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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

Price: 20 cents, \$2.00 a year

MARCH 1965

The production of crude petroleum and equivalent hydrocarbon during March 1965 amounted to 27,686,209 barrels (893,104 barrels/day), an increase of 7.6 per cent or 2,045 barrels per day over the same period in 1964. The March production figures for all petroleum liquids for the two years are as follows:

	March 1965		March 1964	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates .....	25.2	812,903	23.7	764,516
Pentanes plus .....	2.5	80,645	2.0	64,516
Propanes and Butanes .....	1.5	48,387	0.9	29,032
Totals .....	29.2	941,935	26.6	858,064

The disposition of the March 1965 production was 17.7 million barrels (63.8 per cent) to Canadian refineries, 9.4 million barrels (33.9 per cent) was exported and the remaining 2.3 per cent was accounted for by other deliveries, pipeline fuel, field and plant use and losses and adjustments. Imported crude petroleum for this same period amounted to 12.0 million barrels (387,049 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbon production to 39.7 million barrels (1,280,645 barrels/day).

Natural gas production increased 15.7 per cent to 132,599,151 Mcf. from 114,595,149 Mcf. in March 1964. Of the total production of 132.6 million Mcf., 10.6 million was net deliveries to storage and injection operations, 18.8 million was used, lost or unaccounted for in fields and processing plants, 37.0 million was exported, 27.5 million was sold to ultimate customers in the prairies, 24.0 million in Ontario, 5.0 million in British Columbia and 3.0 million in Quebec. The remaining 6.7 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. 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. 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 gallons at 60°F. 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 end use.

Marketable gas is taken to include all natural gas purchased directly from fields or processing plants which meets the specifications required for domestic, commercial or industrial fuel use.

A companion publication, "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 in this report are given in thousand cubic feet measured at 14.73 p.s.i.a. at 60°F.

Industry Division

July 1965  
6511-515

TABLE 1. Production of Crude Oil, Condensate and Pentanes Plus by Month, by Province, 1965

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January .....	299	94,485	398,597	7,102,112	17,860,267	1,005,456	49,674	26,510,890
February .....	298	89,230	357,046	6,382,912	15,537,605	903,469	70,825	23,341,385
March .....	377	110,932	403,181	7,329,287	16,240,006	1,056,504	56,106	25,196,393
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
<u>Pentanes plus</u>								
January .....	-	-	-	20,971	2,387,019	86,369	-	2,494,359
February .....	-	-	-	18,714	2,138,274	82,964	-	2,239,952
March .....	-	-	-	21,262	2,376,638	91,916	-	2,489,816
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total March 1965 .....	377	110,932	403,181	7,350,549	18,616,644	1,148,420	56,106	27,686,209
Total year to date .....	974	294,647	1,158,824	20,875,258	56,539,809	3,226,678	176,605	82,272,795
Total March 1964 .....	477	112,700	346,811	6,847,059	17,299,466	1,079,979	35,703	25,722,195

