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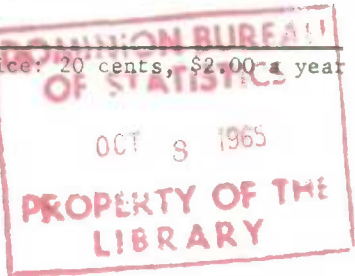
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GAS UTILITIES

(Transport and Distribution Systems)

JULY 1965



During July 1965 field gathering systems and processing plants delivered to gas utilities 69,959,039 Mcf. of natural gas. The transport systems accounted for 58,182,129 Mcf. and the distribution systems 11,776,910 Mcf. Natural gas recovered from storage was 48,165 Mcf. The total supply of gas utilities amounted to 71,403,488 Mcf., 11.7 per cent higher than in July 1964. Of the total supply, 28,726,553 Mcf. were sold to ultimate customers in Canada, an increase of 9.5 per cent. Exports increased 9.1 per cent to 30,910,360 Mcf. from 28,338,862 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 July 1965 exports totalled 399,808,770 Mcf. while net deliveries amounted to 950,876,386 Mcf.

Transport system traffic which represents virtually all of the major "intercity" movements of natural gas, amounted to 56.5 billion commodity (Mcf.) miles (1,289 million ton-miles) during July 1965 compared with 51.3 billion (1,169 million ton-miles) last year. The daily average deliveries of gas utilities amounted to 2.2 million Mcf.

Alberta natural gas utility receipts totalled 58.5 billion cubic feet; of this, 15.3 per cent was sold to ultimate customers in Alberta, 14.8 per cent in Ontario, 3.7 per cent in Quebec, 2.2 per cent in Saskatchewan, 1.3 per cent in British Columbia and 0.6 per cent in Manitoba. Exports accounted for 42.1 per cent while the remaining 20.0 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.'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

October 1965

5511-509

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

July 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	5,870	-	625,422
2b	Processing plants	-	-	-
3	Total (1 + 2)	5,870	-	625,422
4	Imports	-	-	1,393,621
5	Other receipts(1)	-	-	-
6	Total net receipts (3 + 4 + 5)	5,870	-	2,019,043
7	Received from storage	-	-	-
9	Total supply of gas utilities (6 + 7)	5,870	-	2,019,043
	<u>Transfers from:</u>			
11	Other provinces	-	2,229,269	20,301,485
12	Distribution to transport (primary)	-	-	-
13	Other gas utilities	-	2,229,269	24,447,835
19	Total gross receipts (9 + 11 + 12 + 13) ...	5,870	4,458,538	46,768,363
	<u>Disposition</u>			
	<u>Sales:</u>			
20	Residential	3,725	186,968	1,620,746
21	Industrial	-	1,842,304	7,978,725
22	Commercial	-	117,823	1,084,729
30	Total sales (20 + 21 + 22)	3,725	2,147,095	10,684,200
31	Exports	-	-	180,389
32	Other deliveries	-	-	-
33	Total net deliveries (30 + 31 + 32)	3,725	2,147,095	10,864,589
34	Delivered to storage	-	-	8,151,989
35	Line pack fluctuation	-	553	29,868
36	Gas used in system	-	1,152	1,204,380
37	Line losses and unaccounted for	2,145	80,469	- 159,567
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	5,870	2,229,269	20,091,259
	<u>Transfers to:</u>			
40	Other provinces	-	-	2,229,269
41	Distribution by transport (primary)	-	2,229,269	16,577,630
42	Other gas utilities	-	-	7,870,205
49	Total disposition (39 + 40 + 41 + 42)	5,870	4,458,538	46,768,363

