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GAS UTILITIES
(Transport and Distribution Systems)

SEPTEMBER 1966

During September 1966 field gathering systems and processing plants delivered to gas utilities 78,002,130 Mcf. of natural gas. The transport systems accounted for 60,491,635 Mcf. and the distribution systems 17,510,495 Mcf. Natural gas recovered from storage was 73,157 Mcf. The disposition of the gas utilities supply is shown in the following table.

Disposition	Volume '000 Mcf.	% of total supply	% increase over Sept, 1965	Revenue \$'000	% of total revenue
Ultimate customers	37,052	44.9	4.9	20,697	71.9
Exports	31,229	37.9	- 0.2	8,098	28.1
Losses, deliveries to storage, cyclical billing adjustments	14,167	17.2	...	...	...
Totals	82,448	100.0	1.3	28,795	100.0

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas amounted to 58.0 billion commodity (Mcf) miles (1,345 million ton miles) during September 1966 compared with 58.1 billion (1,325 million ton miles) last year. The daily average deliveries of gas utilities amounted to 2.5 million Mcf.

Alberta natural gas utilities receipts totalled 62.2 billion cubic feet; of this 16.3 per cent was sold to ultimate customers in Alberta, 14.6 per cent in Ontario, 2.0 per cent in Saskatchewan, 4.2 per cent in Quebec, 0.5 per cent in Manitoba and 1.5 per cent in British Columbia. Exports accounted for 39.7 per cent while the remaining 21.2 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 September 1966 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 Sept. 1965	Revenue \$'000	% of sales revenue	Number of customers '000
Residential	5,205	14.0	- 12.8	6,816	32.9	1,437
Industrial	27,417	74.0	10.5	10,225	49.4	11
Commercial	4,430	12.0	- 2.2	3,656	17.7	133
Totals	37,052	100.0	4.9	20,697	100.0	1,581

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.

Industry Division

December 1966
6503-509

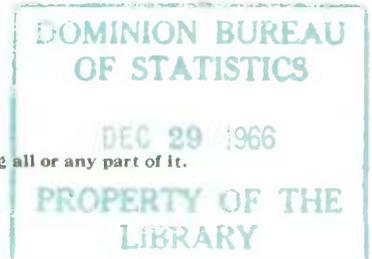


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

September 1966

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	6,543	-	799,545
2b	Processing plants	-	-	-
3	Total (1 + 2)	6,543	-	799,545
4	Imports	-	-	4,367,493
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	6,543	-	5,167,038
7	Received from storage	-	-	57,325
9	Total supply of gas utilities (6 + 7)	6,543	-	5,224,363
	Transfers from:			
11	Other provinces	-	2,707,823	20,867,631
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	2,682,906	26,099,198
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,543	5,390,729	52,191,192
	<u>Disposition</u>			
	Sales:			
20	Residential	2,757	389,664	2,025,956
21	Industrial	-	2,068,310	9,825,300
22	Commercial	1,109	136,958	2,169,125
30	Total sales (20 + 21 + 22)	3,866	2,594,932	14,020,381
31	Exports	-	22,544	209,810
32	Other deliveries	-	-	123
33	Total net deliveries (30 + 31 + 32)	3,866	2,617,476	14,230,314
34	Delivered to storage	-	-	6,191,202
35	Line pack fluctuation	-	2,236	8,205
36	Gas used in system	39	1,121	1,779,664
37	Line losses and unaccounted for	2,638	86,990	1,174,786
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,543	2,707,823	23,384,171
	Transfers to:			
40	Other provinces	-	-	2,707,823
41	Distribution by transport (primary)	-	2,682,906	18,774,543
42	Other gas utilities	-	-	7,324,655
49	Total disposition (39 + 40 + 41 + 42)	6,543	5,390,729	52,191,192

