

CATALOGUE No.

26-006

MONTHLY

# DOMINION BUREAU OF STATISTICS

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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

AUGUST 1968

The production of crude petroleum and equivalent hydrocarbons during August 1968 amounted to 36.3 million barrels, 1,184,167 barrels/day, an increase of 4.9 per cent or 55,737 barrels per day from August 1967. The production figures for all petroleum liquids for the two years are as follows:



	August 1967	August 1968		
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensate .....	32.5	1,048,248	34.1	1,100,678
Pentanes plus .....	2.5	80,181	2.6	83,488
Propane and butanes .....	2.0	63,692	2.1	66,743
Totals .....	37.0	1,192,121	38.8	1,248,909

The disposition of Canadian crude and equivalent for August 1968 was 20.0 million barrels (54.6 per cent) to Canadian refineries and 15.9 million barrels (43.4 per cent) was exported. The difference of 2.0 per cent between supply and sales is accounted for by inventory changes, industry own use, etc. Imported crude petroleum for the same period amounted to 16.3 million barrels (524,492 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 36.3 million barrels (1,170,667 barrels/day).

Natural gas production increased 11.6 per cent to 145,149,418 Mcf. from 130,106,387 Mcf. in August 1967. The disposition of natural gas for August 1968 is as follows: 29.4 million was net deliveries to storage and injection operations; 25.3 million was used, lost or unaccounted for in fields and processing plants and 47.4 million was exported; 16.9 million was sold to ultimate customers in the prairies, 8.4 million in Ontario, 6.8 in British Columbia and 3.3 million in Quebec. The remaining 7.6 million Mcf. was accounted for by other deliveries, pipeline fuel losses and line pack fluctuations.

Table 1 includes production of crude petroleum and equivalent hydrocarbons, of propane and of 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 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.

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

May 1969  
5503-515

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, August 1968

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Canadian gallons								
<u>Crude oil and condensate</u>								
January .....	668	101,554	489,030	7,686,615	20,435,025	1,755,611	79,213	30,547,716
February .....	658	102,588	470,605	7,168,671	20,842,827 <sup>r</sup>	1,700,136	56,864	30,342,349 <sup>r</sup>
March .....	721	108,845	521,652	7,535,524	22,368,491 <sup>r</sup>	1,830,462	79,490	32,445,185 <sup>r</sup>
April .....	638	101,371	511,806	7,099,325	19,952,195 <sup>r</sup>	1,574,233	46,392	29,285,960 <sup>r</sup>
May .....	711	88,428	526,223	6,884,419	20,199,405 <sup>r</sup>	1,786,369	18,989	29,504,544 <sup>r</sup>
June .....	611	87,199	519,115	7,871,743	19,483,231 <sup>r</sup>	1,830,876	57,128	29,849,903 <sup>r</sup>
July .....	561	92,387	535,180	7,899,344	22,404,694 <sup>r</sup>	1,904,977	92,678	32,929,821 <sup>r</sup>
August .....	626	92,202	536,008	8,189,420	23,203,709	2,004,822	94,234	34,121,021
September .....								
October .....								
November .....								
December .....								
<u>Pentanes plus</u>								
January .....	-	-	-	22,162	2,653,132	90,518	-	2,765,812
February .....	-	-	-	24,802	2,652,132	95,568	-	2,772,502
March .....	-	-	-	24,028	2,829,850	83,882	-	2,937,760
April .....	-	-	-	25,541	2,628,026	77,006	-	2,730,573
May .....	-	-	-	29,708	2,353,102	76,010	-	2,458,820
June .....	-	-	-	30,036	2,285,833	71,376	-	2,387,245
July .....	-	-	-	33,107	2,290,749	63,985	-	2,387,841
August .....	-	-	-	31,827	2,493,140	63,175	-	2,588,142
September .....								
October .....								
November .....								
December .....								
<u>Propane</u>								
January .....	-	-	-	76,117	1,302,087	35,307	-	1,413,511
February .....	-	-	-	77,901	1,233,653	35,669	-	1,347,223
March .....	-	-	-	76,284	1,267,136	35,807	-	1,379,227
April .....	-	-	-	77,614	1,174,307	24,856	-	1,276,777
May .....	-	-	-	82,625	1,159,781	26,641	-	1,269,047
June .....	-	-	-	75,002	1,002,036	31,049	-	1,108,087
July .....	-	-	-	75,210	1,078,644	31,188	-	1,185,042
August .....	-	-	-	77,052	1,127,595	26,875	-	1,231,522
September .....								
October .....								
November .....								
December .....								
<u>Butanes</u>								
January .....	-	-	-	31,042	861,803	46,454	-	939,299
February .....	-	-	-	30,464	805,398	42,605	-	878,467
March .....	-	-	-	32,484	818,549	45,836	-	896,869
April .....	-	-	-	34,056	753,343	39,741	-	827,140
May .....	-	-	-	37,330	771,727	35,806	-	844,863
June .....	-	-	-	34,393	705,144	39,443	-	778,980
July .....	-	-	-	33,190	722,100	42,668	-	797,958
August .....	-	-	-	35,074	762,923	39,526	-	837,523
September .....								
October .....								
November .....								
December .....								
Total August 1968 .....	626	92,202	536,008	8,333,373	27,587,367	2,134,398	94,234	38,778,208
Total year to date .....	5,194	774,574	4,109,619	61,442,110	204,621,767 <sup>r</sup>	15,588,477	524,988	287,066,729 <sup>r</sup>
Total August 1967 .....	751	100,699	488,555	8,319,298	26,131,627	1,835,021	88,384	36,964,335

