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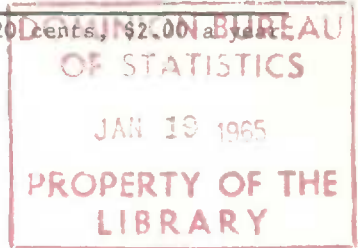
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GAS UTILITIES
(Transport and Distribution Systems)

OCTOBER 1964



During October 1964 field gathering systems and processing plants delivered to gas utilities 81,951,118 Mcf. of natural gas. The transport systems accounted for 64,900,377 Mcf. and the distribution systems 17,050,741 Mcf. Natural gas received from storage was 855,110 Mcf. The total supply of gas utilities amounted to 82,965,976 Mcf., 20.2 per cent higher than in October 1963. Of the total supply, 38,439,446 Mcf. were sold to ultimate customers in Canada, an increase of 25.1 per cent. Exports rose 17.6 per cent to 34,441,311 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 27,118,053 Mcf. of natural gas, an increase of 31.1 per cent. For the twelve-month period ended October 1964, exports totalled 389,921,998 Mcf., while net deliveries amounted to 886,319,680 Mcf.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 59.0 billion commodity (Mcf.) miles during October compared with 48.5 billion last year. Ton-miles totalled 1,345 million for October 1964. The daily average deliveries of gas utilities amounted to 2.4 million Mcf.

Alberta natural gas utility receipts totalled 68.0 billion cubic feet; of this 18.9 per cent was sold to ultimate customers in Ontario, 17.7 per cent in Alberta, 4.3 per cent in Quebec, 2.8 per cent in Saskatchewan, 2.2 per cent in Manitoba and 1.2 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 \$33,934,063 and for manufactured and liquefied petroleum gases systems \$183,818, giving a combined Gas Utilities total of \$34,117,881.

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

January 1965
6511-509

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

October 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	7,117	-	894,621
2b	Processing plants	-	-	-
3	Total (1 + 2)	7,117	-	894,621
4	Imports	-	-	151,464
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	7,117	-	1,046,085
7	Received from storage	-	-	773,667
9	Total supply of gas utilities (6 + 7)	7,117	-	1,819,752
	Transfers from:			
11	Other provinces	-	2,999,641	20,935,290
12	Distribution to transport (primary)	-	-	273,423
13	Other gas utilities	-	2,999,641	24,359,281
19	Total gross receipts (9 + 11 + 12 + 13) ...	7,117	5,999,282	47,387,746
	<u>Disposition</u>			
	Sales:			
20	Residential	4,620	645,154	3,816,128
21	Industrial	-	2,073,413	8,818,496
22	Commercial	-	176,136	1,858,864
30	Total sales (20 + 21 + 22)	4,620	2,894,703	14,493,488
31	Exports	-	-	206,342
32	Other deliveries	-	-	79
33	Total net deliveries (30 + 31 + 32)	4,620	2,894,703	14,699,909
34	Delivered to storage	-	-	1,223,345
35	Line pack fluctuation	-	9,235	28,149
36	Gas used in system	-	3,614	821,571
37	Line losses and unaccounted for	2,497	92,089	2,982,427
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,117	2,999,641	19,755,401
	Transfers to:			
40	Other provinces	-	-	2,999,641
41	Distribution by transport (primary)	-	2,999,641	15,882,405
42	Other gas utilities	-	-	8,750,299
49	Total disposition (39 + 40 + 41 + 42)	7,117	5,999,282	47,387,746

