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## GAS UTILITIES

(Transport and Distribution Systems)

JANUARY 1966

During January 1966 field gathering systems and processing plants delivered to gas utilities 111,676,633 Mcf. of natural gas. The transport systems accounted for 84,000,101 Mcf. and distribution systems 27,676,532 Mcf. Natural gas recovered from storage was 9,757,678 Mcf. The total supply of gas utilities amounted to 124,656,348 Mcf., 12.9 per cent higher than in January 1965. Of the total supply 74,106,152 Mcf. were sold to ultimate customers in Canada, an increase of 9.9 per cent. Exports increased 5.6 per cent to 38,644,552 Mcf. from 36,599,820 Mcf. last year. For the twelve month period ended January 1966 exports totalled 406,753,602 Mcf. while net deliveries amounted to 988,924,613 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 72.9 billion commodity (Mcf.) miles (1,662 million ton miles) during January 1966 compared with 66.2 (1,510 million ton miles) last year. The daily average deliveries of gas utilities amounted to 3.4 million Mcf.

Alberta natural gas utilities receipts totalled 96.0 billion cubic feet; of this 25.8 per cent was sold to ultimate customers in Alberta, 15.9 per cent in Ontario, 4.7 per cent in Saskatchewan, 3.8 per cent in Quebec, 5.6 per cent in Manitoba and 1.4 per cent in British Columbia. Exports accounted for 32.6 per cent while the remaining 10.2 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.

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

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**TABLE 1. Receipts and Disposition of Natural Gas Utilities by Province**  
January 1966

No.		New Brunswick	Quebec	Ontario
			Mcf.	
	<u>Receipts</u>			
1	By transport systems:			
1a	Fields .....	-	-	-
1b	Processing plants .....	-	-	-
2	By distribution systems:			
2a	Fields .....	10,708	-	1,538,805
2b	Processing plants .....	-	-	-
3	Total (1 + 2) .....	10,708	-	1,538,805
4	Imports .....	-	-	3,202,310
5	Other receipts(1) .....	-	-	-
6	Total net receipts (3 + 4 + 5) .....	10,708	-	4,741,115
7	Received from storage .....	-	-	8,187,001
9	Total supply of gas utilities (6 + 7) .....	10,708	-	12,928,116
	Transfers from:			
11	Other provinces .....	-	3,550,893	23,474,609
12	Distribution to transport (primary) .....	-	-	-
13	Other gas utilities .....	-	3,550,893	30,768,280
19	Total gross receipts (9 + 11 + 12 + 13) ...	10,708	7,101,786	67,171,005
	<u>Disposition</u>			
	Sales:			
20	Residential .....	8,601	1,692,161	12,205,617
21	Industrial .....	-	1,292,032	8,814,460
22	Commercial .....	-	449,185	5,485,767
30	Total sales (20 + 21 + 22) .....	8,601	3,433,378	26,505,844
31	Exports .....	-	-	399,740
32	Other deliveries .....	-	-	2,436
33	Total net deliveries (30 + 31 + 32) .....	8,601	3,433,378	26,908,020
34	Delivered to storage .....	-	-	126,247
35	Line pack fluctuation .....	-	- 690	2,852
36	Gas used in system .....	106	19,924	2,405,329
37	Line losses and unaccounted for .....	2,001	98,281	3,409,384
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	10,708	3,550,893	32,851,832
	Transfers to:			
40	Other provinces .....	-	-	3,550,893
41	Distribution by transport (primary) .....	-	3,550,893	19,433,329
42	Other gas utilities .....	-	-	11,334,951
49	Total disposition (39 + 40 + 41 + 42) .....	10,708	7,101,786	67,171,005

