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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

MARCH 1966

The production of crude petroleum and equivalent hydrocarbon during March 1966 amounted to 29,204,075 barrels, 942,060 barrels/day, an increase of 5.5 per cent or 48,963 barrels per day from March 1965. The production figures for all petroleum liquids for the two years are as follows:

	March 1965		March 1966	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates	25.2	812,786	26.8	863,198
Pentanes plus	2.5	80,316	2.4	78,869
Propanes and butanes	1.5	48,299	1.7	56,413
Totals	29.2	941,401	30.9	998,480

The disposition of crude and equivalent for March 1966 was 18.7 million barrels (64.2 per cent) to Canadian refineries and 10.3 million barrels (35.2 per cent) was exported. The difference of 0.6 per cent between supply and sales is accounted for by inventory changes. Imported crude petroleum for the same period amounted to 14.1 million barrels (454,679 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 32.8 million barrels (1,059,412 barrels/day).

Natural gas production increased 4.8 per cent to 138,898,134 Mcf. from 132,599,151 Mcf. in March 1965. The disposition of natural gas for March 1966 is as follows; 15.1 million was net deliveries to storage and injection operations, 19.8 million was used, lost or unaccounted for in fields and processing plants and 38.0 million was exported; 30.0 million was sold to ultimate customers in the prairies, 22.4 million in Ontario, 7.8 million in British Columbia and 3.2 million in Quebec. The remaining 2.6 million Mcf. was accounted for by other deliveries, pipeline fuel losses and line pack fluctuations.

Table 1 includes all crude oil and equivalent hydrocarbon production of condensates and pentanes plus, propane and butane production. 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 field 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.

In Tables 4 and 5, disposition items "Deliveries Petrochemical Plants, Distributors and Others" and "Refinery Material" are correlated to "Receipts from Gas Processing Plants", Table 3 and "Refinery Receipts of Propane/Butane/Mixes From Gas Processing Plants", Table 2, respectively in the companion publication "Refined Petroleum Products", Catalogue number 45-004.

Manufacturing & Primary Industries Division

March 1967
6503-515

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January	208	104,594	423,083	7,650,288	16,307,197	1,322,343	65,448	25,873,161
February	476	102,500	383,369	7,115,245	15,832,092	1,247,207	56,967	24,737,856
March	400	113,691	436,054	7,927,821	16,848,069	1,367,794	65,320	26,759,149
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	13,484	2,519,470	92,543	-	2,625,497
February	-	-	-	11,151	2,186,273	77,878	-	2,275,302
March	-	-	-	14,550	2,337,501	92,875	-	2,444,926
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Propane</u>								
January	-	-	-	56,951	907,885	34,300	-	999,136
February	-	-	-	47,907	893,365	43,403	-	984,675
March	-	-	-	61,090	972,249	29,373	-	1,062,712
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	24,755	594,486	46,195	-	665,436
February	-	-	-	20,199	559,977	39,753	-	619,929
March	-	-	-	26,455	619,996	39,644	-	686,095
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total March 1966	400	113,691	436,054	8,029,916	20,777,815	1,529,686	65,320	30,952,882
Total year to date	1,084	320,785	1,242,506	22,969,896	60,578,560	4,433,308	187,735	89,733,874
Total March 1965	377	110,932	403,181	7,437,534	19,958,253	1,217,096	56,106	29,183,479

