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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

APRIL 1965

The production of crude petroleum and equivalent hydrocarbon during April 1965 amounted to 25,155,653 barrels (838,522 barrels/day), an increase of 13.5 per cent or 3,335 barrels per day over the same period in 1964. The April production figures for all petroleum liquids for the two years are as follows:

	April 1965		April 1964	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates	23.0	766,667	20.1	670,000
Pentanes plus	2.2	73,333	2.1	70,000
Propanes and butanes	1.4	46,667	1.0	33,333
Totals	26.6	886,667	23.2	773,333

The disposition of the April 1965 production was 16.2 million barrels (64.3 per cent) to Canadian refineries, 8.6 million barrels (34.1 per cent) was exported and the remaining 1.6 per cent was accounted for by other deliveries, pipeline fuel, field and plant use and losses and adjustments. Imported crude petroleum for this same period amounted to 10.8 million barrels (360,000 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbon production to 36.0 million barrels (1,200,000 barrels/day).

Natural gas production increased 6.7 per cent to 117,107,356 Mcf. from 109,765,369 Mcf. in April 1964. Of the total production of 117.1 million Mcf., 17.5 million was net deliveries to storage and injection operations, 16.0 million was used, lost or unaccounted for in fields and processing plants, 31.9 million was exported, 23.4 million was sold to ultimate customers in the prairies, 22.2 million in Ontario, 4.8 million in British Columbia and 2.6 million in Quebec. The difference of 1.3 million between supply and sales is accounted for by line pack fluctuations.

Table 1 includes all crude oil and equivalent hydrocarbon production of condensates and pentanes plus. 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 and 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 fuel 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.

Industry Division

September 1965
6511-515

TABLE 1. Production of Crude Oil, Condensate, Natural Gasoline and Pentanes Plus by Month, by Province 1965

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January	299	94,485	398,597	7,102,112	17,860,267	1,005,456	49,674	26,510,890
February	298	89,230	357,046	6,382,912	15,537,605	903,469	70,825	23,341,385
March	377	110,932	403,181	7,329,287	16,240,006	1,056,504	56,106	25,196,393
April	252	113,025	395,927	6,863,354	14,479,919	1,068,193	45,113	22,965,783
May								
June								
July								
August								
September								
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	20,971	2,387,019	86,369	-	2,494,359
February	-	-	-	18,714	2,138,274	82,964	-	2,239,952
March	-	-	-	21,262	2,376,638	91,916	-	2,489,816
April	-	-	-	19,101	2,089,809	80,960	-	2,189,870
May								
June								
July								
August								
September								
October								
November								
December								
Total April 1965	252	113,025	395,927	6,882,455	16,569,728	1,149,153	45,113	25,155,653
Total year to date	1,226	407,672	1,554,751	27,757,713	73,109,537	4,375,831	221,718	107,428,448
Total April 1964	-	111,006	333,701	6,408,727	14,180,607	1,060,165	60,202	22,154,408