<sup>r</sup> Revised figures.



CATALOGUE No.

26-006

MONTHLY

Crude Petroleum and Natural Gas Production

February to July 1968 inclusive

ERRATA

Page 3 of each report, Column 5 (Alberta)

Line 1, Crude oil:

February report reads	21,251,866	should read	21,463,973	
March	" "	22,651,949	" "	23,220,809
April	" "	20,864,456	" "	21,059,588
May	" "	21,105,370	" "	21,355,458
June	" "	19,511,142	" "	20,049,625
July	" "	22,288,524	" "	22,788,110

Line 5, Net withdrawals, line 7, Total supply, line 31, Total Disposition:

February report reads	23,282,852	should read	23,494,959	
March	" "	24,629,481	" "	25,198,341
April	" "	22,385,089	" "	22,580,221
May	" "	22,302,419	" "	22,552,507
June	" "	21,230,581	" "	21,769,064
July	" "	24,195,857	" "	24,695,443

Line 30, Losses and adjustments:

February report reads	- 286,493	should read	- 74,386	
March	" "	- 573,767	" "	4,907
April	" "	- 384,603	" "	- 189,471
May	" "	- 333,878	" "	- 83,790
June	" "	- 388,099	" "	150,384
July	" "	- 452,056	" "	47,530

Revisions should be carried through to Total Canadian sources and Total all sources.

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada August 1968

	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 .....	626	92,202	536,008	8,189,420	23,633,961(1)	2,000,954	94,234	34,547,405	...	34,547,405
Less returned to formation ....	-	-	-	-	485,632	-	-	485,632	...	485,632
Condensate .....	-	-	-	-	55,380	3,868	-	59,248	...	59,248
Pentanes plus .....	-	-	-	31,827	2,493,140	63,175	-	2,588,142	...	2,588,142
Net withdrawals .....	626	92,202	536,008	8,221,247	25,696,849	2,067,997	94,234	36,709,163	...	36,709,163
Imports .....	...	...	...	...	...	...	...	...	16,259,263	16,259,263
Total supply .....	626	92,202	536,008	8,221,247	25,696,849	2,067,997	94,234	36,709,163	16,259,263	52,968,426
<u>Disposition</u>										
<u>Deliveries to refineries</u>										
Atlantic Provinces .....	-	-	-	-	-	-	-	-	3,639,993	3,639,993
Quebec .....	-	-	-	-	-	-	-	-	12,439,977	12,439,977
Ontario .....	-	89,655	508,212	4,402,360	4,982,403	-	-	9,982,630	178,196	10,160,826
Manitoba .....	-	-	16,444	596,702	696,508	-	-	1,309,654	-	1,309,654
Saskatchewan .....	-	-	-	317,202	1,793,068	-	-	2,110,270	-	2,110,270
Alberta .....	-	-	-	111,254	3,228,333	-	-	3,339,587	-	3,339,587
British Columbia .....	-	-	-	-	1,521,875	1,684,619	-	3,206,494	-	3,206,494
Northwest Territories .....	-	-	-	-	-	-	83,886	83,886	-	83,886
Totals .....	-	89,655	524,656	5,427,518	12,222,187	1,684,619	83,886	20,032,521	16,258,166	36,290,687
<u>Exports to U.S.A.</u>										
Petroleum Administration:										
District I .....	-	-	-	232,297	1,778,723	-	-	2,011,020	-	2,011,020
II and III .....	-	-	4,220	3,053,072	4,151,840	-	-	7,209,132	-	7,209,132
IV .....	-	-	-	-	956,124	-	-	956,124	-	956,124
V .....	-	-	-	-	5,401,171	351,493	-	5,752,664	-	5,752,664
Totals .....	-	-	4,220	3,285,369	12,287,858	351,493	-	15,928,940	-	15,928,940
<u>Inventories</u>										
Opening - Field and plant .....	7,514	-	77,368	419,409	1,451,292	- 24,934	46,228	1,976,877	-	1,976,877
Transporters' .....	-	-	354,310	4,697,465	21,571,672	1,391,050	-	28,014,497	359,835	28,374,332
Closing - Field and plant .....	7,207	-	76,248	388,425	1,459,238	- 30,606	56,576	1,957,088	-	1,957,088
Transporters' .....	-	-	355,804	4,381,941	22,464,205	1,396,059	-	28,598,009	359,835	28,957,844
Net change .....	~ 307	-	374	- 346,508	900,479	- 663	10,348	563,723	-	563,723
Deliveries to other purchasers ....	981	-	-	1,222	1,837	1,369	-	5,409	-	5,409
Pipeline fuel .....	-	-	-	-	19,449	-	-	19,449	-	19,449
Field and plant use .....	-	-	-	3,578	53,517	-	-	57,095	-	57,095
Losses and adjustments .....	- 48	2,547	6,758	- 149,932	211,522	31,179	-	102,026	1,097	103,123
Total disposition .....	626	92,202	536,008	8,221,247	25,696,849	2,067,997	94,234	36,709,163	16,259,263	52,968,426

