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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

MARCH 1964

Crude oil and equivalent production increased 10.7 per cent to 25,720,959 barrels (829,708 barrels/day) in March 1964 from 23,238,015 barrels last year. Production of pentanes plus amounted to 2,043,091 barrels. The disposition of Canadian crude oil and equivalent was 64.6 per cent to Canadian refineries, 32.7 per cent was exported and other disposition accounted for 2.7 per cent.

Natural gas production increased 16.4 per cent to 114,595,148 Mcf. from 98,481,750 Mcf. in March 1963. Of the total production of 114.6 million Mcf., 9.1 million was net deliveries to storage and injection operations, 13.6 million was used, lost or unaccounted for in fields and processing plants, 34.6 million was exported, 24.0 million was sold to ultimate customers in the prairies, 20.6 million in Ontario, 4.4 million in British Columbia and 2.8 million in Quebec. The remaining 5.5 million Mcf. was accounted for by other deliveries, line pack changes, etc.

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

July 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								
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								
May								
June								
July								
August								
September								
October								
November								
December								
Total March 1964	477	112,700	346,811	6,845,823	17,299,466	1,079,979	35,703	25,720,959
Total year to date	1,541	317,182	996,258	19,988,233	52,511,534	3,150,236	144,724	77,109,708
Total March 1963	687	94,632	314,673	6,097,754	15,579,837	1,102,864	47,568	23,238,015

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

	New Brunswick	Ontario	Manitoba	Saskat- chewan	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	477	112,700	346,811	6,822,575	15,290,425	993,918	35,703	23,602,609	...	23,602,609
Condensate	-	-	-	-	73,083	2,176	-	75,259	...	75,259
Pentanes plus	-	-	-	23,248	1,935,958	83,885	-	2,043,091	...	2,043,091
Total crude oil and equivalent	477	112,700	346,811	6,845,823	17,299,466	1,079,979	35,703	25,720,959	...	25,720,959
Imports .....	...	...	...	...	...	...	...	...	12,111,842	12,111,842
Total new supply	477	112,700	346,811	6,845,823	17,299,466	1,079,979	35,703	25,720,959	12,111,842	37,832,801
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	267	-	-	-	-	-	-	267	3,690,243	3,690,510
Quebec	-	-	-	-	-	-	-	-	8,419,850	8,419,850
Ontario	-	112,700	256,823	4,189,185	4,322,388	-	-	8,881,096	-	8,881,096
Manitoba	-	-	82,615	886,400	257,706	-	-	1,226,721	-	1,226,721
Saskatchewan	-	-	-	368,661	1,106,358	-	-	1,475,019	-	1,475,019
Alberta	-	-	-	5,014	2,289,250	-	-	2,294,264	-	2,294,264
British Columbia	-	-	-	-	1,678,946	1,028,330	-	2,707,276	-	2,707,276
Northwest Territories	-	-	-	-	-	-	36,099	36,099	-	36,099
Totals	267	112,700	339,438	5,449,260	9,654,648	1,028,330	36,099	16,620,742	12,110,093	28,730,835
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,417,591	92,220	-	4,509,811	-	4,509,811
East of Rocky Mountains	-	-	-	-	421,514	-	-	421,514	-	421,514
Great Lakes Area	-	-	-	1,302,488	2,184,366	-	-	3,486,854	-	3,486,854
Totals	-	-	-	1,302,488	7,023,471	92,220	-	8,418,179	-	8,418,179
Deliveries to other purchasers ..	-	-	-	745	10,760	-	-	11,505	-	11,505
Inventories:										
Opening - Field and plant	-	-	75,152	427,153	1,205,333	62,013	82,690	1,852,341	-	1,852,341
Transporters'	-	-	13,118	4,576,800	14,924,092	1,072,969	-	20,586,979	188,990	20,775,969
Closing - Field and plant	-	-	79,414	421,962	1,234,974	51,993	82,294	1,870,637	-	1,870,637
Transporters'	-	-	14,163	4,740,607	15,230,259	1,041,267	-	21,026,296	188,871	21,215,167
Net change	-	-	5,307	158,616	335,808	- 41,722	- 396	457,613	- 119	457,494
Pipeline fuel	-	-	-	-	32,375	-	-	32,375	-	32,375
Field and plant use	-	-	-	99	17,792	1,402	-	19,293	-	19,293
Losses and adjustments	210	-	2,066	- 65,385	224,612	- 251	-	161,252	1,868	163,120
Total disposition	477	112,700	346,811	6,845,823	17,299,466	1,079,979	35,703	25,720,959	12,111,842	37,832,801

