

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. 10

Price: 20 cents, \$2.00 a year

CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

OCTOBER 1964

DOMINION BUREAU
OF STATISTICS
FEB 12 1965
PROPERTY OF THE
LIBRARY

Crude oil and equivalent production increased 5.7 per cent to 25,137,300 barrels (810,881 barrels/day) in October 1964 from 23,784,197 barrels last year. Production of pentanes plus amounted to 2,102,984 barrels. The disposition of Canadian crude oil and equivalent was 62.3 per cent to Canadian refineries, 33.4 per cent was exported and other disposition accounted for 4.3 per cent.

Natural gas production increased 17.0 per cent to 108,539,787 Mcf. from 92,752,114 Mcf. in October 1963. Of the total production of 108.5 million Mcf., 17.7 million was net deliveries to storage and injection operations, 15.1 million was used, lost or unaccounted for in fields and processing plants, 34.4 million was exported, 17.5 million was sold to ultimate customers in the prairies, 14.3 million in Ontario, 3.5 million in British Columbia and 2.9 million in Quebec. The remaining 3.1 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

February 1965
6511-515

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	6,387,486	12,204,389	984,862	60,202	20,081,646
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	58,084	22,342,470
September	444	96,568	389,093	6,785,738	14,082,456	953,499	70,871	22,378,669
October	254	101,977	408,626	7,090,808	14,475,956	908,090	48,605	23,034,316
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	-	-	-	24,484	1,935,958	83,885	-	2,044,327
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	-	-	-	23,961	1,667,160	72,294	-	1,763,415
October	-	-	-	25,367	1,995,249	82,368	-	2,102,984
November								
December								
Total October 1964	254	101,977	408,626	7,116,175	16,471,205	990,458	48,605	25,137,300
Total year to date	4,060	1,047,705	3,607,110	67,608,740	164,198,203	10,375,781	498,723	247,340,322
Total October 1963	562	107,959	335,779	6,621,229	15,450,980	1,207,234	60,454	23,784,197

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

	New Brunswick	Ontario	Manitoba	Saskatchewan	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	254	101,977	408,626	7,090,808	14,409,886	906,118	48,605	22,966,274	...	22,966,274
Condensate	-	-	-	-	66,070	1,972	-	68,042	...	68,042
Pentanes plus	-	-	-	25,367	1,995,249	82,368	-	2,102,984	...	2,102,984
Total crude oil and equivalent	254	101,977	408,626	7,116,175	16,471,205	990,458	48,605	25,137,300	...	25,137,300
Imports .....	...	...	...	...	...	...	...	...	13,701,949	13,701,949
Total new supply	254	101,977	408,626	7,116,175	16,471,205	990,458	48,605	25,137,300	13,701,949	38,839,249
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	254	-	-	-	-	-	-	254	4,006,017	4,006,271
Quebec	-	-	-	-	-	-	-	-	9,702,680	9,702,680
Ontario	-	101,977	319,478	4,078,333	3,220,942	-	-	7,720,730	-	7,720,730
Manitoba	-	-	123,108	469,183	437,511	-	-	1,029,802	-	1,029,802
Saskatchewan	-	-	-	213,311	1,098,829	-	-	1,312,140	-	1,312,140
Alberta	-	-	-	92,182	2,590,376	-	-	2,682,558	-	2,682,558
British Columbia	-	-	-	-	1,961,383	983,510	-	2,944,893	-	2,944,893
Northwest Territories	-	-	-	-	-	-	22,260	22,260	-	22,260
Totals	254	101,977	442,586	4,853,009	9,309,041	983,510	22,260	15,712,637	13,708,697	29,421,334
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,335,609	43,211	-	4,378,820	-	4,378,820
East of Rocky Mountains	-	-	-	-	408,611	-	-	408,611	-	408,611
Great Lakes Area	-	-	-	1,469,966	2,171,990	-	-	3,641,956	-	3,641,956
Totals	-	-	-	1,469,966	6,916,210	43,211	-	8,429,387	-	8,429,387
Deliveries to other purchasers ..	-	-	-	186	9,156	-	-	9,342	-	9,342
Inventories:										
Opening - Field and plant	-	-	83,782	412,921	1,103,276	62,473	53,977	1,716,429	-	1,716,429
Transporters'	-	-	13,689	5,051,477	13,749,246	978,086	-	19,792,498	219,190	20,011,688
Closing - Field and plant	-	-	82,897	424,086	1,135,079	48,655	79,801	1,770,518	-	1,770,518
Transporters'	-	-	13,517	5,649,511	14,194,263	914,851	-	20,772,142	214,446	20,986,588
Net change	-	-	- 1,057	609,199	476,820	- 77,053	25,824	1,033,733	- 4,744	1,028,989
Pipeline fuel	-	-	-	-	26,174	-	-	26,174	-	26,174
Field and plant use	-	-	-	172	11,443	- 251	-	11,364	-	11,364
Losses and adjustments	-	-	- 32,903	183,643	- 277,639	41,041	521	- 85,337	- 2,004	- 87,341
Total disposition	254	101,977	408,626	7,116,175	16,471,205	990,458	48,605	25,137,300	13,701,949	38,839,249

