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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JULY 1964

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Crude oil and equivalent production increased 9.6 per cent to 24,842,105 barrels (801,358 barrels/day) in July 1964 from 22,664,589 barrels last year. Production of pentanes plus amounted to 1,976,197 barrels. The disposition of Canadian crude oil and equivalent was 66.5 per cent to Canadian refineries, 32.3 per cent was exported and other disposition accounted for 1.2 per cent.

Natural gas production increased 19.2 per cent to 95,251,918 Mcf. from 79,910,003 Mcf. in July 1963. Of the total production of 95.3 million Mcf., 23.0 million was net deliveries to storage and injection operations, 16.2 million was used, lost or unaccounted for in fields and processing plants, 28.3 million was exported, 12.1 million was sold to ultimate customers in the prairies, 8.8 million in Ontario, 2.6 million in Quebec and 1.9 million in British Columbia. The remaining 2.4 million Mcf. was accounted for by other deliveries, line pack changes and pipeline fuel.

Table 1 includes all crude oil and equivalent hydrocarbon production of condensates and pentanes plus. Pentanes plus represent the production of crude oil equivalent at processing plants while crude oil production is production in the fields.

Table 2 Supply and Disposition of Crude Oil and Equivalent, was formerly published in "Refined Petroleum Products", Catalogue number 45-004. Disposition is given to the first stage of marketing, either directly as deliveries to refineries or export. The companion publication "Refined Petroleum Products" gives the disposition of crude oil received by the refinery including the sales of various refined petroleum products. Inventories held by purchasers and refiners in field and pipeline are included in Table 2, while inventories held by refiners in a refinery complex are excluded. Additional details on the movement of crude oil by pipeline are given in another companion report "Oil Pipeline Transport", Catalogue number 55-001.

All volumes of crude oil are given in barrels of 35 Canadian ("Imperial") gallons at 60°F. Additional details of production are published by the individual provinces.

In Table 3, disposition is given to the ultimate delivery by the gas utilities. Deliveries of natural gas to storage are considered as terminated, and therefore receipts from storage originate in the province where the storage is located. Field flared and waste gas are not considered as net new production; however, processing plant flared and waste gas are included and constitute a disposition and use.

Marketable gas is taken to include all gas purchased by gas utilities either directly from fields or from processing plants, and represents the basic point of trade between producers and purchasers.

A companion publication, "Natural Gas Utilities", Catalogue number 55-002 provides additional details on the movement and sales of natural gas, while a second companion report "Sales of Manufactured and Natural Gas", Catalogue number 45-005 provides details on the sales and revenues by rate categories.

All volumes of natural gas are given in thousand cubic feet measured at 14.73 p.s.i.a. and 60°F.

Industry Division

October 1964  
6511-515

TABLE 1. Production of Crude Oil, Condensate and Pentanes Plus by Month, by Province, 1964

	New Brunswick	Ontario	Manitoba	Saskatchewan <sup>F</sup>	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 "Imperial" gallons								
<u>Crude oil and condensate</u>								
January .....	666	105,271	328,262	6,708,040	15,996,584	992,783	44,175	24,175,781
February .....	398	99,211	321,185	6,388,363	15,311,130	912,755	64,846	23,097,888
March .....	477	112,700	346,811	6,822,575	15,363,508	996,094	35,703	23,677,868
April .....	-	111,006	333,701	6,388,399	12,204,389	984,862	60,202	20,082,559
May .....	769	111,712	346,115	6,695,960	14,718,155	1,016,058	24,278	22,913,047
June .....	308	103,809	359,665	6,730,224	14,572,378	934,947	32,564	22,733,895
July .....	299	106,230	379,261	6,874,151	14,491,869	954,703	59,395	22,865,908
August .....								
September .....								
October .....								
November .....								
December .....								
<u>Pentanes plus</u>								
January .....	-	-	-	23,375	2,016,981	84,092	-	2,124,448
February .....	-	-	-	22,632	1,887,373	80,627	-	1,990,632
March .....	-	-	-	23,248	1,935,958	83,885	-	2,043,091
April .....	-	-	-	21,241	1,976,299	75,303	-	2,072,843
May .....	-	-	-	23,349	1,906,204	73,221	-	2,002,774
June .....	-	-	-	21,278	1,850,876	54,497	-	1,926,651
July .....	-	-	-	26,810	1,889,904	59,483	-	1,976,197
August .....								
September .....								
October .....								
November .....								
December .....								
Total July 1964 .....	299	106,230	379,261	6,900,961	16,381,773	1,014,186	59,395	24,842,105
Total year to date .....	2,917	749,939	2,415,000	46,769,645	116,121,608	7,303,310	321,163	173,683,582
Total July 1963 .....	609	104,133	324,695	5,521,939	15,755,141	903,214	54,858	22,664,589

<sup>F</sup> Revised figures.

