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PROPERTY OF THE

(Transport and Distribution Systems)

DECEMBER(1) 1963

For the twelve-month period January to December 1963, total net deliveries increased 7.5 per cent to 812,038,024 Mcf. from 755,424,830 Mcf. last year. Total net deliveries amounted to 2,323,284 Mcf./day. Exports for the twelve months of 1963 totalled 359,606,260 Mcf. compared with 342,812,316 Mcf. in 1962, up 4.9 per cent.

In December 1963 gas utilities received from field gathering systems and processing plants 90,592,104 Mcf. of natural gas. The transport systems accounted for 65,156,131 Mcf., while the distribution systems received 25,435,973 Mcf.; natural gas received from storage was 7,247,873 Mcf. The total supply of gas utilities totalled 97,914,626 Mcf., of this, 50,937,687 Mcf. were sold to ultimate customers in Canada, an increase of 17.2 per cent, while exports amounted to 35,988,642 Mcf., up 12.6 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 35,871,114 Mcf. to distribution systems in December 1963.

The transport systems which represent virtually all of the major "intercity" movements of natural gas had traffic amounting to 58.2 billion commodity (Mcf.) miles (1,328 ton-miles) during December 1963 compared with 48.6 billion (1,109 ton-miles) last year. Total commodity miles for the year 1963 were 580,400,095 Mcf. (13,233 ton-miles) compared with 513,703,911 Mcf. (11,712 ton-miles) last year.

Utility receipts of natural gas produced in Alberta totalled 75.2 billion cubic feet; of this, 24.2 per cent was sold to ultimate customers in Alberta, 13.6 per cent in Ontario, 3.7 per cent in Quebec, 3.3 per cent in Manitoba, 3.0 per cent in Saskatchewan and 1.7 per cent in British Columbia. In Table 3 gas received from and delivered to storage are considered as having terminated or originated in the province where the storage is located.

Revenue for the natural gas utilities for the month was \$44,350,495 and for manufactured and liquefied petroleum gases systems \$228,360, giving a combined Gas Utilities total of \$44,578,855.

Starting in January of 1963 this report had revisions in concept to bring it into line with the practice of industry and to remove complex reporting problems for the respondents. All gas volumes are now 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. As a result of these changes it has been necessary to revise historical figures to enable more meaningful comparisons.

The effect of this change in concept is that previous years sales were overstated for Alberta and British Columbia. Revised figures for sales and exports for the period 1957 to 1963 are presented in the December "Sales of Manufactured and Natural Gas", (Tables 7 to 13), Catalogue number 45-005.

Residential sales and a substantial portion of the smaller commercial sales are for the most part made through "positive displacement meter" 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 a cyclical billing adjustment.

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

Industry Division

April 1964 8506-503

ROCER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

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

December 1963

		New Brunswick	Quebec	Ontario
0.			Mcf.	
	Receipts			
1	By transport systems:			
la 1b	Fields Processing plants	-	-	
2	By distribution systems:			
2a 2b	Fields Processing plants	13,326	0 1	1,894,33
3	Total (1 + 2)	13,326	-	1,894,33
4	Imports Other receipts	-		3,36
6	Total net receipts (3 + 4 + 5)	13,326	-	1,897,70
7	Received from storage	-	-	6,638,83
9	Total supply of gas utilities (6 + 7)	13,326	-	8,536,53
	Transfers from:			
2	Other provinces Distribution to transport (primary) Other gas utilities	-	2,866,181	18,514,8 623,79 28,399,84
	Total gross receipts (9 + 11 + 12 + 13)	13,326	5,732,362	56,075,01
	Dispesition			
	Sales:			
	Residential	4,661	1,361,465	7,793.3
	Industrial Commercial	1,963	1,105,846 291,201	7,485,47 2,941,88
	Total sales (20 + 21 + 22)	6,624	2,758,512	18,220,7
2	Exports Other deliveries	-	-	206,6
	Total net deliveries (30 + 31 + 32)	6,624	2,758,512	18,428,30
	Delivered to storage	-	- 6,894	- 22,7
	Line pack fluctuation	_	9,233	870,1
	Line losses and unaccounted for	6,702	105,330	4,909,4
	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	13,326	2,866,181	24,185,2
	Transfers to:			
	Other provinces Distribution by transport (primary) Other gas utilities	-	2,866,181	2,866,1 21,792,9 7,230,6
2				

r Revised figures.

