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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

MARCH 1969

The production of crude petroleum and equivalent hydrocarbons during March 1969 amounted to 39,976,077 barrels or 1,289,551 barrels per day, an increase of 12.9 per cent or 147,390 barrels per day from March 1968. The production figures for all petroleum liquids for the two years are as follows:

	March 1968		March 1969	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensate	32.5	1,047,395	36.6	1,179,427
Pentanes plus	2.9	94,766	3.4	110,124
Propane and butanes	2.3	73,422	2.5	80,908
Totals	37.7	1,215,583	42.5	1,370,459

The disposition of Canadian crude and equivalent for March 1969 was 21.6 million barrels (54.0 per cent) to Canadian refineries and 17.4 million barrels (43.5 per cent) was exported. The difference between supply and sales of 2.5 per cent is accounted for by inventory changes, industry own use, etc. Imported crude petroleum for the same period amounted to 16.9 million barrels (545,941 barrels per day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 38.5 million barrels (1,241,579 barrels per day).

Natural gas production increased 18.0 per cent to 198,902,144 Mcf. from 168,560,691 Mcf. in March 1968. The disposition of natural gas for March 1969 is as follows: 14.8 million was net deliveries to storage and injection operations; 32.3 million was used, lost or unaccounted for in fields and processing plants; 56.6 million was exported; 36.8 million was sold to ultimate customers in the prairies; 32.4 million in Ontario; 10.0 million in British Columbia and 4.7 million in Quebec. The remaining 11.3 million Mcf. was accounted for by other deliveries, pipeline fuel, losses and line pack fluctuations.

Table 1 includes production of petroleum and equivalent hydrocarbons, propane and butanes. Pentanes plus represent the crude oil equivalent production at gas processing plants. Propane and butanes represent the net withdrawals from gas processing plants.

Table 2 shows Supply and Disposition of crude oil and equivalent by source. 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; but processing plant flared and waste gas are included and constitute a disposition end use.

A companion publication "Gas Utilities," Catalogue number 55-002 provides additional details on the movement and sales of natural gas.

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.

Sulphur volumes are expressed in short tons measured at 2,000 pounds.

Manufacturing and Primary Industries Division

October 1969
6503-515

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, March 1969

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January	588	95,432	523,232	7,611,116	23,213,183	1,967,296	81,957	33,492,804
February	594	92,655	470,199	6,857,620	21,939,037	1,783,233	56,489	31,199,827
March	664	100,374	519,698	7,402,914	26,337,703	2,138,977	61,915	36,562,245
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	30,142	3,039,460	82,125	-	3,151,727
February	-	-	-	22,600	2,857,601	78,341	-	2,958,542
March	-	-	-	25,957	3,305,053	82,822	-	3,413,832
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Propane</u>								
January	-	-	-	72,784	1,439,826	41,529	-	1,554,139
February	-	-	-	60,097	1,249,929	38,395	-	1,348,421
March	-	-	-	70,277	1,482,650	25,709	-	1,578,636
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	29,834	913,941	49,485	-	993,260
February	-	-	-	24,846	771,517	48,456	-	844,819
March	-	-	-	26,901	862,203	33,972	-	923,076
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total March 1969	664	100,374	519,698	7,526,049	31,987,609	2,281,480	61,915	42,477,789
Total year to date	1,846	288,461	1,513,129	22,235,088	87,412,103	6,370,340	200,361	118,021,328
Total March 1968	721	108,845	521,652	7,668,320	27,280,285	1,996,037	79,490	37,655,350

