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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JANUARY 1966

The production of crude petroleum and equivalent hydrocarbon during January 1966 amounted to 28,498,658 barrels (919,311 barrels/day), a decrease of 1.8 per cent or 16,363 barrels per day from January 1965. The production figures for all petroleum liquids for the two years are as follows:

	January 1965			
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates	26.5	855,190	25.9	834,618
Pentanes plus	2.5	80,484	2.6	84,693
Propanes and butanes	1.5	49,349	1.7	53,696
Totals	30.5	985,023	30.2	973,007

The disposition of crude and equivalent for January 1966 was 18.6 million barrels (65.2 per cent) to Canadian refineries and 9.5 million barrels (33.5 per cent) was exported. The difference of 1.3 per cent between supply and sales is accounted for by other disposition items. Imported crude petroleum for the same period amounted to 12.8 million barrels (414,666 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 31.4 million barrels (1,013,693 barrels/day).

Natural gas production increased 10.0 per cent to 151,240,618 Mcf. from 137,497,768 Mcf. in January 1965. The disposition of natural gas for January is as follows; 9.2 million was net deliveries to storage and injection operations, 20.3 million was used, lost or unaccounted for in fields and processing plants and 38.6 million was exported; 36.2 million was sold to ultimate customers in the prairies, 23.3 million in Ontario, 7.9 million in British Columbia and 3.4 million in Quebec. The remaining 12.3 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.

Manufacturing and Primary Industries Division

March 1967
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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.

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, 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								
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								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Propane</u>								
January	-	-	-	56,951	907,885	34,300	-	999,136
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	24,755	594,486	46,195	-	665,436
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total January 1966	208	104,594	423,083	7,745,478	20,329,038	1,495,381	65,448	30,163,230
Total year to date	208	104,594	423,083	7,745,478	20,329,038	1,495,381	65,448	30,163,230
Total January 1965	299	94,485	398,597	7,204,940	21,614,224	1,173,508	49,674	30,535,727

TABLE 2. Supply and Disposition of Natural Gas by Source, Canada, January 1966

No.		New Brunswick	Ontario	Saskatchewan
			Mcf.	
<u>A. FIELD AND PROCESSING PLANTS</u>				
<u>Supply</u>				
1	Gross new production	11,053	1,538,805	6,056,596
2	Less field flared and waste	-	-	1,231,247
3	Net new production (1 - 2)	11,053	1,538,805	4,825,349
4	Reproduced .....	..	..	..
5	Less injected and stored	-	-	-
6	Net withdrawals	11,053	1,538,805	4,825,349
<u>Disposition</u>				
7	Field disposition and uses	345	-	212,284
8	Gathering system disposition and uses	-	-	40,833
9	Processing plant disposition and uses:			
9a	Processing shrinkage	-	-	160,858
9b	Other disposition and uses	-	-	311,035
10	Other uses	-	-	217,345
11	Adjustment	-	-	- 4,354
12	Deliveries of marketable gas	10,708	1,538,805	3,887,348
13	Total disposition	11,053	1,538,805	4,825,349
<u>B. GAS UTILITIES</u>				
<u>Supply</u>				
14	Receipts of marketable gas:			
14a	Plants	-	-	7,154,184
14b	Fields	10,708	1,538,805	1,773,164
15	Total (14a + 14b)	10,708	1,538,805	3,887,348
16	Receipts from distributor storage	-	8,187,001	969,344
17	Other receipts(1)	-	-	-
18	Total supply of marketable gas (15 + 16 + 17)	10,708	9,725,806	4,856,692
<u>Disposition</u>				
Sales:				
19	British Columbia	-	-	-
20	Alberta	-	-	3,793
21	Saskatchewan	-	-	3,222,865
22	Manitoba	-	-	299,031
23	Ontario	-	8,896,432	-
24	Quebec	-	-	-
25	New Brunswick	8,601	-	-
26	Total sales (19 to 25 inclusive)	8,601	8,896,432	3,525,689
27	Exports	-	-	-
28	Other deliveries(2)	-	-	-
29	Delivered to distributor storage	-	-	65,527
30	Pipeline line pack fluctuation	-	-	- 5,796
31	Pipeline fuel	106	27,450	175,817
32	Pipeline losses etc.	2,001	801,924	1,095,455
33	Total disposition of marketable gas (26 to 32 inclusive)	10,708	9,725,806	4,856,692

(1) L.P.G. for gas enrichment, peak shaving or temporary supply.

(2) Direct deliveries for industrial consumption and miscellaneous utility deliveries.