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

December 1963

	December ^r 1962	Canada	British Columbia	Alberta	Saskatchewan	Mani toba
	Canada		Columbia			
t	1			Mcf		
)	6,877,372) 58,278,759)	313,335 10,229,913	6,564,037 48,048,846	Ē	-
		16,575,475 } 8,860.498 }	9,879 65,644	13,885,862 6,306,633	772,072 2,488,221	-
		90,592,104	10,618,771	74,805,378	3,260,293	-
	10,333	12,710		12,710		-
	-	61,939	-	6,475	-	52,097
	b. 4	90,666,753	10,618,771	74,824,563	3,260,293	52,097
	6,540,120	7,247,873	-	348,628	260,411	
		97,914,626	10,618,771	75,173,191	3,520,704	52,097
			21,490,266		31,496,692	28,885,748
		3,285,502) 46,159,102)	4,665,520	1,856,070 4,074,895	805,642 2,551,445	3,601,221
		147,359,230	36,774,557	81,104,156	38,374,483	32,539,066
	16,968,186 18,666,235 7,836,309	20,180,322 20,806,654 9,950,711	2,024,991 1,702,420 659,763	5,705,273 8,270,709 4,260,147	1,819,766 1,663,082 852,512	1,470,794 579,122 943,245
	43,470,730	50,937,687	4,387,174	18,236,129	4,335,360	2,993,161
	31,975,690 55,795	35,988,642 103,765	27,075,984	2,378,738 102,864		6,327,239
	75,502,215	87,030,094	31,463,158	20,717,731	4,335,360	9,320,400
	216,941	520,079	115,009	480,803 69,598	39,276	- 8,964
	••	2,552,148 7,669,045	290,605 240,265	91,012 827,089	878,324 881,464	412,838 698,720
		97,914,626	32,109,037	22,186,233	6,131,648	10,422,994
		35,871,114 13,573,490	4,530,074 135,446	52,986,958 529,238 5,401,727	28,885,748 2,551,445 -805,642	18,514,851 3,601,221 -
		147,359,230	36,774,557	81,104,156	38,374,483	32,539,066

... Figures not available. ... Figures not appropriate or not applicable.

			_			
		January	February	March	April	May
10.				Mcf.		
	Receipts					
L	By transport systems:					
la lb	Fields Processing plants	6,490,502 53,448,663	5,665,26 9 45,922,308	5,185,435 50,341,692	4,817,434 45,448,449	3,969,23 44,410,12
2	By distribution systems:					
a b	Fields Processing plants	20,099,614 6,544,092	15,790,009 6,772,147	14,239,942 7,614,165	11,394,674 6,155,868	9,779,64 6,333,73
3	Total (1 + 2)	86,582,871	74,149,733	77,381,234	67,816,425	64,492,73
5	Imports Other receipts	213,784 82,482	166,149 40,522	987,966 1,002	1,124,916 441	875,59 17,72
;	Total net receipts (3 + 4 + 5)	86,879,137	74,356,404	78,370,202	68,941,782	65,386,05
	Received from storage	8,536,394	5,486,862	2,646,935	773,968	152,84
	Total supply of gas utilities $(6 + 7)$	95,415,531	79,843,266	81,017,137	69,715,750	65,538,90
	Transfers from:					
	Other provinces Distribution to transport (primary) Other gas utilities	4,275,301 43,342,270	4,737,209 38,021,384	3,624,455 35,730,383	2,988,816 30,669,258	3,874,6 28,038,50
	Total gross receipts (9 + 11 + 12 + 13)	143,033,102	122,601,859	120,371,975	103, 373, 824	97,452,0
	Disposition					
	Sales:	0/ /07 607	26 217 061	19,618,195	13,908,773	9,552,82
	Residential Industrial Commercial	24,487,687 18,467,506 10,897,541	24,217,941 17,030,474 10,826,176	19,176,060 8,844,584	19,602,222 6,530,644	20,192,97 4,534,2
	Total sales (20 + 21 + 22)	53,852,734	52,074,591	47,638,839	40,041,639	34,280,0
	Exports Other deliveries	34,608,544 88,879	29,721,885 65,370	32,520,099 68,550	29,464,060 59,194	28,532,2 56,3
	Total net deliveries (30 + 31 + 32)	88,550,157	81,861,846	80,227,488	69,564,893	62,868,6
	Delivered to storage Line pack fluctuation Gas used in system Line losses and unaccounted for	766,307 168,468 2,125,732 3,804,867	580,226 - 110,881 1,883,954 - 4,371,879	951,620 254,266 1,922,048 - 2,338,285	1,836,791 - 188,432 1,572,385 - 3,069,887	3,655,4 - 72,4 1,508,4 - 2,421,1
	Total demand on gas utilities (33 + 34 + 35 + 36 + 37)	95,415,531	79,843,266	81,017,137	69,715,750	65,538,9
	Transfers to:					
	Other provinces Distribution by transport (primary) Other gas utilities	34,377,018 13,240,553	29,710,223 13,048,370	27,422,291 11,932,547	22,906,425 10,751,649	21,685,3 10,227,7
	Total disposition (39 + 40 + 41 + 42)	143,033,102	122,601,859	120,371,975	103, 373, 824	97,452,0

TABLE 2. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1963

T Revised figures.