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

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

July 1965

Manitoba	Saskatchewan	Alberta	British Columbia	Canada	July 1964 ^F	No.
					Canada	
Mcf.						
-	-	5,970,070	404,459	6,374,529	4,554,284	1a
-	83,955	43,282,587	8,441,058	51,807,600	46,262,718	1b
-	573,600	2,277,627	8,759	3,491,278	2,828,550	2a
-	1,284,201	6,989,261	12,170	8,285,632	9,281,146	2b
-	1,941,756	58,519,545	8,866,446	69,959,039	62,926,698	3
-	-	2,115	-	1,395,736	852,698	4
548	-	-	-	548	5,381	5
548	1,941,756	58,521,660	8,866,446	71,355,323	63,784,777	6
-	34,666	13,499	-	48,165	117,570	7
548	1,976,422	58,535,159	8,866,446	71,403,488	63,902,347	9
27,994,378	29,961,514	-	16,714,756	...	...	11
-	589,442	-	-	589,442	1,271,656	12
802,648	1,202,178	2,808,614	3,201,697	34,692,241	29,440,164	13
28,797,574	33,729,556	61,343,773	28,782,899	106,685,171	94,614,167	19
206,673	433,107	1,372,706	381,311	4,205,236	3,742,788	20
482,155	2,289,169	6,546,745	2,550,433	21,689,531	20,272,216	21
151,274	209,548	1,065,900	202,512	2,831,786	2,220,583	22
840,102	2,931,824	8,985,351	3,134,256	28,726,553	26,235,587	30
6,283,592	-	2,211,158	22,235,221	30,910,360	28,338,862	31
-	-	169,046	-	169,046	178,834	32
7,123,694	2,931,824	11,365,555	25,369,477	59,805,959	54,753,283	33
-	257,054	611,765	-	9,020,808	7,183,678	34
7,200	28,107	- 76,308	- 34,381	- 44,961	- 220,936	35
565,613	1,170,502	49,790	245,762	3,237,199	1,968,125	36
- 3,066	- 443,929	- 91,913	344	- 615,517	218,197	37
7,693,441	3,943,558	11,858,889	25,581,202	71,403,488	63,902,347	39
20,301,485	27,994,378	46,676,270	-	...	...	40
802,648	1,202,178	206,808	3,160,015	24,178,548	18,136,148	41
-	589,442	2,601,806	41,682	11,103,135	12,575,672	42
28,797,574	33,729,556	61,343,773	28,782,899	106,685,171	94,614,167	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	28,292,367
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, 1965

June	July	August	September	October	November	December	Year to date		No.
							1965	1964 ^r	
Mcf.									
6,461,634	6,374,529						56,227,002	46,735,998	1a
52,344,351	51,807,600						408,076,284	366,099,325	1b
5,177,581	3,491,278						53,621,818	43,729,805	2a
8,096,332	8,285,632						73,396,922	79,154,017	2b
72,079,898	69,959,039						591,322,026	535,719,145	3
1,289,500	1,395,736						6,155,044	6,217,467	4
1,233	548						358,267	112,971	5
73,370,631	71,355,323						597,835,337	542,049,583	6
119,657	48,165						25,492,132	16,405,736	7
73,490,288	71,403,488						623,327,469	558,455,319	9
...	...						...	...	11
535,949	589,442						6,527,736	12,427,313	12
33,665,957	34,692,241						302,860,500	258,194,248	13
107,492,194	106,685,171						932,715,705	829,076,880	19
6,702,356	4,205,236						126,292,676	107,161,475	20
23,073,265	21,689,531						157,139,450	145,490,477	21
3,754,341	2,831,786						65,139,439	51,789,792	22
33,529,962	28,726,553						348,571,565	304,441,744	30
32,546,331	30,910,360						234,029,316	226,459,975	31
188,888	169,046						1,367,698	1,635,016	32
66,265,181	59,805,959						583,968,579	532,536,735	33
6,447,425	9,020,808						27,323,100	21,610,005	34
- 315,085	- 44,961						- 183,119	- 291,027	35
2,993,666	3,237,199						25,825,459	16,505,319	36
- 1,900,899	- 615,517						- 13,606,550	- 11,905,713	37
73,490,288	71,403,488						623,327,469	558,455,319	39
...	...						...	...	40
23,808,795	24,178,548						224,947,860	187,784,363	41
10,193,111	11,103,135						84,440,376	82,837,198	42
107,492,194	106,685,171						932,715,705	829,076,880	49

^r Revised figures.