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, March 1969

	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>										
<u>Domestic production</u>										
Crude oil	664	100,374	519,698	7,402,914	26,188,774 732,456 639,175	2,130,114	75,580	36,418,118 732,456	...	36,418,118 732,456
Synthetic crude oil	-	-	-	-	-	-	13,665	652,840	...	652,840
Less returned to formation	-	-	-	-	-	-	-	-	-	-
Totals	664	100,374	519,698	7,402,914	26,282,055	2,130,114	61,915	36,497,734	...	36,497,734
Condensate	-	-	-	-	55,648	8,863	-	64,511	...	64,511
Pentanes plus	-	-	-	25,957	3,305,053	82,822	-	3,413,832	...	3,413,832
Net withdrawals	664	100,374	519,698	7,428,871	29,642,756	2,221,799	61,915	39,976,077	...	39,976,077
Imports .....	...	...	...	...	...	...	...	...	16,924,162	16,924,162
Total supply	664	100,374	519,698	7,428,871	29,642,756	2,221,799	61,915	39,976,077	16,924,162	56,900,239
<u>Disposition</u>										
<u>Deliveries to refineries</u>										
Atlantic Provinces	-	-	-	-	-	-	-	-	4,160,337	4,160,337
Quebec	-	-	-	-	-	-	-	-	12,759,378	12,759,378
Ontario	-	100,374	284,065	4,284,590	6,652,102	-	-	11,321,131	-	11,321,131
Manitoba	-	-	16,185	710,301	584,642	-	-	1,311,128	-	1,311,128
Saskatchewan	-	-	-	55,467	2,093,437	-	-	2,148,904	-	2,148,904
Alberta	-	-	-	-	3,384,234	-	-	3,384,234	-	3,384,234
British Columbia	-	-	-	-	1,505,402	1,833,064	-	3,338,466	-	3,338,466
Northwest Territories	-	-	-	-	-	-	65,362	65,362	-	65,362
Totals	-	100,374	300,250	5,050,358	14,219,817	1,833,064	65,362	21,569,225	16,919,715	38,488,940
<u>Exports to U.S.A.</u>										
Petroleum Administration										
District I	-	-	-	143,743	2,152,885	-	-	2,296,628	-	2,296,628
II	-	-	260,555	2,184,640	4,952,693	-	-	7,397,888	-	7,397,888
IV	-	-	-	-	1,201,865	-	-	1,201,865	-	1,201,865
V	-	-	-	-	5,991,901	511,323	-	6,503,224	-	6,503,224
Totals	-	-	260,555	2,328,383	14,299,344	511,323	-	17,399,605	-	17,399,605
<u>Inventories</u>										
Opening - Field and plant	4,622	-	83,394	407,039	1,669,580	- 33,774	99,303	2,230,164	-	2,230,164
Transporters'	-	-	60,156	5,127,977	25,887,276	1,327,549	-	32,402,958	359,835	32,762,793
Closing - Field and plant	3,803	-	69,989	439,983	1,645,841	- 44,714	95,856	2,210,758	-	2,210,758
Transporters'	-	-	32,956	5,171,278	26,894,057	1,253,859	-	33,352,150	359,835	33,711,985
Net change	- 819	-	- 40,605	76,245	983,042	- 84,630	- 3,447	929,786	-	929,786
Deliveries to other purchasers	1,473	-	-	-	940	1,407	-	3,820	-	3,820
Pipeline fuel	-	-	-	-	17,550	-	-	17,550	-	17,550
Field and plant use	12	-	-	9,046	58,950	-	-	68,008	-	68,008
Losses and adjustments	- 2	-	- 502	- 35,161	63,113	- 39,365	-	- 11,917	4,447	- 7,470
Total disposition	664	100,374	519,698	7,428,871	29,642,756	2,221,799	61,915	39,976,077	16,924,162	56,900,239

... Figures not appropriate or not applicable.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, March 1969

No.		New Brunswick	Quebec	Ontario	Saskatchewan
Mcf.					
	<u>A. FIELD AND PROCESSING PLANTS</u>				
	<u>Supply</u>				
1	Gross new production	10,658	13,449	1,070,363	5,970,945
2	Less field flared and waste	-	-	-	872,824
3	Net new production (1 - 2)	10,658	13,449	1,070,363	5,098,121
4	Reproduced	-	-	-	-
5	Less injected and stored	-	-	-	-
6	Net withdrawals	10,658	13,449	1,070,363	5,098,121
	<u>Disposition</u>				
7	Field disposition and uses	334	-	-	306,668
8	Gathering system disposition and uses	-	-	-	86,653
9	Processing plant disposition and uses:				
9a	Processing shrinkage	-	-	-	180,969
9b	Other disposition and uses	-	-	-	175,230
10	Other uses	-	-	-	65,972
11	Adjustment	-	-	-	63,229
12	Deliveries of marketable gas	10,324	13,449	1,070,363	4,219,400
13	Total disposition	10,658	13,449	1,070,363	5,098,121
	<u>B. GAS UTILITIES</u>				
	<u>Supply</u>				
14	<u>Receipts of marketable gas</u>				
14a	Plants	-	-	-	1,781,697
14b	Fields	10,324	13,449	1,070,363	2,458,303
15	Total (14a + 14b)	10,324	13,449	1,070,363	4,219,400
16	Receipts from distributor storage	-	-	-	5,472,153
17	Imports	-	-	-	-
17a	Other receipts(1)	-	-	-	-
18	Total supply of marketable gas (15 + 16 + 17 + 17a)	10,324	13,449	6,542,516	5,337,205
	<u>Disposition</u>				
	<u>Sales</u>				
19	British Columbia	-	-	-	-
20	Alberta	-	-	-	-
21	Saskatchewan	-	-	-	4,640,786
22	Manitoba	-	-	-	-
23	Ontario	-	-	6,445,291	-
24	Quebec	-	13,449	-	-
25	New Brunswick	4,796	-	-	-
26	Total sales (19 to 25 inclusive)	4,796	13,449	6,445,291	4,640,786
27	Exports	-	-	-	-
28	Other deliveries(2)	-	-	-	-
29	Delivered to distributor storage	-	-	-	190,916
30	Pipeline line pack fluctuation	-	-	-	- 5,260
31	Pipeline fuel	-	-	36,221	251,244
32	Pipeline losses etc.	5,528	-	61,004	259,519
33	Total disposition of marketable gas (26 to 32 inclusive)	10,324	13,449	6,542,516	5,337,205