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, March 1965

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
	barrels of 35 Canadian gallons									
<u>New supply</u>										
Domestic production:										
Crude oil .....	377	110,932	403,181	7,329,287	16,231,435	1,055,004	56,106	25,186,322	...	25,186,322
Condensate .....	-	-	-	-	8,571	1,500	-	10,071	...	10,071
Pentanes plus .....	-	-	-	21,262	2,376,638	91,916	-	2,489,816	...	2,489,816
Total crude oil and equivalent	377	110,932	403,181	7,350,549	18,616,644	1,148,420	56,106	27,686,209	...	27,686,209
Imports .....	...	...	...	...	...	...	...	...	12,001,278	12,001,278
Total new supply .....	377	110,932	403,181	7,350,549	18,616,644	1,148,420	56,106	27,686,209	12,001,278	39,687,487
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	377	-	-	-	-	-	-	377	3,321,390	3,321,767
Quebec .....	-	-	-	-	-	-	-	-	8,677,129	8,677,129
Ontario .....	-	110,932	316,805	3,829,773	4,767,761	-	-	9,025,271	-	9,025,271
Manitoba .....	-	-	106,663	721,722	530,988	-	-	1,359,373	-	1,359,373
Saskatchewan .....	-	-	-	483,732	1,295,134	-	-	1,778,866	-	1,778,866
Alberta .....	-	-	-	54,616	2,766,925	-	-	2,821,541	-	2,821,541
British Columbia .....	-	-	-	-	1,660,130	986,459	-	2,646,589	-	2,646,589
Northwest Territories .....	-	-	-	-	-	-	44,507	44,507	-	44,507
Totals .....	377	110,932	423,468	5,089,843	11,020,938	986,459	44,507	17,676,524	11,998,519	29,675,043
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	4,523,101	55,545	-	4,578,646	-	4,578,646
East of Rocky Mountains .....	-	-	-	-	443,032	-	-	443,032	-	443,032
Great Lakes Area .....	-	-	-	1,763,091	2,587,860	-	-	4,350,951	-	4,350,951
Totals .....	-	-	-	1,763,091	7,553,993	55,545	-	9,372,629	-	9,372,629
Deliveries to other purchasers ..	-	-	-	352	10,503	-	-	10,855	-	10,855
Inventories:										
Opening - Field and plant .....	-	-	86,476	490,984	976,118	60,807	80,392	1,694,777	-	1,694,777
Transporters' .....	-	-	13,085	4,206,006	15,932,087	1,011,499	-	21,162,677	197,008	21,359,685
Closing - Field and plant .....	-	-	80,303	468,925	869,981	73,907	91,735	1,584,851	-	1,584,851
Transporters' .....	-	-	13,250	4,686,321	15,970,558	1,140,744	-	21,810,873	197,237	22,008,110
Net change .....	-	-	- 6,008	458,256	- 67,666	142,345	11,343	538,270	229	538,499
Pipeline fuel .....	-	-	-	-	24,495	-	-	24,495	-	24,495
Field and plant use .....	-	-	-	292	19,180	4,060	-	23,532	-	23,532
Losses and adjustments .....	-	-	- 14,279	38,715	55,201	- 39,989	256	39,904	2,530	42,434
Total disposition .....	377	110,932	403,181	7,350,549	18,616,644	1,148,420	56,106	27,686,209	12,001,278	39,687,487

... Figures not appropriate or not applicable.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, March 1965

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production .....	11,901	1,439,703	5,410,149
2	Less field flared and waste .....	-	-	1,403,493
3	Net new production (1 - 2) .....	11,901	1,439,703	4,006,656
	<u>Disposition</u>			
4	Field disposition and uses .....	267	-	109,188
5	Gathering system disposition and uses .....	-	-	- 57,275
6	Processing plant disposition and uses:			
6a	Processing shrinkage .....	-	-	173,235
6b	Other disposition and uses .....	-	-	127,557
7	Field injection and storage:			
7a	Injected and stored .....	-	-	-
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	-
8	Other uses .....	-	-	283,080
9	Adjustment .....	-	-	- 541
10	Deliveries of marketable gas .....	11,634	1,439,703	3,371,412
11	Total disposition .....	11,901	1,439,703	4,006,656
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants .....	-	-	2,063,777
12b	Fields .....	11,634	1,439,703	1,307,635
13	Total (12a + 12b) .....	11,634	1,439,703	3,371,412
14	Receipts from distributor storage .....	-	5,232,554	517,756
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	11,634	6,672,257	3,889,168
	<u>Disposition</u>			
	Sales:			
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	-
19	Saskatchewan .....	-	-	2,861,127
20	Manitoba .....	-	-	409,901
21	Ontario .....	-	6,596,489	-
22	Quebec .....	-	-	-
23	New Brunswick .....	5,971	-	-
24	Total sales (17 to 23 inclusive) .....	5,971	6,596,489	3,271,028
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	263,662
28	Pipeline line pack fluctuation .....	-	-	39,666
29	Pipeline fuel .....	-	41,091	82,216
30	Pipeline losses etc. ....	5,663	34,677	232,596
31	Total disposition of marketable gas (24 to 30 inclusive) .....	11,634	6,672,257	3,889,168