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

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

January 1966

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	January 1965 <sup>t</sup>	No.
					Canada	
Mcf.						
-	-	9,990,213	472,732	10,462,945	9,488,717	1a
-	146,265	57,510,405	15,880,486	73,537,156	66,403,322	1b
-	1,773,164	11,664,371	1,975	14,989,023	11,604,465	2a
-	1,683,806	10,869,025	134,678	12,687,509	13,300,648	2b
-	3,603,235	90,034,014	16,489,871	111,676,633	100,797,152	3
-	-	17,370	-	3,219,680	135,283	4
2,357	-	-	-	2,357	108,455	5
2,357	3,603,235	90,051,384	16,489,871	114,898,670	101,040,890	6
-	969,344	601,333	-	9,757,678	9,345,113	7
2,357	4,572,579	90,652,717	16,489,871	124,656,348	110,386,003	9
36,583,092	41,487,901	3,793	21,287,806	...	...	11
-	1,108,516	131,349	-	1,239,865	1,326,126	12
6,102,524	4,745,679	5,197,385	8,278,724	58,643,485	56,220,795	13
43,687,973	51,914,675	95,985,244	46,056,401	184,539,698	167,932,924	19
2,592,131	3,079,359	8,417,526	2,904,703	30,900,098	30,391,290	20
975,644	2,842,463	8,840,647	3,929,706	26,694,952	22,012,020	21
1,764,219	1,595,651	6,149,343	1,066,937	16,511,102	15,018,273	22
5,331,994	7,517,473	23,407,516	7,901,346	74,106,152	67,421,583	30
6,458,094	-	2,735,060	29,051,658	38,644,552	36,599,820	31
-	-	256,345	-	258,781	246,532	32
11,790,088	7,517,473	26,398,921	36,953,004	113,009,485	104,267,935	33
-	65,527	227,923	-	419,697	493,946	34
2,715	5,969	77,827	7,935	96,608	43,367	35
583,277	1,139,973	156,352	693,403	4,998,364	4,221,592	36
734,760	744,653	1,019,780	123,335	6,132,194	1,359,163	37
13,110,840	9,473,595	27,880,803	37,777,677	124,656,348	110,386,003	39
33,474,609	36,586,885	62,775,707	-	...	...	40
6,102,524	4,745,679	1,930,188	8,015,811	43,778,424	44,305,816	41
-	1,108,516	3,398,546	262,913	16,104,926	13,241,105	42
43,687,973	51,914,675	95,985,244	46,056,401	184,539,698	167,932,924	49

<sup>t</sup> Revised figures.

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

No.		January	February	March	April	May
				Mcf.		
	<u>Receipts</u>					
1	By transport systems:					
1a	Fields .....	10,462,945				
1b	Processing plants .....	73,537,156				
2	By distribution systems:					
2a	Fields .....	14,989,023				
2b	Processing plants .....	12,687,509				
3	Total (1 + 2) .....	111,676,633				
4	Imports .....	3,219,680				
5	Other receipts(1) .....	2,357				
6	Total net receipts (3 + 4 + 5) .....	114,898,670				
7	Received from storage .....	9,757,678				
9	Total supply of gas utilities (6 + 7) .....	124,656,348				
	Transfers from:					
11	Other provinces .....	...				
12	Distribution to transport (primary) .....	1,239,865				
13	Other gas utilities .....	58,643,485				
19	Total gross receipts (9 + 11 + 12 + 13) ...	184,539,698				
	<u>Disposition</u>					
	Sales:					
20	Residential .....	30,900,098				
21	Industrial .....	26,694,952				
22	Commercial .....	16,511,102				
30	Total sales (20 + 21 + 22) .....	74,106,152				
31	Exports .....	38,644,552				
32	Other deliveries .....	258,781				
33	Total net deliveries (30 + 31 + 32) .....	113,009,485				
34	Delivered to storage .....	419,697				
35	Line pack fluctuation .....	96,608				
36	Gas used in system .....	4,998,364				
37	Line losses and unaccounted for .....	6,132,194				
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	124,656,348				
	Transfers to:					
40	Other provinces .....	...				
41	Distribution by transport (primary) .....	43,778,424				
42	Other gas utilities .....	16,104,926				
49	Total disposition (39 + 40 + 41 + 42) .....	184,539,698				

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

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1966

June	July	August	September	October	November	December	Year to date		No.
							1966	1965 <sup>F</sup>	
				Mcf.					
							10,462,945	9,488,717	1a
							73,537,156	66,403,322	1b
							14,989,023	11,604,465	2a
							12,687,509	13,300,648	2b
							111,676,633	100,797,152	3
							3,219,680	135,283	4
							2,357	108,455	5
							114,898,670	101,040,890	6
							9,757,678	9,345,113	7
							124,656,348	110,386,003	9
							...	...	11
							1,239,865	1,326,126	12
							58,643,485	56,220,795	13
							184,539,698	167,932,924	19
							30,900,098	30,391,290	20
							26,694,952	22,012,020	21
							16,511,102	15,018,273	22
							74,106,152	67,421,583	30
							38,644,552	36,599,820	31
							258,781	246,532	32
							113,009,485	104,267,935	33
							419,697	493,946	34
							96,608	43,367	35
							4,998,364	4,221,592	36
							6,132,194	1,359,163	37
							124,656,348	110,386,003	39
							...	...	40
							43,778,424	44,305,816	41
							16,104,926	13,241,105	42
							184,539,698	167,932,924	49

... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

January 1968

No.		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
					Mcf.			
	<u>Receipts</u>							
1	By transport systems:							
1a	Fields .....	-	-	-	9,990,213	472,732	...	10,462,945
1b	Processing plants .....	-	-	146,265	57,510,405	15,880,486	...	73,537,156
2	By distribution systems:							
2a	Fields .....	10,708	1,538,805	1,773,164	11,664,371	1,975	...	14,989,023
2b	Processing plants .....	-	-	1,683,806	10,869,025	134,678	...	12,687,509
3	Total (1 + 2) .....	10,708	1,538,805	3,603,235	90,034,014	-	...	111,676,633
4	Imports .....	...	...	...	...	...	3,219,680	3,219,680
5	Other receipts(1) .....	-	-	-	2,357	-	...	2,357
6	Total net receipts (3 + 4 + 5) .....	10,708	1,538,805	3,603,235	90,036,371	16,489,871	3,219,680	114,898,670
7	Received from storage .....	-	8,187,001	969,344	601,333	-	...	9,757,678
9	Total supply of gas utilities (6 + 7) .....	10,708	9,725,806	4,572,579	90,637,704	16,489,871	3,219,680	124,656,348
	<u>Disposition</u>							
	Sales:							
23	British Columbia .....	-	-	-	1,262,537	6,638,809	-	7,901,346
24	Alberta .....	-	-	3,793	23,386,353	-	17,370	23,407,516
25	Saskatchewan .....	-	-	3,222,865	4,294,608	-	-	7,517,473
26	Manitoba .....	-	-	299,031	5,032,963	-	-	5,331,994
27	Ontario .....	-	8,896,432	-	14,407,102	-	3,202,310	26,505,844
28	Quebec .....	-	-	-	3,433,378	-	-	3,433,378
29	New Brunswick .....	8,601	-	-	-	-	-	8,601
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29) .....	8,601	8,896,432	3,525,689	51,816,941	6,638,809	3,219,680	74,106,152
31	Exports .....	-	-	-	29,568,246	9,076,306	-	38,644,552
32	Other deliveries .....	-	-	-	258,781	-	-	258,781
33	Total net deliveries (30 + 31 + 32) .....	8,601	8,896,432	3,525,689	81,643,968	15,715,115	3,219,680	113,009,485
34	Delivered to storage .....	-	-	65,527	354,170	-	-	419,697
35	Line pack fluctuation .....	-	-	5,796	98,715	3,689	-	96,608
36	Gas used in system .....	106	27,450	175,817	4,188,729	606,262	-	4,998,364
37	Line losses and unaccounted for .....	2,001	801,924	811,342	4,352,122	164,805	-	6,132,136
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37) .....	10,708	9,725,806	4,572,579	90,637,704	16,489,871	3,219,680	124,656,348

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

TABLE 4. Operating Statistics: Natural Gas Utilities

January 1966

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
<b>Daily sendouts (Mcf.):</b>			
January 1966:			
Daily average .....	2,658,805	2,390,521	3,379,415
Maximum(1) .....	2,834,533	...	...
Minimum(1) .....	2,489,158	...	...
Exports maximum(1) .....	1,316,473	...	1,316,473
January 1965:			
Daily average .....	2,609,859	2,148,503	3,353,028
Maximum(1) .....	3,086,555	...	...
Minimum(1) .....	2,094,639	...	...
Year to date 1966:			
Daily average .....	2,658,805	2,390,521	3,379,415
Maximum(1) .....	2,834,533	...	...
Minimum(1) .....	2,489,158	...	...
<b>Commodity miles:</b>			
Mcf. miles (thousands) .....	72,902,881	..	..
Ton-miles (millions) .....	1,662	..	..
<b>Line pack:</b>			
Beginning of month (Mcf.) .....	7,847,374	..	..
End of month (Mcf.) .....	7,960,166	..	..
Operating revenues .....	..	(\$) 50,600,529	..

(1) Non-coincident.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

January 1966

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts .....	65,725	157,589
Deliveries to ultimate customers .....	71,347	147,316
Line pack fluctuations .....	-	3,614
Gas used in system .....	-	2,162
Metering difference, line losses, cyclical billing adjustments and unaccounted for .....	- 5,622	4,497
Total disposition .....	65,725	157,589
Daily average sendout .....	2,301	4,752
Revenues .....	47,807	222,449



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario .....	399,740	-
Niagara Falls, Ontario .....	-	2,160,259
Ojibway, Ontario .....	-	1,042,051
Emerson, Manitoba .....	6,458,094	-
Coutts, Alberta .....	293	17,370
Aden, Alberta .....	1,741,953	-
Carway, Alberta .....	992,814	-
Kingsgate, British Columbia - U.S.A. District V South(1)	14,393,664	-
Other U.S.A. ....	4,187,256	-
Huntingdon, British Columbia .....	10,470,738	-
Canada - 1966 .....	38,644,552	3,219,680
1965 .....	36,599,820	135,283

(1) California, Nevada, Arizona.