TABLE 2. Supply and Disposition of Natural Gas by Source, Canada, January 1966

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
129,395,524(3) 4,279,753	20,671,595 926,529	41,299 36,725	157,714,872 6,474,254	- -	157,714,872 6,474,254	1 2
125,115,771	19,745,066	4,574	151,240,618	-	151,240,618	3
18,029,713	493,304	-	18,523,017	-	18,523,017	4 5
107,086,058	19,251,762	4,574	132,717,601	-	132,717,601	6
1,056,077 895,504	177,665 575	-	1,446,371 936,912	-	1,446,371 936,912	7 8
11,234,707 5,477,588 86,619 - 2,134,991 90,470,554	594,150 2,015,265 - - 25,764 16,489,871	- - 4,574 - -	11,989,715 7,803,888 308,538 - 2,165,109 112,397,286	- - - - -	11,989,715 7,803,888 308,538 - 2,165,109 112,397,286	9a 9b 10 11 12
107,086,058	19,251,762	4,574	132,717,601	-	132,717,601	13
53,379,430 33,091,124	16,015,164 474,707	-	86,508,778 25,888,508	-	86,508,778 25,888,508	14a 14b
90,470,554	16,489,871	-	112,397,286	-	112,397,286	15
601,333 2,357	- -	- -	9,757,678 2,357	-	9,757,678 2,357	16 17
91,074,244	16,489,871	-	122,157,321	3,219,680	125,377,001	18
1,262,537 23,386,353 4,294,608 5,032,963 14,407,102 3,433,378 -	6,638,809 - - - - - -	- - - - - - -	7,901,346 23,390,146 7,517,473 5,331,994 23,303,534 3,433,378 8,601	- 17,370 - - 3,202,310 - -	7,901,346 23,407,516 7,517,473 5,331,994 26,505,844 3,433,378 8,601	19 20 21 22 23 24 25
51,816,941	6,638,809	-	70,886,472	3,219,680	74,106,152	26
29,568,246 258,781 354,170 98,715 4,188,729 4,788,662	9,076,306 - - 3,689 606,262 164,805	- - - - - -	38,644,552 258,781 419,697 96,608 4,998,364 6,852,847	- - - - - -	38,644,552 258,781 419,697 96,608 4,998,364 6,852,847	27 28 29 30 31 32
91,074,244	16,489,871	-	122,157,321	3,219,680	125,377,001	33

(3) Includes reproduced, details of which are not available.

Figures not available.

TABLE 3. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, January 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	208	104,594	423,083	7,650,288	16,869,356	1,318,560	65,448	26,431,537	...	26,431,537
Less returned to formation	-	-	-	-	620,199	-	-	620,199	...	620,199
Condensate	-	-	-	-	58,040	3,783	-	61,823	...	61,823
Pentanes plus	-	-	-	13,484	2,519,470	92,543	-	2,625,497	...	2,625,497
Net withdrawals	208	104,594	423,083	7,663,772	18,826,667	1,414,886	65,448	28,498,658	...	28,498,658
Imports .....	...	...	...	...	...	...	...	...	12,851,556	12,851,556
Total supply	208	104,594	423,083	7,663,772	18,826,667	1,414,886	65,448	28,498,658	12,851,556	41,350,214
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	208	-	-	-	-	-	-	208	3,041,299	3,041,507
Quebec	-	-	-	-	-	-	-	-	9,813,358	9,813,358
Ontario	-	104,594	389,262	4,724,901	4,983,322	-	-	10,202,079	-	10,202,079
Manitoba	-	-	12,871	832,710	462,280	-	-	1,307,861	-	1,307,861
Saskatchewan	-	-	-	206,893	1,563,296	-	-	1,770,189	-	1,770,189
Alberta	-	-	-	52,196	2,675,102	-	-	2,727,298	-	2,727,298
British Columbia	-	-	-	-	1,632,087	863,192	-	2,495,279	-	2,495,279
Northwest Territories	-	-	-	-	-	-	66,899	66,899	-	66,899
Totals	208	104,594	402,133	5,816,700	11,316,087	863,192	66,899	18,569,813	12,854,657	31,424,470
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	3,750,720	654,556	-	4,405,276	-	4,405,276
East of Rocky Mountains	-	-	-	-	456,919	-	-	456,919	-	456,919
Great Lakes Area	-	-	-	1,929,130	2,756,546	-	-	4,685,676	-	4,685,676
Totals	-	-	-	1,929,130	6,964,185	654,556	-	9,547,871	-	9,547,871
Deliveries to other purchasers ..	-	-	-	1,151	9,904	-	-	11,055	-	11,055
Inventories:										
Opening - Field and plant	-	-	79,632	435,683 ^r	951,164	81,620 ^r	52,441	1,600,540	-	1,600,540
Transporters'	-	-	13,856	5,034,991	16,123,646	1,551,825	-	22,724,318	388,856	23,113,174
Closing - 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
Net change	-	-	19,481	- 75,648	348,732	- 100,654	- 1,451	190,460	- 6,625	183,835
Pipeline fuel	-	-	-	-	26,399	-	-	26,399	-	26,399
Field and plant use	-	-	-	1,151	18,628	- 2,497	-	17,282	-	17,282
Losses and adjustments	-	-	1,469	- 8,712	142,732	289	-	135,778	3,524	139,302
Total disposition	208	104,594	423,083	7,663,772	18,826,667	1,414,886	65,448	28,498,658	12,851,556	41,350,214