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

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

October 1964

Manitoba ^F	Saskatchewan	Alberta	British Columbia	Canada	October ^F 1963		No.
					Canada		
			Mcf.				
-	-	7,291,322	382,672	7,673,994	5,639,682	1a	
-	-	47,353,866	9,872,517	57,226,383	46,383,840	1b	
-	798,462	4,638,196	13,510	6,351,906	5,302,359	2a	
-	2,010,774	8,656,234	31,827	10,698,835	11,332,294	2b	
-	2,809,236	67,939,618	10,300,526	81,951,118	68,658,175	3	
-	-	5,794	-	157,258	68,025	4	
2,490	-	-	-	2,490	9,362	5	
2,490	2,809,236	67,945,412	10,300,526	82,110,866	68,735,562	6	
-	1,688	79,755	-	855,110	294,597	7	
2,490	2,810,924	68,025,167	10,300,526	82,965,976	69,030,159	9	
30,042,517	32,612,461	-	19,632,686	...	...	11
-	732,082	392,770	-	1,398,275	4,140,394	12	
2,128,140	2,180,961	3,237,993	3,756,431	38,662,447	29,446,417	13	
32,173,147	38,336,428	71,655,930	33,689,643	123,026,698	102,616,970	19	
706,991	851,284	2,534,031	1,076,469	9,634,677	6,031,555	20	
753,026	2,272,106	7,456,353	2,070,664	23,444,058	21,215,754	21	
478,389	417,668	2,055,569	374,085	5,360,711	3,481,096	22	
1,938,406	3,541,058	12,045,953	3,521,218	38,439,446	30,728,405	30	
6,339,835	-	2,129,783	25,765,351	34,441,311	29,289,379	31	
-	-	187,487	-	187,566	79,197	32	
8,278,241	3,541,058	14,363,223	29,286,569	73,068,323	60,096,981	33	
-	243,686	423,884	-	1,890,915	3,758,519	34	
6,495	- 7,198	197,340	168,988	403,009	- 102,523	35	
381,655	812,278	110,430	253,156	2,382,704	1,703,544	36	
443,326	791,044	685,143	224,499	5,221,025	3,573,638	37	
9,109,717	5,380,868	15,780,020	29,933,212	82,965,976	69,030,159	39	
20,935,290	30,042,517	52,245,147	-	...	...	40
2,128,140	2,180,961	259,605	3,667,301	27,118,053	20,682,808	41	
-	732,082	3,371,158	89,130	12,942,669	12,904,003	42	
32,173,147	38,336,428	71,655,930	33,689,643	123,026,698	102,616,970	49	

^F 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
	Transfers from:					
11	Other provinces .....	...	...	...	...	...
12	Distribution to transport (primary)	1,115,736	1,065,673	2,523,361	1,497,515	2,826,454
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>					
	Sales:					
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
	Transfers to:					
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 ^T	October	November	December	Year to date		No.
							1964	1963 ^F	
Mcf.									
5,362,513	4,554,284	5,508,523	6,353,153	7,673,994			66,271,668	57,671,080	1a
46,554,850	46,568,210	47,815,787	49,852,221	57,226,383			522,372,551	454,337,936	1b
3,387,048	2,828,550	3,148,243	5,450,517	6,351,906			58,680,471	55,939,811	2a
9,133,565	9,398,900	9,554,680	10,525,852	10,698,835			110,210,650	107,399,863	2b
64,437,976	63,349,944	66,027,233	72,181,743	81,951,118			757,535,340	675,348,690	3
826,445	852,674	858,444	746,085	157,258			7,978,333	6,800,891	4
2,506	5,381	60,558	4,069	2,490			180,088	185,219	5
65,266,927	64,207,999	66,946,235	72,931,897	82,110,866			765,693,761	682,334,800	6
125,708	117,570	120,999	429,236	855,110			17,811,081	17,940,465	7
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976			783,504,842	700,275,265	9
...	...	...	...	...			...	...	11
2,126,914	1,271,656	1,367,885	3,019,129	1,398,275			18,212,602	41,766,731	12
27,865,728	29,440,164	31,188,372	31,244,348	38,662,447			359,289,415	305,986,371	13
95,385,277	95,037,389	99,623,491	107,624,610	123,026,698			1,161,006,859	1,048,028,367	19
6,042,230	3,742,788	3,402,101	5,307,787	9,634,677			125,506,040	113,716,634	20
22,338,870	20,272,216	20,905,570	21,821,055	23,444,058			211,661,160	192,564,386	21
3,165,502	2,220,583	2,297,817	3,877,500	5,360,711			63,325,820	54,372,487	22
31,546,602	26,235,587	26,605,488	31,006,342	38,439,446			400,493,020	360,653,507	30
29,084,975	28,321,484	29,048,126	30,929,631	34,441,311			320,861,665	290,545,927	31
530,446	551,636	399,257	886,219	187,566			4,713,715	637,075	32
61,162,023	55,108,707	56,052,871	62,822,192	73,068,323			726,068,400	651,836,509	33
4,097,801	7,183,678	5,978,310	4,361,571	1,890,915			33,840,801	34,752,952	34
- 42,240	- 220,936	478,399	- 198,863	403,009			391,518	- 20,148	35
2,085,107	1,968,125	1,700,557	2,161,198	2,382,704			22,749,778	16,837,071	36
- 1,910,056	285,995	2,857,097	4,215,035	5,221,025			454,345	- 3,131,119	37
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976			783,504,842	700,275,265	39
...	...	...	...	...			...	...	40
19,896,518	18,136,148	19,989,549	22,244,472	27,118,053			257,136,437	225,385,887	41
10,096,124	12,575,672	12,566,708	12,019,005	12,942,669			120,365,580	122,367,215	42
95,385,277	95,037,389	99,623,491	107,624,610	123,026,698			1,161,006,859	1,048,028,367	49

