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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

APRIL 1964

OF STATISTICS

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Crude oil and equivalent production increased 7.2 per cent to 22,170,708 barrels (739,024 barrels/day) in April 1964 from 20,684,760 barrels last year. Production of pentanes plus amounted to 2,072,843 barrels. The disposition of Canadian crude oil and equivalent was 63.5 per cent to Canadian refineries, 36.1 per cent was exported and other disposition accounted for 0.4 per cent.

Natural gas production increased 20.4 per cent to 109,765,369 Mcf. from 91,136,216 Mcf. in April 1963. Of the total production of 109.8 million Mcf., 17.7 million was net deliveries to storage and injection operations, 9.3 million was used, lost or unaccounted for in fields and processing plants, 32.3 million was exported, 22.6 million was sold to ultimate customers in the prairies, 18.2 million in Ontario, 3.6 million in British Columbia and 2.6 million in Quebec. The remaining 3.5 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

August 1964  
6511-515

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

	New Brunswick	Ontario	Manitoba	Saskatchewan	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	6,403,705	12,204,389	984,862	60,202	20,097,865
May .....								
June .....								
July .....								
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 .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total April 1964 .....	-	111,006	333,701	6,424,946	14,180,688	1,060,165	60,202	22,170,708
Total year to date .....	1,541	428,188	1,329,959	26,413,179	66,692,222	4,210,401	204,926	99,280,800
Total April 1963 .....	234	102,453	307,660	5,502,785	13,738,025	981,776	51,827	20,684,760

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, April 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 .....	-	111,006	333,701	6,403,705	12,149,685	983,171	60,202	20,041,470	...	20,041,470
Condensate .....	-	-	-	-	54,704	1,691	-	56,395	...	56,395
Pentanes plus .....	-	-	-	21,241	1,976,299	75,303	-	2,072,843	...	2,072,843
Total crude oil and equivalent	-	111,006	333,701	6,424,946	14,180,688	1,060,165	60,202	22,170,708	...	22,170,708
Imports .....	...	...	...	...	...	...	...	...	10,758,236	10,758,236
Total new supply .....	-	111,006	333,701	6,424,946	14,180,688	1,060,165	60,202	22,170,708	10,758,236	32,928,944
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	-	-	-	-	-	-	-	-	2,715,105	2,715,105
Quebec .....	-	-	-	-	-	-	-	-	8,006,629	8,006,629
Ontario .....	-	111,006	244,558	3,877,930	3,682,895	-	-	7,916,389	-	7,916,389
Manitoba .....	-	-	84,612	845,515	151,021	-	-	1,081,148	-	1,081,148
Saskatchewan .....	-	-	-	160,456	593,338	-	-	753,794	-	753,794
Alberta .....	-	-	-	45,490	1,816,189	-	-	1,861,679	-	1,861,679
British Columbia .....	-	-	-	-	1,892,199	820,448	-	2,712,647	-	2,712,647
Northwest Territories .....	-	-	-	-	-	-	62,357	62,357	-	62,357
Totals .....	-	111,006	329,170	4,929,391	8,135,642	820,448	62,357	14,388,014	10,721,734	25,109,748
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	4,012,102	78,270	-	4,090,372	-	4,090,372
East of Rocky Mountains .....	-	-	-	-	419,300	-	-	419,300	-	419,300
Great Lakes Area .....	-	-	-	1,542,217	2,119,711	-	-	3,661,928	-	3,661,928
Totals .....	-	-	-	1,542,217	6,551,113	78,270	-	8,171,600	-	8,171,600
Deliveries to other purchasers ..	-	-	-	1,481	487	-	-	1,968	-	1,968
Inventories:										
Opening - Field and plant .....	-	-	79,414	422,235	1,234,974	51,993	82,294	1,870,910	-	1,870,910
Transporters' .....	-	-	14,163	4,740,607	15,230,259	1,041,267	-	21,026,296	188,871	21,215,167
Closing - Field and plant .....	-	-	84,254	398,326	1,174,884	52,092	80,087	1,789,643	-	1,789,643
Transporters' .....	-	-	13,199	4,662,951	14,747,117	1,195,222	-	20,618,489	224,118	20,842,607
Net change .....	-	-	3,876	- 101,565	- 543,232	154,054	- 2,207	- 489,074	35,247	- 453,827
Pipeline fuel .....	-	-	-	-	28,953	-	-	28,953	-	28,953
Field and plant use .....	-	-	-	168	6,790	733	-	7,691	-	7,691
Losses and adjustments .....	-	-	655	53,254	935	6,660	52	61,556	1,255	62,811
Total disposition .....	-	111,006	333,701	6,424,946	14,180,688	1,060,165	60,202	22,170,708	10,758,236	32,928,944

