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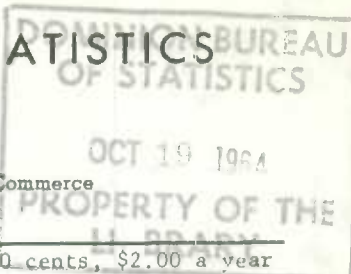
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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JUNE 1964

Crude oil and equivalent production increased 10.1 per cent to 24,681,824 barrels (822,727 barrels/day) in June 1964 from 22,414,752 barrels last year. Production of pentanes plus amounted to 1,926,651 barrels. The disposition of Canadian crude oil and equivalent was 66.4 per cent to Canadian refineries, 33.4 per cent was exported and other disposition accounted for 0.2 per cent.

Natural gas production increased 16.0 per cent to 91,501,724 Mcf. from 78,857,619 Mcf. in June 1963. Of the total production of 91.5 million Mcf., 21.6 million was net deliveries to storage and injection operations, 7.5 million was used, lost or unaccounted for in fields and processing plants, 29.1 million was exported, 13.4 million was sold to ultimate customers in the prairies, 12.4 million in Ontario, 2.8 million in Quebec and 2.2 million in British Columbia. The remaining 2.5 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

September 1964  
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	6,403,705	12,204,389	984,862	60,202	20,097,865
May .....	769	111,712	346,115	6,709,427	14,718,155	1,016,058	24,278	22,926,514
June .....	308	103,809	359,665	6,751,502	14,572,378	934,947	32,564	22,755,173
July .....								
August .....								
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 .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total June 1964 .....	308	103,809	359,665	6,772,780	16,423,254	989,444	32,564	24,681,824
Total year to date .....	2,618	643,709	2,035,739	39,918,735	99,739,835	6,289,124	261,768	148,891,528
Total June 1963 .....	475	94,014	312,151	5,376,601	15,419,981	1,162,214	49,316	22,414,752

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, June 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 .....	308	103,809	359,665	6,751,502	14,524,485	931,977	32,564	22,704,310	...	22,704,310
Condensate .....	-	-	-	-	47,893	2,970	-	50,863	...	50,863
Pentanes plus .....	-	-	-	21,278	1,850,876	54,497	-	1,926,651	...	1,926,651
Total crude oil and equivalent	308	103,809	359,665	6,772,780	16,423,254	989,444	32,564	24,681,824	...	24,681,824
Imports .....	...	...	...	...	...	...	...	...	11,374,715	11,374,715
Total new supply .....	308	103,809	359,665	6,772,780	16,423,254	989,444	32,564	24,681,824	11,374,715	36,056,539
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	308	-	-	-	-	-	-	308	3,867,967	3,868,275
Quebec .....	-	-	-	-	-	-	-	-	7,370,311	7,370,311
Ontario .....	-	103,809	268,645	3,264,614	4,765,256	-	-	8,402,324	80,593	8,482,917
Manitoba .....	-	-	131,191	855,961	193,918	-	-	1,181,070	-	1,181,070
Saskatchewan .....	-	-	-	456,654	1,593,854	-	-	2,050,508	-	2,050,508
Alberta .....	-	-	-	23,974	2,441,012	-	-	2,464,986	-	2,464,986
British Columbia .....	-	-	-	-	1,317,221	1,148,495	-	2,465,716	-	2,465,716
Northwest Territories .....	-	-	-	-	-	-	57,922	57,922	-	57,922
Totals .....	308	103,809	399,836	4,601,203	10,311,261	1,148,495	57,922	16,622,834	11,318,871	27,941,705
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	4,182,349	86,176	-	4,268,525	-	4,268,525
East of Rocky Mountains .....	-	-	-	-	269,795	-	-	269,795	-	269,795
Great Lakes Area .....	-	-	-	1,812,899	2,021,734	-	-	3,834,633	-	3,834,633
Totals .....	-	-	-	1,812,899	6,473,878	86,176	-	8,372,953	-	8,372,953
Deliveries to other purchasers ..	-	-	-	1,498	1,033	-	-	2,531	-	2,531
Inventories:										
Opening - Field and plant .....	-	-	86,907	387,772	1,287,676	61,812	100,575	1,924,742	-	1,924,742
Transporters' .....	-	-	14,405	4,679,817	14,409,598	1,168,703	-	20,272,523	188,499	20,461,022
Closing - Field and plant .....	-	-	92,269	377,053	1,138,848	49,104	75,217	1,732,491	-	1,732,491
Transporters' .....	-	-	13,798	4,974,435	14,255,760	859,535	-	20,103,528	243,989	20,347,517
Net change .....	-	-	4,755	283,899	- 302,666	- 321,876	- 25,358	- 361,246	55,490	- 305,756
Pipeline fuel .....	-	-	-	-	30,303	-	-	30,303	-	30,303
Field and plant use .....	-	-	-	2,573	12,814	765	-	16,152	-	16,152
Losses and adjustments .....	-	-	- 44,926	70,708	- 103,369	75,884	-	- 1,703	354	- 1,349
Total disposition .....	308	103,809	359,665	6,772,780	16,423,254	989,444	32,564	24,681,824	11,374,715	36,056,539