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, July 1964

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
barrels of 35 "Imperial" gallons										
<u>New supply</u>										
Domestic production:										
Crude oil .....	299	106,230	379,261	6,874,151	14,444,278	951,912	59,395	22,815,526	...	22,815,526
Condensate .....	-	-	-	-	47,591	2,791	-	50,382	...	50,382
Pentanes plus .....	-	-	-	26,810	1,889,904	59,483	-	1,976,197	...	1,976,197
Total crude oil and equivalent	299	106,230	379,261	6,900,961	16,381,773	1,014,186	59,395	24,842,105	...	24,842,105
Imports .....	...	...	...	...	...	...	...	...	12,304,498	12,304,498
Total new supply .....	299	106,230	379,261	6,900,961	16,381,773	1,014,186	59,395	24,842,105	12,304,498	37,146,603
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	299	-	-	-	-	-	-	299	3,095,775	3,096,074
Quebec .....	-	-	-	-	-	-	-	-	9,140,117	9,140,117
Ontario .....	-	106,230	304,675	4,362,090	4,595,570	-	-	9,368,565	80,205	9,448,770
Manitoba .....	-	-	113,272	593,298	180,757	-	-	887,327	-	887,327
Saskatchewan .....	-	-	-	478,378	1,410,648	-	-	1,889,026	-	1,889,026
Alberta .....	-	-	-	75,863	2,672,869	-	-	2,748,732	-	2,748,732
British Columbia .....	-	-	-	-	843,762	843,205	-	1,686,967	-	1,686,967
Northwest Territories .....	-	-	-	-	-	-	69,918	69,918	-	69,918
Totals .....	299	106,230	417,947	5,509,629	9,703,606	843,205	69,918	16,650,834	12,316,097	28,966,931
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	4,257,262	134,918	-	4,392,180	-	4,392,180
East of Rocky Mountains .....	-	-	-	-	308,409	-	-	308,409	-	308,409
Great Lakes Area .....	-	-	-	1,284,514	2,112,507	-	-	3,397,021	-	3,397,021
Totals .....	-	-	-	1,284,514	6,678,178	134,918	-	8,097,610	-	8,097,610
Deliveries to other purchasers ..	-	-	-	1,775	9,739	-	-	11,514	-	11,514
Inventories:										
Opening - Field and plant .....	-	-	92,269	377,053	1,138,848	49,104	75,217	1,732,491	-	1,732,491
Transporters' .....	-	-	13,798	4,974,435	14,255,760	859,535	-	20,103,528	243,989	20,347,517
Closing - Field and plant .....	-	-	82,237	386,645	1,161,947	50,219	64,530	1,745,578	-	1,745,578
Transporters' .....	-	-	14,085	5,052,310	13,950,732	883,817	-	19,900,944	232,047	20,132,991
Net change .....	-	-	- 9,745	87,467	- 281,929	25,397	- 10,687	- 189,497	- 11,942	- 201,439
Pipeline fuel .....	-	-	-	-	24,423	-	-	24,423	-	24,423
Field and plant use .....	-	-	-	1,311	12,193	- 462	-	13,042	-	13,042
Losses and adjustments .....	-	-	- 28,941	16,265	235,563	11,128	164	234,179	343	234,522
Total disposition .....	299	106,230	379,261	6,900,961	16,381,773	1,014,186	59,395	24,842,105	12,304,498	37,146,603

... Figures not appropriate or not applicable.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, July 1964

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production .....	6,103	694,424	4,299,079
2	Less field flared and waste .....	-	-	1,778,238
3	Net new production (1 - 2) .....	6,103	694,424	2,520,841
	<u>Disposition</u>			
4	Field disposition and uses .....	137	-	146,627
5	Gathering system disposition and uses .....	-	-	51,166
6	Processing plant disposition and uses:			
6a	Processing shrinkage .....	-	-	163,354
6b	Other disposition and uses .....	-	-	99,353
7	Field injection and storage:			
7a	Injected and stored .....	-	-	77,942
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	77,942
8	Other uses .....	-	-	346,716
9	Adjustment .....	-	-	- 99
10	Deliveries of marketable gas .....	5,966	694,424	1,635,782
11	Total disposition .....	6,103	694,424	2,520,841
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants .....	-	-	1,424,825
12b	Fields .....	5,966	694,424	180,947
13	Total (12a + 12b) .....	5,966	694,424	1,635,782
14	Receipts from distributor storage .....	-	8,653	96,625
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	5,966	703,077	1,732,407
	<u>Disposition</u>			
	Sales:			
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	-
19	Saskatchewan .....	-	-	1,760,218
20	Manitoba .....	-	-	184,562
21	Ontario .....	-	644,918	-
22	Quebec .....	-	-	-
23	New Brunswick .....	4,819	-	-
24	Total sales (17 to 23 inclusive) .....	4,819	644,918	1,944,780
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	104,855
28	Pipeline line pack fluctuation .....	-	-	- 8,942
29	Pipeline fuel .....	-	49,910	18,943
30	Pipeline losses etc. ....	1,147	8,249	- 327,229
31	Total disposition of marketable gas (24 to 30 inclusive) .....	5,966	703,077	1,732,407

(1) L.P.G. for gas enrichment, peak shaving or temporary supply.

