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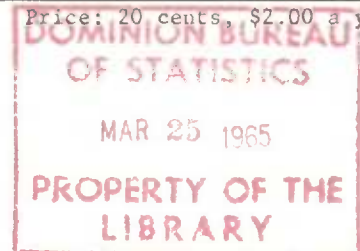
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GAS UTILITIES
(Transport and Distribution Systems)

NOVEMBER 1964



During November 1964 field gathering systems and processing plants delivered to gas utilities 87,883,716 Mcf. of natural gas. The transport systems accounted for 66,792,525 Mcf. and the distribution systems 21,091,191 Mcf. Natural gas received from storage was 3,779,867 Mcf. The total supply of gas utilities amounted to 91,694,208 Mcf., 10.1 per cent higher than in November 1963. Of the total supply, 44,888,338 Mcf. were sold to ultimate customers in Canada, an increase of 12.2 per cent. Exports rose 4.4 per cent to 34,512,407 Mcf. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and deliveries to storage. The distribution systems received from the transport systems 32,892,232 Mcf. of natural gas, an increase of 20.4 per cent. For the twelve-month period ended November 1964, exports totalled 391,362,714 Mcf., while net deliveries amounted to 892,763,249 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 58.8 billion commodity (Mcf.) miles during November compared with 52.2 billion last year. Ton-miles totalled 1,340 million for November 1964. The daily average deliveries of gas utilities amounted to 2.7 million Mcf.

Alberta natural gas utility receipts totalled 72.1 billion cubic feet; of this 14.2 per cent was sold to ultimate customers in Alberta, 12.3 per cent in Ontario, 3.0 per cent in Quebec, 2.3 per cent in Saskatchewan, 2.1 per cent in Manitoba and 1.0 per cent in British Columbia. 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.

Revenue for the natural gas utilities for the month was \$39,103,205 and for manufactured and liquefied petroleum gases systems \$213,963, giving a combined Gas Utilities total of \$39,317,168.

All gas volumes are given in cubic feet measured at 14.73 p.s.i.a. and 60°F; that is, without adjustments to a common B.T.U. base. Gas sales and exports in cubic feet containing 1,000 B.T.U.'s at 14.73 p.s.i.a. and 60°F 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 number 26-006 gives the Supply and Disposition of Natural Gas by Source.

Industry Division

March 1965
6511-509

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

November 1964

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields	-	-	-
1b	Processing plants	-	-	-
2	By distribution systems:			
2a	Fields	7,519	-	1,203,837
2b	Processing plants	-	-	-
3	Total (1 + 2)	7,519	-	1,203,837
4	Imports	-	-	-
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	7,519	-	1,203,837
7	Received from storage	-	-	3,225,719
9	Total supply of gas utilities (6 + 7)	7,519	-	4,429,556
	<u>Transfers from:</u>			
11	Other provinces	-	3,112,970	19,838,355
12	Distribution to transport (primary)	-	-	661,792
13	Other gas utilities	-	3,112,970	24,575,392
19	Total gross receipts (9 + 11 + 12 + 13) ...	7,519	6,225,940	49,505,095
	<u>Disposition</u>			
	<u>Sales:</u>			
20	Residential	5,177	985,990	5,469,754
21	Industrial	-	1,779,741	8,141,852
22	Commercial	-	239,284	2,756,888
30	Total sales (20 + 21 + 22)	5,177	3,005,015	16,368,494
31	Exports	-	-	274,237
32	Other deliveries	-	-	658
33	Total net deliveries (30 + 31 + 32)	5,177	3,005,015	16,643,389
34	Delivered to storage	-	-	277,896
35	Line pack fluctuation	-	3,213	- 18,201
36	Gas used in system	-	12,240	1,124,343
37	Line losses and unaccounted for	2,342	92,502	3,127,514
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,519	3,112,970	21,154,941
	<u>Transfers to:</u>			
40	Other provinces	-	-	3,112,970
41	Distribution by transport (primary)	-	3,112,970	18,530,140
42	Other gas utilities	-	-	6,707,044
49	Total disposition (39 + 40 + 41 + 42)	7,519	6,225,940	49,505,095

(1) Includes peak shaving and enrichment.