(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 1965

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
117,276,019	15,037,821	55,663	139,231,256	-	139,231,256	1
4,692,860	485,418	50,334	6,632,105	-	6,632,105	2
112,583,159	14,552,403	5,329	132,599,151	-	132,599,151	3
869,126	398,410	-	1,376,991	-	1,376,991	4
385,709	-	-	328,434	-	328,434	5
10,196,534	561,243	-	10,931,012	-	10,931,012	6a
4,589,841	748,803	-	5,466,201	-	5,466,201	6b
15,914,470	211,989	-	16,126,459	-	16,126,459	7a
191,273	-	-	191,273	-	191,273	7b
15,723,197	211,989	-	15,935,186	-	15,935,186	7c
97,151	-	5,329	385,560	-	385,560	8
52,769	277,359	-	329,587	-	329,587	9
80,668,832	12,354,599	-	97,846,180	-	97,846,180	10
112,583,159	14,552,403	5,329	132,599,151	-	132,599,151	11
64,324,678	11,918,034	-	78,306,489	-	78,306,489	12a
16,344,154	436,565	-	19,539,691	-	19,539,691	12b
80,668,832	12,354,599	-	97,846,180	-	97,846,180	13
182,678	-	-	5,932,988	-	5,932,988	14
91,024	-	-	91,024	-	91,024	15
80,942,534	12,354,599	-	103,870,192	206,733	104,076,925	16
1,171,439	3,846,702	-	5,018,141	-	5,018,141	17
17,644,604	-	-	17,644,604	13,213	17,657,817	18
2,909,463	-	-	5,770,590	-	5,770,590	19
3,663,710	-	-	4,073,611	-	4,073,611	20
17,402,670	-	-	23,999,159	193,520	24,192,679	21
2,968,927	-	-	2,968,927	-	2,968,927	22
-	-	-	5,971	-	5,971	23
45,760,813	3,846,702	-	59,481,003	206,733	59,687,736	24
29,035,418	8,005,131	-	37,040,549	-	37,040,549	25
207,937	-	-	207,937	-	207,937	26
374,478	-	-	638,140	-	638,140	27
- 15,103	10,415	-	34,978	-	34,978	28
3,986,864	324,443	-	4,434,614	-	4,434,614	29
1,592,127	167,908	-	2,032,971	-	2,032,971	30
80,942,534	12,354,599	-	103,870,192	206,733	104,076,925	31



TABLE 4. Production of Natural Gas by Month, by Province, 1965

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F							
January .....	11,708	1,470,195	3,945,106	116,876,133	15,399,267	4,479	137,706,888
February .....	12,080	1,296,058	3,570,110	104,242,991	13,623,628	6,120	122,750,987
March .....	11,901	1,439,703	4,006,656	112,583,159	14,552,403	5,329	132,599,151
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							
Total year to date .....	35,689	4,205,956	11,521,872	333,702,283	43,575,298	15,928	393,057,026
Total March 1964 .....	12,711	2,191,960	3,969,890	95,902,648	12,515,104	2,836	114,595,149

TABLE 5. Production of Propane and Butanes from Natural Gas by Month, by Province, 1965

Month	Propane				Butanes			
	Saskatchewan	Alberta	British Columbia	Canada	Saskatchewan	Alberta	British Columbia	Canada
barrels of 35 Canadian gallons								
January .....	54,729	807,465	39,263	901,457	27,128	559,473	41,762	628,363
February .....	49,686	748,340	30,206	828,232	24,216	506,391	37,863	568,470
March .....	58,700	808,050	30,333	897,083	28,285	533,559	38,343	600,187
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total year to date .....	163,115	2,363,855	99,802	2,626,772	79,629	1,599,423	117,968	1,797,020
Total March 1964 .....	57,419	462,141	16,616	536,176	30,529	324,315	41,298	396,142



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