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Gas Utilities  
(Transport and Distribution Systems)

December(1) 1964

For the twelve-month period January to December 1964, total net deliveries increased 11.1 per cent to 901,781,231 Mcf. from 812,038,024 Mcf. last year. Total net deliveries amounted to 2,560,920 Mcf./day. Exports for the twelve months of 1964 totalled 392,087,975 Mcf. compared with 359,606,260 Mcf. in 1963, up 9.0 per cent.

In December 1964 gas utilities received 101,472,104 Mcf. of natural gas from field gathering systems and processing plants. The transport systems accounted for 74,526,895 Mcf., while the distribution systems received 26,945,209 Mcf.; natural gas recovered from storage was 5,588,243 Mcf. The total supply of gas utilities totalled 108,845,204 Mcf., of this, 59,127,660 Mcf. were sold to ultimate customers in Canada, an increase of 16.1 per cent, while exports amounted to 36,713,903 Mcf., up 2.0 per cent over last year. The difference between gas supply and deliveries was accounted for by losses including cyclical billing adjustments, line pack changes and small deliveries to storage. Transport systems delivered 40,464,741 Mcf. to distribution systems in December 1964.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 67.9 billion commodity (Mcf.) miles (1,549 million ton-miles) during December 1964 compared with 58.2 billion (1,328 million ton-miles) last year. Total commodity miles for the year 1964 were 671,452,354 Mcf. (15,307 million ton-miles) compared with 580,400,095 Mcf. (13,233 million ton-miles) last year.

Utility receipts of natural gas produced in Alberta totalled 84.6 billion cubic feet; of this, 23.4 per cent was sold to ultimate customers in Alberta, 16.8 per cent in Ontario, 4.0 per cent in Manitoba, 3.6 per cent in Saskatchewan, 3.5 per cent in Quebec and 1.5 per cent in British Columbia. Exports accounted for 34.6 per cent while the remaining 12.6 per cent was other deliveries, deliveries to storage, line pack changes, gas used in system 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.

Revenue for the natural gas utilities for the month was \$51,842,460 and for manufactured and liquefied petroleum gases systems \$259,231 giving a combined Gas Utilities total of \$52,101,691.

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

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

Industry Division

March 1965  
6511-509

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

December 1964

No.		New Brunswick	Quebec	Ontario <sup>r</sup>
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	9,343	-	1,577,062
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	9,343	-	1,577,062
4	Imports .....	-	-	1,636,372
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	9,343	-	3,213,434
7	Received from storage .....	-	-	4,283,247
9	Total supply of gas utilities (6 + 7) .....	9,343	-	7,496,681
	Transfers from:			
11	Other provinces .....	-	3,090,103	21,585,217
12	Distribution to transport (primary) .....	-	-	814,731
13	Other gas utilities .....	-	3,090,103	31,996,715
19	Total gross receipts (9 + 11 + 12 + 13) ...	9,343	6,180,206	61,893,344
	<u>Disposition</u>			
	Sales:			
20	Residential .....	5,206	1,336,269	9,534,025
21	Industrial .....	-	1,346,642	8,057,899
22	Commercial .....	-	322,468	3,961,159
30	Total sales (20 + 21 + 22) .....	5,206	3,005,379	21,553,083
31	Exports .....	-	-	224,248
32	Other deliveries .....	-	-	1,522
33	Total net deliveries (30 + 31 + 32) .....	5,206	3,005,379	21,778,853
34	Delivered to storage .....	-	-	513,811
35	Line pack fluctuation .....	-	- 8,221	150,356
36	Gas used in system .....	-	9,134	1,444,680
37	Line losses and unaccounted for .....	4,137	83,811	2,104,095
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	9,343	3,090,103	25,991,795
	Transfers to:			
40	Other provinces .....	-	-	3,090,103
41	Distribution by transport (primary) .....	-	3,090,103	22,877,444
42	Other gas utilities .....	-	-	9,934,002
49	Total disposition (39 + 40 + 41 + 42) .....	9,343	6,180,206	61,893,344