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

November 1964

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	November ^r 1963	No.
					Canada	
			Mcf.			
-	-	8,287,483	352,963	8,640,446	6,984,624	1a
-	-	46,802,473	11,349,606	58,152,079	52,661,596	1b
-	928,477	6,783,221	20,909	8,943,963	8,339,544	2a
-	2,127,561	9,965,760	53,907	12,147,228	12,924,318	2b
-	3,056,038	71,838,937	11,777,385	87,883,716	80,910,082	3
-	-	10,113	-	10,113	9,773	4
20,512	-	-	-	20,512	10,240	5
20,512	3,056,038	71,849,050	11,777,385	87,914,341	80,930,095	6
-	283,645	270,503	-	3,779,867	2,329,767	7
20,512	3,339,683	72,119,553	11,777,385	91,694,208	83,259,862	9
29,621,874	32,898,608	-	19,036,088	...	...	11
-	688,020	396,504	-	1,746,316	2,968,330	12
3,041,778	2,753,201	3,452,095	5,064,973	42,000,409	36,305,214	13
32,684,164	39,679,512	75,968,152	35,878,446	135,440,933	122,533,406	19
979,914	1,182,358	3,648,371	1,844,034	14,115,598	11,959,412	20
715,470	2,466,893	7,550,320	2,248,156	22,902,432	22,007,749	21
688,494	571,168	3,016,021	598,453	7,870,308	6,039,943	22
2,383,878	4,220,419	14,214,712	4,690,643	44,888,338	40,007,104	30
6,114,757	-	2,726,307	25,397,106	34,512,407	33,071,691	31
-	-	213,587	-	214,245	92,626	32
8,498,635	4,220,419	17,154,606	30,087,749	79,614,990	73,171,421	33
-	60,253	385,134	-	723,283	687,550	34
- 5,685	- 1,801	- 16,950	- 52,204	- 91,628	280,533	35
536,310	1,131,524	82,097	335,684	3,222,198	1,805,843	36
774,771	1,206,022	2,579,970	442,244	8,225,365	7,314,515	37
9,804,031	6,616,417	20,184,857	30,813,473	91,694,208	83,259,862	39
19,838,355	29,621,874	51,934,696	-	...	...	40
3,041,778	2,753,201	519,833	4,934,310	32,892,232	27,309,709	41
-	688,020	3,328,766	130,663	10,854,493	11,963,835	42
32,684,164	39,679,512	75,968,152	35,878,446	135,440,933	122,533,406	49

^r Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

No.		January	February	March	April	May	
				Mcf.			
	<u>Receipts</u>						
1	By transport systems:						
1a	Fields	8,082,197	7,536,571	8,123,028	7,079,847	5,997,558	
1b	Processing plants	59,356,924	55,783,590	57,861,379	52,875,619	48,477,588	
2	By distribution systems:						
2a	Fields	8,618,465	7,709,039	10,057,374	6,890,691	4,238,638	
2b	Processing plants	14,340,369	12,676,726	12,782,801	10,624,256	10,474,666	
3	Total (1 + 2)	90,397,955	83,705,926	88,824,582	77,470,413	69,188,450	
4	Imports	12,330	9,898	11,539	1,655,234	2,848,426	
5	Other receipts (1)	65,536	18,340	9,929	6,061	5,218	
6	Total net receipts (3 + 4 + 5)	90,475,821	83,734,164	88,846,050	79,131,708	72,042,094	
7	Received from storage	6,075,333	4,719,049	3,700,955	1,155,624	511,497	
9	Total supply of gas utilities (6 + 7)	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591	
	<u>Transfers from:</u>						
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	1,115,736	1,065,673	2,523,361	1,497,515	2,826,458	
13	Other gas utilities	45,981,851	43,510,890	44,137,604	36,752,124	30,505,887	
19	Total gross receipts (9 + 11 + 12 + 13) ...	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936	
	<u>Disposition</u>						
	<u>Sales:</u>						
20	Residential	26,037,617	22,076,532	20,845,693	18,366,182	10,050,433	
21	Industrial	20,146,835	18,948,525	20,767,171	21,562,713	21,454,147	
22	Commercial	12,098,782	10,226,998	10,091,415	8,849,161	5,137,351	
30	Total sales (20 + 21 + 22)	58,283,234	51,252,055	51,704,279	48,778,056	36,641,931	
31	Exports	36,341,974	34,210,271	34,637,621	32,295,319	31,550,953	
32	Other deliveries	241,750	211,370	390,420	807,823	507,228	
33	Total net deliveries (30 + 31 + 32)	94,866,958	85,673,696	86,732,320	81,881,198	68,700,112	
34	Delivered to storage	599,075	744,277	665,295	2,783,382	5,536,497	
35	Line pack fluctuation	- 35,828	10,537	- 80,392	92,806	- 14,974	
36	Gas used in system	2,671,670	2,645,654	2,832,444	2,495,544	1,806,775	
37	Line losses and unaccounted for	- 1,550,721	- 620,951	2,397,338	- 6,965,598	- 3,474,819	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	96,551,154	88,453,213	92,547,005	80,287,332	72,553,591	
	<u>Transfers to:</u>						
40	Other provinces .....	...	...	...	...	...
41	Distribution by transport (primary)	35,182,609	32,659,707	33,754,997	26,598,833	21,555,551	
42	Other gas utilities	11,914,978	11,916,856	12,905,968	11,650,806	11,776,794	
49	Total disposition (39 + 40 + 41 + 42)	143,648,741	133,029,776	139,207,970	118,536,971	105,885,936	