... Figures not appropriate or not applicable.

(1) Includes 636,272 barrels of synthetic crude oil.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, August 1968

No.		New Brunswick and Quebec	Ontario	Saskatchewan
				Mcf.
<u>A. FIELD AND PROCESSING PLANTS</u>				
<u>Supply</u>				
1	Gross new production .....	16,598	727,015	4,513,530
2	Less field flared and waste .....	-	-	1,020,084
3	Net new production (1 - 2) .....	16,598	727,015	3,493,446
4	Reproduced .....	-	-	-
5	Less injected and stored .....	-	-	3,721
6	Net withdrawals .....	16,598	727,015	3,489,725
<u>Disposition</u>				
7	Field disposition and uses .....	100	-	330,128
8	Gathering system disposition and uses .....	-	-	54,016
9	Processing plant disposition and uses:			
9a	Processing shrinkage .....	-	-	215,473
9b	Other disposition and uses .....	-	-	220,744
10	Other uses .....	-	-	119,208
11	Adjustment .....	-	-	- 31,815
12	Deliveries of marketable gas .....	16,498	727,015	2,581,971
13	Total disposition .....	16,598	727,015	3,489,725
<u>B. GAS UTILITIES</u>				
<u>Supply</u>				
14	<u>Receipts of marketable gas</u>			
14a	Plants .....	-	-	1,583,104
14b	Fields .....	16,498	727,015	998,867
15	Total (14a + 14b) .....	16,498	727,015	2,581,971
16	Receipts from distributor storage .....	-	23,740	573
17	Other receipts .....	-	-	-
18	Total supply of marketable gas (15 + 16 + 17) .....	16,498	750,755	2,582,544
<u>Disposition</u>				
<u>Sales</u>				
19	British Columbia .....	-	-	-
20	Alberta .....	-	-	-
21	Saskatchewan .....	-	-	1,619,140
22	Manitoba .....	-	-	-
23	Ontario .....	-	641,096	-
24	Quebec .....	9,136	-	-
25	New Brunswick .....	3,391	-	-
26	Total sales (19 to 25 inclusive) .....	12,527	641,096	1,619,140
27	Exports .....	-	-	-
28	Other deliveries(1) .....	-	-	582,886
29	Delivered to distributor storage .....	-	-	14,970
30	Pipeline line pack fluctuation .....	-	-	132,676
31	Pipeline fuel .....	-	37,283	232,872
32	Pipeline losses etc. .....	3,971	72,376	-
33	Total disposition of marketable gas (26 to 32 inclusive) .....	16,498	750,755	2,582,544

