

CATALOGUE No.

26-006

MONTHLY

Historical File Copy

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

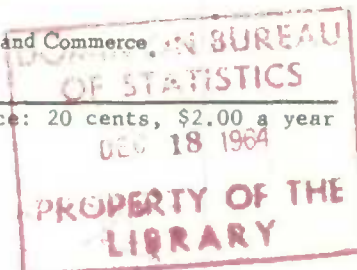
Published by Authority of the Minister of Trade and Commerce

Vol. 16, No. 8

Price: 20 cents, \$2.00 a year

CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

AUGUST 1964



Crude oil and equivalent production increased 5.3 per cent to 24,376,565 barrels (786,341 barrels/day) in August 1964 from 23,144,843 barrels last year. Production of pentanes plus amounted to 2,034,563 barrels. The disposition of Canadian crude oil and equivalent was 66.0 per cent to Canadian refineries, 33.4 per cent was exported and other disposition accounted for 0.6 per cent.

Natural gas production increased 22.1 per cent to 98,658,043 Mcf. from 80,824,041 Mcf. in August 1963. Of the total production of 98.7 million Mcf., 22.7 million was net deliveries to storage and injection operations, 18.6 million was used, lost or unaccounted for in fields and processing plants, 29.0 million was exported, 11.9 million was sold to ultimate customers in the prairies, 9.1 million in Ontario, 2.7 million in Quebec and 2.0 million in British Columbia. The remaining 2.7 million Mcf. was accounted for by other deliveries, line pack changes and pipeline fuel.

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, was formerly published in "Refined Petroleum Products", Catalogue number 45-004. 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. Additional 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 ("Imperial") gallons at 60°F. Additional 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 gas purchased by gas utilities either directly from fields or from processing plants, and represents the basic point of trade between producers and purchasers.

A companion publication, "Natural 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 are given in thousand cubic feet measured at 14.73 p.s.i.a. and 60°F.

Industry Division

December 1964
5311-515

TABLE 1. Production of Crude Oil, Condensate and Pentanes Plus by Month, by Province, 1964

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 "Imperial" gallons								
<u>Crude oil and condensate</u>								
January	666	105,271	328,262	6,708,040	15,996,584	992,783	44,175	24,175,781
February	398	99,211	321,185	6,388,363	15,311,130	912,755	64,846	23,097,888
March	477	112,700	346,811	6,822,575	15,363,508	996,094	35,703	23,677,868
April	-	111,006	333,701	6,388,399	12,204,389	984,862	60,202	20,082,559
May	769	111,712	346,115	6,695,960	14,718,155	1,016,058	24,278	22,913,047
June	308	103,809	359,665	6,730,224	14,572,378	934,947	32,564	22,733,895
July	299	106,230	379,261	6,874,151	14,491,869	954,703	59,395	22,865,908
August	445	99,221	394,391	6,887,402	13,911,392	991,535	57,616	22,342,002
September								
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	23,375	2,016,981	84,092	-	2,124,448
February	-	-	-	22,632	1,887,373	80,627	-	1,990,632
March	-	-	-	23,248	1,935,958	83,885	-	2,043,091
April	-	-	-	21,241	1,976,299	75,303	-	2,072,843
May	-	-	-	23,349	1,906,204	73,221	-	2,002,774
June	-	-	-	21,278	1,850,876	54,497	-	1,926,651
July	-	-	-	26,810	1,889,904	59,483	-	1,976,197
August	-	-	-	25,496	1,944,382	64,685	-	2,034,563
September								
October								
November								
December								
Total August 1964	445	99,221	394,391	6,912,898	15,855,774	1,056,220	57,616	24,376,565
Total year to date	3,362	849,160	2,809,391	53,682,543	131,977,382	8,359,530	378,779	198,060,147
Total August 1963	710	107,555	326,275	6,342,455	15,349,882	961,298	56,668	23,144,843