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, March 1966

	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>Supply</u>										
Domestic production:										
Crude oil	400	113,691	436,054	7,927,821	17,484,824	1,363,308	65,320	27,391,418	...	27,391,418
Less returned to formation	-	-	-	-	688,197	-	-	688,197	...	688,197
Condensate	-	-	-	-	51,442	4,486	-	55,928	...	55,928
Pentanes plus	-	-	-	14,550	2,337,501	92,875	-	2,444,926	...	2,444,926
Net withdrawals	400	113,691	436,054	7,942,371	19,185,570	1,460,669	65,320	29,204,075	...	29,204,075
Imports .....	...	...	...	...	...	...	...	...	14,095,077	14,095,077
Total supply	400	113,691	436,054	7,942,371	19,185,570	1,460,669	65,320	29,204,075	14,095,077	43,299,152
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	400	-	-	-	-	-	-	400	4,000,370	4,000,770
Quebec	-	-	-	-	-	-	-	-	10,098,277	10,098,277
Ontario	-	113,691	431,666	4,635,396	4,440,720	-	-	9,621,473	-	9,621,473
Manitoba	-	-	12,956	886,782	263,326	-	-	1,163,064	-	1,163,064
Saskatchewan	-	-	-	114,535	1,778,659	-	-	1,893,194	-	1,893,194
Alberta	-	-	-	57,109	2,911,006	-	-	2,968,115	-	2,968,115
British Columbia	-	-	-	-	1,697,213	1,335,489	-	3,032,702	-	3,032,702
Northwest Territories	-	-	-	-	-	-	64,171	64,171	-	64,171
Totals	400	113,691	444,622	5,693,822	11,090,924	1,335,489	64,171	18,743,119	14,098,647	32,841,766
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,513,423	159,351	-	4,672,774	-	4,672,774
East of Rocky Mountains	-	-	-	-	431,895	-	-	431,895	-	431,895
Great Lakes Area	-	-	-	2,103,274	3,070,879	-	-	5,174,153	-	5,174,153
Totals	-	-	-	2,103,274	8,016,197	159,351	-	10,278,822	-	10,278,822
Deliveries to other purchasers ..	-	-	-	272	7,829	-	-	8,101	-	8,101
Inventories:										
Opening - Field and plant	-	-	86,682	473,105	954,989	56,580	54,904	1,626,260	-	1,626,260
Transporters'	-	-	14,655	4,806,788	16,620,724	1,230,623	-	22,672,790	390,224	23,063,014
Closing - Field and plant	-	-	79,918	452,084	879,988	57,913	56,053	1,525,956	-	1,525,956
Transporters'	-	-	13,355	5,026,030	16,610,476	1,176,019	-	22,825,880	381,352	23,207,232
Net change	-	-	- 8,064	198,221	- 85,249	- 53,271	1,149	52,786	- 8,872	43,914
Pipeline fuel	-	-	-	-	23,096	-	-	23,096	-	23,096
Field and plant use	-	-	-	-	34,196	- 1,466	-	32,730	-	32,730
Losses and adjustments	-	-	- 504	- 53,218	98,577	20,566	-	65,421	5,302	70,723
Total disposition	400	113,691	436,054	7,942,371	19,185,570	1,460,669	65,320	29,204,075	14,095,077	43,299,152

... Figures not appropriate or not applicable.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, March 1966

