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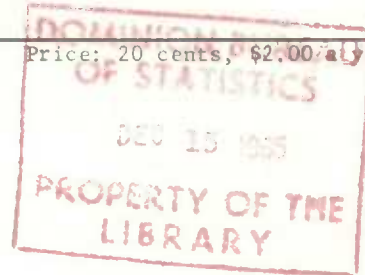
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GAS UTILITIES
(Transport and Distribution Systems)

SEPTEMBER 1965



During September 1965 field gathering systems and processing plants delivered to gas utilities 79,652,164 Mcf. of natural gas. The transport systems accounted for 63,221,622 Mcf. and the distribution systems 16,430,542 Mcf. Natural gas recovered from storage was 139,037 Mcf. The total supply of gas utilities amounted to 81,355,986 Mcf., 11.9 per cent higher than in September 1964. Of the total supply, 35,315,488 Mcf. were sold to ultimate customers in Canada, an increase of 13.9 per cent. Exports increased 1.1 per cent to 31,294,679 Mcf. from 30,961,487 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 September 1965 exports totalled 403,145,494 Mcf., while net deliveries amounted to 960,684,924 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 58.1 billion commodity (Mcf.) miles (1,325 million ton-miles) during September 1965 compared with 52.7 billion (1,201 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 2.4 million Mcf.

Alberta natural gas utility receipts totalled 65.2 billion cubic feet; of this, 16.7 per cent was sold to ultimate customers in Alberta, 16.0 per cent in Ontario, 3.7 per cent in Quebec, 2.8 per cent in Saskatchewan, 2.7 per cent in Manitoba and 0.9 per cent in British Columbia. Exports accounted for 37.4 per cent while the remaining 19.8 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.'s 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

December 1965
6511-509

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

September 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	6,162	-	796,765
2b	Processing plants	-	-	-
3	Total (1 + 2)	6,162	-	796,765
4	Imports	-	-	1,557,445
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	6,162	-	2,354,210
7	Received from storage	-	-	-
9	Total supply of gas utilities (6 + 7)	6,162	-	2,354,210
	Transfers from:			
11	Other provinces	-	2,521,588	20,510,334
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	2,521,588	23,163,337
19	Total gross receipts (9 + 11 + 12 + 13) ...	6,162	5,043,176	46,027,881
	<u>Disposition</u>			
	Sales:			
20	Residential	3,773	334,507	2,019,881
21	Industrial	-	1,975,074	8,786,995
22	Commercial	-	129,994	1,912,348
30	Total sales (20 + 21 + 22)	3,773	2,439,575	12,719,224
31	Exports	-	-	203,865
32	Other deliveries	-	-	11
33	Total net deliveries (30 + 31 + 32)	3,773	2,439,575	12,923,100
34	Delivered to storage	-	-	5,165,819
35	Line pack fluctuation	-	- 10,111	136,577
36	Gas used in system	-	1,546	1,264,194
37	Line losses and unaccounted for	2,389	90,578	853,266
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,162	2,521,588	20,342,956
	Transfers to:			
40	Other provinces	-	-	2,521,588
41	Distribution by transport (primary)	-	2,521,588	16,147,172
42	Other gas utilities	-	-	7,016,165
49	Total disposition (39 + 40 + 41 + 42)	6,162	5,043,176	46,027,881