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	10,462,945	9,199,677	8,796,207	6,940,111	7,397,472
1b	Processing plants	73,537,156	64,527,919	69,172,869	63,325,361	61,744,553
2	By distribution systems:					
2a	Fields	15,425,563	10,866,000	11,156,653	9,455,473	6,231,761
2b	Processing plants	12,687,509	10,993,992	11,315,242	10,441,356	9,991,217
3	Total (1 + 2)	112,113,173	95,587,588	100,440,971	90,162,301	85,365,003
4	Imports	3,219,680	2,861,093	3,041,015	3,917,293	4,011,532
5	Other receipts(1)	2,357	- 564	1,001	- 1,960	- 313
6	Total net receipts (3 + 4 + 5)	115,335,210	98,448,117	103,482,987	94,077,634	89,376,222
7	Received from storage	9,757,678	6,568,074	3,027,128	1,037,720	288,631
9	Total supply of gas utilities (6 + 7)	125,092,888	105,016,191	106,510,115	95,115,354	89,664,853
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	1,239,865	667,774	614,077	552,919	1,004,321
13	Other gas utilities	58,643,485	49,635,064	51,555,605	45,708,482	43,666,041
19	Total gross receipts (9 + 11 + 12 + 13) ...	184,976,238	155,319,029	158,679,797	141,376,755	134,335,258
	<u>Disposition</u>					
	Sales:					
20	Residential	30,900,098	30,127,488	24,823,276	19,927,158	14,299,351
21	Industrial	26,694,952	25,119,783	28,100,115	26,663,822	26,766,715
22	Commercial	16,511,102	15,985,229	13,556,267	11,151,731	8,688,712
30	Total sales (20 + 21 + 22)	74,106,152	71,232,500	66,479,658	57,742,711	49,754,778
31	Exports	38,644,552	34,761,484	38,020,917	34,604,102	34,965,898
32	Other deliveries	258,781	266,370	265,730	230,378	182,508
33	Total net deliveries (30 + 31 + 32)	113,009,485	106,260,354	104,766,305	92,577,191	84,903,184
34	Delivered to storage	419,697	813,407	- 197,114	2,974,437	6,112,931
35	Line pack fluctuation	96,608	- 62,730	61,210	- 158,166	- 52,916
36	Gas used in system	4,998,364	4,409,579	4,441,104	4,082,791	4,208,036
37	Line losses and unaccounted for	6,568,734	- 6,404,419	- 2,561,390	- 4,360,899	- 5,506,382
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	125,092,888	105,016,191	106,510,115	95,115,354	89,664,853
	Transfers to:					
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	43,778,424	37,511,726	39,030,411	35,065,430	33,292,332
42	Other gas utilities	16,104,926	12,791,112	13,139,271	11,195,971	11,378,073
49	Total disposition (39 + 40 + 41 + 42)	184,976,238	155,319,029	158,679,797	141,376,755	134,335,258

(1) Includes peak shaving and enrichment.
r Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

June	July	August	September	October	November	December	Year to date		No.
							1966	1965 ^F	
Mcf.									
5,281,175	4,243,876	4,390,057	5,040,561				61,752,081	68,693,702	1a
56,187,196	57,490,254	57,565,422	55,451,074				559,001,804	519,894,321	1b
6,646,115	6,014,795	6,637,168	7,557,907				79,991,435	63,360,528	2a
9,125,482	9,289,844	9,974,028	9,952,588				93,771,258	92,905,302	2b
77,239,968	77,038,769	78,566,675	78,002,130				794,516,578	744,853,853	3
3,860,984	3,949,896	4,870,815	4,371,061				34,103,369	9,107,912	4
5,664	639	3,143	1,616				11,583	359,513	5
81,106,616	80,989,304	83,440,633	82,374,807				828,631,530	754,321,278	6
- 86,850	43,835	402,329	73,157				21,111,702	25,747,392	7
81,019,766	81,033,139	83,842,962	82,447,964				849,743,232	780,068,670	9
...	...	...	...				...	...	11
1,992,557	2,784,770	3,105,325	3,592,333				15,553,941	7,488,216	12
39,477,920	39,366,605	41,967,126	41,181,554				411,201,925	375,778,863	13
122,490,243	123,184,514	128,915,413	127,221,851				1,276,499,098	1,163,335,749	19
8,053,877	4,351,348	3,734,832	5,205,451				141,422,879	135,886,408	20
25,648,428	22,604,434	25,670,386	27,416,514				234,685,149	204,614,795	21
4,911,226	3,145,706	3,175,375	4,429,745				81,555,093	72,221,592	22
38,613,531	30,101,488	32,580,593	37,051,710				457,663,121	412,722,795	30
32,785,690	33,789,120	33,297,256	31,229,018				312,098,037	297,407,257	31
175,691	170,419	216,909	189,788				1,956,574	1,746,492	32
71,574,912	64,061,027	66,094,758	68,470,516				771,717,732	711,876,544	33
10,136,945	13,046,056	11,966,560	7,165,317				52,438,236	41,892,264	34
- 205,023	227,197	- 477,137	325,149				- 245,808	176,458	35
3,488,423	3,719,203	3,937,572	3,701,220				36,986,292	32,564,099	36
- 3,975,491	- 20,344	2,321,209	2,785,762				- 11,153,220	- 6,440,695	37
81,019,766	81,033,139	83,842,962	82,447,964				849,743,232	780,068,670	39
...	...	...	...				...	...	40
29,468,374	28,704,303	31,239,547	31,353,132				309,443,679	278,575,662	41
12,002,103	13,447,072	13,832,904	13,420,755				117,312,187	104,691,417	42
122,490,243	123,184,514	128,915,413	127,221,851				1,276,499,098	1,163,335,749	49

