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GAS UTILITIES

(Transport and Distribution Systems)

NOVEMBER 1965

During November 1965 field gathering systems and processing plants delivered to gas utilities 95,050,982 Mcf. of natural gas. The transport systems accounted for 74,704,124 Mcf. and the distribution systems 20,346,858 Mcf. Natural gas recovered from storage was 3,563,684 Mcf. The total supply of gas utilities amounted to 102,164,210 Mcf., 11.4 per cent higher than in November 1964. Of the total supply, 52,581,512 Mcf. were sold to ultimate customers in Canada, an increase of 17.2 per cent. Exports increased 2.9 per cent to 35,554,290 Mcf. from 34,546,890 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 November 1965 exports totalled 403,908,373 Mcf., while net deliveries amounted to 974,329,325 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 65.1 billion commodity (Mcf.) miles (1,484 million ton-miles) during November 1965 compared with 58.8 billion (1,340 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 3.0 million Mcf.

Alberta natural gas utility receipts totalled 78.4 billion cubic feet; of this, 20.0 per cent was sold to ultimate customers in Alberta, 17.6 per cent in Ontario, 4.2 per cent in Saskatchewan, 3.8 per cent in Quebec, 3.6 per cent in Manitoba and 1.1 per cent in British Columbia. Exports accounted for 35.7 per cent while the remaining 14.0 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. 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

February 1966
6511-509

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

November 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	8,078	-	752,622
2b	Processing plants	-	-	-
3	Total (1 + 2)	8,078	-	752,622
4	Imports	-	-	3,533,260
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	8,078	-	4,285,882
7	Received from storage	-	-	2,619,488
9	Total supply of gas utilities (6 + 7)	8,078	-	6,905,370
	Transfers from:			
11	Other provinces	-	3,125,792	21,493,106
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	3,125,792	26,483,885
19	Total gross receipts (9 + 11 + 12 + 13) ...	8,078	6,251,584	54,882,361
	<u>Disposition</u>			
	Sales:			
20	Residential	4,901	1,078,369	6,695,846
21	Industrial	-	1,642,474	9,796,090
22	Commercial	-	287,853	3,611,054
30	Total sales (20 + 21 + 22)	4,901	3,008,696	20,102,990
31	Exports	-	-	319,058
32	Other deliveries	-	-	1,604
33	Total net deliveries (30 + 31 + 32)	4,901	3,008,696	20,423,652
34	Delivered to storage	-	-	535,205
35	Line pack fluctuation	-	1,006	4,752
36	Gas used in system	-	7,132	1,379,830
37	Line losses and unaccounted for	3,177	108,958	2,929,245
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,078	3,125,792	25,272,684
	Transfers to:			
40	Other provinces	-	-	3,125,792
41	Distribution by transport (primary)	-	3,125,792	18,746,824
42	Other gas utilities	-	-	7,737,061
49	Total disposition (39 + 40 + 41 + 42)	8,078	6,251,584	54,882,361

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

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

November 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	November 1964 ^F	No.
					Canada	
			Mcf.			
-	-	8,896,139	175,029	9,071,168	8,640,446	1a
-	574,067	51,980,736	13,078,153	65,632,956	58,152,079	1b
-	1,097,162	8,108,520	24,368	9,990,750	8,943,963	2a
-	1,349,432	8,946,209	60,417	10,356,108	12,147,228	2b
-	3,020,711	77,931,604	13,337,967	95,050,982	87,883,716	3
-	-	11,189	-	3,544,449	10,113	4
5,095	-	-	-	5,095	20,512	5
5,095	3,020,711	77,942,793	13,337,967	98,600,526	87,914,341	6
-	463,477	480,719	-	3,563,684	3,779,867	7
5,095	3,484,188	78,423,512	13,337,967	102,164,210	91,694,208	9
32,421,386	36,821,556	-	20,024,989	...	...	11
-	547,063	-	-	547,063	1,746,316	12
4,031,144	3,698,358	4,267,454	6,403,256	48,009,889	42,000,409	13
36,457,625	44,551,165	82,690,966	39,766,212	150,721,162	135,440,933	19
1,203,340	1,328,008	4,021,267	1,863,630	16,195,361	14,188,982	20
1,001,259	2,736,898	8,234,655	3,554,977	26,966,353	22,795,605	21
840,474	715,547	3,424,484	540,386	9,419,798	7,898,121	22
3,045,073	4,780,453	15,680,406	5,958,993	52,581,512	44,882,708	30
6,216,918	-	2,390,003	26,628,311	35,554,290	34,546,890	31
-	-	245,211	-	246,815	214,245	32
9,261,991	4,780,453	18,315,620	32,587,304	88,382,617	79,643,843	33
-	109,654	224,320	-	869,179	723,283	34
3,765	7,531	263,130	24,083	304,267	-91,628	35
660,819	1,437,699	112,928	467,467	4,065,875	3,222,198	36
1,006,800	1,549,021	2,660,969	284,102	8,542,272	8,196,512	37
10,933,375	7,884,358	21,576,967	33,362,956	102,164,210	91,694,208	39
21,493,106	32,421,386	56,846,545	-	...	...	40
4,031,144	3,698,358	1,484,909	6,241,668	37,328,695	32,892,232	41
-	547,063	2,782,545	161,588	11,228,257	10,854,493	42
36,457,625	44,551,165	82,690,966	39,766,212	150,721,162	135,440,933	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	37,861,693
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,

