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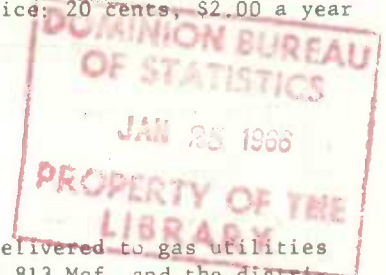
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GAS UTILITIES

(Transport and Distribution Systems)

OCTOBER 1965



During October 1965 field gathering systems and processing plants delivered to gas utilities 85,463,511 Mcf. of natural gas. The transport systems accounted for 68,993,813 Mcf. and the distribution systems 16,469,698 Mcf. Natural gas recovered from storage was 1,218,003 Mcf. The total supply of gas utilities amounted to 87,925,222 Mcf., 6.0 per cent higher than in October 1964. Of the total supply, 43,576,779 Mcf. were sold to ultimate customers in Canada, an increase of 13.4 per cent. Exports decreased slightly to 34,233,078 Mcf. from 34,477,599 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. For the twelve-month period ended October 1965 exports totalled 402,900,973 Mcf., while net deliveries amounted to 965,590,551 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 63.9 billion commodity (Mcf.) miles (1,457 million ton-miles) during October 1965 compared with 59.0 billion (1,345 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 2.6 million Mcf.

Alberta natural gas utility receipts totalled 68.9 billion cubic feet; of this, 19.3 per cent was sold to ultimate customers in Ontario, 19.0 per cent in Alberta, 3.7 per cent in Quebec, 3.0 per cent in Manitoba, 2.9 per cent in Saskatchewan and 1.3 per cent in British Columbia. Exports accounted for 38.3 per cent while the remaining 12.5 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.

Industry Division

January 1966
6511-509

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

October 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	6,993	-	822,198
2b	Processing plants	-	-	-
3	Total (1 + 2)	6,993	-	822,198
4	Imports	-	-	1,235,852
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	6,993	-	2,058,050
7	Received from storage	-	-	1,085,489
9	Total supply of gas utilities (6 + 7)	6,993	-	3,143,539
	Transfers from:			
11	Other provinces	-	2,651,409	21,920,892
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	2,651,409	24,321,347
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,993	5,302,818	49,385,778
	<u>Disposition</u>			
	Sales:			
20	Residential	4,139	727,333	4,102,706
21	Industrial	-	1,608,092	9,417,235
22	Commercial	-	203,710	2,478,025
30	Total sales (20 + 21 + 22)	4,139	2,539,135	15,997,966
31	Exports	-	-	264,599
32	Other deliveries	-	-	262
33	Total net deliveries (30 + 31 + 32)	4,139	2,539,135	16,262,827
34	Delivered to storage	-	-	1,981,077
35	Line pack fluctuation	-	11,019	- 34,426
36	Gas used in system	-	8,126	1,336,602
37	Line losses and unaccounted for	2,854	93,129	2,866,942
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,993	2,651,409	22,413,022
	Transfers to:			
40	Other provinces	-	-	2,651,409
41	Distribution by transport (primary)	-	2,651,409	17,686,279
42	Other gas utilities	-	-	6,635,068
49	Total disposition (39 + 40 + 41 + 42)	6,993	5,302,818	49,385,778

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

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

October 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	October 1964 ^r	No.
					Canada	
Mcf.						
-	-	6,325,070	113,086	6,438,156	7,270,025	1a
-	125,945	49,657,921	12,771,791	62,555,657	57,630,352	1b
-	1,068,784	5,377,497	17,682	7,293,154	6,351,906	2a
-	1,751,875	7,389,328	35,341	9,176,544	10,698,835	2b
-	2,946,604	68,749,816	12,937,900	85,463,511	81,951,118	3
-	-	5,526	-	1,241,378	157,257	4
2,330	-	-	-	2,330	2,490	5
2,330	2,946,604	68,755,342	12,937,900	86,707,219	82,110,865	6
-	19,763	112,751	-	1,218,003	855,110	7
2,330	2,966,367	68,868,093	12,937,900	87,925,222	82,965,975	9
30,914,309	33,957,777	2,679	18,608,728	...	...	11
-	336,721	-	-	336,721	1,398,275	12
2,382,011	1,838,240	3,131,295	5,620,291	39,944,593	38,662,447	13
33,298,650	39,099,105	72,002,067	37,166,919	128,206,536	123,026,697	19
807,378	1,142,883	3,031,139	1,266,813	11,082,391	9,634,677	20
861,238	2,544,977	7,674,847	3,738,944	25,845,333	23,444,058	21
585,333	620,818	2,396,293	364,876	6,649,055	5,360,711	22
2,253,949	4,308,678	13,102,279	5,370,633	43,576,779	38,439,446	30
5,966,217	-	2,539,023	25,463,239	34,233,078	34,477,599	31
-	-	200,119	-	200,381	187,566	32
8,220,166	4,308,678	15,841,421	30,833,872	78,010,238	73,104,611	33
-	421,060	312,066	-	2,714,203	1,890,915	34
- 10,590	- 6,821	58,065	97,000	114,247	403,009	35
635,645	1,335,854	77,688	397,673	3,791,588	2,382,704	36
150,526	- 51,615	15,027	218,083	3,294,946	5,184,736	37
8,995,747	6,007,156	16,304,267	31,546,628	87,925,222	82,965,975	39
21,920,892	30,916,988	52,566,505	-	...	...	40
2,382,011	1,838,240	766,540	5,511,375	30,835,854	27,118,053	41
-	336,721	2,364,755	108,916	9,445,460	12,942,669	42
33,298,650	39,099,105	72,002,067	37,166,919	128,206,536	123,026,697	49

