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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

FEBRUARY 1966

The production of crude petroleum and equivalent hydrocarbons during February 1966 amounted to 27,013,158 barrels (964,755 barrels/day), an increase of 5.6 per cent of 51,136 barrels per day from February 1965. The production figures for all petroleum liquids for the two years are as follows:

	February 1965			February 1966	
	millions of barrels	barrels per day	millions of barrels	barrels per day	
Crude petroleum and condensates	23.3	833,620	24.7	883,494	
Pentanes plus	2.2	79,998	2.3	81,260	
Propanes and butanes	1.4	49,882	1.6	56,889	
Totals	26.9	963,500	28.6	1,021,643	

The disposition of crude and equivalent for February 1966 was 17.0 million barrels (63.1 per cent) to Canadian refineries and 10.1 million barrels (37.3 per cent) was exported. The difference of (0.4) per cent between supply and sales is accounted for by inventory changes. Imported crude petroleum for the same period amounted to 12.0 million barrels (426,995 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 29.0 million barrels (1,035,179 barrels/day).

Natural gas production increased 5.4 per cent to 129,215,044 Mcf. from 122,571,803 Mcg. in February 1965. The disposition of natural gas for February is as follows; 9.9 million was net deliveries to storage and injection operations, 17.9 million was used, lost or unaccounted for in fields and processing plants and 34.8 million was exported; 33.6 million was sold to ultimate customers in the prairies; 24.7 million in Ontario; 7.1 million in British Columbia and 3.0 million in Quebec. The remaining (1.8) 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 Plnts", 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 and Primary Industries Division

March 1967
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TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, February 1966

	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								
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								
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	31,717	-	972,989
March								
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								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total February 1966	476	102,500	383,369	7,194,502	19,471,707	1,396,555	56,967	28,606,076
Total year to date	684	207,094	806,452	14,939,980	39,800,745	2,891,936	122,415	58,769,306
Total February 1965	298	89,230	357,046	6,475,528	18,930,610	1,054,502	70,825	26,978,039

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, February 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	476	102,500	383,369	7,115,245	16,326,391	1,243,354	56,967	25,228,302	...	25,228,302
Less returned to formation	-	-	-	-	548,996	-	-	548,996	...	548,996
Condensate	-	-	-	-	54,697	3,853	-	58,550	...	58,550
Pentanes plus	-	-	-	11,151	2,186,273	77,878	-	2,275,302	...	2,275,302
Net withdrawals	476	102,500	383,369	7,126,396	18,018,365	1,325,085	56,967	27,013,158	...	27,013,158
Imports .....	...	...	...	...	...	...	...	...	11,955,860	11,955,860
Total supply	476	102,500	383,369	7,126,396	18,018,365	1,325,085	56,967	27,013,158	11,955,860	38,969,018
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	476	-	-	-	-	-	-	476	3,378,590	3,379,066
Quebec	-	-	-	-	-	-	-	-	8,564,288	8,564,288
Ontario	-	102,500	383,010	4,166,735	4,152,427	-	-	8,804,672	-	8,804,672
Manitoba	-	-	11,724	853,789	280,549	-	-	1,146,062	-	1,146,062
Saskatchewan	-	-	-	183,479	1,516,647	-	-	1,700,126	-	1,700,126
Alberta	-	-	-	56,212	2,592,428	-	-	2,648,640	-	2,648,640
British Columbia	-	-	-	-	1,495,946	1,193,173	-	2,689,119	-	2,689,119
Northwest Territories	-	-	-	-	-	-	53,053	53,053	-	53,053
Totals	476	102,500	394,734	5,260,215	10,037,997	1,193,173	53,053	17,042,148	11,942,878	28,985,026
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,383,642	375,221	-	4,758,863	-	4,758,863
East of Rocky Mountains	-	-	-	-	403,763	-	-	403,763	-	403,763
Great Lakes Area	-	-	-	2,013,800	2,901,243	-	-	4,915,043	-	4,915,043
Totals	-	-	-	2,013,800	7,688,648	375,221	-	10,077,669	-	10,077,669
Deliveries to other purchasers ..	-	-	-	989	4,519	-	-	5,508	-	5,508
Inventories:										
Opening - Field and plant	-	-	98,587	499,031	1,086,249	64,162	50,990	1,799,019	-	1,799,019
Transporters'	-	-	14,382	4,895,995	16,337,293	1,468,629	-	22,716,299	382,231	23,098,530
Closing - 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
Net change	-	-	- 11,632	- 115,133	152,171	- 245,588	3,914	- 216,268	7,993	- 208,275
Pipeline fuel	-	-	-	-	35,617	-	-	35,617	-	35,617
Field and plant use	-	-	-	710	30,324	- 5,055	-	25,979	-	25,979
Losses and adjustments	-	-	267	- 34,185	69,089	7,334	-	42,505	4,989	47,494
Total disposition	476	102,500	383,369	7,126,396	18,018,365	1,325,085	56,967	27,013,158	11,955,860	38,969,018