No.		New Brunswick	Ontario	Saskatchewan			
		Mcf.					
<u>A. FIELD AND PROCESSING PLANTS</u>							
<u>Supply</u>							
1	Gross new production	9,786	2,085,871	5,812,956			
2	Less field flared and waste	-	-	1,276,871			
3	Net new production (1 - 2)	9,786	2,085,871	4,536,085			
4	Reproduced	-	-	-			
5	Less injected and stored	-	-	-			
6	Net withdrawals	9,786	2,085,871	4,536,085			
<u>Disposition</u>							
7	Field disposition and uses	249	-	261,722			
8	Gathering system disposition and uses	-	-	15,122			
9	Processing plant disposition and uses:						
9a	Processing shrinkage	-	-	168,482			
9b	Other disposition and uses	-	-	284,383			
10	Other uses	-	-	152,118			
11	Adjustment	-	-	14,586			
12	Deliveries of marketable gas	9,537	2,085,871	3,699,088			
13	Total disposition	9,786	2,085,871	4,536,085			
<u>B. GAS UTILITIES</u>							
<u>Supply</u>							
14	Receipts of marketable gas:						
14a	Plants	-	-	2,065,412			
14b	Fields	9,537	2,085,871	1,633,676			
15	Total (14a + 14b)	9,537	2,085,871	3,699,088			
16	Receipts from distributor storage	-	3,639,385	433,373			
17	Other receipts(1)	-	-	-			
18	Total supply of marketable gas (15 + 16 + 17)	9,537	5,725,256	4,132,461			
<u>Disposition</u>							
Sales:							
19	British Columbia	-	-	-			
20	Alberta	-	-	-			
21	Saskatchewan	-	-	3,981,637			
22	Manitoba	-	-	711,799			
23	Ontario	-	5,732,695	-			
24	Quebec	-	-	-			
25	New Brunswick	5,960	-	-			
26	Total sales (19 to 25 inclusive)	5,960	5,732,695	4,693,436			
27	Exports		-	-			
28	Other deliveries(2)		-	-			
29	Delivered to distributor storage		-	134,153			
30	Pipeline line pack fluctuation		-	9,594			
31	Pipeline fuel	83	18,750	124,387			
32	Pipeline losses etc.	3,494	- 26,189	- 829,109			
33	Total disposition of marketable gas (26 to 32 inclusive)	9,537	5,725,256	4,132,461			

(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 1966

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
117,844,030 3,890,412	19,326,614 1,018,853	51,120 46,107	145,130,377 6,232,243	- -	145,130,377 6,232,243	1 2
113,953,618	18,307,761	5,013	138,898,134	-	138,898,134	3
17,749,916	231,781	-	17,981,697	-	17,981,697	4 5
96,203,702	18,075,980	5,013	120,916,437	-	120,916,437	6
986,707 732,614	420,283 - 106	-	1,668,961 717,386	- -	1,668,961 717,386	7 8
10,741,749 4,721,414 79,177 - 433,972 79,376,013	551,856 1,472,845 - 67,010 15,564,092	- - 5,013 - -	11,462,087 6,478,642 236,308 - 381,548 100,734,601	- - - - -	11,462,087 6,478,642 236,308 - 381,548 100,734,601	9a 9b 10 11 12
96,203,702	18,075,980	5,013	120,916,437	-	120,916,437	13
63,385,898 15,990,115	15,036,801 527,291	-	80,488,111 20,246,490	- -	80,488,111 20,246,490	14a 14b
79,376,013	15,564,092	-	100,734,601	-	100,734,601	15
152,963 1,001	-	-	4,225,721 1,001	- -	4,225,721 1,001	16 17
79,529,977	15,564,092	-	104,961,323	3,041,015	108,002,338	18
1,305,870 18,590,304 3,070,363 3,663,385 16,716,524 3,166,787 -	6,493,319 - - - - - -	- - - - - - -	7,799,189 18,590,304 7,052,000 4,375,184 22,449,219 3,166,787 5,960	- 11,596 - - 3,029,419 - -	7,799,189 18,601,900 7,052,000 4,375,184 25,478,638 3,166,787 5,960	19 20 21 22 23 24 25
46,513,233	6,493,319	-	63,438,643	3,041,015	66,479,658	26
29,355,407 265,730 1,160,956 28,596 3,694,911 - 1,488,856	8,665,510 - - 23,020 602,973 - 220,730	- - - - - -	38,020,917 265,730 1,295,109 61,210 4,441,104 - 2,561,390	- - - - - -	38,020,917 265,730 1,295,109 61,210 4,441,104 - 2,561,390	27 28 29 30 31 32
79,529,977	15,564,092	-	104,961,323	3,041,015	108,002,338	33