^T Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source:

October 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	-	-	-	7,291,322	382,672	...	7,673,994	
1b	Processing plants	-	-	-	47,353,866	9,872,517	...	57,226,383	
2	By distribution systems:								
2a	Fields	7,117	894,621	798,462	4,638,196	13,510	...	6,351,906	
2b	Processing plants	-	-	2,010,774	8,656,234	31,827	...	10,698,835	
3	Total (1 + 2)	7,117	894,621	2,809,236	67,939,618	10,300,526	...	81,951,118	
4	Imports .....	...	...	...	...	...	157,258	157,258
5	Other receipts (1)	-	-	-	2,490	-	...	2,490	
6	Total net receipts (3 + 4 + 5)	7,117	894,621	2,809,236	67,942,108	10,300,526	157,258	82,110,866	
7	Received from storage	-	773,667	1,688	79,755	-	...	855,110	
9	Total supply of gas utilities (6 + 7)	7,117	1,668,288	2,810,924	68,021,863	10,300,526	157,258	82,965,976	
	<u>Disposition</u>								
	<u>Sales:</u>								
23	British Columbia	-	-	-	833,056	2,688,162	-	3,521,218	
24	Alberta	-	-	-	12,040,159	-	5,794	12,045,953	
25	Saskatchewan	-	-	1,604,697	1,936,361	-	-	3,541,058	
26	Manitoba	-	-	472,592	1,465,814	-	-	1,938,406	
27	Ontario	-	1,457,510	-	12,884,514	-	151,464	14,493,488	
28	Quebec	-	-	-	2,894,703	-	-	2,894,703	
29	New Brunswick	4,620	-	-	-	-	-	4,620	
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	4,620	1,457,510	2,077,289	32,054,607	2,688,162	157,258	38,439,446	
31	Exports	-	-	-	27,362,331	7,078,980	...	34,441,311	
32	Other deliveries	-	-	-	187,566	-	...	187,566	
33	Total net deliveries (30 + 31 + 32)	4,620	1,457,510	2,077,289	59,604,504	9,767,142	157,258	73,068,323	
34	Delivered to storage	-	-	243,686	1,647,229	-	-	1,890,915	
35	Line pack fluctuation	-	-	- 15,858	241,025	177,842	-	403,009	
36	Gas used in system	-	29,985	50,760	2,127,552	174,407	-	2,382,704	
37	Line losses and unaccounted for	2,497	180,793	455,047	4,401,553	181,135	-	5,221,025	
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	7,117	1,668,288	2,810,924	68,021,863	10,300,526	157,258	82,965,976	

(1) Includes peak shaving and enrichment.

... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

October 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
October 1964:			
Daily average	1,985,785	1,239,982	2,418,039
Maximum(1)	2,440,238	...	...
Minimum(1)	1,850,247	...	...
Exports maximum(1)	1,196,588	...	1,196,588
October 1963 ^F :			
Daily average	1,612,006	991,238	2,059,854
Maximum(1)	2,068,208	...	...
Minimum(1)	1,350,474	...	...
Year to date 1964:			
Daily average	1,725,367	1,195,501	2,268,385
Maximum(1)	2,732,436	...	...
Minimum(1)	1,362,645	...	...
Commodity miles:			
Mcf. miles (thousands)	59,012,865	..	..
Ton-miles (millions)	1,345	..	..
Line pack:			
Beginning of month (Mcf.)	6,641,152	..	..
End of month (Mcf.)	7,043,945	..	..
Operating revenues	(\$)20,012,062	(\$)23,904,650 ^F	(\$)33,934,063

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

^F Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

October 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	56,226	155,268
Deliveries to ultimate customers	52,860	139,416 ^F
Line pack fluctuations	-	39
Gas used in system	- 39	1,030
Metering difference, line losses, cyclical billing adjustments and unaccounted for	3,405	14,783
Total disposition	56,226	155,268
Daily average sendout	1,705	4,497
Revenues	(\$)39,536	(\$)144,282 ^F

^F Revised figures.



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	206,342	-
Ojibway, Ontario	-	151,464
Emerson, Manitoba	6,339,835	-
Coutts, Alberta	124	5,794
Aden, Alberta	1,200,431	-
Carway, Alberta	929,228	-
Kingsgate, British Columbia - U.S.A. District V South(1)	13,032,339	-
Other U.S.A.	3,949,903	-
Huntingdon, British Columbia	8,783,109	-
Canada - 1964	34,441,311	157,258
1963	29,289,379	0,068,025

(1) California, Nevada, Arizona.