TABLE 1. Receipts and Disposition of Natural Gas Utilities by Month, Canada, 1943

June	July	August	September	October	November	December	Year t	o date	
				00000CL	NO CADE L	December	1963 ^I	1962 ^r	
	1		, ,	Mcf.	1	2	1	- I	No
							1		
3,545,883 40,807,081	3,917,797 41,167,577	4,473,601 40,752,094	4,720,859 42,215,524	5,022,913 45,840,931	6,187,700 52,106,765	6,877,372 58,278,759	60,874,001 560,739,963	>	
7,666,185 6,227,544	6,862,754 5,813,608	7,467,238 6,023,038	8,209,324 6,397,408	10,655,546 7,138,785	15,068,377 7,547,240	16,575,475 8,860,498	143,808,781 81,428,131	}	
58,246,693	57,761,736	58,715,971	61,543,115	68,658,175	80,910,082	90,592,104	846,850,876		
828,262 4,042	867,400 10,081	859,313 9,846	809,481 9,715	68,025 9,362	9,773 10,240	12,710 61,939	6,823,374 257,398	5,477,463 36,846	1
59,078,997	58,639,217	59,585,130	62,362,311	68,735,562	80,930,095	90,666,753	853,931,648		
39,489	-	2,264	7,112	294,597	2,329,767	7,247,873	27,518,105	26, 378, 593	
59,118,486	58,639,217	59,587,394	62,369,423	69,030,159	83,259,862	97,914,626	881,449,753		9
				· · · ·					
.,400,065	5,105,874 24,629,384	4,764,739 25,111,177	3,855,268 26,826,572	4,140,394 29,446,417	2,968,330 36,305,214	3,285,502 46,159,102	48,020,563 388,450,687)	11
87,689,574	88,374,475	89,463,310	93,051,263	102,616,970	122,533,406	147,359,230	1,317,921,003		19
5,602,252 19,364,972 2,786,605	3,477,050 18,606,378 1,886,996	3,035,356 19,473,061 1,869,999	3,784,998 19,434,988 2,714,615	6,031,555 21,215,754 3,481,096	11,959,412 22,007,749 6,039,943	20,180,322 20,806,654 9,950,711	145,856,368 235,378,789 70,363,141	134,919,118 213,467,798 63,674,593	20 21 22
27,753,829	23,970,424	24,378,416	25,934,601	30,728,405	40,007,104	50,937,687	451,598,298	412,061,509	30
26,118,308 52,586	26,871,216 50,623	26,295,124 55,297	27,125,032 61,063	29,289,379 79,197	33,071,691 92,626	35,988,642 103,765	359,606,260 833,466	342,812,316 551,005	31 32
53,924,723	50,892,263	50,728,837	53,120,696	60,096,981	73,171,421	87,030,094	812,038,024	755,424,830	33
5,862,640 - 159,822	6,751,487 - 266,566	5,776,280 231,302	4,813,658 226,529	3,758,519 - 102,523	687,550 280,533	520,079 143,260	35,960,581 403,645	26,038,186	34
1,475,841 1,984,896	1,521,333 - 259,300	1,531,913 1,319,062	1,591,855 2,616,685	1,703,544 3,573,638	1,805,843 7,314,515	2,552,148 7,669,045	21,195,062 11,852,441		36
59,118,486	58,639,217	59,587,394	62,369,423	69,030,159	83,259,862	97,914,626	881,449,753		39
6,947,007	16,385,216	16,936,705	18,332,801	20,682,808	27,309,709	35,871,114	288,566,710		40
,624,081 ,689,574	13,350,042 88,374,475	12,939,211	12,349,039 93,051,263	12,904,003 102,616,970	11,963,835	13,573,490	147,904,540		42

.. Figures not available. ... Figures not appropriate or not applicable.

