
Total British Columbia .....	33,103,733	-
Canada - January 1967 .....	43,700,898	4,379,773
January 1966 .....	38,644,552	3,219,680
Year to date - 1967 .....	43,700,898	4,379,773
1966 .....	38,644,552	3,219,680
Value - 1967 .....	9,969,824	3,857,312
1966 .....	9,792,418	1,940,564

(1) California, Nevada, Arizona.

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