... Not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

September 1966

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
September 1966:			
Daily average	2,086,072	1,235,057	2,521,194
Maximum(1)	2,351,530	...	...
Minimum(1)	1,257,664	...	...
Exports maximum(1)	1,223,177	...	1,223,177
September 1965:			
Daily average	1,974,445	1,177,183	2,421,265
Maximum(1)	2,219,478	...	...
Minimum(1)	1,446,100	...	...
Year to date 1966:			
Daily average	2,276,710	1,676,422	3,018,886
Maximum(1)	2,834,533	...	...
Minimum(1)	1,257,664	...	...
Commodity miles:			
Mcf. miles (thousands)	58,978,718	..	..
Ton-miles (millions)	1,345	..	..
Line pack:			
Beginning of month (Mcf.)	7,363,522	..	..
End of month (Mcf.)	7,661,709	..	..
Operating revenues .....	..	\$20,697,482(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

September 1966

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	60,090	73,421
Deliveries to ultimate customers	58,986	61,228
Line pack fluctuations	-	- 600
Gas used in system	600	795
Metering difference, line losses, cyclical billing adjustments and unaccounted for	504	11,998
Total disposition	60,090	73,421
Daily average sendout	2,003	2,447
Revenues	\$29,176	\$99,844(1)

(1) Estimated.

TABLE 6. Sales of Natural Gas

No.		September 1966			
		Customers		Gas sold	Revenue
		Space heating	Total		
	No.		Mcf.	\$	
	Residential:				
1	New Brunswick	100	2,015	2,757	9,427
2	Quebec	82,462	200,715	389,664	887,281
3	Ontario	489,999	635,915	2,025,956	2,891,644
4	Manitoba	88,866	91,766	281,290	361,724
5	Saskatchewan	96,981	100,987	397,652	487,952
6	Alberta	229,916	235,575	1,438,483	1,122,371
7	British Columbia	149,485	170,480	669,649	1,056,036(1)
8	Canada	1,137,809	1,437,453	5,205,451	6,816,435
	Industrial:				
9	New Brunswick		-	-	-
10	Quebec		2,345	2,068,310	922,969
11	Ontario		6,781	9,825,300	5,063,734
12	Manitoba		280	759,115	235,510
13	Saskatchewan		559	2,476,665	607,444
14	Alberta		747	7,437,357	1,367,832
15	British Columbia		268	4,849,767	2,027,203(1)
16	Canada		10,980	27,416,514	10,224,692
17	Firm		10,467	21,264,607	7,812,523
18	Interruptible		513	6,151,907	2,412,169
	Commercial:				
19	New Brunswick		53	1,109	2,506
20	Quebec		9,567	136,958	205,020
21	Ontario		53,328	2,169,125	2,055,987
22	Manitoba		8,089	202,714	162,690
23	Saskatchewan		13,519	229,613	157,283
24	Alberta		26,021	1,256,658	540,014
25	British Columbia		22,146	433,568	532,855(1)
26	Canada		132,723	4,429,745	3,656,355
	Total sales:				
27	New Brunswick		2,068	3,866	11,933
28	Quebec		212,627	2,594,932	2,015,270
29	Ontario		696,024	14,020,381	10,011,365
30	Manitoba		100,135	1,243,119	759,924
31	Saskatchewan		115,065	3,103,930	1,252,679
32	Alberta		262,343	10,132,498	3,030,217
33	British Columbia		192,894	5,952,984	3,616,094
34	Canada		1,581,156	37,051,710	20,697,482

(1) Estimated.

... Figures not appropriate or not applicable.

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

No.		September 1966		
		Liquefied petroleum gases		
		Customers	Gas sold	Revenue(1)
	No.	Mcf.	\$	
1	Domestic	13,728	31,249	53,717
2	Industrial	52	2,653	2,733
3	Commercial	2,459	27,326	43,394
4	Totals	16,239	61,228	99,844

(1) Estimated.