(2) Direct deliveries for industrial consumption and miscellaneous utility deliveries.



TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, July 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
87,310,407	9,549,479	83,715	101,943,207	-	101,943,207	1
3,869,868	961,077	82,106	6,691,289	-	6,691,289	2
83,440,539	8,588,402	1,609	95,251,918	-	95,251,918	3
695,004	78,666	-	920,434	-	920,434	4
303,800	-	-	354,966	-	354,966	5
7,702,612	408,476	-	8,274,442	-	8,274,442	6a
3,970,382	352,645	-	4,422,380	-	4,422,380	6b
16,056,076	-	-	16,134,018	-	16,134,018	7a
152,636	-	-	152,636	-	152,636	7b
15,903,440	-	-	15,981,382	-	15,981,382	7c
62,293	-	1,609	410,618	-	410,618	8
1,322,881	219,943	-	1,542,725	-	1,542,725	9
53,480,127	7,528,672	-	63,344,971	-	63,344,971	10
83,440,539	8,588,402	1,609	95,251,918	-	95,251,918	11
47,226,764 <sup>x</sup>	7,280,538	-	55,962,137	-	55,962,137	12a
6,253,363	248,134	-	7,382,834	-	7,382,834	12b
53,480,127	7,528,672	-	63,344,971	-	63,344,971	13
12,292	-	-	117,570	-	117,570	14
5,381	-	-	5,381	-	5,381	15
53,497,800	7,528,672	-	63,467,922	852,674	64,320,596	16
373,653	1,536,059	-	1,909,712	-	1,909,712	17
8,780,223	-	-	8,780,223	1,553	8,781,776	18
624,859	-	-	2,385,077	-	2,385,077	19
745,000	-	-	929,562	-	929,562	20
8,163,300	-	-	8,808,218	851,121	9,659,339	21
2,565,302	-	-	2,565,302	-	2,565,302	22
-	-	-	4,819	-	4,819	23
21,252,337	1,536,059	-	25,382,913	852,674	26,235,587	24
22,433,342	5,888,142	-	28,321,484	-	28,321,484	25
551,636	-	-	551,636	-	551,636	26
7,078,823	-	-	7,183,678	-	7,183,678	27
- 17,087	- 194,907	-	- 220,936	-	- 220,936	28
1,814,591	84,681	-	1,968,125	-	1,968,125	29
384,158 <sup>x</sup>	214,697	-	281,022	-	281,022	30
53,497,800	7,528,672	-	63,467,922	852,674	64,320,596	31

<sup>x</sup> Revised figures.

TABLE 4. Production of Natural Gas by Month, by Province, 1964

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F							
January .....	13,661	1,153,281	4,182,480	104,620,680	13,168,099	3,682	123,141,883
February .....	12,317	1,886,872	3,829,373	96,531,124	11,818,507	4,461	114,082,654
March .....	12,711	2,191,960	3,969,890	95,902,648	12,515,103	2,836	114,595,148
April .....	9,157	1,045,233	3,351,961	94,197,166	11,159,635	2,217	109,765,369
May .....	7,133	840,958	3,265,045	87,294,397	10,347,502	1,849	101,756,884
June .....	6,437	764,647	3,069,937	79,754,569	7,904,296	1,838	91,501,724
July .....	6,103	694,424	2,520,841	83,440,539	8,588,402	1,609	95,251,918
August .....							
September .....							
October .....							
November .....							
December .....							
Total year to date .....	67,519	8,577,375	24,189,527	641,741,123	75,501,544	18,492	750,095,580
Total July 1963 .....	6,205	666,550	2,387,634	70,220,311	6,626,574	2,729	79,910,003

TABLE 5. Production of Propane and Butanes from Natural Gas by Month, by Province, 1964

Month	Propane				Butanes			
	Saskatchewan	Alberta	British Columbia	Canada	Saskatchewan	Alberta	British Columbia	Canada
barrels of 35 "Imperial" gallons								
January .....	56,111	496,469	21,766	574,346	29,680	351,803	37,511	418,994
February .....	52,676	434,516	18,776	505,968	29,412	322,486	37,596	389,494
March .....	57,419	432,777	16,616	506,812	30,529	302,108	41,298	373,935
April .....	54,841	431,917	13,979	500,737	29,732	304,461	31,524	365,717
May .....	50,031	377,772	10,585	438,388	32,444	317,211	30,280	379,935
June .....	44,868	389,203	8,981	443,052	30,178	286,303	33,566	350,047
July .....	52,363	453,798	6,656	512,817	38,531	339,069	33,690	411,290
August .....								
September .....								
October .....								
November .....								
December .....								
Total year to date .....	368,309	3,016,452	97,359	3,482,120	220,506	2,223,441	245,465	2,689,412
Total July 1963 .....	41,057	240,623	29,620	311,300	23,849	175,963	32,318	232,130



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