... Figures not appropriate or not applicable.

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

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields	9,501,869	8,516,793	9,392,412	8,194,140	7,785,625
1b	Processing plants	66,414,486	59,104,199	65,873,223	57,618,477	54,913,948
2	By distribution systems:					
2a	Fields	11,599,671	9,923,069	10,077,510	7,415,713	5,936,996
2b	Processing plants	13,300,645	11,946,834	12,503,035	10,194,599	9,069,845
3	Total (1 + 2)	100,816,671	89,490,895	97,846,180	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)	101,060,409	89,956,407	98,143,937	84,594,538	79,354,092
7	Received from storage	9,325,261	8,080,872	5,932,988	1,942,698	42,491
9	Total supply of gas utilities (6 + 7)	110,385,670	98,037,279	104,076,925	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) ...	167,932,591	147,463,097	157,586,775	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	3,819,516	3,680,474
37	Line losses and unaccounted for	1,358,830	- 2,529,970	1,116,705	- 6,657,932	- 4,377,767
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	110,385,670	98,037,279	104,076,925	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)	167,932,591	147,463,097	157,586,775	127,716,661	117,839,216

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

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

June	July	August	September	October	November	December	Year to date		No.
							1965	1964 ^F	
Mcf.									
6,461,634	6,374,529	6,796,549	5,650,266	6,438,156			75,111,973	65,867,699	1a
52,344,351	51,807,600	54,323,785	57,571,356	62,555,657			582,527,082	520,640,241	1b
5,177,581	3,491,278	3,706,282	6,039,431	7,293,154			70,660,685	58,680,471	2a
8,096,332	8,285,632	9,105,469	10,391,111	9,176,544			102,070,046	109,701,531	2b
72,079,898	69,959,039	73,932,085	79,652,164	85,463,511			830,369,786	754,889,942	3
1,289,500	1,395,736	1,388,589	1,564,301	1,241,378			10,349,312	7,979,284	4
1,233	548	762	484	2,330			361,843	180,088	5
73,370,631	71,355,323	75,321,436	81,216,949	86,707,219			841,080,941	763,049,314	6
119,657	48,165	60,644	139,037	1,218,003			26,909,816	17,811,081	7
73,490,288	71,403,488	75,382,080	81,355,986	87,925,222			867,990,757	780,860,395	9
535,949	589,442	632,003	328,477	336,721			7,824,937	18,212,602	11
33,465,957	34,692,241	35,717,237	37,201,126	39,944,593			415,723,456	359,289,415	12
107,492,194	106,685,171	111,731,320	118,885,589	128,206,536			1,291,539,150	1,158,362,412	13
6,702,356	4,205,236	3,598,932	5,969,173	11,082,391			146,943,172	125,506,040	20
23,073,265	21,689,531	22,650,739	24,816,812	25,845,333			230,452,334	211,661,160	21
3,754,541	2,831,786	2,542,681	4,529,503	6,649,055			78,860,678	63,325,820	22
33,529,962	28,726,553	28,792,352	35,315,488	43,576,779			456,256,184	400,493,020	30
32,546,331	30,910,360	32,083,107	31,294,679	34,233,078			331,640,180	320,978,636	31
188,888	169,046	185,302	193,492	200,381			1,946,873	2,225,572	32
66,265,181	59,805,959	61,060,761	66,803,659	78,010,238			789,843,237	723,697,228	33
6,447,425	9,020,808	8,734,870	5,834,294	2,714,203			44,606,467	33,840,801	34
- 315,085	- 44,961	85,770	273,807	114,247			290,705	391,518	35
2,993,666	3,237,199	3,388,473	3,372,711	3,791,588			36,378,231	22,749,778	36
- 1,900,899	- 615,517	2,112,206	5,071,515	3,294,946			- 3,127,883	181,070	37
73,490,288	71,403,488	75,382,080	81,355,986	87,925,222			867,990,757	780,860,395	39
23,808,795	24,178,548	25,689,117	27,938,685	30,835,854			309,411,516	257,136,437	40
10,193,111	11,103,135	10,660,123	9,590,918	9,445,460			114,136,877	120,365,580	41
107,492,194	106,685,171	111,731,320	118,885,589	128,206,536			1,291,539,150	1,158,362,412	42
									49