TABLE 4. Supply and Disposition of Gas Processing Plant Propane, March 1966

	Maritimes	Quebec	Ontario	Manitoba(1)	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production	61,090	985,113	29,373	...	...	1,075,576
Less returned to formation	12,864	...	...	...	12,864
Net withdrawals	61,090	972,249	29,373	...	...	1,062,712
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	18,513	17,897	-	-	-	-	-	36,410
Alberta	-	16,979	51,882	325,325	...	132,416	1,735	528,337	
British Columbia	-	-	-	-	-	...	-	-	
Deliveries	- 36,410	- 528,337	-	...	...	- 564,747
Total supply	-	35,492	69,779	350,005	443,912	161,789	1,735	1,735	1,062,712
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-	113,045	113,417	...	...	...	113,417
Distributor and other	-	35,492	69,779	...	208,665	69,162	1,735	497,878	
Sub-total	-	35,492	69,779	113,045	322,082	69,162	1,735	611,295	
Refinery raw material	-	-	-	-	-	12,714	-	-	12,714
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	-	-	-	-	-
II	-	202,456	-	-	...	...	202,456
IV	-	40,879	-	...	...	40,879
V	-	-	80,366	...	...	80,366
Other	-	-	-	-	-	-	-
Miscellaneous:									
Miscible flood	29,927	...	...	...	29,927
Gas enrichment	32,632	...	...	...	32,632
Losses and adjustments	-	-	-	16,450	- 3,192	- 54	-	-	13,204
Plant uses	576	3,149	223	...	...	3,948
Inventories:									
Opening inventory	75,094	148,515	9,623	...	...	233,232
Closing inventory	92,572	166,950	9,001	...	...	268,523
Net change	17,478	18,435	- 622	...	...	- 35,291
Total disposition	-	35,492	69,779	350,005	443,912	161,789	1,735	1,735	1,062,712

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 3. Supply and Disposition of Gas Processing Plant Butanes, March 1966

	Maritimes	Quebec	Ontario	Manitoba(1)	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production		26,455	621,207	39,644	...	687,306
Less returned to formation	1,211	...	...	1,211
Net withdrawals		26,455	619,996	39,644	...	686,095
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	-	25,387		-	-	-	-	25,387
Alberta	-	-	62,746		223,296	...	267,053	-	553,095
British Columbia	-	-	-		-	-	...	-	-
Deliveries		- 25,387	- 553,095	-	...	- 578,482
Total supply	-	-	88,133		224,364	66,901	306,697	-	686,095
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-		...	-	13,010	...	-
Distributor and other	-	-	3,086		-	-	-	-	16,096
Sub-total	-	-	3,086		-	-	13,010	-	16,096
Refinery raw material	-	-	61,921		10,258	76,575	31,297	-	180,051
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	-		-	-	-	...	-
II	23,126		219,262	-	-	...	242,388
IV	-		-	16,386	-	...	16,386
V	-		-	-	259,045	...	259,045
Other	-	-	-		-	-	-	...	-
Miscellaneous:									
Miscible flood	3,092	...	...	3,092
Gas enrichment	11,636	...	...	11,636
Losses and adjustments	-	-	-		317	- 19,799	3,020	-	- 16,462
Plant uses		-	3,312	170	...	3,482
Inventories:									
Opening inventory		73,550	211,016	7,349	...	291,915
Closing inventory		68,077	186,715	7,504	...	262,296
Net change		- 5,473	- 24,301	155	...	- 29,619
Total disposition	-	-	88,133		224,364	66,901	306,697	-	686,095

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 6. Net new Production of Natural Gas by Month, by Province, March 1966

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
McF. at 14.73 p.s.i.a. and 60°F							
January	11,053	1,538,805	4,825,349	125,115,771	19,745,066	4,574	151,240,618
February	10,029	1,500,887	4,328,670	106,174,728	17,195,012	5,718	129,215,044
March	9,786	2,085,871	4,536,085	113,953,618	18,307,761	5,013	138,898,134
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	30,868	5,125,563	13,690,104	345,244,117	55,247,839	15,305	419,353,796
Total March 1965	11,901	1,439,703	4,006,656	112,583,159	14,552,403	5,329	132,599,151

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