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

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

September 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	September 1964 ^F	No.
					Canada	
			Mcf.			
-	-	5,432,235	218,031	5,650,266	6,353,153	1a
-	87,464	46,669,669	10,814,223	57,571,356	49,269,187	1b
-	945,222	4,277,877	13,405	6,039,431	5,450,517	2a
-	1,579,200	8,782,094	29,817	10,391,111	10,421,091	2b
-	2,611,886	65,161,875	11,075,476	79,652,164	71,493,948	3
-	-	6,856	-	1,564,301	746,080	4
484	-	-	-	484	4,069	5
484	2,611,886	65,168,731	11,075,476	81,216,949	72,244,097	6
-	93,446	45,591	-	139,037	429,236	7
484	2,705,332	65,214,322	11,075,476	81,355,986	72,673,333	9
29,238,665	32,210,037	-	16,797,848	...	...	11
-	328,477	-	-	328,477	3,019,129	12
2,256,928	1,910,990	2,684,412	4,663,871	37,201,126	31,244,348	13
31,496,077	37,154,836	67,898,734	32,537,195	118,885,589	106,936,810	19
440,734	444,732	1,929,220	796,326	5,969,173	5,307,787	20
1,116,520	2,328,718	7,203,821	3,405,684	24,816,812	21,821,055	21
308,367	195,858	1,740,936	242,000	4,529,503	3,877,500	22
1,865,621	2,969,308	10,873,977	4,444,010	35,315,488	31,006,342	30
5,791,027	-	2,332,243	22,967,544	31,294,679	30,961,487	31
-	-	193,481	-	193,492	242,480	32
7,656,648	2,969,308	13,399,701	27,411,554	66,803,659	62,210,309	33
-	250,805	417,670	-	5,834,294	4,361,571	34
31,455	63,318	74,495	- 21,927	273,807	- 198,863	35
563,854	1,178,452	88,232	276,433	3,372,711	2,161,198	36
476,858	1,214,821	2,226,339	207,264	5,071,515	4,139,118	37
8,728,815	5,676,704	16,206,437	27,873,324	81,355,986	72,673,333	39
20,510,334	29,238,665	49,007,885	-	...	...	40
2,256,928	1,910,990	525,706	4,576,301	27,938,685	22,244,472	41
-	328,477	2,158,706	87,570	9,590,918	12,019,005	42
31,496,077	37,154,836	67,898,734	32,537,195	118,885,589	106,936,810	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	37,861,692
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	28,292,387
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 3. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1965

June	July	August	September	October	November	December	Year to date		No.
							1965	1964 ^r	
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				68,673,817 519,971,425	58,597,674 463,009,889	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				63,367,531 92,893,502	52,328,565 99,002,696	2a 2b
72,079,898	69,959,039	73,932,085	79,652,164				744,906,275	672,938,824	3
1,289,500 1,233	1,395,736 548	1,388,589 762	1,564,301 484				9,107,934 359,513	7,822,027 177,598	4 5
73,370,631	71,355,323	75,321,436	81,216,949				754,373,722	680,938,449	6
119,657	48,165	60,644	139,037				25,691,813	16,955,971	7
73,490,288	71,403,488	75,382,080	81,355,986				780,065,535	697,894,420	9
...	...	...	...				...	...	11
335,949	589,442	632,003	328,477				7,488,216	16,814,327	12
33,485,957	34,692,241	35,717,237	37,201,126				375,778,863	320,626,968	13
107,492,194	106,685,171	111,731,320	118,885,589				1,163,332,614	1,035,335,715	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				135,860,781 204,607,001 72,211,623	115,871,363 188,217,102 57,965,109	20 21 22
33,529,962	28,726,553	28,792,352	35,315,488				412,679,405	362,053,574	30
32,546,331 188,888	30,910,360 169,046	32,083,107 185,302	31,294,679 193,492				297,407,102 1,746,492	286,501,037 2,038,006	31 32
66,265,181	59,805,959	61,060,761	66,803,659				711,832,999	650,592,617	33
6,447,425 - 315,085	9,020,808 - 44,961	8,734,870 85,770	5,834,294 273,807				41,892,264 176,458	31,949,886 - 11,491	34 35
2,993,666 - 1,900,899	3,237,199 - 615,517	3,388,473 2,112,206	3,372,711 5,071,515				32,586,643 - 6,422,829	20,367,074 - 5,003,666	36 37
73,490,288	71,403,488	75,382,080	81,355,986				780,065,535	697,894,420	39
...	...	...	...				...	...	40
23,808,795	24,178,548	25,689,117	27,938,685				278,575,662	230,018,384	41
10,193,111	11,103,135	10,660,123	9,590,918				104,691,417	107,422,911	42
107,492,194	106,685,171	111,731,320	118,885,589				1,163,332,614	1,035,335,715	49