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	7,280	894,621	5,468,491
2	Less field flared and waste	-	-	1,913,449
3	Net new production (1 - 2)	7,280	894,621	3,555,042
	<u>Disposition</u>			
4	Field disposition and uses	163	-	156,846
5	Gathering system disposition and uses	-	-	33,249
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	185,692
6b	Other disposition and uses	-	-	99,232
7	Field injection and storage:			
7a	Injected and stored	-	-	77,976
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	77,976
8	Other uses	-	-	192,873
9	Adjustment	-	-	- 62
10	Deliveries of marketable gas	7,117	894,621	2,809,236
11	Total disposition	7,280	894,621	3,555,042
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants	-	-	2,010,774
12b	Fields	7,117	894,621	798,462
13	Total (12a + 12b)	7,117	894,621	2,809,236
14	Receipts from distributor storage	-	773,667	1,688
15	Other receipts(1)	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	7,117	1,668,288	2,810,924
	<u>Disposition</u>			
	Sales:			
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	1,604,697
20	Manitoba	-	-	472,592
21	Ontario	-	1,457,510	-
22	Quebec	-	-	-
23	New Brunswick	4,620	-	-
24	Total sales (17 to 23 inclusive)	4,620	1,457,510	2,077,289
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	243,686
28	Pipeline line pack fluctuation	-	-	- 15,858
29	Pipeline fuel	-	29,985	50,760
30	Pipeline losses etc.	2,497	180,793	455,047
31	Total disposition of marketable gas (24 to 30 inclusive)	7,117	1,668,288	2,810,924

(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, October 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
96,115,515	12,454,707	47,723	114,988,337	-	114,988,337	1
4,057,078	432,696	45,327	6,448,550	-	6,448,550	2
92,058,437	12,022,011	2,396	108,539,787	-	108,539,787	3
907,563	- 47,736	-	1,016,836	-	1,016,836	4
- 368,922	-	-	- 335,673	-	- 335,673	5
8,938,442	584,350	-	9,708,484	-	9,708,484	6a
4,075,395	786,979	-	4,961,606	-	4,961,606	6b
16,544,790	202,731	-	16,825,497	-	16,825,497	7a
111,477	-	-	111,477	-	111,477	7b
16,433,313	202,731	-	16,714,020	-	16,714,020	7c
64,806	-	2,396	260,075	-	260,075	8
- 5,931,778	195,161	-	- 5,736,679	-	- 5,736,679	9
67,939,618	10,300,526	-	81,951,118	-	81,951,118	10
92,058,437	12,022,011	2,396	108,539,787	-	108,539,787	11
56,810,100	9,904,344	-	67,925,218	-	67,925,218	12a
11,929,518	396,182	-	14,025,900	-	14,025,900	12b
67,939,618	10,300,526	-	81,951,118	-	81,951,118	13
79,755	-	-	855,110	-	855,110	14
2,490	-	-	2,490	-	2,490	15
68,021,863	10,300,526	-	82,808,718	157,258	82,965,976	16
833,056	2,688,162	-	3,521,218	-	3,521,218	17
12,040,159	-	-	12,040,159	5,794	12,045,953	18
1,936,361	-	-	3,541,058	-	3,541,058	19
1,465,814	-	-	1,938,406	-	1,938,406	20
12,884,514	-	-	14,342,024	151,464	14,493,488	21
2,894,703	-	-	2,894,703	-	2,894,703	22
-	-	-	4,620	-	4,620	23
32,054,607	2,688,162	-	38,282,188	157,258	38,439,446	24
27,362,331	7,078,980	-	34,441,311	-	34,441,311	25
187,566	-	-	187,566	-	187,566	26
1,647,229	-	-	1,890,915	-	1,890,915	27
241,025	177,842	-	403,009	-	403,009	28
2,127,552	174,407	-	2,382,704	-	2,382,704	29
4,401,553	181,135	-	5,221,025	-	5,221,025	30
68,021,863	10,300,526	-	82,808,718	157,258	82,965,976	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	6,662	775,425	3,479,449	84,005,492	10,444,660	1,838	98,713,526
October	7,280	894,621	3,555,042	92,058,437	12,022,011	2,396	108,539,787
November							
December							
Total year to date	87,807	10,957,689	33,586,043	904,813,846	106,536,964	24,587	1,056,006,936
Total October 1963	6,697	1,292,972	2,748,587	78,443,749	10,258,089	2,020	92,752,114

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	54,659	377,772	10,585	443,016	30,851	317,211	30,280	378,342
June	35,456	389,203	8,981	433,640	25,630	286,303	33,566	345,499
July	47,760	453,798	6,656	508,214	34,531	339,069	33,690	407,290
August	55,090	370,634	21,853	447,577	34,028	376,207	40,509	450,744
September	55,975	509,793	26,300	592,068	32,264	432,730	41,187	506,181
October	60,355	601,580	31,615	693,550	31,888	521,840	46,222	599,950
November								
December								
Total year to date	530,342	4,498,459	177,127	5,205,928	308,545	3,554,218	373,383	4,236,146
Total October 1963	53,374	270,135	36,095	359,604	29,538	226,166	56,448	312,152

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010519008