TABLE 3. Receipts and Disposition of Natural Gas by Source

December 1963

		New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Imports from U.S.A.	Total
0.					Mcf.			_
	Receipts							
1	By transport systems:							
la lb	Fields Processing plants	-	-	-	6,564,037 48,048,846	313,335 10,229,913	4 0 0	6,877,372 58,278,759
2	By distribution systems:							
2a 2b	Fields Processing plants	13,326	1,894,336	772,072 2,488,221	13,885,862 6,306,633	9,879 65,644		16,575,47 8,860,498
3	Total (1 + 2)	13,326	1,894,336	3,260,293	74,805,378	10,618,771	e # 0	90,592,104
4	Imports Other receipts		3,367	•••	58,572		12,710	12,710
6	Total net receipts (3 + 4 + 5)	13,326	1,897,703	3,260,293	74,863,950	10,618,771	12,710	90,666,75
7	Received from storage	-	6,638,834	260,411	348,628	-		7,247,87
	Total supply of gas utilities (6 + 7)	13,326	8,536,537	3,520,704	75,212,578	10,618,771	12,710	97,914,52
	Disposition							
	Sales:							
	British Columbia Alberta	-	-	-	1,253,834 18,223,419	3,133,340	12,710	4,387,17
5	Saskatchewan Manitoba	-	-	2,046,985	2,288,375 2,450,589	-	-	4,335,36
	Ontario		8,000,330	-	10,220,397	-	-	18,220,72
	Quebec	- 1	-	-	2,758,512	-	-	2,758,51
	New Brunswick	6,624	-	-	-	-	-	6,63
)	Total sales (23 + 24 + 25 + 26 + 27 + 28 + 29)	6,624	8,000,330	2,589,557	37,195,126	3,133,340	12,710	50,937,68
2	Exports	:	-	:	29,005,136 103,765	6,983,506	P P 8 3 6 9	35,988,64 103,76
3	Total net deliveries (30 + 31 + 32)	6,624	8,000,330	2,589,557	66 <mark>,30</mark> 4,027	10,116,846	12,710	87,030,09
	Delivered to storage	-	-	39,276	480,803	-	-	520,07
5	Line pack fluctuation	-	-	9,175	30,838	103,247	-	143.26
5	Gas used in system Line losses and unaccounted for	-	21,582		2,277,590	200,327	-	2,552,14
,	Total demand on gas	6,702	514,625	830,047	0,113,340	1 20,331		/,009,0 ⁴
	utilities (33 + 34 + 35 + 36 + 37)	13,326	8,536,537	3,520,704	75,212,578	10,618,771	12,710	97,914,6

... Figures not appropriate or not applicable.

TABLE 4. Operating Statistics: Natural Gas Utilities

December 1963

	Natural gas transport systems	Natural gas distribution systems	Total natural gas utilities
Daily sendouts (Mcf.):			
December 1963:			
Daily average	2,318,057	1,643,151	2,824,199
Maximum(1)	2,677,506		
Minimum(1)	2,072,572		
Exports maximum(1)	1,208,998		1,208,998
December 1962 ^r :			
Daily average		1,402,282	
Maximum(1)	2,412,942		* • •
Minimum(1)	1,769,767		
Year to date 1963:			
Daily average	1,775,816	1,237,256	2,323,284
Maximum(1)	2,677,506		
Minimum(1)	1,130,725		
Commodity miles:			
Mcf. miles (thousands)	58,241,915		
Ton-miles (millions)	1,328		
Line pack:			
Beginning of month (Mcf.)	6,475,443		
End of month (Mcf.)	6,594,431		
Operating revenues	(\$)21,832,921	(\$)34,475,588	(\$)44,350,495(

(1) Non-coincident.

(2) Interindustry revenues eliminated... Figures not available.

... Figures not appropriate or not applicable. r Revised figures.

TABLE 5. Manufactured and Liquefied Petroleum Gases Utilities

Receipts and Disposition

December 1963

	Manufactured	Liquefied petroleum gases	
	Mc	f.	
Gas receipts	65,311	261,630	
Deliveries to ultimate customers Line pack fluctuations Gas used in system Metering difference, line losses, cyclical billing adjust-	62,482 - 2,074	229,027 2,074 2,925	
ments and unaccounted for	4,903	27,604	
Total disposition	65,311	261,630	
Daily average sendout	2,016	7,388	
Revenues	(\$)46,574	(\$)181,786	



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

- 8 -

Customs port	Exports	Imports
	Mcf.	
Cornwall, Ontario	206,681	
Ojibway, Ontario	-	
Emerson, Manitoba	6,327,239	
Coutts, Alberta	578	12,710
Aden, Alberta	1,451,773	
Carway, Alberta	926,387	
Kingsgate, British Columbia	17,790,656	
Huntingdon, British Columbia	9,285,328	1
Canada	35,988,642	12,710

December 1963