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GAS UTILITIES

(Transport and Distribution Systems)

DECEMBER 1965(1)

For the twelve-month period January to December 1965, total net deliveries increased 9.0 per cent to 980,183,063 Mcf. from 899,444,542 Mcf. last year. Total net deliveries amounted to 2,685,433 Mcf./day compared with 2,470,634 Mcf./day a year ago. Exports for the twelve months of 1965 totalled 404,709,025 Mcf. compared with 392,239,429 Mcf. in 1964, up 3.2 per cent.

In December 1965 field gathering systems and processing plants delivered to gas utilities 103,726,125 Mcf. of natural gas. The transport systems accounted for 79,957,409 Mcf. and the distribution systems 23,768,716 Mcf. Natural gas recovered from storage was 4,218,670 Mcf. The total supply of gas utilities amounted to 111,799,075 Mcf., 2.7 per cent higher than in December 1964. Of the total supply, 64,138,082 Mcf. were sold to ultimate customers in Canada, an increase of 8.5 per cent. Exports increased 2.2 per cent to 37,514,400 Mcf. from 36,713,903 Mcf. last year. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 70.3 billion commodity (Mcf.) miles (1,603 million ton-miles) during December 1965 compared with 67.9 billion (1,549 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 3.3 million Mcf. Total commodity (Mcf.) miles for the year 1965 were 743,589,311,000 (16,954 million ton-miles) compared with 671,452,354,000 (15,309 million ton-miles) last year.

Utility receipts of natural gas produced in Alberta during December 1965 totalled 83.1 billion cubic feet; of this, 22.6 per cent was sold to ultimate customers in Alberta, 18.7 per cent in Ontario, 5.0 per cent in Manitoba, 3.8 per cent in Quebec, 3.6 per cent in Saskatchewan and 1.4 per cent in British Columbia. Exports accounted for 34.7 per cent while the remaining 10.2 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 and delivered to storage is considered as having originated or terminated in the province where the storage is located.

All gas volumes 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 and exports containing 1,000 B.T.U.'s per cubic foot are given separately in Tables 4 and 5 in the companion publication "Sales of Manufactured and Natural Gas", Catalogue number 45-005.

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 26-006 gives the Supply and Disposition of Natural Gas by Source.

(1) Contains several revised figures (see tables).

Industry Division

March 1966
6511-509

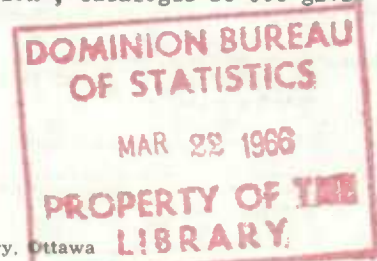


TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province

December 1965

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	9,595	-	1,553,517
2b	Processing plants	-	-	-
3	Total (1 + 2)	9,595	-	1,553,517
4	Imports	-	-	3,838,820
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	9,595	-	5,392,337
7	Received from storage	-	-	3,286,929
9	Total supply of gas utilities (6 + 7)	9,595	-	8,679,266
	<u>Transfers from:</u>			
11	Other provinces	-	3,254,684	22,689,240
12	Distribution to transport (primary)	-	-	71,695
13	Other gas utilities	-	3,254,684	28,313,676
19	Total gross receipts (9 + 11 + 12 + 13) ...	9,595	6,509,368	59,753,877
	<u>Disposition</u>			
	<u>Sales:</u>			
20	Residential	6,034	1,303,894	9,526,263
21	Industrial	-	1,479,808	9,527,702
22	Commercial	-	352,807	4,638,590
30	Total sales (20 + 21 + 22)	6,034	3,136,509	23,692,555
31	Exports	-	-	355,455
32	Other deliveries	-	-	1,775
33	Total net deliveries (30 + 31 + 32)	6,034	3,136,509	24,049,785
34	Delivered to storage	-	-	381,775
35	Line pack fluctuation	-	1,591	11,961
36	Gas used in system	107	13,932	1,509,656
37	Line losses and unaccounted for	3,454	102,652	2,160,645
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,595	3,254,684	28,113,822
	<u>Transfers to:</u>			
40	Other provinces	-	-	3,254,684
41	Distribution by transport (primary)	-	3,254,684	19,788,375
42	Other gas utilities	-	-	8,596,996
49	Total disposition (39 + 40 + 41 + 42)	9,595	6,509,368	59,753,877