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
			Mcf.	
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	10,029	1,500,887	5,543,675
2	Less field flared and waste	-	-	1,215,005
3	Net new production (1 - 2)	10,029	1,500,887	4,328,670
4	Reproduced	-	-	-
5	Less injected and stored	-	-	-
6	Net withdrawals	10,029	1,500,887	4,328,670
	<u>Disposition</u>			
7	Field disposition and uses	254	-	175,174
8	Gathering system disposition and uses	-	-	118,647
9	Processing plant disposition and uses:			
9a	Processing shrinkage	-	-	141,524
9b	Other disposition and uses	-	-	141,303
10	Other uses	-	-	233,872
11	Adjustment	-	-	- 14,954
12	Deliveries of marketable gas	9,775	1,500,887	3,533,104
13	Total disposition	10,029	1,500,887	4,328,670
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
14	Receipts of marketable gas:			
14a	Plants	-	-	1,843,402
14b	Fields	9,775	1,500,887	1,689,702
15	Total (14a + 14b)	9,775	1,500,887	3,533,104
16	Receipts from distributor storage	-	5,819,830	469,377
17	Other receipts(1)	-	-	-
18	Total supply of marketable gas (15 + 16 + 17)	9,775	7,320,717	4,002,481
	<u>Disposition</u>			
	Sales:			
19	British Columbia	-	-	-
20	Alberta	-	-	-
21	Saskatchewan	-	-	4,836,080
22	Manitoba	--	--	469,056
23	Ontario	-	7,595,567	-
24	Quebec	-	-	-
25	New Brunswick	5,982	-	-
26	Total sales (19 to 25 inclusive)	5,982	7,595,567	5,305,136
27	Exports	-	-	-
28	Other deliveries(2)	-	-	-
29	Delivered to distributor storage	-	-	115,913
30	Pipeline line pack fluctuation	-	18,500	- 13,821
31	Pipeline fuel	116	31,850	152,119
32	Pipeline losses etc.	3,677	- 325,200	- 1,556,866
33	Total disposition of marketable gas (26 to 32 inclusive)	9,775	7,320,717	4,002,481

(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, February 1966

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
111,235,877 5,061,149	17,994,625 799,613	61,442 55,724	136,346,535 7,131,491	- -	136,346,535 7,131,491	1 2
106,174,728	17,195,012	5,718	129,215,044	-	129,215,044	3
15,190,839	494,991	- -	15,685,830	- -	15,685,830	4 5
90,983,889	16,700,021	5,718	113,529,214	-	113,529,214	6
Mcf.						
997,548 230,943	605,881 - 50	- -	1,778,857 349,540	- -	1,778,857 349,540	7 8
10,004,159 4,532,477 69,171 - 1,332,205 76,481,796	539,656 1,502,496 - - 9,988 14,062,026	- - 5,718 - -	10,685,339 6,176,276 308,761 - 1,357,147 95,587,588	- - - - -	10,685,339 6,176,276 308,761 - 1,357,147 95,587,588	9a 9b 10 11 12
90,983,889	16,700,021	5,718	113,529,214	-	113,529,214	13
Mcf.						
60,096,771 16,385,025	13,581,738 480,288	- -	75,521,911 20,065,677	- -	75,521,911 20,065,677	14a 14b
76,481,796	14,062,026	-	95,587,588	-	95,587,588	15
278,867 - 564	- -	- -	6,568,074 - 564	- -	6,568,074 - 564	16 17
76,760,099	14,062,026	-	102,155,098	2,861,093	105,016,191	18
Mcf.						
1,217,894 20,311,748 3,366,691 4,584,386 17,101,750 3,049,096 -	5,833,157 - - - - - -	- - - - - - -	7,051,051 20,311,748 8,202,771 5,053,442 24,697,317 3,049,096 5,982	- 13,432 - - 2,847,661 - -	7,051,051 20,325,180 8,202,771 5,053,442 27,544,978 3,049,096 5,982	19 20 21 22 23 24 25
49,631,565	5,833,157	-	68,371,407	2,861,093	71,232,500	26
26,855,953 266,370 697,494 99,992 3,656,101 - 4,447,376	7,905,531 - - - 167,401 569,393 - 78,654	- - - - - -	34,761,484 266,370 813,407 - 62,730 4,409,579 - 6,404,419	- - - - - -	34,761,484 266,370 813,407 - 62,730 4,409,579 - 6,404,419	27 28 29 30 31 32
76,760,099	14,062,026	-	102,155,098	2,861,093	105,016,191	33

