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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

APRIL 1969

The production of crude petroleum and equivalent hydrocarbons during April 1969 amounted to 34,489,985 barrels, or 1,149,666 barrels per day, an increase of 7.6 per cent or 81,465 barrels per day from April 1968. The production figures for all petroleum liquids for the two years are as follows:

	April 1968		April 1969	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude Petroleum and condensate	29.3	977,182	31.2	1,040,854
Pentanes plus	2.7	91,019	3.3	108,812
Propane and butanes	2.1	69,547	2.3	77,618
Totals	34.1	1,137,748	36.8	1,227,284

The disposition of Canadian crude and equivalent for April 1969 was 17.7 million barrels (51.4 per cent) to Canadian refineries and 16.1 million barrels (46.6 per cent) was exported. The 2.0 per cent difference between supply and sales is accounted for by inventory changes, industry own use, etc. Imported crude petroleum for the same period amounted to 14.5 million barrels (482,763 barrels per day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 32.2 million barrels (1,073,512 barrels per day).

Natural gas production increased 20.0 per cent to 185,429,564 Mcf. from 154,556,400 Mcf. in April 1968. The disposition of natural gas for April 1969 is as follows: 27.1 million was net deliveries to storage and injection operation; 31.6 million was used, lost or unaccounted for in fields and processing plants; 55.9 million was exported; 30.5 million was sold to ultimate customers in the prairies; 28.9 million in Ontario; 8.4 million in British Columbia and 4.2 million in Quebec. The excess of 1.2 million Mcf. between production and disposition was accounted for by other deliveries, pipe line 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.

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", catalogue number 45-005, 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 pipe line are included in Table 2, while inventories held by refiners in a refinery complex are excluded. Details on the movement of crude oil by pipe line are given in another companion report "Oil Pipe Line 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
6505-513

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province April 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	657	105,615	496,065	6,780,269	21,752,140	2,054,633	36,238	31,225,617
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	-	-	-	26,533	3,165,833	72,002	-	3,264,368
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	-	-	-	68,386	1,398,561	4,639	-	1,471,586
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	-	-	-	27,347	802,868	26,732	-	856,947
May								
June								
July								
August								
September								
October								
November								
December								
Total April 1969	657	105,615	496,065	6,902,535	27,119,402	2,158,006	36,238	36,818,518
Total year to date	2,503	394,076	2,009,194	29,137,623	114,531,505	8,528,346	236,599	154,839,846
Total April 1968	638	101,371	511,806	7,236,536	24,519,717	1,715,984	46,392	34,132,444

