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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JULY 1965

The production of crude petroleum and equivalent hydrocarbon during July 1965 amounted to 26,064,566 barrels (840,792 barrels/day), an increase of 4.9 per cent or 39,434 barrels per day from July 1964. The July production figures for all petroleum liquids for the two years are as follows:

	July 1965		July 1964	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates	24.0	774,194	22.9	738,710
Pentanes plus	2.1	67,742	2.0	64,516
Propanes and butanes	1.4	45,161	1.1	35,484
Totals	27.5	887,097	26.0	838,710

The disposition of crude and equivalent for July 1965 was 17.8 million barrels (68.2 per cent) to Canadian refineries, 3.9 million barrels (34.1 per cent) was exported. The difference of - 2.3 per cent between supply and sales is accounted for by other disposition items. Imported crude petroleum for this same period amounted to 12.3 million barrels (396,774 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 30.1 million barrels (970,968 barrels/day).

Natural gas production increased 4.4 per cent to 99,453,559 Mcf. from 95,251,918 Mcf. in July 1964. The disposition of Natural Gas for July is as follows; 27.0 million was net deliveries to storage and injection operations, 11.5 million was used, lost or unaccounted for in fields and processing plants and 30.9 million was exported; 12.8 million was sold to ultimate customers in the prairies, 9.3 million in Ontario, 3.1 million in British Columbia and 2.1 million in Quebec. The remaining 2.8 million Mcf. was accounted for by other deliveries, pipeline fuel 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 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.

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.

Industry Division

December 1965
6511-515

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

TABLE 1. Field and Plant Production of Liquid Hydrocarbons 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	310	114,823	416,316	7,243,155	13,486,964	1,088,311	26,349	22,376,228
June	330	106,029	416,692	7,093,827	13,743,368	1,088,453	50,283	22,498,982
July	348	108,913	434,602	7,473,542	14,703,239	1,167,208	74,771	23,962,623
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	-	-	-	20,887	2,002,454	74,463	-	2,097,804
June	-	-	-	24,899	2,034,942	71,923	-	2,131,764
July	-	-	-	25,009	2,005,916	71,018	-	2,101,943
August								
September								
October								
November								
December								
<u>Propane</u>								
January	-	-	-	54,729	807,465	39,263	-	901,457
February	-	-	-	49,686	748,340	30,206	-	828,232
March	-	-	-	58,700	808,050	30,333	-	897,083
April	-	-	-	53,881	759,170	25,443	-	838,494
May	-	-	-	57,499	662,601	24,890	-	744,990
June	-	-	-	59,919	706,343	24,349	-	790,611
July	-	-	-	56,402	753,201	28,138	-	837,741
August								
September								
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	27,128	559,473	41,762	-	628,363
February	-	-	-	24,216	506,391	37,863	-	568,470
March	-	-	-	28,285	533,559	38,343	-	600,187
April	-	-	-	25,409	485,743	35,351	-	546,503
May	-	-	-	28,074	445,501	35,722	-	509,297
June	-	-	-	30,367	459,468	38,410	-	528,245
July	-	-	-	31,424	472,243	36,873	-	540,540
August								
September								
October								
November								
December								
Total July 1965	348	108,913	434,602	7,586,377	17,934,599	1,303,237	74,771	27,442,847
Total year to date	2,214	737,437	2,822,361	50,224,751	129,793,968	8,404,153	373,121	192,358,005
Total July 1964	299	106,230	379,261	6,983,252	17,360,984	1,054,532	59,395	25,943,953