June	July	August	September	October	November	December	Year to date		No.
							1965	1964 ^x	
Mcf.									
6,461,634 52,344,351	6,374,529 51,807,600	6,796,549 54,323,785	5,650,266 57,571,356	6,438,156 62,555,657	9,071,168 65,632,956		84,183,141 648,160,038	74,508,145 578,792,320	1a 1b
5,177,581 8,096,332	3,491,278 8,285,632	3,706,282 9,105,469	6,039,431 10,391,111	7,293,154 9,176,544	9,990,750 10,356,108		80,651,435 112,426,154	67,624,434 121,848,759	2a 2b
72,079,898	69,959,039	73,932,085	79,652,164	85,463,511	95,050,982		925,420,768	842,773,658	3
1,289,500 1,233	1,395,736 548	1,388,589 762	1,564,301 484	1,241,378 2,330	3,544,449 5,095		13,893,761 366,938	7,989,397 200,600	4 5
73,370,631	71,355,323	75,321,436	81,216,949	86,707,219	98,600,526		939,681,467	850,963,655	6
119,657	48,165	60,644	139,037	1,218,003	3,563,684		30,473,500	21,590,948	7
73,490,288	71,403,488	75,382,080	81,355,986	87,925,222	102,164,210		970,154,967	872,554,603	9
...	...	...	...	...	...		...	...	11
535,949	589,442	632,003	328,477	336,721	547,063		8,372,000	19,958,918	12
23,485,957	34,692,241	35,717,237	37,201,126	39,944,593	48,009,889		463,733,345	401,289,824	13
107,492,194	106,685,171	111,731,320	118,885,589	128,206,536	150,721,162		1,442,260,312	1,293,803,345	19
6,702,356 23,073,265 3,754,341	4,205,236 21,689,531 2,831,786	3,598,932 22,650,739 2,542,681	5,969,173 24,816,812 4,529,503	11,082,391 25,845,333 6,649,055	16,195,361 26,966,353 9,419,798		163,138,533 257,418,687 88,280,476	139,695,022 234,456,765 71,223,941	20 21 22
33,529,962	28,726,553	28,792,352	35,315,488	43,576,779	52,581,512		508,837,696	445,375,728	30
32,546,331 188,888	30,910,360 169,046	32,083,107 185,302	31,294,679 193,492	34,233,078 200,381	35,554,290 246,815		367,194,470 2,193,688	355,525,526 2,439,817	31 32
66,265,181	59,805,959	61,060,761	66,803,659	78,010,238	88,382,617		878,225,854	803,341,071	33
6,447,425 - 315,085 2,993,666 - 1,900,899	9,020,808 - 44,961 3,237,199 - 615,517	8,734,870 85,770 3,388,473 2,112,206	5,834,294 273,807 3,372,711 5,071,515	2,714,203 114,247 3,791,588 3,294,946	869,179 304,267 4,065,875 8,542,272		45,475,646 594,972 40,444,106 5,414,389	34,564,084 299,890 25,971,976 8,377,582	34 35 36 37
73,490,288	71,403,488	75,382,080	81,355,986	87,925,222	102,164,210		970,154,967	872,554,603	39
...	...	...	...	...	...		...	...	40
23,808,795	24,178,548	25,689,117	27,938,685	30,835,854	37,328,695		346,740,211	290,028,669	41
10,193,111	11,103,135	10,660,123	9,590,918	9,445,460	11,228,257		125,365,134	131,220,073	42
107,492,194	106,685,171	111,731,320	118,885,589	128,206,536	150,721,162		1,442,260,312	1,293,803,345	49