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TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, April 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	657	105,615	496,065	6,780,269	22,298,992	2,048,718	52,401	31,782,717	...	31,782,717
Synthetic crude oil	-	-	-	-	484,581	-	-	484,581	...	484,581
Less returned to formation	-	-	-	-	1,100,384	-	16,163	1,116,547	...	1,116,547
Totals	657	105,615	496,065	6,780,269	21,683,189	2,048,718	36,238	31,150,751	...	31,150,751
Condensate	-	-	-	-	68,951	5,915	-	74,866	...	74,866
Pentanes plus	-	-	-	26,533	3,165,833	72,002	-	3,264,368	...	3,264,368
Net withdrawals	657	105,615	496,065	6,806,802	24,917,973	2,126,635	36,238	34,489,985	...	34,489,985
Imports .....	...	...	...	...	...	...	...	...	14,482,880	14,482,880
Total supply	657	105,615	496,065	6,806,802	24,917,973	2,126,635	36,238	34,489,985	14,482,880	48,972,865
<u>Disposition</u>										
<u>Deliveries to refineries</u>										
Atlantic Provinces	-	-	-	-	-	-	-	-	3,843,513	3,843,513
Quebec	-	-	-	-	-	-	-	-	10,550,389	10,550,389
Ontario	-	105,615	213,650	3,910,725	5,268,320	-	-	9,498,310	84,073	9,582,383
Manitoba	-	-	15,987	770,724	508,711	-	-	1,295,422	-	1,295,422
Saskatchewan	-	-	-	133,642	921,343	-	-	1,054,985	-	1,054,985
Alberta	-	-	-	-	2,714,984	-	-	2,714,984	-	2,714,984
British Columbia	-	-	-	-	1,626,675	1,477,533	-	3,104,208	-	3,104,208
Northwest Territories	-	-	-	-	-	-	59,486	59,486	-	59,486
Totals	-	105,615	229,637	4,815,091	11,040,033	1,477,533	59,486	17,727,395	14,477,975	32,205,370
<u>Exports to U.S.A.</u>										
<u>Petroleum Administration</u>										
District I	-	-	-	174,950	2,110,358	-	-	2,285,308	-	2,285,308
II	-	-	239,828	1,738,221	4,593,310	-	-	6,571,359	-	6,571,359
IV	-	-	-	-	1,028,367	-	-	1,028,367	-	1,028,367
V	-	-	-	-	5,613,097	574,887	-	6,187,984	-	6,187,984
Totals	-	-	239,828	1,913,171	13,345,132	574,887	-	16,073,018	-	16,073,018
<u>Inventories</u>										
Opening - 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
Closing - Field and plant	3,136	-	73,503	429,135	1,701,380	- 18,144	72,608	2,261,618	-	2,261,618
Transporters'	-	-	54,008	5,250,413	27,386,034	1,364,817	-	34,055,272	359,835	34,415,107
Net change	- 667	-	24,566	68,287	547,516	137,528	- 23,248	753,982	-	753,982
Deliveries to other purchasers	1,346	-	-	-	- 4,821	145	-	- 3,330	-	- 3,330
Pipeline fuel	-	-	-	-	17,061	-	-	17,061	-	17,061
Field and plant use	-	-	-	10,439	64,576	-	-	75,015	-	75,015
Losses and adjustments	- 22	-	2,034	- 186	- 91,524	- 63,458	-	- 153,156	4,905	- 148,251
Total disposition	657	105,615	496,065	6,806,802	24,917,973	2,126,635	36,238	34,489,985	14,482,880	48,972,865

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Quebec	Ontario	Saskatchewan
					Mcf.
	<u>A. FIELD AND PROCESSING PLANTS</u>				
	<u>Supply</u>				
1	Gross new production	8,903	11,680	1,033,390	5,495,964
2	Less field flared and waste	-	-	-	863,016
3	Net new production (1 - 2)	8,903	11,680	1,033,390	4,632,948
4	Reproduced	-	-	-	-
5	Less injected and stored	-	-	-	-
6	Net withdrawals	8,903	11,680	1,033,390	4,632,948
	<u>Disposition</u>				
7	Field disposition and uses	248	-	-	319,612
8	Gathering system disposition and uses	-	-	-	47,252
9	Processing plant disposition and uses:				
9a	Processing shrinkage	-	-	-	183,659
9b	Other disposition and uses	-	-	-	229,719
10	Other uses	-	-	-	75,164
11	Adjustment	-	-	-	- 68,111
12	Deliveries of marketable gas	8,655	11,680	1,033,390	3,845,653
13	Total disposition	8,903	11,680	1,033,390	4,632,948
	<u>B. GAS UTILITIES</u>				
	<u>Supply</u>				
14	<u>Receipts of marketable gas</u>				
14a	Plants	-	-	-	1,970,320
14b	Fields	8,655	11,680	1,033,390	1,874,733
15	Total (14a + 14b)	8,655	11,680	1,033,390	3,845,653
16	Receipts from distributor storage	-	-	1,033,862	58,198
17	Imports	-	-	-	-
17a	Other receipts(1)	-	-	-	-
18	Total supply of marketable gas (15 + 16 + 17 + 17a)	8,655	11,680	2,067,252	3,903,851
	<u>Disposition</u>				
	<u>Sales</u>				
19	British Columbia	-	-	-	-
20	Alberta	-	-	-	-
21	Saskatchewan	-	-	-	4,361,712
22	Manitoba	-	-	-	-
23	Ontario	-	-	2,746,179	-
24	Quebec	-	11,680	-	-
25	New Brunswick	6,660	-	-	-
26	Total sales (19 to 25 inclusive)	6,660	11,680	2,746,179	4,361,712
27	Exports	-	-	-	-
28	Other deliveries(2)	-	-	-	-
29	Delivered to distributor storage	-	-	-	1,333,406
30	Pipeline line pack fluctuation	-	-	-	213,269
31	Pipeline fuel	1,995	-	49,782	8,171
32	Pipeline losses etc.	-	-	- 728,709	- 2,012,707
33	Total disposition of marketable gas (26 to 32 inclusive)	8,655	11,680	2,067,252	3,903,851