ДОИМОНОВСКИЙ

TABLE 1. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, July 1962

	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>New supply</u>										
Domestic production:										
Crude oil	348	108,913	434,602	7,473,542	14,658,964(1)	1,165,615	74,771	23,916,755	...	23,916,755
Condensate	-	-	-	-	44,275	1,593	-	45,868	...	45,868
Pentanes plus	-	-	-	25,009	2,005,916	71,018	-	2,101,943	...	2,101,943
Total crude oil and equivalent	348	108,913	434,602	7,498,551	16,709,155	1,238,226	74,771	26,064,566	...	26,064,566
Imports .....	...	...	...	...	...	...	...	...	12,333,108	12,333,108
Total new supply	348	108,913	434,602	7,498,551	16,709,155	1,238,226	74,771	26,064,566	12,333,108	38,397,674
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	348	-	-	-	-	-	-	348	3,007,353	3,007,701
Quebec	-	-	-	-	-	-	-	-	9,200,273	9,200,273
Ontario	-	108,913	418,246	4,826,212	4,113,848	-	-	9,467,219	80,660	9,547,879
Manitoba	-	-	15,229	527,310	457,778	-	-	1,000,317	-	1,000,317
Saskatchewan	-	-	-	493,769	1,515,733	-	-	2,009,502	-	2,009,502
Alberta	-	-	-	71,393	2,846,051	-	-	2,917,444(2)	-	2,917,444
British Columbia	-	-	-	-	1,261,817	1,039,149	-	2,300,966	-	2,300,966
Northwest Territories	-	-	-	-	-	-	79,018	79,018	-	79,018
Totals	348	108,913	433,475	5,918,684	10,195,227	1,039,149	79,018	17,774,814	12,288,286	30,063,100
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,609,948	194,302	-	4,804,250	-	4,804,250
East of Rocky Mountains	-	-	-	-	365,499	-	-	365,499	-	365,499
Great Lakes Area	-	-	-	1,941,942	1,785,086	-	-	3,727,028	-	3,727,028
Totals	-	-	-	1,941,942	6,760,533	194,302	-	8,896,777	-	8,896,777
Deliveries to other purchasers ..	-	-	-	604	6,044	-	-	6,648	-	6,648
Inventories:										
Opening - Field and plant	-	-	84,852	461,544	1,009,974	71,153 ^r	58,220	1,685,743	-	1,685,743
Transporters'	-	-	14,668	5,513,679	14,720,373 ^r	1,149,593	-	21,398,313	196,509	21,594,822
Closing - Field and plant	-	-	89,234	456,854	908,897	51,606	53,973	1,560,564	-	1,560,564
Transporters'	-	-	14,187	5,216,566	14,425,269	1,195,153	-	20,851,175	241,590	21,092,765
Net change	-	-	3,901	- 301,803	- 396,181	26,013	- 4,247	- 672,317	45,081	- 627,236
Pipeline fuel	-	-	-	-	16,491	-	-	16,491	-	16,491
Field and plant use	-	-	-	266	13,584	2,713	-	16,563	-	16,563
Losses and adjustments	-	-	- 2,774	- 61,142	113,457	- 23,951	-	25,590	- 259	25,331
Total disposition	348	108,913	434,602	7,498,551	16,709,155	1,238,226	74,771	26,064,566	12,333,108	38,397,674

(1) Does not include 354,661 barrels returned to formation.

(2) Due to adjustments Alberta will not correspond to the published receipts in Refined Petroleum Products, catalogue (45-004).

^r Revised figures.

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
			Mcf.	
A. FIELD AND PROCESSING PLANTS				
<u>Supply</u>				
1	Gross new production	6,005	625,422	4,208,724
2	Less field flared and waste	-	-	1,465,956
3	Net new production (1 - 2)	6,005	625,422	2,742,768
<u>Disposition</u>				
4	Field disposition and uses	135	-	132,065
5	Gathering system disposition and uses	-	-	31,181
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	172,551
6b	Other disposition and uses	-	-	242,544
7	Field injection and storage:			
7a	Injected and stored	-	-	-
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	-
8	Other uses	-	-	231,030
9	Adjustment	-	-	- 8,359
10	Deliveries of marketable gas	5,870	625,422	1,941,756
11	Total disposition	6,005	625,422	2,742,768
B. GAS UTILITIES				
<u>Supply</u>				
12	Receipts of marketable gas:			
12a	Plants	-	-	1,368,156
12b	Fields	5,870	625,422	573,600
13	Total (12a + 12b)	5,870	625,422	1,941,756
14	Receipts from distributor storage	-	-	34,666
15	Other receipts(1)	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	5,870	625,422	1,976,422
<u>Disposition</u>				
Sales:				
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	1,632,111
20	Manitoba	-	-	517,059
21	Ontario	-	632,992	-
22	Quebec	-	-	-
23	New Brunswick	3,725	-	-
24	Total sales (17 to 23 inclusive)	3,725	632,992	2,149,170
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	257,054
28	Pipeline line pack fluctuation	-	-	18,507
29	Pipeline fuel	-	35,130	43,671
30	Pipeline losses etc.	2,145	- 42,700	- 491,980
31	Total disposition of marketable gas (24 to 30 inclusive)	5,870	625,422	1,976,422