TABLE 3. Receipts and Disposition of Natural Gas by Source

July 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	-	-	-	5,970,070	404,459	...	6,374,529
1b	Processing plants	-	-	83,955	43,282,587	8,441,058	...	51,807,600
2	By distribution systems:							
2a	Fields	5,870	625,422	573,600	2,277,627	8,759	...	3,491,278
2b	Processing plants	-	-	1,284,201	6,989,261	12,170	...	8,285,632
3	Total (1 + 2)	5,870	625,422	1,941,756	58,519,545	8,866,446	...	69,959,039
4	Imports .....	...	...	...	...	...	1,395,736	1,395,736
5	Other receipts (1)	-	-	-	548	-	...	548
6	Total net receipts (3 + 4 + 5)	5,870	625,422	1,941,756	58,520,093	8,866,446	1,395,736	71,355,323
7	Received from storage	-	-	34,666	13,499	-	...	48,165
9	Total supply of gas utilities (6 + 7)	5,870	625,422	1,976,422	58,533,592	8,866,446	1,395,736	71,403,488
	<u>Disposition</u>							
	Sales:							
23	British Columbia	-	-	-	766,701	2,367,555	-	3,134,256
24	Alberta	-	-	-	8,983,236	-	2,115	8,985,351
25	Saskatchewan	-	-	1,632,111	1,299,713	-	-	2,931,824
26	Manitoba	-	-	517,059	323,043	-	-	840,102
27	Ontario	-	632,992	-	8,657,587	-	1,393,621	10,684,200
28	Quebec	-	-	-	2,147,095	-	-	2,147,095
29	New Brunswick	3,725	-	-	-	-	-	3,725
30	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	3,725	632,992	2,149,170	22,177,375	2,367,555	1,395,736	28,726,553
31	Exports	-	-	-	24,626,556	6,283,804	-	30,910,360
32	Other deliveries	-	-	-	169,046	-	-	169,046
33	Total net deliveries (30 + 31 + 32)	3,725	632,992	2,149,170	46,972,977	8,651,359	1,395,736	59,805,959
34	Delivered to storage	-	-	257,054	8,763,754	-	-	9,020,808
35	Line pack fluctuation	-	-	18,507	- 29,473	- 33,995	-	- 44,961
36	Gas used in system	-	35,130	43,671	2,976,272	182,126	-	3,237,199
37	Line losses and unaccounted for	2,145	- 42,700	- 491,980	- 149,938	66,956	-	- 615,517
39	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	5,870	625,422	1,976,422	58,533,592	8,866,446	1,395,736	71,403,488

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

TABLE 4. Operating Statistics: Natural Gas Utilities

July 1965

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
July 1965:			
Daily average	1,777,062	926,663	2,220,218
Maximum(1)	1,988,510	...	...
Minimum(1)	1,557,497	...	...
Exports maximum(1)	1,133,830	...	1,133,830
July 1964:			
Daily average	1,499,194 ^F	846,309	1,997,966 ^F
Maximum(1)	1,836,923	...	...
Minimum(1)	1,362,645	...	...
Year to date 1965:			
Daily average	2,164,987	1,644,205	2,883,451
Maximum(1)	3,086,555	...	...
Minimum(1)	1,526,879	...	...
Commodity miles:			
Mcf. miles (thousands)	56,536,408	..	..
Ton-miles (millions)	1,289	..	..
Line pack:			
Beginning of month (Mcf.)	7,211,560	..	..
End of month (Mcf.)	7,145,897	..	..
Operating revenues .....	..	(\$)15,640,353	..

(1) Non-coincident.

^F Revised figures.

.. Figures not available.

... Figures not appropriate or not applicable.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

July 1965

	Manufactured	Liquefied petroleum gases
	Mcf.	
Gas receipts	52,121	61,895
Deliveries to ultimate customers	50,720	44,798
Line pack fluctuations	-	-
Gas used in system	- 88	451
Metering difference, line losses, cyclical billing adjustments and unaccounted for	1,489	16,646
Total disposition	52,121	61,895
Daily average sendout	1,636	1,445
Revenues	(\$)39,224	(\$)102,531

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

July 1965

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	180,389	-
Niagara Falls	-	-
Ojibway, Ontario	-	1,393,621
Emerson, Manitoba	6,283,592	-
Coutts, Alberta	61	2,115
Aden, Alberta	1,281,427	-
Carway, Alberta	929,670	-
Kingsgate, British Columbia - U.S.A. District V South(1)	11,444,452	-
Other U.S.A.	2,818,436	-
Huntingdon, British Columbia	7,972,333	-
Canada - 1965	30,910,360	1,395,736
1964	28,338,862	852,698 ^r

(1) California, Nevada, Arizona.

^r Revised figure.