(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

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	2,826,458
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>					
	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	October	November <sup>†</sup>	December <sup>†</sup>	Year to date		No.
							1964	1963 <sup>†</sup>	
Mcf.									
5,362,513	4,554,284	5,508,523	6,353,153	7,270,025	8,640,446	9,886,128	84,394,273	72,435,414	1a
46,554,850	46,568,210	47,815,787	49,852,221	57,630,352	58,152,079	64,640,767	645,569,366	565,860,504	1b
3,387,048	2,828,550	3,148,243	5,450,517	6,351,906	8,943,963	13,025,173	80,649,607	73,929,491	2a
9,133,565	9,398,900	9,554,680	10,525,852	10,698,835	12,147,228	13,920,036	136,277,914	134,625,467	2b
64,437,976	63,349,944	66,027,233	72,181,743	81,951,118	87,883,716	101,472,104	946,891,160	846,850,876	3
826,445	852,674	858,444	746,085	157,258	10,113	1,652,330	9,640,776	6,823,374	4
2,506	5,381	60,558	4,069	2,490	20,512	132,527	333,127	257,398	5
65,266,927	64,207,999	66,946,235	72,931,897	82,110,866	87,914,341	103,256,961	956,865,063	853,931,648	6
125,708	117,570	120,999	429,236	855,110	3,779,867	5,588,243	27,179,191	27,629,780	7
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976	91,694,208	108,845,204	984,044,254	881,561,428	9
2,126,914	1,271,656	1,367,885	3,019,129	1,398,275	1,746,316	1,992,860	21,951,778	48,020,563	11
27,865,728	29,440,164	31,188,372	31,244,348	38,662,447	42,000,409	53,000,676	454,290,500	388,450,687	12
95,385,277	95,037,389	99,623,491	107,624,610	123,026,698	135,440,933	163,838,740	1,460,286,532	1,318,032,678	13
6,042,230	3,742,788	3,402,101	5,307,787	9,634,677	14,188,982	23,930,709	163,625,731	145,856,368	20
22,338,870	20,272,216	20,905,570	21,821,055	23,444,058	22,795,605	22,945,566	257,402,331	235,378,789	21
3,165,502	2,220,583	2,297,817	3,877,500	5,360,711	7,898,121	12,251,385	83,475,326	70,363,141	22
31,546,602	26,235,587	26,605,488	31,006,342	38,439,446	44,882,708	59,127,660	504,503,388	451,598,298	30
29,084,975	28,321,484	29,048,126	30,929,631	34,441,311	34,512,407	36,713,903	392,087,975	359,606,260	31
530,446	551,636	399,257	886,219	187,566	214,245	261,908	5,189,868	833,466	32
61,162,023	55,108,707	56,052,871	62,822,192	73,068,323	79,609,360	96,103,471	901,781,231	812,038,024	33
4,097,801	7,183,678	5,978,310	4,361,571	1,890,915	723,283	951,544	35,515,628	35,960,581	34
- 42,240	- 220,936	478,399	- 198,863	403,009	- 91,628	384,017	683,907	403,645	35
2,085,107	1,968,125	1,700,557	2,161,198	2,382,704	3,222,198	4,154,047	30,126,023	21,195,062	36
- 1,910,056	285,995	2,857,097	4,215,035	5,221,025	8,230,995	7,252,125	15,937,465	11,964,116	37
65,392,635	64,325,569	67,067,234	73,361,133	82,965,976	91,694,208	108,845,204	984,044,254	881,561,428	39
19,896,518	18,136,148	19,989,549	22,244,472	27,118,053	32,892,232	40,464,741	330,493,410	288,566,710	40
10,096,124	12,575,672	12,566,708	12,019,005	12,942,669	10,854,493	14,528,795	145,748,868	147,904,540	41
95,385,277	95,037,389	99,623,491	107,624,610	123,026,698	135,440,933	163,838,740	1,460,286,532	1,318,032,678	42
									49