(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, July 1965

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
90,643,641 4,795,385	11,188,961 958,625	78,718 77,946	106,751,471 7,297,912	-	106,751,471 7,297,912	1 2
85,848,256	10,230,336	772	99,453,559	-	99,453,559	3
1,036,853 130,452	269,772 -	-	1,438,825 161,633	-	1,438,825 161,633	4 5
8,725,803 4,379,622	445,765 558,634	-	9,344,119 5,180,800	-	9,344,119 5,180,800	6a 6b
17,959,429 110,106	182,999 -	-	18,142,428 110,106	-	18,142,428 110,106	7a 7b
17,849,323	182,999	-	18,032,322	-	18,032,322	7c
60,589 - 4,853,931 58,519,545	- - 93,280 8,866,446	772	292,391 - 4,955,570 69,959,039	-	292,391 - 4,955,570 69,959,039	8 9 10
85,848,256	10,230,336	772	99,453,559	-	99,453,559	11
50,271,848 8,247,697	8,453,228 413,218	-	60,093,232 9,865,807	-	60,093,232 9,865,807	12a 12b
58,519,545	8,866,446	-	69,959,039	-	69,959,039	13
13,499 548	- -	-	48,165 548	-	48,165 548	14 15
58,533,592	8,866,446	-	70,007,752	1,395,736	71,403,488	16
766,701 8,983,236 1,299,713 323,043 8,657,587 2,147,095 -	2,367,555 - - - - - -	-	3,134,256 8,983,236 2,931,824 840,102 9,290,579 2,147,095 3,725	- 2,115 - - 1,393,621 - -	3,134,256 8,985,351 2,931,824 840,102 10,684,200 2,147,095 3,725	17 18 19 20 21 22 23
22,177,375	2,367,555	-	27,330,817	1,395,736	28,726,553	24
24,626,556 169,046 8,763,754 - 29,473 2,976,272 - 149,938	6,283,804 - - - 33,995 182,126 66,956	- - - - - -	30,910,360 169,046 9,020,808 - 44,961 3,237,199 - 615,517	- - - - - -	30,910,360 169,046 9,020,808 - 44,961 3,237,199 - 615,517	25 26 27 28 29 30
58,533,592	8,866,446	-	70,007,752	1,395,736	71,403,488	31

TABLE 4. Supply and Disposition of Gas Processing Plant Propane, July 1965

	Maritimes	Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production	56,402 110,329	753,201 512,923	28,138 4,512	...	837,741 627,764
Opening inventory					
Interprovincial movements:									
Receipts from:									
Saskatchewan	-	21,648	70,119	152 12,930	54,170	- 242	14,501	- 450	152 173,368 692
Alberta	-	-	-	-	-	-	-	-	
British Columbia	-	-	-	-	- 152	- 173,368	- 692	-	- 174,212
Deliveries	220,749	1,092,998	46,459	450	1,465,505
Total supply	-	21,648	70,119	13,082					
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	21,648	70,119	13,082	26,801	115,691 75,285	20,258	450	115,691 227,643
Distributor and other	-	21,648	70,119	13,082	26,801	190,976	20,258	450	343,334
Sub-total	-	21,648	70,119	13,082	-	-	-	-	13
Refinery raw material	-	-	-	-	-	-	-	-	13
Exports:									
U.S.A. Petroleum Administration									
District II	34,809	90,850	-	...	125,659
IV	-	11,214	-	...	11,214
V	-	44,271	155	...	44,426
Other	-	-	7,019	...	7,019
Miscellaneous:									
Miscible flood	106,415	...	...	106,415
Gas enrichment	30,695	...	...	30,695
Losses and adjustments	-	-	-	-	2,736	- 10,101	12,329	-	4,964
Plant uses	799	32,587	-	...	33,386
Returned to formation	13,141	...	...	13,141
Closing inventory	155,604	582,950	6,685	...	745,239
Total disposition	-	21,648	70,119	13,082	220,749	1,092,998	46,459	450	1,465,505

... Figures not appropriate or not applicable.

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

	Maritimes	Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	Canada
barrels of 35 Canadian gallons									
<u>Supply</u>									
Production	31,424	472,243	36,873	...	540,540
Opening inventory	126,188	346,752	5,024	...	477,964
Interprovincial movements:									
Receipts from:									
Saskatchewan	-	-	-	-	-	-	-	-	-
Alberta	-	-	54,077	8,271	49,425	...	169	-	111,942
British Columbia	-	-	-	-	-	245	...	-	245
Deliveries	-	- 111,942	- 245	...	- 112,187
Total supply	-	-	54,077	8,271	207,037	707,298	41,821	-	1,018,504
<u>Disposition</u>									
Deliveries:									
Petrochemical plants	-	-	11,074	...	...	11,074
Distributor and other	-	-	2,065	-	-	-	8,049	-	10,114
Sub-total	-	-	2,065	-	-	11,074	8,049	-	21,188
Refinery raw material	-	-	32,707	8,519	-	34,102	22,908	-	98,236
Exports:									
U.S.A. Petroleum Administration									
District II	15,646	75,456	-	...	91,102
IV	-	15,127	-	...	15,127
V	-	137,118	-	...	137,118
Other	-	-	7,709	...	7,709
Miscellaneous:									
Miscible flood	-
Gas enrichment	6,040	...	...	6,040
Losses and adjustments	-	-	19,305	- 248	- 8,525	- 21,242	- 3,890	-	- 14,606
Plant uses	-	29,398	-	...	29,398
Returned to formation	-	-
Closing inventory	199,916	420,225	7,045	...	623,186
Total disposition	-	-	54,077	8,271	207,037	707,298	41,821	-	1,018,504

... Figures not appropriate or not applicable.

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