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

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

December 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	December 1964 ^F	No.
					Canada	
Mcf.						
-	-	8,980,613	317,405	9,298,018	9,845,885	1a
-	711,096	54,496,453	15,451,842	70,659,391	64,681,010	1b
-	1,610,777	9,010,099	29,838	12,213,826	13,025,173	2a
-	1,459,823	10,008,625	86,442	11,554,890	13,920,036	2b
-	3,781,696	82,495,790	15,885,527	103,726,125	101,472,104	3
-	-	13,212	-	3,852,032	1,652,287	4
2,248	-	-	-	2,248	132,527	5
2,248	3,781,696	82,509,002	15,885,527	107,580,405	103,256,918	6
-	323,684	608,057	-	4,216,670	5,588,243	7
2,248	4,105,380	83,117,059	15,885,527	111,799,075	108,845,161	9
34,239,282	38,666,059	-	20,761,109	...	...	11
-	492,836	-	-	564,531	1,992,860	12
4,488,694	3,648,034	4,646,359	7,947,707	52,299,154	53,000,676	13
38,730,224	46,912,309	87,763,418	44,594,343	164,662,760	163,838,697	19
1,883,183	2,919,978	5,797,687	2,719,875	24,156,914	23,930,709	20
1,032,613	2,624,430	8,562,345	4,013,139	27,240,037	22,945,566	21
1,357,500	1,144,189	4,463,402	784,643	12,741,131	12,251,385	22
4,273,296	6,688,597	18,823,434	7,517,657	64,138,082	59,127,660	30
6,324,309	-	2,612,195	28,222,441	37,514,400	36,713,903	31
-	-	262,352	-	264,127	261,908	32
10,597,605	6,688,597	21,697,981	35,740,098	101,916,609	96,103,471	33
-	85,859	225,546	-	693,180	951,544	34
- 495	- 10,438	14,325	- 61,609	- 44,665	384,017	35
722,627	1,578,773	120,800	710,602	4,656,497	4,154,047	36
232,553	189,366	1,631,239	257,545	4,577,454	7,252,082	37
11,552,290	8,532,157	23,689,891	36,646,636	111,799,075	108,845,161	39
22,689,240	34,239,282	59,427,168	-	...	...	40
4,488,694	3,648,034	1,545,993	7,763,529	40,489,309	40,464,741	41
-	492,836	3,100,366	184,178	12,374,376	14,528,795	42
38,730,224	46,912,309	87,763,418	44,594,343	164,662,760	163,838,697	49

... Figures not appropriate or not applicable.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965^r

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	9,488,717	8,507,072	9,392,957	8,204,226	7,801,248
1b	Processing plants	66,403,322	59,093,006	65,860,534	57,608,391	54,898,325
2	By distribution systems:					
2a	Fields	11,604,465	9,923,069	10,077,510	7,415,713	5,936,996
2b	Processing plants	13,300,648	11,946,834	12,503,035	10,194,599	9,069,845
3	Total (1 + 2)	100,797,152	89,469,981	97,834,036	83,422,929	77,706,414
4	Imports	135,283	315,150	206,733	1,168,255	1,644,387
5	Other receipts(1)	108,455	150,362	91,024	3,354	3,291
6	Total net receipts (3 + 4 + 5)	101,040,890	89,935,493	98,131,793	84,594,538	79,354,092
7	Received from storage	9,345,113	8,095,065	5,954,522	1,942,698	42,491
9	Total supply of gas utilities (6 + 7)	110,386,003	98,030,558	104,086,315	86,537,236	79,396,583
	Transfers from:					
11	Other provinces .....	.....	.....	.....	.....	.....
12	Distribution to transport (primary)	1,326,126	1,345,539	1,375,707	774,032	580,941
13	Other gas utilities	56,220,795	48,080,279	52,134,143	40,405,393	37,861,692
19	Total gross receipts (9 + 11 + 12 + 13)	167,932,924	147,456,376	157,596,165	127,716,661	117,839,216
	<u>Disposition</u>					
	Sales:					
20	Residential	30,391,290	28,283,381	24,596,812	20,719,219	11,394,382
21	Industrial	22,012,020	20,359,709	23,045,019	23,908,698	23,051,208
22	Commercial	15,018,273	13,669,054	12,962,171	10,858,428	6,045,386
30	Total sales (20 + 21 + 22)	67,421,583	62,312,144	60,604,002	55,486,345	40,490,976
31	Exports	36,599,820	33,845,506	37,040,549	31,942,619	31,144,131
32	Other deliveries	246,532	212,825	207,937	177,239	165,231
33	Total net deliveries (30 + 31 + 32)	104,267,935	96,370,475	97,852,488	87,606,203	71,800,338
34	Delivered to storage	493,946	502,380	638,140	1,750,751	8,469,650
35	Line pack fluctuation	43,367	255,996	34,978	18,698	- 176,112
36	Gas used in system	4,221,592	3,438,398	4,434,614	3,812,713	3,672,321
37	Line losses and unaccounted for	1,359,163	- 2,536,691	1,126,095	- 6,651,129	- 4,369,614
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	110,386,003	98,030,558	104,086,315	86,537,236	79,396,583
	Transfers to:					
40	Other provinces .....	.....	.....	.....	.....	.....
41	Distribution by transport (primary)	44,305,816	38,417,169	40,398,962	25,546,203	28,292,367
42	Other gas utilities	13,241,105	11,008,649	13,110,888	15,633,222	10,150,266
49	Total disposition (39 + 40 + 41 + 42)	167,932,924	147,456,376	157,596,165	127,716,661	117,839,216