^F Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

October 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	-	-	-	6,325,070	113,086	...	6,438,156
1b	Processing plants	-	-	125,945	49,657,921	12,771,791	...	62,555,657
2	By distribution systems:							
2a	Fields	6,993	822,198	1,068,784	5,377,497	17,682	...	7,293,154
2b	Processing plants	-	-	1,751,875	7,389,328	35,341	...	9,176,544
3	Total (1 + 2)	6,993	822,198	2,946,604	68,749,816	12,937,900	...	85,463,511
4	Imports .....	...	...	...	...	...	1,241,378	1,241,378
5	Other receipts(1)	-	-	-	2,330	-	...	2,330
6	Total net receipts (3 + 4 + 5)	6,993	822,198	2,946,604	68,752,146	12,937,900	1,241,378	86,707,219
7	Received from storage	-	1,085,489	19,763	112,751	-	...	1,218,003
9	Total supply of gas utilities (6 + 7)	6,993	1,907,687	2,966,367	68,864,897	12,937,900	1,241,378	87,925,219
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	894,521	4,476,112	-	5,370,633
24	Alberta	-	-	2,679	13,094,074	-	5,526	13,102,279
25	Saskatchewan	-	-	2,347,582	1,961,096	-	-	4,308,678
26	Manitoba	-	-	199,942	2,054,007	-	-	2,253,949
27	Ontario	-	1,437,401	-	13,324,713	-	1,235,852	15,997,966
28	Quebec	-	-	-	2,539,135	-	-	2,539,135
29	New Brunswick	4,139	-	-	-	-	-	4,139
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	4,139	1,437,401	2,550,203	33,867,546	4,476,112	1,241,378	43,576,779
31	Exports	-	-	-	26,403,310	7,829,768	-	34,233,078
32	Other deliveries	-	-	-	200,381	-	-	200,381
33	Total net deliveries (30 + 31 + 32)	4,139	1,437,401	2,550,203	60,471,237	12,305,880	1,241,378	78,010,238
34	Delivered to storage	-	-	421,060	2,293,143	-	-	2,714,203
35	Line pack fluctuation	-	-	7,299	29,899	77,049	-	114,247
36	Gas used in system	-	26,280	69,670	3,358,029	337,609	-	3,791,588
37	Line losses and unaccounted for	2,854	444,006	- 81,865	2,712,589	217,362	-	3,294,946
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,993	1,907,687	2,966,367	68,864,897	12,937,900	1,241,378	87,925,219

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

October 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
October 1965:			
Daily average	2,098,998	1,405,703	2,604,014
Maximum(1)	2,287,839	...	...
Minimum(1)	1,829,402	...	...
Exports maximum(1)	1,202,457	...	1,202,457
October 1964:			
Daily average	1,986,957 ^F	1,239,982	2,419,211 ^F
Maximum(1)	2,440,238	...	...
Minimum(1)	1,850,247	...	...
Year to date 1965:			
Daily average	2,108,723	1,500,843	2,744,900
Maximum(1)	3,086,555	...	...
Minimum(1)	1,446,100	...	...
Commodity miles:			
Mcf. miles (thousands)	63,900,294	..	..
Ton-miles (millions)	1,457	..	..
Line pack:			
Beginning of month (Mcf.)	7,485,406	..	..
End of month (Mcf.)	7,567,998	..	..
Operating revenues .....	..	(\$)26,536,664	..

(1) Non-coincident.

^F Revised figures.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

October 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	63,081	93,440
Deliveries to ultimate customers	61,093	70,314
Line pack fluctuations	-	364
Gas used in system	- 373	1,018
Metering difference, line losses, cyclical billing adjustments and unaccounted for	2,361	21,744
Total disposition	63,081	93,440
Daily average sendout	1,971	2,268
Revenues	(\$)41,080	(\$)143,506



TABLE 6. Exports and Imports to and from the United States
October 1965

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	264,599	-
Niagara Falls	-	-
Ojibway, Ontario	-	1,235,852
Emerson, Manitoba	5,966,217	-
Coutts, Alberta	237	5,526
Aden, Alberta	1,606,066	-
Carway, Alberta	932,720	-
Kingsgate, British Columbia - U.S.A. District V South(1)	12,531,210	-
Other U.S.A.	3,901,752	-
Huntingdon, British Columbia	9,030,277	-
Canada - 1965	34,233,078	1,241,378
1964	34,477,599 ^r	157,257 ^r

(1) California, Nevada, Arizona.
^r Revised figures.