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production .....	9,157	1,045,233	5,190,281
2	Less field flared and waste .....	-	-	1,838,320
3	Net new production (1 - 2) .....	9,157	1,045,233	3,351,961
	<u>Disposition</u>			
4	Field disposition and uses .....	205	-	146,132
5	Gathering system disposition and uses .....	-	-	78,260
6	Processing plant disposition and uses:			
6a	Processing shrinkage .....	-	-	170,906
6b	Other disposition and uses .....	-	-	133,567
7	Field injection and storage:			
7a	Injected and stored .....	-	-	78,855
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	78,855
8	Other uses .....	-	-	85,618
9	Adjustment .....	-	-	-
10	Deliveries of marketable gas .....	8,952	1,045,233	2,658,623
11	Total disposition .....	9,157	1,045,233	3,351,961
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants .....	-	-	4,344,344
12b	Fields .....	8,952	1,045,233	514,479
13	Total (12a + 12b) .....	8,952	1,045,233	2,658,623
14	Receipts from distributor storage .....	-	1,101,384	21,531
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	8,952	2,146,617	2,680,154
	<u>Disposition</u>			
	Sales:			
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	-
19	Saskatchewan .....	-	-	3,326,548
20	Manitoba .....	-	-	368,989
21	Ontario .....	-	2,386,460	-
22	Quebec .....	-	-	-
23	New Brunswick .....	6,073	-	-
24	Total sales (17 to 23 inclusive) .....	6,073	2,386,460	3,695,537
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	498,896
28	Pipeline line pack fluctuation .....	-	-	- 9,174
29	Pipeline fuel .....	-	33,892	42,474
30	Pipeline losses etc. ....	2,879	- 273,735	- 1,547,579
31	Total disposition of marketable gas (24 to 30 inclusive) .....	8,952	2,146,617	2,680,154

(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, April 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
97,797,178	12,359,238	81,810	116,482,897	-	116,482,897	1
3,600,012	1,199,603	79,593	6,717,528	-	6,717,528	2
94,197,166	11,159,635	2,217	109,765,369	-	109,765,369	3
1,203,771	- 78,857	-	1,271,251	-	1,271,251	4
367,526	-	-	445,786	-	445,786	5
8,138,996	480,192	-	8,790,094	-	8,790,094	6a
4,460,931	694,072	-	5,288,570	-	5,288,570	6b
16,124,032	-	-	16,202,887	-	16,202,887	7a
127,755	-	-	127,755	-	127,755	7b
15,996,277	-	-	16,075,132	-	16,075,132	7c
- 106,735	-	2,217	- 18,900	-	- 18,900	8
430,737	12,286	-	443,023	-	443,023	9
63,705,663	10,051,942	-	77,470,413	-	77,470,413	10
94,197,166	11,159,635	2,217	109,765,369	-	109,765,369	11
61,571,109	9,834,622	-	63,499,875	-	63,499,875	12a
12,184,534	217,320	-	13,970,538	-	13,970,538	12b
63,705,663	10,051,942	-	77,470,413	-	77,470,413	13
32,709	-	-	1,155,624	-	1,155,624	14
6,061	-	-	6,061	-	6,061	15
63,744,433	10,051,942	-	78,632,098	1,655,234	80,287,332	16
849,566	2,788,053	-	3,637,619	-	3,637,619	17
14,760,921	-	-	14,760,921	7,740	14,768,661	18
1,573,781	-	-	4,900,329	-	4,900,329	19
2,599,810	-	-	2,968,799	-	2,968,799	20
15,856,581	-	-	18,243,041	1,647,494	19,890,535	21
2,606,040	-	-	2,606,040	-	2,606,040	22
-	-	-	6,073	-	6,073	23
38,246,699	2,788,053	-	47,122,822	1,655,234	48,778,056	24
25,139,079	7,156,240	-	32,295,319	-	32,295,319	25
807,823	-	-	807,823	-	807,823	26
2,284,486	-	-	2,783,382	-	2,783,382	27
164,834	- 62,854	-	92,806	-	92,806	28
2,262,927	156,251	-	2,495,544	-	2,495,544	29
- 5,161,415	14,252	-	- 6,965,598	-	- 6,965,598	30
63,744,433	10,051,942	-	78,632,098	1,655,234	80,287,332	31



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 .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							
Total year to date .....	47,846	6,277,346	15,333,704	391,251,618	48,661,344	13,196	461,585,054
Total April 1963	8,790	979,143	2,778,702	76,989,647	10,374,001	5,933	91,136,216

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

Month	Propane				Butanes			
	Saskatchewan <sup>F</sup>	Alberta	British Columbia	Canada	Saskatchewan <sup>F</sup>	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 .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total year to date .....	221,047	1,795,679	71,137	2,087,863	119,353	1,280,858	147,929	1,548,140
Total April 1963	39,071	247,779	31,110	317,960	21,264	185,724	41,159	248,147

<sup>F</sup> Revised figures.



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