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965^F

June	July	August	September	October	November	December	Year to date		No.
							1965 ^F	1964 ^F	
Mcf.									
6,474,340	6,376,006	6,797,399	5,651,737	6,439,373	9,040,454	9,298,018	93,471,547	84,354,030	1a
52,331,645	51,806,123	54,322,935	57,570,040	62,554,440	65,663,670	70,659,391	718,771,822	643,473,330	1b
5,177,581	3,491,278	3,694,485	6,039,431	7,293,154	9,990,750	12,213,826	92,858,258	80,649,607	2a
8,096,332	8,285,632	9,117,266	10,391,111	9,176,544	10,356,108	11,554,890	123,992,844	135,768,795	2b
72,079,898	69,959,039	73,932,085	79,652,319	85,463,511	95,050,982	103,726,125	1,029,094,471	944,245,762	3
1,289,500	1,395,725	1,388,578	1,564,301	1,241,378	3,544,449	3,852,032	17,745,771	9,641,684	4
1,233	548	762	484	2,330	5,095	2,248	369,186	333,127	5
73,370,631	71,355,312	75,321,425	81,217,104	86,707,219	98,600,526	107,580,405	1,047,209,428	954,220,573	6
119,657	48,165	60,644	139,037	1,218,003	3,563,684	4,218,670	34,747,749	27,179,191	7
73,490,288	71,403,477	75,382,069	81,356,141	87,925,222	102,164,210	111,799,075	1,081,957,177	981,399,764	9
...	...	...	...	...	...	...	...	...	11
535,949	589,442	632,003	328,477	336,721	547,063	564,531	8,936,531	21,951,778	12
31,465,957	34,692,241	35,717,237	37,201,126	39,944,593	48,009,889	52,299,154	516,032,499	454,290,500	13
107,492,194	108,685,160	111,731,309	118,885,744	128,206,536	150,721,162	164,662,760	1,606,926,207	1,457,642,042	19
6,729,973	4,211,328	3,590,850	5,969,173	11,082,391	16,185,076	24,156,914	187,310,789	163,625,731	20
23,076,483	21,694,574	22,650,272	24,816,812	25,845,333	26,968,751	27,240,037	284,668,916	257,402,331	21
3,759,779	2,837,709	2,541,289	4,529,503	6,649,055	9,424,740	12,741,131	101,036,518	83,475,326	22
33,566,235	28,743,611	28,782,411	35,315,488	43,576,779	52,578,567	64,138,082	573,016,223	504,503,388	30
32,546,331	30,910,360	32,083,107	31,294,834	34,233,078	35,554,290	37,514,400	404,709,025	392,239,429	31
188,888	169,046	185,302	193,492	200,381	246,815	264,127	2,457,815	2,701,725	32
66,301,454	59,823,017	61,050,820	66,803,814	78,010,238	88,379,672	101,916,609	980,183,063	899,444,542	33
6,447,425	9,020,808	8,734,870	5,834,294	2,714,203	869,179	693,180	46,168,826	35,515,628	34
- 315,085	- 44,961	85,770	273,807	114,247	304,267	- 44,665	550,307	683,907	35
2,986,078	3,237,199	3,388,473	3,372,711	3,791,588	4,064,850	4,656,497	45,077,034	30,126,023	36
- 1,929,584	- 632,586	2,122,136	5,071,515	3,294,946	8,546,242	4,577,454	9,977,947	15,629,664	37
73,490,288	71,403,477	75,382,069	81,356,141	87,925,222	102,164,210	111,799,075	1,081,957,177	981,399,764	39
...	...	...	...	...	...	...	...	...	40
23,808,795	24,178,548	25,689,117	27,938,685	30,835,854	37,328,695	40,489,309	387,229,520	330,493,410	41
10,193,111	11,103,135	10,660,123	9,590,918	9,445,460	11,228,257	12,374,376	137,739,510	145,748,868	42
107,492,194	106,685,160	111,731,309	118,885,744	128,206,536	150,721,162	164,662,760	1,606,926,207	1,457,642,042	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