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, April 1965

	New Brunswick	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
barrels of 35 Canadian gallons										
<u>New supply</u>										
Domestic production:										
Crude oil	252	113,025	395,927	6,863,354	14,435,973	1,067,219	45,113	22,920,863	...	22,920,863
Condensate	-	-	-	-	43,946	974	-	44,920	...	44,920
Pentanes plus	-	-	-	19,101	2,089,809	80,960	-	2,189,870	...	2,189,870
Total crude oil and equivalent	252	113,025	395,927	6,882,455	16,569,728	1,149,153	45,113	25,155,653	...	25,155,653
Imports .....	...	...	...	...	...	...	...	...	10,829,211	10,829,211
Total new supply	252	113,025	395,927	6,882,455	16,569,728	1,149,153	45,113	25,155,653	10,829,211	35,984,864
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	252	-	-	-	-	-	-	252	2,130,480	2,130,732
Quebec	-	-	-	-	-	-	-	-	8,697,065	8,697,065
Ontario	-	113,025	301,752	3,753,019	4,814,438	-	-	8,982,234	-	8,982,234
Manitoba	-	-	100,489	500,198	597,782	-	-	1,198,469	-	1,198,469
Saskatchewan	-	-	-	283,190	1,012,931	-	-	1,296,121	-	1,296,121
Alberta	-	-	-	60,817	2,120,432	-	-	2,181,249	-	2,181,249
British Columbia	-	-	-	-	1,432,233	1,074,000	-	2,506,233	-	2,506,233
Northwest Territories	-	-	-	-	-	-	68,148	68,148	-	68,148
Totals	252	113,025	402,241	4,597,224	9,977,816	1,074,000	68,148	16,232,706	10,827,545	27,060,251
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,053,555	84,747	-	4,138,302	-	4,138,302
East of Rocky Mountains	-	-	-	-	398,856	-	-	398,856	-	398,856
Great Lakes Area	-	-	-	2,070,740	1,976,863	-	-	4,047,603	-	4,047,603
Totals	-	-	-	2,070,740	6,429,274	84,747	-	8,584,761	-	8,584,761
Deliveries to other purchasers ..	-	-	-	456	7,136	-	-	7,592	-	7,592
Inventories:										
Opening - Field and plant	-	-	80,303	468,925	869,981	74,173 [†]	91,735	1,585,117	-	1,585,117
Transporters'	-	-	13,250	4,686,321	15,970,558	1,140,744	-	21,810,873	197,237	22,008,110
Closing - Field and plant	-	-	86,933	484,756	886,003	66,351	68,700	1,592,743	-	1,592,743
Transporters'	-	-	13,261	4,913,969	16,014,464	1,172,866	-	22,114,560	197,405	22,311,965
Net change	-	-	6,641	243,479	59,928	24,300	- 23,035	311,313	168	311,481
Pipeline fuel	-	-	-	-	30,914	-	-	30,914	-	30,914
Field and plant use	-	-	-	422	12,766	2,708	-	15,896	-	15,896
Losses and adjustments	-	-	- 12,955	- 29,866	51,894	- 36,602	-	- 27,529	1,498	- 26,031
Total disposition	252	113,025	395,927	6,882,455	16,569,728	1,149,153	45,113	25,155,653	10,829,211	35,984,864

... Figures not appropriate or not applicable.

[†] Revised figure.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, April 1965

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	9,037	1,225,190	5,044,328
2	Less field flared and waste	-	-	1,287,863
3	Net new production (1 - 2)	9,037	1,225,190	3,756,465
	<u>Disposition</u>			
4	Field disposition and uses	203	-	125,178
5	Gathering system disposition and uses	-	-	- 22,756
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	159,568
6b	Other disposition and uses	-	-	150,724
7	Field injection and storage:			
7a	Injected and stored	-	-	-
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	-
8	Other uses	-	-	309,367
9	Adjustment	-	-	- 6,508
10	Deliveries of marketable gas	8,834	1,225,190	3,040,892
11	Total disposition	9,037	1,225,190	3,756,465
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants	-	-	1,988,387
12b	Fields	8,834	1,225,190	1,052,505
13	Total (12a + 12b)	8,834	1,225,190	3,040,892
14	Receipts from distributor storage	-	1,858,543	31,742
15	Other receipts(1)	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	8,834	3,083,733	3,072,634
	<u>Disposition</u>			
	Sales:			
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	2,800,002
20	Manitoba	-	-	539,806
21	Ontario	-	3,252,433	-
22	Quebec	-	-	-
23	New Brunswick	5,737	-	-
24	Total sales (17 to 23 inclusive)	5,737	3,252,433	3,339,808
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	501,009
28	Pipeline line pack fluctuation	-	-	12,057
29	Pipeline fuel	-	21,300	69,304
30	Pipeline losses etc.	3,097	- 190,000	- 849,544
31	Total disposition of marketable gas (24 to 30 inclusive)	8,834	3,083,733	3,072,634