(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 1969

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
169,631,702 5,785,330	30,334,587 1,476,360	60,603 55,649	207,092,307 8,190,163	...	207,092,307 8,190,163	1 2
163,846,372	28,858,227	4,954	198,902,144	...	198,902,144	3
19,210,017	626,275	-	19,836,292	...	19,836,292	4 5
144,636,355	28,231,952	4,954	179,065,852	...	179,065,852	6
721,803 534,151	598,571 -	-	1,627,376 620,804	...	1,627,376 620,804	7 8
20,437,949 6,018,574 84,190 - 488,669 117,328,357	636,651 2,896,821 - 22,981 24,076,928	- - 4,954 - -	21,255,569 9,090,625 155,116 - 402,459 146,718,821	...	21,255,569 9,090,625 155,116 - 402,459 146,718,821	9a 9b 10 11 12
144,636,355	28,231,952	4,954	179,065,852	...	179,065,852	13
94,580,105 22,748,252	23,586,475 490,453	-	119,927,677 26,791,144	...	119,927,677 26,791,144	14a 14b
117,328,357	24,076,928	-	146,718,821	...	146,718,821	15
162,232 - 121,608	- - 43	-	6,752,190 - 121,651	4,201,424	6,752,190 4,201,424 121,651	16 17 17a
117,612,197	24,076,971	-	153,592,662	4,201,424	157,794,086	18
1,438,348 23,098,778 3,921,803 5,176,239 25,915,727 4,728,200 -	8,598,260 - - - - - -	-	10,036,608 23,098,778 8,562,589 5,176,239 32,361,018 4,741,649 4,796	- 13,721 - - 4,187,546 - -	10,036,608 23,112,499 8,562,589 5,176,239 36,548,564 4,741,649 4,796	19 20 21 22 23 24 25
64,279,095	8,598,260	-	83,981,677	4,201,267	88,182,944	26
42,985,410 1,370,907 1,478,333 - 12,256 5,967,272 1,543,436	13,621,972 - - 58,835 1,734,960 62,944	- - - - - -	56,607,382 1,370,907 1,669,249 41,319 7,989,697 1,932,431	- - - - - 157	56,607,382 1,370,907 1,669,249 41,319 7,989,697 1,932,588	27 28 29 30 31 32
117,612,197	24,076,971	-	153,592,662	4,201,424	157,794,086	33

TABLE 4. Net new Production of Natural Gas by Month, by Province, March 1969

Month	New Brunswick	Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F								
January	11,624	13,947	1,243,165	6,398,968	165,207,478	28,974,555	6,514	201,856,251
February	10,840	12,608	1,019,257	5,373,787	150,633,358	27,125,983	5,875	184,181,708
March	10,658	13,449	1,070,363	5,098,121	163,846,372	28,858,227	4,954	198,902,144
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total year to date	33,122	40,004	3,332,785	16,870,876	479,687,208	84,958,765	17,343	584,940,103
Total March 1968	13,697	12,982	1,417,322	5,391,872	138,449,730	23,270,779	4,309	168,560,691

TABLE 5. Gas Processing Plant Production of Sulphur by Month, by Province, March 1969

Month	Saskatchewan	Alberta	British Columbia	Canada
short tons				
January	342	327,032	6,668	334,042
February	260	302,298	5,873	308,431
March	302	353,114	6,605	360,021
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total year to date	904	982,444	19,146	1,002,494
Total March 1968	355	305,910	3,714	309,979

TABLE 6. Supply of Gas Processing Plant Propane, Butanes and Sulphur, March 1969

	Propane	Butanes	Sulphur
	barrels		short tons
<u>Production</u>			
Saskatchewan	70,277	26,901	302
Alberta	1,500,612	952,656	353,114
British Columbia	25,709	33,972	6,605
Canada	1,596,598	1,013,529	360,021
<u>Returned to formation</u>			
Saskatchewan	17,962	90,453	...
Alberta .....	...	...	...
British Columbia .....			...
Canada	17,962	90,453	...
<u>Net withdrawals</u>			
Saskatchewan	70,277	26,901	...
Alberta	1,482,650	862,203	...
British Columbia	25,709	33,972	...
Canada	1,578,636	923,076	...

... Figures not appropriate or not applicable.

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