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1964

June	July	August	September	October	November	December	Year to date		No.
							1964	1963 ^F	
Mcf.									
5,362,513	4,554,284	5,508,523	6,353,153	7,270,025 ^r	8,640,446		74,508,145	64,655,704	1a
46,554,850	46,568,210	47,815,787	49,852,221	57,630,352 ^r	58,152,079		580,928,599	506,999,532	1b
3,387,048	2,828,550	3,148,243	5,450,517	6,351,906	8,943,963		67,624,434	64,279,355	2a
9,133,565	9,398,900	9,554,680	10,525,852	10,698,835	12,147,228		122,357,878	120,324,181	2b
64,437,976	63,349,944	66,027,233	72,181,743	81,951,118	87,883,716		845,419,056	756,258,772	3
826,445	852,674	858,444	746,085	157,258	10,113		7,988,446	6,810,664	4
2,506	5,381	60,558	4,069	2,490	20,512		200,600	195,459	5
65,266,927	64,207,999	66,946,235	72,931,897	82,110,866	87,914,341		853,608,102	763,264,895	6
125,708	117,570	120,999	429,236	855,110	3,779,869		21,590,948	20,270,232	7
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976	91,694,208		875,199,050	783,535,127	9
...	...	...	...	...	...		...	...	11
2,126,914	1,271,656	1,367,885	3,019,129	1,398,275	1,746,316		19,958,918	44,735,061	12
27,865,728	29,440,164	31,188,372	31,244,348	38,662,447	42,000,409		401,289,824	342,291,585	13
5,385,277	95,037,389	99,623,491	107,624,610	123,026,698	135,440,933		1,296,447,792	1,170,561,773	19
6,042,230	3,742,788	3,402,101	5,307,787	9,634,677	14,115,598		139,621,638	125,676,046	20
22,338,870	20,272,216	20,905,570	21,821,055	23,444,058	22,902,432		234,563,592	214,572,135	21
3,165,502	2,220,583	2,297,817	3,877,500	5,360,711	7,870,308		71,196,128	60,412,430	22
31,546,602	26,235,587	26,605,488	31,006,342	38,439,446	44,888,338		445,381,358	400,660,611	30
29,084,975	28,321,484	29,048,126	30,929,631	34,441,311	34,512,407		355,374,072	323,617,618	31
530,446	551,636	399,257	886,219	187,566	214,245		4,927,960	729,701	32
61,162,023	55,108,707	56,052,871	62,822,192	73,068,323	79,614,990		805,683,390	725,007,930	33
4,097,801	7,183,678	5,978,310	4,361,571	1,890,915	723,283		34,564,084	35,440,502	34
- 42,240	- 220,936	478,399	- 198,863	403,009	- 91,628		299,890	260,385	35
2,085,107	1,968,125	1,700,557	2,161,198	2,382,704	3,222,198		25,971,976	18,642,914	36
- 1,910,056	285,995	2,857,097	4,215,035	5,221,025	8,225,365		8,679,710	4,183,396	37
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976	91,694,208		875,199,050	783,535,127	39
...	...	...	...	...	...		...	...	40
19,896,518	18,136,148	19,989,549	22,244,472	27,118,053	32,892,232		290,028,669	252,695,596	41
10,096,124	12,575,672	12,566,708	12,019,005	12,942,669	10,854,493		131,220,073	134,331,050	42
95,385,277	95,037,389	99,623,491	107,624,610	123,026,698	135,440,933		1,296,447,792	1,170,561,773	49