December 1965

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	<u>Receipts</u>							
1	By transport systems:							
1a	Fields	-	-	-	8,980,613	317,405	...	9,298,018
1b	Processing plants	-	-	711,096	54,496,453	15,451,842	...	70,659,391
2	By distribution systems:							
2a	Fields	9,595	1,553,517	1,610,777	9,010,099	29,838	...	12,213,826
2b	Processing plants	-	-	1,459,823	10,008,625	86,442	...	11,554,890
3	Total (1 + 2)	9,595	1,553,517	3,781,696	82,495,790	15,885,527	...	103,726,125
4	Imports .....	...	...	...	...	...	3,852,032	3,852,032
5	Other receipts(1)	-	-	-	2,248	-	...	2,248
6	Total net receipts (3 + 4 + 5)	9,595	1,553,517	3,781,696	82,498,038	15,885,527	3,852,032	107,580,405
7	Received from storage	-	3,286,929	323,684	608,057	-	...	4,218,670
9	Total supply of gas utilities (6 + 7)	9,595	4,840,446	4,105,380	83,106,095	15,885,527	3,852,032	111,799,075
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	1,199,383	6,318,274	-	7,517,657
24	Alberta	-	-	-	18,810,222	-	13,212	18,823,434
25	Saskatchewan	-	-	3,682,232	3,006,365	-	-	6,688,597
26	Manitoba	-	-	126,971	4,146,325	-	-	4,273,296
27	Ontario	-	4,310,800	-	15,542,935	-	3,838,820	23,692,555
28	Quebec	-	-	-	3,136,509	-	-	3,136,509
29	New Brunswick	6,034	-	-	-	-	-	6,034
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,034	4,310,800	3,809,203	45,841,739	6,318,274	3,852,032	64,138,082
31	Exports	-	-	-	28,806,499	8,707,901	-	37,514,400
32	Other deliveries	-	-	-	264,127	-	-	264,127
33	Total net deliveries (30 + 31 + 32)	6,034	4,310,800	3,809,203	74,912,365	15,026,175	3,852,032	101,916,609
34	Delivered to storage	-	-	-	693,180	-	-	693,180
35	Line pack fluctuation	-	-	- 9,778	17,600	- 52,487	-	- 44,665
36	Gas used in system	107	20,146	142,360	3,868,588	625,296	-	4,656,497
37	Line losses and unaccounted for	3,454	509,500	163,595	3,614,362	286,543	-	4,577,454
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	9,595	4,840,446	4,105,380	83,106,095	15,885,527	3,852,032	111,799,075

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

TABLE 4. Operating Statistics: Natural Gas Utilities

December 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
December 1965:			
Daily average	2,516,249	2,068,970	3,309,993
Maximum(1)	2,684,636	...	...
Minimum(1)	2,289,114	...	...
Exports maximum(1)	1,270,371	...	1,270,371
December 1964:			
Daily average	2,489,634	1,907,344	3,130,807
Maximum(1)	3,010,975	...	...
Minimum(1)	2,175,567	...	...
Year to date 1965:			
Daily average	2,169,695	1,569,907	2,811,923
Maximum(1)	3,086,555	...	...
Minimum(1)	1,446,100	...	...
Commodity miles:			
Mcf. miles (thousands)	70,289,087	..	..
Ton-miles (millions)	1,603	..	..
Line pack:			
Beginning of month (Mcf.)	7,885,803	..	..
End of month (Mcf.)	7,847,374	..	..
Operating revenues .....	..	(\$)42,527,067	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

December 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	61,341	143,256
Deliveries to ultimate customers	63,280	112,394
Line pack fluctuations	-	3,480
Gas used in system	- 3,498	1,595
Metering difference, line losses, cyclical billing adjustments and unaccounted for	1,559	25,787
Total disposition	61,341	143,256
Daily average sendout	2,041	3,626
Revenues	(\$)41,477	(\$)210,290



TABLE 6. Exports and Imports to and from the United States

December 1965

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	355,455	-
Niagara Falls	-	2,155,601
Ojibway, Ontario	-	1,683,219
Emerson, Manitoba	6,324,309	-
Coutts, Alberta	125	13,212
Aden, Alberta	1,623,077	-
Carway, Alberta	988,993	-
Kingsgate, British Columbia - U.S.A. District V South(1)	13,990,302	-
Other U.S.A.	4,212,980	-
Huntingdon, British Columbia	10,019,159	-
Canada - 1965	37,514,400 ✓	3,852,032
1964	36,713,903	1,652,287 ^F

(1) California, Nevada, Arizona.

^F Revised figure.