... Figures not appropriate or not applicable.

^r Revised figures.

TABLE 4. Supply and Disposition of Gas Processing Plant Propane, January 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		56,951	907,885	34,300	...	999,136
Less returned to formation	-	-
Net withdrawals		56,951	907,885	34,300	...	999,136
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	30,035	34,087		46,664	-	-	-	110,786
Alberta	-	5,115	46,695		434,558	...	159,483	480	646,331
British Columbia	-	-	-		-	-	...	-	-
Deliveries		- 110,786	- 646,331	-	...	- 757,117
Total supply	-	35,150	80,782		427,387	261,554	193,783	480	999,136
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-		-	115,263	...	...	115,263
Distributor and other	-	35,150	80,782		278,949	313,321	77,533	480	786,215
Sub-total	-	35,150	80,782		278,949	428,584	77,533	480	901,478
Refinery raw material	-	-	-		-	-	10,144	-	10,144
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	-		-	-	-
II	-		232,821	-	-	...	232,821
IV		-	40,256	-	...	40,256
V		-	-	103,348	...	103,348
Other	-	-	-		-	-	-	-	-
Miscellaneous:									
Miscible flood	24,567	...	...	24,567
Gas enrichment		-	-	-
Losses and adjustments	-	-	-		6,309	- 12,993	2,450	-	- 4,234
Plant uses		663	4,481	-	...	5,144
Inventories:									
Opening inventory		194,212	396,725	9,632	...	600,569
Closing inventory		102,857	173,384	9,940	...	286,181
Net change		- 91,355	- 223,341	308	...	- 314,388
Total disposition	-	35,150	80,782		427,387	261,554	193,783	480	999,136

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 5. Supply and Disposition of Gas Processing Plant Butanes, January 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		24,755	594,486	46,195	...	665,436
Less returned to formation	-	-
Net withdrawals		24,755	594,486	46,195	...	665,436
Interprovincial movements:									
Receipts from:									
Manitoba and Saskatchewan	-	-		47,716					47,716
Alberta	-	-		65,174		151,673	...	291,498	508,345
British Columbia	-	-		-		-	...	-	-
Deliveries		- 47,716	- 508,345	-	...	- 556,061
Total supply	-	-	112,890		128,712	86,141	337,693	-	665,436
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-			-	-	-
Distributor and other	-	-	11,342		418	-	13,655	-	25,415
Sub-total	-	-	11,342		418	-	13,655	-	25,415
Refinery raw material	-	-	56,921		10,405	94,491	20,931	-	182,748
Exports:									
U.S.A. Petroleum Administration:									
District I	-	-	1,511		-	-	-	...	1,511
II	43,116		184,601	-	-	...	227,717
IV		-	26,285	-	...	26,285
V		-	-	295,295	...	295,295
Other	-	-	-		-	-	-	-	-
Miscellaneous:									
Miscible flood	-	-
Gas enrichment	3,645	...	...	3,645
Losses and adjustments	-	-	-		- 839	42,022	2,450	-	43,633
Plant uses		-	-	3,213	...	3,213
Inventories:									
Opening inventory		191,342	351,713	7,670	...	550,725
Closing inventory		125,469	271,411	9,819	...	406,699
Net change		- 65,873	- 80,302	2,149	...	- 144,026
Total disposition	-	-	112,890		128,712	86,141	337,693	-	665,436

... Figures not appropriate or not applicable.

(1) Included with Saskatchewan.

TABLE 6. Net New Production of Natural Gas by Month, by Province, 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							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	11,053	1,538,805	4,825,349	125,115,771	19,745,066	4,574	151,240,618
Total, January 1965	12,352	1,470,195	3,945,106	116,876,133	15,189,503	4,479	137,497,768





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