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

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, August 1968

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
125,856,122 5,116,236	21,217,521 1,045,891	85,403 84,560	152,416,189 7,266,771	...	152,416,189 7,266,771	1 2
120,739,886	20,171,630	843	145,149,418	...	145,149,418	3
18,154,879	721,821	-	18,880,421	...	18,880,421	4 5
102,585,007	19,449,809	843	126,268,997	...	126,268,997	6
1,211,861 528,145	360,079 -	-	1,902,168 582,161	...	1,902,168 582,161	7 8
15,172,353 5,628,350 78,850 - 1,057,470 81,022,918	499,565 1,759,853 - 160,405 16,669,907	- 843 - - -	15,887,391 7,608,947 198,901 - 928,880 101,018,309	...	15,887,391 7,608,947 198,901 - 928,880 101,018,309	9a 9b 10 11 12
102,585,007	19,449,809	843	126,268,997	...	126,268,997	13
53,063,913 13,935,000	16,303,486 366,421	-	85,974,508 15,043,801	...	85,974,508 15,043,801	14a 14b
81,022,918	16,669,907	-	101,018,309	...	101,018,309	15
27,910 3,048	- 53	-	52,223 3,101	...	52,223 7,091,470	16 17
81,053,876	16,669,960	-	101,073,633	7,088,369	108,162,002	18
793,537 11,093,473 2,598,432 1,572,335 7,740,818 3,273,390 -	6,019,548 - - - - - -	-	6,813,085 11,093,473 4,217,572 1,572,335 8,381,914 3,282,526 3,391	- 2,836 - - 7,085,495 - -	6,813,085 11,096,309 4,217,572 1,572,335 15,467,409 3,282,526 3,391	19 20 21 22 23 24 25
27,071,985	6,019,548	-	35,364,296	7,088,331	42,452,627	26
37,874,877 32,622 10,022,817 278,570 3,621,817 2,151,188	9,549,523 - - 53,000 688,185 359,704	- - - - - -	47,424,400 32,622 10,605,703 346,540 4,479,961 2,820,111	- - - - - 38	47,424,400 32,622 10,605,703 346,540 4,479,961 2,820,149	27 28 29 30 31 32
81,053,876	16,669,960	-	101,073,633	7,088,369	108,162,002	33

TABLE 4. Net new Production of Natural Gas by Month, by Province, August 1968

Month	New Brunswick and Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F							
January .....	24,339	1,024,625	5,715,059	146,472,605	23,049,330	4,186	176,290,144
February .....	27,754	1,208,009	5,325,851	129,734,135	22,236,721	3,177	158,535,647
March .....	26,679	1,417,322	5,391,872	152,367,747	23,270,779	4,309	182,478,708
April .....	19,358	1,025,161	4,755,450	126,466,383	21,658,518	3,546	153,928,416
May .....	25,064	913,713	4,706,753	118,717,028	21,101,323	3,686	145,467,567
June .....	15,365	817,006	4,213,303	115,882,851	18,962,277	2,100	139,892,902
July .....	14,193	805,146	3,719,567	111,419,999	17,930,216	500	133,889,621
August .....	16,598	727,015	3,493,446	120,739,886	20,171,630	843	145,149,418
September .....							
October .....							
November .....							
December .....							
Total year to date .....	169,350	7,937,997	37,321,301	1,021,800,634	168,380,794	22,347	1,235,632,423
Total August 1967 .....	12,823	965,377	3,280,315	108,100,558	17,744,417	2,897	130,106,387

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TABLE 5. Gas Processing Plant Production of Sulphur by Month, by Province, August 1968

Month	Saskatchewan	Alberta	British Columbia	Canada
short tons				
January .....	372	229,776	3,768	233,916
February .....	360	255,632	3,820	259,812
March .....	355	301,993	3,715	306,063
April .....	400	266,072	4,012	270,484
May .....	351	253,432	1,817	255,600
June .....	318	270,628	3,998	274,944
July .....	358	275,531	4,888	280,777
August .....	278	264,609	5,261	270,148
September .....				
October .....				
November .....				
December .....				
Total year to date .....	2,792	2,117,673	31,279	2,151,744
Total August 1967 .....	347	187,995	4,185	192,527

TABLE 6. Supply of Gas Processing Plant Propane, Butanes and Sulphur, August 1968

	Propane	Butanes	Sulphur
	barrels		short tons
<u>Production</u>			
Saskatchewan .....	77,052	35,074	278
Alberta .....	1,181,155	790,731	264,609
British Columbia .....	26,875	39,526	5,261
Canada .....	1,285,082	865,331	270,148
<u>Returned to formation</u>			
Saskatchewan .....	...	...	...
Alberta .....	53,560	27,808	...
British Columbia .....	...	...	...
Canada .....	53,560	27,808	...
<u>Net withdrawals</u>			
Saskatchewan .....	77,052	35,074	...
Alberta .....	1,127,595	762,923	...
British Columbia .....	26,875	39,526	...
Canada .....	1,231,522	837,523	...

... Figures not appropriate or not applicable.

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