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, August 1964

	New Brunswick	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
barrels of 35 "Imperial" gallons										
<u>New supply</u>										
Domestic production:										
Crude oil	445	99,221	394,391	6,887,402	13,870,624	990,270	57,616	22,299,969	...	22,299,969
Condensate	-	-	-	-	40,768	1,265	-	42,033	...	42,033
Pentanes plus	-	-	-	25,496	1,944,382	64,685	-	2,034,563	...	2,034,563
Total crude oil and equivalent	445	99,221	394,391	6,912,898	15,855,774	1,056,220	57,616	24,376,565	...	24,376,565
Imports .....	...	...	...	...	...	...	...	...	12,747,454	12,747,454
Total new supply	445	99,221	394,391	6,912,898	15,855,774	1,056,220	57,616	24,376,565	12,747,454	37,124,019
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	445	-	-	-	-	-	-	445	3,520,717	3,521,162
Quebec	-	-	-	-	-	-	-	-	9,160,836	9,160,836
Ontario	-	99,221	301,671	4,292,399	4,193,727	-	-	8,887,018	80,435	8,967,453
Manitoba	-	-	96,967	995,566	190,127	-	-	1,282,660	-	1,282,660
Saskatchewan	-	-	-	201,912	1,591,431	-	-	1,793,343	-	1,793,343
Alberta	-	-	-	38,475	2,714,251	-	-	2,752,726	-	2,752,726
British Columbia	-	-	-	-	507,474	853,853	-	1,361,327	-	1,361,327
Northwest Territories	-	-	-	-	-	-	69,550	69,550	-	69,550
Totals	445	99,221	398,638	5,528,352	9,197,010	853,853	69,550	16,147,069	12,761,988	28,909,057
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,200,317	85,697	-	4,286,014	-	4,286,014
East of Rocky Mountains	-	-	-	-	389,194	-	-	389,194	-	389,194
Great Lakes Area	-	-	-	1,358,639	2,154,142	-	-	3,512,781	-	3,512,781
Totals	-	-	-	1,358,639	6,743,653	85,697	-	8,187,989	-	8,187,989
Deliveries to other purchasers ..	-	-	-	426	1,785	-	-	2,211	-	2,211
Inventories:										
Opening - Field and plant	-	-	82,237	386,645	1,161,947	50,219	64,530	1,745,578	-	1,745,578
Transporters'	-	-	14,085	5,052,310	13,950,732	883,817	-	19,900,944	232,047	20,132,991
Closing - Field and plant	-	-	87,158	383,749	1,086,178	56,958	52,616	1,666,659	-	1,666,659
Transporters'	-	-	15,283	5,014,150	14,035,287	1,002,905	-	20,067,625	218,085	20,285,710
Net change	-	-	6,119	- 41,056	8,786	125,827	- 11,914	87,762	- 13,962	73,800
Pipeline fuel	-	-	-	-	30,346	-	-	30,346	-	30,346
Field and plant use	-	-	-	304	15,643	2,951	-	18,898	-	18,898
Losses and adjustments	-	-	- 10,366	66,233	- 141,449	- 12,108	- 20	- 97,710	- 572	- 98,282
Total disposition	445	99,221	394,391	6,912,898	15,855,774	1,056,220	57,616	24,376,565	12,747,454	37,124,019

... Figures not appropriate or not applicable.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, August 1964

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	6,346	710,268	4,142,930
2	Less field flared and waste	-	-	1,780,905
3	Net new production (1 - 2)	6,346	710,268	2,362,025
	<u>Disposition</u>			
4	Field disposition and uses	142	-	146,473
5	Gathering system disposition and uses	-	-	74,410
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	170,862
6b	Other disposition and uses	-	-	99,567
7	Field injection and storage:			
7a	Injected and stored	-	-	69,187
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	69,187
8	Other uses	-	-	247,913
9	Adjustment	-	-	- 77
10	Deliveries of marketable gas	6,204	710,268	1,553,690
11	Total disposition	6,346	710,268	2,362,025
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants	-	-	1,308,373
12b	Fields	6,204	710,268	245,315
13	Total (12a + 12b)	6,204	710,268	1,553,690
14	Receipts from distributor storage	-	-	107,663
15	Other receipts(1)	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	6,204	710,268	1,661,353
	<u>Disposition</u>			
	Sales:			
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	1,060,409
20	Manitoba	-	-	152,682
21	Ontario	-	549,704	-
22	Quebec	-	-	-
23	New Brunswick	3,975	-	-
24	Total sales (17 to 23 inclusive)	3,975	549,704	1,213,091
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	41,674
28	Pipeline line pack fluctuation	-	-	14,701
29	Pipeline fuel	-	38,745	24,135
30	Pipeline losses etc.	2,229	121,819	367,752
31	Total disposition of marketable gas (24 to 30 inclusive)	6,204	710,268	1,661,353