TABLE 4. Supply and Disposition of Gas Processing Plant Propane, February 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		47,907	893,365	31,717	...	972,989
Less returned to formation	-	-
Net withdrawals		47,907	893,365	31,717	...	972,989
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	22,686	70,398		-	-	-	-	93,084
Alberta	-	13,309	27,650		311,399	...	146,163	792	499,313
British Columbia	-	-	-		-	1,509	...	107	1,616
Deliveries		- 93,084	- 499,313	- 1,616	...	- 594,013
Total supply	-	35,995	98,048		266,222	395,561	176,264	899	972,989
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-		..	107,882	..	..	107,882
Distributor and other	-	35,995	98,048		96,022	243,662	73,181	899	547,807
Sub-total	-	35,995	98,048		96,022	351,544	73,181	899	655,689
Refinery raw material	-	-	-		-	-	11,546	-	11,546
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	-		-	-	-	...	-
II	-		203,266	-	-	...	203,266
IV		-	38,019	-	...	38,019
V		-	-	90,111	...	90,111
Other	-	-	-		-	-	-	...	-
Miscellaneous:									
Miscible flood	24,314	...	...	24,314
Gas enrichment	-	-
Losses and adjustments	-	-	-		- 5,698	4,940	1,743	-	985
Plant uses		395	1,613	-	...	2,008
Inventories:									
Opening inventory		102,857	173,384	9,940	...	286,181
Closing inventory		75,094	148,515	9,623	...	233,232
Net change		- 27,763	- 24,869	- 317	...	- 52,949
Total disposition	-	35,995	98,048		266,222	395,561	176,264	899	972,989

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 5. Supply and Disposition of Gas Processing Plant Butanes, February 1965

	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		20,199	561,229	39,753	...	621,181
Less returned to formation	1,252	...	...	1,252
Net withdrawals		20,199	559,977	39,753	...	619,929
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	-	36,396		-				36,396
Alberta	-	-	57,260		211,265	-	249,415	-	517,940
British Columbia	-	-	-		-	-	-	-	-
Deliveries		- 36,396	- 517,940	-	...	- 554,336
Total supply	-	-	93,656		195,068	42,037	289,168	-	619,929
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-		...	-	-
Distributor and other	-	-	8,331		168	-	16,128	-	24,627
Sub-total	-	-	8,331		168	-	16,128	-	24,627
Refinery raw material	-	-	53,509		11,114	64,340	30,810		159,773
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	-		-	-	-	-	-
II	31,816		231,361	-	-	-	263,177
IV	-		-	23,500	-	-	23,500
V	-		-	-	244,057	-	244,057
Other	-	-	-		-	-	-	-	-
Miscellaneous:									
Miscible flood	2,575	...	...	2,575
Gas enrichment	8,246	...	...	8,246
Losses and adjustments	-	-	-		4,344	3,771	-	-	8,115
Plant uses		-	-	643	...	643
Inventories:									
Opening inventory		125,469	271,411	9,819	...	406,699
Closing inventory		73,550	211,016	7,349	...	291,915
Net change		- 51,919	- 60,395	- 2,470	...	- 114,784
Total disposition	-	-	93,656		195,068	42,037	289,168	-	619,929

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 6. Net new Production of Natural Gas by Month, by Province, February 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							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	21,082	3,039,692	9,154,019	231,290,499	36,940,078	10,292	280,455,662
Total February 1965	12,354	1,296,058	3,570,110	104,242,991	13,444,170	6,120	122,571,803

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