^F Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

November 1964

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total	
		Mcf.							
	<u>Receipts</u>								
1	By transport systems:								
1a	Fields	-	-	-	8,287,483	352,963	...	8,640,446	
1b	Processing plants	-	-	-	46,802,473	11,349,606	...	58,152,079	
2	By distribution systems:								
2a	Fields	7,519	1,203,837	928,477	6,783,221	20,909	...	8,943,963	
2b	Processing plants	-	-	2,127,561	9,965,760	53,907	...	12,147,228	
3	Total (1 + 2)	7,519	1,203,837	3,056,038	71,838,937	11,777,385	...	87,883,716	
4	Imports .....	...	...	...	...	...	10,113	10,113
5	Other receipts(1)	-	-	-	20,512	-	...	20,512	
6	Total net receipts (3 + 4 + 5)	7,519	1,203,837	3,056,038	71,859,449	11,777,385	10,113	87,914,341	
7	Received from storage	-	3,225,719	283,645	270,503	-	...	3,779,867	
9	Total supply of gas utilities (6 + 7)	7,519	4,429,556	3,339,683	72,129,952	11,777,385	10,113	91,694,308	
	<u>Disposition</u>								
	<u>Sales:</u>								
23	British Columbia	-	-	-	967,298	3,723,345	-	4,690,643	
24	Alberta	-	-	-	14,204,599	-	10,113	14,214,712	
25	Saskatchewan	-	-	1,894,320	2,326,099	-	-	4,220,419	
26	Manitoba	-	-	241,722	2,142,156	-	-	2,383,878	
27	Ontario	-	4,078,202	-	12,290,292	-	-	16,368,494	
28	Quebec	-	-	-	3,005,015	-	-	3,005,015	
29	New Brunswick	5,177	-	-	-	-	-	5,177	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,177	4,078,202	2,136,042	34,935,459	3,723,345	10,113	44,888,338	
31	Exports	-	-	-	26,999,146	7,513,261	...	34,512,407	
32	Other deliveries	-	-	-	214,245	-	...	214,245	
33	Total net deliveries (30 + 31 + 32)	5,177	4,078,202	2,136,042	62,148,850	11,236,606	10,113	79,614,990	
34	Delivered to storage	-	-	60,253	663,030	-	-	723,283	
35	Line pack fluctuation	-	-	5,779	- 28,102	- 69,305	-	- 91,628	
36	Gas used in system	-	28,997	62,387	2,870,410	260,404	-	3,222,198	
37	Line losses and unaccounted for	2,342	322,357	1,075,222	6,475,764	349,680	-	8,225,365	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,519	4,429,556	3,339,683	72,129,952	11,777,385	10,113	91,694,308	

(1) Includes peak shaving and enrichment.

TABLE 4. Operating Statistics; Natural Gas Utilities

November 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
November 1964:			
Daily average	2,246,821	1,496,278	2,677,942
Maximum(1)	2,843,723	...	...
Minimum(1)	1,988,508	...	...
Exports maximum(1)	1,230,302	...	1,230,302
November 1963 [†] :			
Daily average	2,012,713	1,333,570	2,461,966
Maximum(1)	2,447,839	...	...
Minimum(1)	1,794,535	...	...
Year to date 1964:			
Daily average	1,926,575	1,329,497	2,269,995
Maximum(1)	2,843,723	...	...
Minimum(1)	1,850,247	...	...
Commodity miles:			
Mcf. miles (thousands)	58,775,497	..	..
Ton-miles (millions)	1,340	..	..
Line pack:			
Beginning of month (Mcf.)	7,043,945	..	..
End of month (Mcf.)	6,916,106	..	..
Operating revenues	(\$)21,293,115	(\$)29,455,984	(\$)39,103,205

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

[†] Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

November 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	59,185	209,334
Deliveries to ultimate customers	56,464	191,724
Line pack fluctuations	-	812
Gas used in system	- 812	1,146
Metering difference, line losses, cyclical billing adjustments and unaccounted for	3,533	15,652
Total disposition	59,185	209,334
Daily average sendout	1,882	6,391
Revenues	(\$)42,792	(\$)171,171

TABLE 6. Exports and Imports to and from the United States
November 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	274,237	-
Ojibway, Ontario	-	-
Emerson, Manitoba	6,114,757	-
Coutts, Alberta	156	10,113
Aden, Alberta	1,818,936	-
Carway, Alberta	907,215	-
Kingsgate, British Columbia - U.S.A. District V South(1)	12,136,876	-
Other U.S.A.	4,156,891	-
Huntingdon, British Columbia	9,103,339	-
Canada - 1964	34,512,407	10,113
1963	33,071,691	9,773

(1) California, Nevada, Arizona.