(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, August 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
91,042,571	9,596,244	82,306	105,580,665	-	105,580,665	1
4,033,777	1,027,495	80,445	6,922,622	-	6,922,622	2
87,008,794	8,568,749	1,861	98,658,043	-	98,658,043	3
1,224,872	16,055	-	1,387,542	-	1,387,542	4
304,819	-	-	379,229	-	379,229	5
7,761,295	408,268	-	8,340,425	-	8,340,425	6a
3,756,265	445,669	-	4,301,501	-	4,301,501	6b
16,761,934	190,069	-	17,021,190	-	17,021,190	7a
142,117	-	-	142,117	-	142,117	7b
16,619,817	190,069	-	16,879,073	-	16,879,073	7c
60,600	-	1,861	310,374	-	310,374	8
1,204,309	- 171,566	-	1,032,666	-	1,032,666	9
56,076,817	7,680,254	-	66,027,233	-	66,027,233	10
87,008,794	8,568,749	1,861	98,658,043	-	98,658,043	11
57,370,467	7,339,912	-	57,370,467	-	57,370,467	12a
7,354,637	340,342	-	8,656,766	-	8,656,766	12b
56,076,817	7,680,254	-	66,027,233	-	66,027,233	13
13,336	-	-	120,999	-	120,999	14
60,558	-	-	60,558	-	60,558	15
56,150,711	7,680,254	-	66,208,790	858,444	67,067,234	16
529,620	1,481,521	-	2,011,141	-	2,011,141	17
8,736,621	-	-	8,736,621	2,167	8,738,788	18
1,124,108	-	-	2,184,517	-	2,184,517	19
801,391	-	-	954,073	-	954,073	20
8,586,226	-	-	9,135,930	856,277	9,992,207	21
2,720,787	-	-	2,720,787	-	2,720,787	22
-	-	-	3,975	-	3,975	23
22,498,753	1,481,521	-	25,747,044	858,444	26,605,488	24
23,257,841	5,790,285	-	29,048,126	-	29,048,126	25
399,257	-	-	399,257	-	399,257	26
5,936,636	-	-	5,978,310	-	5,978,310	27
341,327	122,371	-	478,399	-	478,399	28
1,552,463	85,214	-	1,700,557	-	1,700,557	29
2,164,434	200,863	-	2,857,097	-	2,857,097	30
56,150,711	7,680,254	-	66,208,790	858,444	67,067,234	31

TABLE 4. Production of Natural Gas by Month, by Province, 1964

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
Mcf. at 14.73 p.s.i.a. and 60°F							
January	13,661	1,153,281	4,182,480	104,620,680	13,168,099	3,682	123,141,883
February	12,317	1,886,872	3,829,373	96,531,124	11,818,507	4,461	114,082,654
March	12,711	2,191,960	3,969,890	95,902,648	12,515,103	2,836	114,595,148
April	9,157	1,045,233	3,351,961	94,197,166	11,159,635	2,217	109,765,369
May	7,133	840,958	3,265,045	87,294,397	10,347,502	1,849	101,756,884
June	6,437	764,647	3,069,937	79,754,569	7,904,296	1,838	91,501,724
July	6,103	694,424	2,520,841	83,440,539	8,588,402	1,609	95,251,918
August	6,346	710,268	2,362,025	87,008,794	8,568,749	1,861	98,658,043
September							
October							
November							
December							
Total year to date	73,865	9,287,643	26,551,552	728,749,917	84,070,293	20,353	848,753,623
Total August 1963	6,233	668,169	2,729,972	70,361,594	7,054,697	3,376	80,824,041

TABLE 5. Production of Propane and Butanes from Natural Gas by Month, by Province, 1964

Month	Propane				Butanes			
	Saskatchewan	Alberta	British Columbia	Canada	Saskatchewan	Alberta	British Columbia	Canada
barrels of 35 "Imperial" gallons								
January	56,111	496,469	21,766	574,346	29,680	351,803	37,511	418,994
February	52,676	434,516	18,776	505,968	29,412	322,486	37,596	389,494
March	57,419	432,777	16,616	506,812	30,529	302,108	41,298	373,935
April	54,841	431,917	13,979	500,737	29,732	304,461	31,524	365,717
May	50,031	377,772	10,585	438,388	32,444	317,211	30,280	379,935
June	44,868	389,203	8,981	443,052	30,178	286,303	33,566	350,047
July	52,363	453,798	6,656	512,817	38,531	339,069	33,690	411,290
August	55,090	370,634	21,853	447,577	34,028	376,207	40,509	450,744
September								
October								
November								
December								
Total year to date	423,399	3,387,086	119,212	3,929,697	254,534	2,599,648	285,974	3,140,156
Total August 1963	46,158	236,157	33,958	316,273	29,892	166,155	32,581	228,628

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010519006