(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 1965

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
103,201,001	13,311,224	48,369	122,839,149	-	122,839,149	1
3,734,063	667,561	42,306	5,731,793	-	5,731,793	2
99,466,938	12,643,663	6,063	117,107,356	-	117,107,356	3
779,566	233,594	-	1,138,541	-	1,138,541	4
699,987	-	-	677,231	-	677,231	5
9,088,703	526,756	-	9,775,027	-	9,775,027	6a
3,778,481	715,450	-	4,644,655	-	4,644,655	6b
17,648,106	163,819	-	17,811,925	-	17,811,925	7a
113,851	-	-	113,851	-	113,851	7b
17,534,255	163,819	-	17,698,074	-	17,698,074	7c
68,465	-	6,063	383,895	-	383,895	8
- 659,652	33,164	-	- 632,996	-	- 632,996	9
68,177,133	10,970,880	-	83,422,929	-	83,422,929	10
99,466,938	12,643,663	6,063	117,107,356	-	117,107,356	11
55,230,542	10,553,835	-	67,772,764	-	67,772,764	12a
12,946,591	417,045	-	15,650,165	-	15,650,165	12b
68,177,133	10,970,880	-	83,422,929	-	83,422,929	13
52,413	-	-	1,942,698	-	1,942,698	14
3,354	-	-	3,354	-	3,354	15
68,232,900	10,970,880	-	85,368,981	1,168,255	86,537,236	16
955,050	3,887,024	-	4,842,074	-	4,842,074	17
14,762,164	-	-	14,762,164	8,141	14,770,305	18
2,498,017	-	-	5,298,019	-	5,298,019	19
2,833,008	-	-	3,372,814	-	3,372,814	20
18,927,293	-	-	22,179,726	1,160,114	23,339,840	21
2,567,943	-	-	2,567,943	-	2,567,943	22
-	-	-	5,737	-	5,737	23
42,543,475	3,887,024	-	53,028,477	1,168,255	54,196,732	24
25,033,664	6,908,955	-	31,942,619	-	31,942,619	25
177,239	-	-	177,239	-	177,239	26
1,249,742	-	-	1,750,751	-	1,750,751	27
140,034	- 133,393	-	18,698	-	18,698	28
3,462,629	263,954	-	3,817,187	-	3,817,187	29
- 4,373,883	44,340	-	- 5,365,990	-	- 5,365,990	30
68,232,900	10,970,880	-	85,368,981	1,168,255	86,537,236	31

TABLE 4. Production of Natural Gas by Month, by Province, 1965

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.f.a. and 60°F							
January	11,708	1,470,195	3,945,106	116,876,133	15,399,267	4,479	137,706,888
February	12,080	1,296,058	3,570,110	104,242,991	13,623,628	6,120	122,750,987
March	11,901	1,439,703	4,006,656	112,583,159	14,552,403	5,329	132,599,151
April	9,037	1,225,190	3,756,465	99,466,938	12,643,663	6,063	117,107,356
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	44,726	5,431,146	15,278,337	433,169,221	56,218,961	21,991	510,164,382
Total April 1964	9,157	1,045,233	3,351,961	94,197,166	11,159,635	2,217	109,765,369

TABLE 5. Production of Propane and Butanes from Natural Gas by Month, by Province, 1965

Month	Propane				Butanes			
	Saskatchewan	Alberta	British Columbia	Canada	Saskatchewan	Alberta	British Columbia	Canada
barrels of 35 Canadian gallons								
January	54,729	807,465	39,263	901,457	27,128	559,473	41,762	628,363
February	49,686	748,340	30,206	828,232	24,216	506,391	37,863	568,470
March	58,700	808,050	30,333	897,083	28,285	533,559	38,343	600,187
April	53,881	759,170	25,443	838,494	25,409	485,743	35,351	546,503
May								
June								
July								
August								
September								
October								
November								
December								
Total year to date	216,996	3,123,025	125,245	3,465,266	105,038	2,085,166	153,319	2,343,523
Total April 1964	54,841	536,607	13,979	605,427	29,732	362,739	31,524	423,995

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