(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, April 1969

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
157,079,217	28,280,395	47,832	191,957,381	...	191,957,381	1
4,709,997	910,630	44,174	6,527,817	...	6,527,817	2
152,369,220	27,369,765	3,658	185,429,564	...	185,429,564	3
-	-	-	-	...	-	4
19,168,090	742,975	-	19,911,065	...	19,911,065	5
133,201,130	26,626,790	3,658	165,518,499	...	165,518,499	6
563,030	1,308,082	-	2,190,972	...	2,190,972	7
- 272,498	-	-	- 225,246	...	- 225,246	8
19,524,894	524,241	-	20,232,794	...	20,232,794	9a
7,055,850	3,023,171	-	10,308,740	...	10,308,740	9b
139,953	-	3,658	218,775	...	218,775	10
- 728,084	- 316,932	-	- 1,113,127	...	- 1,113,127	11
106,917,985	22,088,228	-	133,905,591	...	133,905,591	12
133,201,130	26,626,790	3,658	165,518,499	...	165,518,499	13
88,705,382	21,613,668	-	112,289,970	...	112,289,970	14a
18,312,603	474,560	-	21,615,621	...	21,615,621	14b
106,917,985	22,088,228	-	133,905,591	...	133,905,591	15
26,908	-	-	1,118,968	...	1,118,968	16
-	-	-	-	4,254,464	4,254,464	17
122,552	79	-	122,631	...	122,631	17a
107,067,445	22,088,307	-	135,147,190	4,254,464	139,401,654	18
1,208,621	7,171,147	-	8,379,768	-	8,379,768	19
18,605,205	-	-	18,605,205	8,003	18,613,208	20
2,974,113	-	-	7,335,825	-	7,335,825	21
4,595,162	-	-	4,595,162	-	4,595,162	22
26,169,652	-	-	28,915,831	4,246,965	33,162,796	23
4,222,818	-	-	4,234,498	-	4,234,498	24
-	-	-	6,660	-	6,660	25
57,775,571	7,171,147	-	72,072,949	4,254,968	76,327,917	26
42,568,716	13,346,204	-	55,914,920	-	55,914,920	27
384,612	-	-	384,612	-	384,612	28
6,992,432	-	-	8,325,838	-	8,325,838	29
439,274	- 28,316	-	624,227	-	624,227	30
5,578,313	1,494,544	-	7,132,805	-	7,132,805	31
- 6,671,473	104,728	-	- 9,308,161	- 504	- 9,308,665	32
107,067,445	22,088,307	-	135,147,190	4,254,464	139,401,654	33

TABLE 4. Net new Production of Natural Gas by Month, by Province, April 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	8,903	11,680	1,033,390	4,632,948	152,369,220	27,369,765	3,658	185,429,564
May								
June								
July								
August								
September								
October								
November								
December								
Total year to date	42,025	51,684	4,366,175	21,503,824	632,056,428	112,328,530	21,001	770,369,667
Total April 1968	8,904	10,454	1,025,161	4,755,450	127,094,247	21,658,638	3,546	154,556,400

TABLE 5. Gas Processing Plant Production of Sulphur by Month, by Province, April 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	312	341,944	5,699	347,955
May				
June				
July				
August				
September				
October				
November				
December				
Total year to date	1,216	1,324,388	24,845	1,350,449
Total April 1968	400	267,391	3,581	271,372

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

	Propane	Butanes	Sulphur
	barrels		short tons
<u>Production</u>			
Saskatchewan	68,386	27,347	312
Alberta	1,400,658	925,771	341,944
British Columbia	4,639	26,732	5,699
Canada	1,473,683	979,850	347,955
<u>Returned to formation</u>			
Saskatchewan .....	...	...	...
Alberta	2,097	122,903	...
British Columbia .....	...	...	...
Canada	2,097	122,903	...
<u>Net withdrawals</u>			
Saskatchewan	68,386	27,347	...
Alberta	1,398,561	802,868	...
British Columbia	4,639	26,732	...
Canada	1,471,586	856,947	...

... Figures not appropriate or not applicable.

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