^r Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

September 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	-	-	-	5,432,235	218,031	...	5,650,266
1b	Processing plants	-	-	87,464	46,669,669	10,814,223	...	57,571,356
2	By distribution systems:							
2a	Fields	6,162	796,765	945,222	4,277,877	13,405	...	6,039,431
2b	Processing plants	-	-	1,579,200	8,782,094	29,817	...	10,391,111
3	Total (1 + 2)	6,162	796,765	2,611,886	65,161,875	11,075,476	...	79,652,164
4	Imports .....	...	...	...	...	...	1,564,301	1,564,301
5	Other receipts(1)	-	-	-	484	-	...	484
6	Total net receipts (3 + 4 + 5)	6,162	796,765	2,611,886	65,162,359	11,075,476	1,564,301	81,216,949
7	Received from storage	-	-	93,446	45,591	-	...	139,037
9	Total supply of gas utilities (6 + 7)	6,162	796,765	2,705,332	65,207,950	11,075,476	1,564,301	81,355,986
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	630,906	3,813,104	-	4,444,010
24	Alberta	-	-	-	10,867,121	-	6,856	10,873,977
25	Saskatchewan	-	-	1,154,684	1,814,624	-	-	2,969,308
26	Manitoba	-	-	124,876	1,740,745	-	-	1,865,621
27	Ontario	-	743,365	-	10,418,414	-	1,557,445	12,719,224
28	Quebec	-	-	-	2,439,575	-	-	2,439,575
29	New Brunswick	3,773	-	-	-	-	-	3,773
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	3,773	743,365	1,279,560	27,911,385	3,813,104	1,564,301	35,315,488
31	Exports	-	-	-	24,395,723	6,898,956	-	31,294,679
32	Other deliveries	-	-	-	193,492	-	-	193,492
33	Total net deliveries (30 + 31 + 32)	3,773	743,365	1,279,560	52,500,600	10,712,060	1,564,301	66,803,659
34	Delivered to storage	-	-	250,805	5,583,489	-	-	5,834,294
35	Line pack fluctuation	-	-	21,378	283,068	- 30,639	-	273,807
36	Gas used in system	-	27,100	55,088	3,068,676	221,847	-	3,372,711
37	Line losses and unaccounted for	2,389	26,300	1,098,501	3,772,117	172,208	-	5,071,515
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	6,162	796,765	2,705,332	65,207,950	11,075,476	1,564,301	81,355,986

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

TABLE 4. Operating Statistics: Natural Gas Utilities

September 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
September 1965:			
Daily average	1,974,445	1,177,183	2,421,265
Maximum(1)	2,219,478	...	...
Minimum(1)	1,446,100	...	...
Exports maximum(1)	1,190,633	...	1,190,633
September 1964:			
Daily average	1,773,532 ^r	1,033,545	2,219,063 ^r
Maximum(1)	2,195,346	...	...
Minimum(1)	1,428,932	...	...
Year to date 1965:			
Daily average	2,109,827	1,511,646	2,500,156
Maximum(1)	3,086,555	...	...
Minimum(1)	1,446,100	...	...
Commodity miles:			
Mcf. miles (thousands)	58,112,769	..	..
Ton-miles (millions)	1,325	..	..
Line pack:			
Beginning of month (Mcf.)	7,228,759	..	..
End of month (Mcf.)	7,485,406	..	..
Operating revenues .....	..	(\$)19,442,328	..

(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

September 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	58,525	74,046
Deliveries to ultimate customers	57,906	51,730
Line pack fluctuations	-	485
Gas used in system	- 492	692
Metering difference, line losses, cyclical billing adjustments and unaccounted for	1,111	21,139
Total disposition	58,525	74,046
Daily average sendout	1,930	1,724
Revenues	(\$)42,432	(\$)114,098



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

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	203,865	-
Niagara Falls	-	-
Ojibway, Ontario	-	1,557,445
Emerson, Manitoba	5,791,027	-
Coutts, Alberta	-	6,856
Aden, Alberta	1,425,974	-
Carway, Alberta	906,269	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,950,277	-
Other U.S.A.	3,150,522	-
Huntingdon, British Columbia	7,866,745	-
Canada - 1965	31,294,679	1,564,301
1964	30,961,487 ^r	746,080 ^r

(1) California, Nevada, Arizona.
^r Revised figures.