TABLE 6. Sales of Natural Gas

September 1966		September 1965				No.
Sales per customer Mcf.	Revenue per Mcf. \$	Customers		Gas sold Mcf.	Revenue \$	
		Space heating No.	Total			
1.37	3.42	100	2,216	3,773	12,816	1
1.94	2.28	79,641	204,396	334,507	921,285	2
3.19	1.43	465,728	613,614	2,019,881	2,883,231	3
3.07	1.29	79,826	83,076	440,734	473,286	4
3.94	1.23	90,744	90,744	444,732	484,939	5
6.11	0.78	222,490	228,482	1,929,220	1,302,497	6
3.93	1.58	138,029	159,650	796,326	1,265,344	7
3.62	1.31	1,076,558	1,382,178	5,969,173	7,343,398	8
-	-	-	-	-	-	9
882	0.45	-	2,319	1,975,074	878,829	10
1,449	0.52	-	6,512	8,786,995	4,548,744	11
2,711	0.31	-	259	1,116,520	313,179	12
4,431	0.25	-	542	2,328,718	496,654	13
9,956	0.18	-	746	7,203,821	1,323,763	14
18,096	0.42	-	865	3,405,684	1,133,792	15
2,497	0.49	-	11,243	24,816,812	8,694,961	16
2,032	0.37	-	10,790	19,428,078	6,721,448	17
11,992	0.39	-	453	5,388,734	1,973,513	18
20.9	2.26	-	-	-	-	19
14.3	1.50	-	9,547	129,994	173,175	20
40.7	0.95	-	49,894	1,912,348	1,840,292	21
25.1	0.80	-	7,305	308,367	233,873	22
17.0	0.68	-	12,275	195,858	145,812	23
48.3	0.43	-	25,238	1,740,936	705,896	24
19.6	1.23	-	20,308	242,000	304,921	25
33.4	0.83	-	124,567	4,529,503	3,403,969	26
1.9	3.09	-	2,216	3,773	12,816	27
12.2	0.78	-	216,262	2,439,575	1,973,289	28
20.1	0.71	-	670,020	12,719,224	9,272,267	29
12.4	0.61	-	90,640	1,865,621	1,020,338	30
27.0	0.40	-	103,561	2,969,308	1,127,405	31
38.6	0.30	-	254,466	10,873,977	3,332,156	32
30.9	0.61	-	180,823	4,444,010	2,704,057	33
23.4	0.56	-	1,517,988	35,315,488	19,442,328	34

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

September 1966				No.
Manufactured gas				
Customers	Gas sold	Revenue		
No.	Mcf.	\$		
2,050	7,167	12,601		1
29	39,059	2,248		2
576	12,760	14,327		3
2,655	58,986	29,176		4

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

	September 1966			
	Residential	Industrial	Commercial	Total
	Mcf.			
Sales:				
New Brunswick	2,757	-	1,109	3,866
Quebec	392,772	2,084,589	138,048	2,615,409
Ontario	2,038,340	9,884,348	2,180,934	14,103,622
Manitoba	283,562	764,807	204,930	1,253,299
Saskatchewan	399,811	2,490,112	230,859	3,120,782
Alberta	1,559,581	8,002,718	1,370,323	10,932,622
British Columbia	714,411	5,174,684	462,168	6,351,263
Canada	5,391,234	28,401,258	4,588,371	38,380,863

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

	September 1966						
	Quebec	Ontario	Manitoba	Alberta	British Columbia	Total	Year to date total
	Mcf.						
Exports	22,657	211,279	5,519,652	2,478,543	24,363,620	32,595,751	324,511,665
Imports	-	4,405,265	-	3,568	-	4,408,833	34,372,804

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

	September 1966	
	Liquefied petroleum gases	Manufactured gas
	Mcf.	
Totals	48,089	29,583

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

September 1966

Province and customs port	Exports	Imports
	Mcf.	
Quebec - Phillipsburg	22,544	-
Ontario - Cornwall	209,810	-
Niagara Falls	-	2,582,114
Ojibway	-	1,785,379
Total Ontario	209,810	4,367,493
Manitoba - Emerson	5,492,191	-
Alberta - Aden	1,595,050	-
Carway	911,029	-
Coutts	31	3,568
Total Alberta	2,506,110	3,568
British Columbia - Kingsgate - U.S.A. District V South(1)	12,829,533	-
Other U.S.A.	2,543,122	-
Huntingdon	7,625,708	-
Total British Columbia	22,998,363	-
Canada - 1966	31,229,018	4,371,061
1965	31,294,679	1,564,301
Year to date - 1966	312,098,037	34,103,369
1965	297,407,102	9,107,912
Value - 1966	8,097,889	1,949,418
1965	8,196,305	599,000

(1) California, Nevada, Arizona.

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