<sup>†</sup> Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

December 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 .....	-	-	40,243	9,441,366	404,519	...	9,886,128
1b	Processing plants .....	-	-	-	52,488,292	12,152,475	...	64,640,767
2	By distribution systems:							
2a	Fields .....	9,343	1,577,062	1,084,047	10,326,787	27,934	...	13,025,173
2b	Processing plants .....	-	-	2,104,437	11,726,085	89,514	...	13,920,036
3	Total (1 + 2) .....	9,343	1,577,062	3,228,727	83,982,530	12,674,442	...	101,472,104
4	Imports .....	...	...	...	...	...	1,652,330	1,652,330
5	Other receipts(1) .....	-	-	-	81,785	50,742	...	132,527
6	Total net receipts (3 + 4 + 5) .....	9,343	1,577,062	3,228,727	84,064,315	12,725,184	1,652,330	103,256,961
7	Received from storage .....	-	4,283,247	723,786	581,210	-	...	5,588,243
9	Total supply of gas utilities (6 + 7) .....	9,343	5,860,309	3,952,513	84,645,525	12,725,184	1,652,330	108,845,204
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	1,251,773	4,409,931	-	5,661,704
24	Alberta .....	-	-	-	19,843,523	-	15,958	19,859,481
25	Saskatchewan .....	-	-	2,355,085	3,009,409	-	-	5,364,494
26	Manitoba .....	-	-	326,032	3,352,281	-	-	3,678,313
27	Ontario .....	-	5,674,093	-	14,242,618	-	1,636,372	21,553,083
28	Quebec .....	-	-	-	3,005,379	-	-	3,005,379
29	New Brunswick .....	5,206	-	-	-	-	-	5,206
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	5,206	5,674,093	2,681,117	44,704,983	4,409,931	1,652,330	59,127,660
31	Exports .....	-	-	-	29,266,644	7,447,259	...	36,713,903
32	Other deliveries .....	-	-	-	261,908	-	...	261,908
33	Total net deliveries (30 + 31 + 32) .....	5,206	5,674,093	2,681,117	74,233,535	11,857,190	1,652,330	96,103,471
34	Delivered to storage .....	-	-	73,148	878,396	-	-	951,544
35	Line pack fluctuation .....	-	-	3,505	347,524	32,988	-	384,017
36	Gas used in system .....	-	45,771	78,159	3,655,630	374,487	-	4,154,047
37	Line losses and unaccounted for .....	4,137	140,445	1,116,584	5,530,440	460,519	-	7,252,125
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	9,343	5,860,309	3,952,513	84,645,525	12,725,184	1,652,330	108,845,204

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

TABLE 4. Operating Statistics: Natural Gas Utilities

December 1964

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
December 1964:			
Daily average .....	2,489,634	1,907,344	3,130,807
Maximum(1) .....	3,010,975	...	...
Minimum(1) .....	2,175,567	...	...
Exports maximum(1) .....	1,252,322	...	1,252,322
December 1963 <sup>r</sup> :			
Daily average .....	2,318,057	1,643,151	2,824,199
Maximum(1) .....	2,677,506	...	...
Minimum(1) .....	2,072,572	...	...
Year to date 1964:			
Daily average .....	1,974,266	1,378,425	2,560,920
Maximum(1) .....	3,010,975	...	...
Minimum(1) .....	1,850,247	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	67,932,325	..	..
Ton-miles (millions) .....	1,549	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	6,916,106	..	..
End of month (Mcf.) .....	7,296,414	..	..
Operating revenues .....	(\$ )24,929,559	(\$ )40,351,362 <sup>r</sup>	(\$ )51,842,460

(1) Non-coincident.

(2) Interindustry revenues eliminated.

.. Figures not available.

... Figures not appropriate or not applicable.

<sup>r</sup> Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

December 1964

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	65,172	293,137
Deliveries to ultimate customers .....	62,437	276,633
Line pack fluctuations .....	-	1,924
Gas used in system .....	- 1,924	1,608
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	4,659	12,972
Total disposition .....	65,172	293,137
Daily average sendout .....	2,014	8,924
Revenues .....	(\$ )42,941	(\$ )216,290



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

December 1964

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	224,248	-
Ojibway, Ontario .....	-	1,636,372(2)
Emerson, Manitoba .....	6,364,214	-
Coutts, Alberta .....	330	15,958
Aden, Alberta .....	1,902,565	-
Carway, Alberta .....	991,781	-
Kingsgate, British Columbia - U.S.A. District V South(1)	13,655,554	-
Other U.S.A. ....	4,528,409	-
Huntingdon, British Columbia .....	9,046,802	-
Canada - 1964 .....	36,713,903	1,652,330
1963 .....	35,988,642	1,012,710

(1) California, Nevada, Arizona.

(2) Import of 1,636,372 Mcf. entered at customs port of Niagara Falls.