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	12,711	2,191,960	5,724,415
2	Less field flared and waste	-	-	1,754,525
3	Net new production (1 - 2)	12,711	2,191,960	3,969,890
	<u>Disposition</u>			
4	Field disposition and uses	291	-	169,838
5	Gathering system disposition and uses	-	-	44,488
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	175,948
6b	Other disposition and uses	-	-	146,382
7	Field injection and storage:			
7a	Injected and stored	-	-	92,821
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	92,821
8	Other uses	-	-	313,769
9	Adjustment	-	-	-
10	Deliveries of marketable gas	12,420	2,191,960	3,026,644
11	Total disposition	12,711	2,191,960	3,969,890
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants	-	-	2,373,414
12b	Fields	12,420	2,191,960	653,230
13	Total (12a + 12b)	12,420	2,191,960	3,026,644
14	Receipts from distributor storage	-	3,296,057	281,490
15	Other receipts(1)	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	12,420	5,488,017	3,308,134
	<u>Disposition</u>			
	Sales:			
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	2,045,600
20	Manitoba	-	-	517,834
21	Ontario	-	5,469,438	-
22	Quebec	-	-	-
23	New Brunswick	5,582	-	-
24	Total sales (17 to 23 inclusive)	5,582	5,469,438	2,563,434
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	128,473
28	Pipeline line pack fluctuation	-	-	- 170
29	Pipeline fuel	-	70,882	54,064
30	Pipeline losses etc.	6,838	- 52,303	562,333
31	Total disposition of marketable gas (24 to 30 inclusive)	12,420	5,488,017	3,308,134

(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, March 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
100,102,809	13,709,597	75,760	121,817,252	-	121,817,252	1
4,200,161	1,194,494	72,924	7,222,104	-	7,222,104	2
95,902,648	12,515,103	2,836	114,595,148	-	114,595,148	3
211,811	- 11,843	-	370,097	-	370,097	4
389,827	-	-	434,315	-	434,315	5
8,427,596	573,324	-	9,176,868	-	9,176,868	6a
3,950,007	641,567	-	4,737,956	-	4,737,956	6b
12,563,750	-	-	12,656,571	-	12,656,571	7a
534,297	-	-	534,297	-	534,297	7b
12,029,453	-	-	12,122,274	-	12,122,274	7c
85,186	-	2,836	401,791	-	401,791	8
- 1,512,518	39,783	-	- 1,472,735	-	- 1,472,735	9
72,321,286	11,272,272	-	88,824,582	-	88,824,582	10
95,902,648	12,515,103	2,836	114,595,148	-	114,595,148	11
57,371,447	10,899,319	-	70,644,180	-	70,644,180	12a
14,949,839	372,953	-	18,180,402	-	18,180,402	12b
72,321,286	11,272,272	-	88,824,582	-	88,824,582	13
123,408	-	-	3,700,955	-	3,700,955	14
9,929	-	-	9,929	-	9,929	15
72,454,623	11,272,272	-	92,535,466	11,539	92,547,005	16
1,008,656	3,369,637	-	4,378,293	-	4,378,293	17
16,197,946	-	-	16,197,946	11,539	16,209,485	18
2,323,024	-	-	4,368,624	-	4,368,624	19
2,865,831	-	-	3,383,665	-	3,383,665	20
15,121,665	-	-	20,591,103	-	20,591,103	21
2,767,527	-	-	2,767,527	-	2,767,527	22
-	-	-	5,582	-	5,582	23
40,284,649	3,369,637	-	51,692,740	11,539	51,704,279	24
27,167,624	7,469,997	-	34,637,621	-	34,637,621	25
390,420	-	-	390,420	-	390,420	26
536,822	-	-	665,295	-	665,295	27
- 128,550	48,328	-	- 80,392	-	- 80,392	28
2,513,382	194,116	-	2,832,444	-	2,832,444	29
1,690,276	190,194	-	2,397,338	-	2,397,338	30
72,454,623	11,272,272	-	92,535,466	11,539	92,547,005	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							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	38,689	5,232,113	11,981,743	297,054,452	37,501,709	10,979	351,819,685
Total March 1963	13,297	1,690,671	3,547,617	81,668,221	11,555,929	6,015	98,481,750

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	57,142	432,777	16,616	506,535	29,755	302,108	41,298	373,161
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total year to date	165,929	1,363,762	57,158	1,586,849	88,847	976,397	116,405	1,181,649
Total March 1963	52,934	273,248	16,139	342,321	28,471	228,355	32,965	289,791

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