^x Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

November 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	-	-	-	8,896,139	175,029	...	9,071,168
1b	Processing plants	-	-	574,067	51,980,736	13,078,153	...	65,632,956
2	By distribution systems:							
2a	Fields	8,078	752,622	1,097,162	8,108,520	24,368	...	9,990,750
2b	Processing plants	-	-	1,349,482	8,946,209	60,417	...	10,356,108
3	Total (1 + 2)	8,078	752,622	3,020,711	77,931,604	13,337,967	...	95,050,982
4	Imports .....	...	...	...	...	...	3,544,449	3,544,449
5	Other receipts(1)	-	-	-	5,095	-	...	5,095
6	Total net receipts (3 + 4 + 5)	8,078	752,622	3,020,711	77,936,699	13,337,967	3,544,449	98,600,526
7	Received from storage	-	2,619,488	463,477	480,719	-	...	3,563,684
9	Total supply of gas utilities (6 + 7)	8,078	3,372,110	3,484,188	78,417,418	13,337,967	3,544,449	102,164,210
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	880,014	5,078,979	-	5,958,993
24	Alberta	-	-	-	15,669,217	-	11,189	15,680,406
25	Saskatchewan	-	-	1,513,804	3,266,649	-	-	4,780,453
26	Manitoba	-	-	212,063	2,833,010	-	-	3,045,073
27	Ontario	-	2,768,899	-	13,800,831	-	3,533,260	20,102,990
28	Quebec	-	-	-	3,008,696	-	-	3,008,696
29	New Brunswick	4,901	-	-	-	-	-	4,901
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	4,901	2,768,899	1,725,867	39,458,417	5,078,979	3,544,449	52,581,512
31	Exports	-	-	-	27,993,360	7,560,930	-	35,554,290
32	Other deliveries	-	-	-	246,815	-	-	246,815
33	Total net deliveries (30 + 31 + 32)	4,901	2,768,899	1,725,867	67,698,592	12,639,909	3,544,449	88,382,617
34	Delivered to storage	-	-	109,654	759,525	-	-	869,179
35	Line pack fluctuation	-	-	2,511	292,936	8,820	-	304,267
36	Gas used in system	-	17,579	121,819	3,535,493	390,984	-	4,065,875
37	Line losses and unaccounted for	3,177	585,632	1,524,337	6,130,872	298,254	-	8,542,272
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	8,078	3,372,110	3,484,188	78,417,418	13,337,967	3,544,449	102,164,210

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

TABLE 4. Operating Statistics: Natural Gas Utilities

November 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
November 1965:			
Daily average	2,429,433	1,752,717	2,975,060
Maximum(1)	2,580,632	...	...
Minimum(1)	2,213,017	...	...
Exports maximum(1)	1,228,747	...	1,228,747
November 1964:			
Daily average	2,247,971 ^r	1,496,090 ^r	2,678,904 ^r
Maximum(1)	2,843,723	...	...
Minimum(1)	1,988,508	...	...
Year to date 1965:			
Daily average	2,137,529	1,523,466	2,765,573
Maximum(1)	3,086,555	...	...
Minimum(1)	1,446,100	...	...
Commodity miles:			
Mcf. miles (thousands)	65,078,299	..	..
Ton-miles (millions)	1,484	..	..
Line pack:			
Beginning of month (Mcf.)	7,567,998	..	..
End of month (Mcf.)	7,885,803	..	..
Operating revenues .....	..	(\$)33,774,702	..

(1) Non-coincident.

^r Revised figures.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

November 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	68,229	114,546
Deliveries to ultimate customers	67,469	87,585
Line pack fluctuations	-	605
Gas used in system	- 624	1,320
Metering difference, line losses, cyclical billing adjustments and unaccounted for	1,384	25,036
Total disposition	68,229	114,546
Daily average sendout	2,249	2,920
Revenues	(\$)46,434	(\$)171,006



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	319,058	-
Niagara Falls	-	2,110,986
Ojibway, Ontario	-	1,422,274
Emerson, Manitoba	6,216,918	-
Coutts, Alberta	145	11,189
Aden, Alberta	1,495,432	-
Carway, Alberta	894,426	-
Kingsgate, British Columbia - U.S.A. District V South(1)	13,368,535	-
Other U.S.A.	4,144,746	-
Huntingdon, British Columbia	9,115,030	-
Canada - 1965	35,554,290	3,544,449
1964	34,546,890 ^F	10,113

(1) California, Nevada, Arizona.
^F Revised figure.