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production .....	6,437	764,647	4,689,929
2	Less field flared and waste .....	-	-	1,619,992
3	Net new production (1 - 2) .....	6,437	764,647	3,069,937
	<u>Disposition</u>			
4	Field disposition and uses .....	144	-	157,544
5	Gathering system disposition and uses .....	-	-	54,760
6	Processing plant disposition and uses:			
6a	Processing shrinkage .....	-	-	132,753
6b	Other disposition and uses .....	-	-	128,732
7	Field injection and storage:			
7a	Injected and stored .....	-	-	59,135
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	59,135
8	Other uses .....	-	-	638,849
9	Adjustment .....	-	-	- 12
10	Deliveries of marketable gas .....	6,293	764,647	1,898,176
11	Total disposition .....	6,437	764,647	3,069,937
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants .....	-	-	1,546,431
12b	Fields .....	6,293	764,647	351,745
13	Total (12a + 12b) .....	6,293	764,647	1,898,176
14	Receipts from distributor storage .....	-	106,541	6,582
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	6,293	871,188	1,904,758
	<u>Disposition</u>			
	Sales:			
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	-
19	Saskatchewan .....	-	-	1,819,969
20	Manitoba .....	-	-	272,984
21	Ontario .....	-	899,783	-
22	Quebec .....	-	-	-
23	New Brunswick .....	4,285	-	-
24	Total sales (17 to 23 inclusive) .....	4,285	899,783	2,092,953
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	366,627
28	Pipeline line pack fluctuation .....	-	-	- 21,188
29	Pipeline fuel .....	-	77,803	42,599
30	Pipeline losses etc. ....	2,008	- 106,398	- 576,233
31	Total disposition of marketable gas (24 to 30 inclusive) .....	6,293	871,188	1,904,758

(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, June 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
83,358,848	9,052,655	51,886	97,924,402	-	97,924,402	1
3,604,279	1,148,359	50,048	6,422,678	-	6,422,678	2
79,754,569	7,904,296	1,838	91,501,724	-	91,501,724	3
445,730	15,784	-	619,202	-	619,202	4
393,261	-	-	448,021	-	448,021	5
7,886,478	391,510	-	8,410,741	-	8,410,741	6a
3,645,294	327,650	-	4,101,676	-	4,101,676	6b
17,747,026	-	-	17,806,161	-	17,806,161	7a
170,182	-	-	170,182	-	170,182	7b
17,576,844	-	-	17,635,979	-	17,635,979	7c
61,548	-	1,838	702,235	-	702,235	8
- 4,902,325	48,231	-	- 4,854,106	-	- 4,854,106	9
54,647,739	7,121,121	-	64,437,976	-	64,437,976	10
79,754,569	7,904,296	1,838	91,501,724	-	91,501,724	11
47,718,646	6,923,338	-	55,688,415	-	55,688,415	12a
7,429,093	197,783	-	8,749,561	-	8,749,561	12b
54,647,739	7,121,121	-	64,437,976	-	64,437,976	13
12,585	-	-	125,708	-	125,708	14
2,506	-	-	2,506	-	2,506	15
54,662,830	7,121,121	-	64,566,190	826,445	65,392,635	16
579,667	1,628,142	-	2,207,809	-	2,207,809	17
9,293,915	-	-	9,293,915	2,726	9,296,641	18
1,032,209	-	-	2,852,178	-	2,852,178	19
957,272	-	-	1,230,256	-	1,230,256	20
11,467,048	-	-	12,366,831	823,719	13,190,550	21
2,764,883	-	-	2,764,883	-	2,764,883	22
-	-	-	4,285	-	4,285	23
26,094,994	1,628,142	-	30,720,157	826,445	31,546,602	24
23,712,272	5,372,703	-	29,084,975	-	29,084,975	25
530,446	-	-	530,446	-	530,446	26
3,731,174	-	-	4,097,801	-	4,097,801	27
35,835	- 56,887	-	- 42,240	-	- 42,240	28
1,885,620	79,085	-	2,085,107	-	2,085,107	29
- 1,327,511	98,078	-	- 1,910,056	-	- 1,910,056	30
54,662,830	7,121,121	-	64,566,190	826,445	65,392,635	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 .....							
August .....							
September .....							
October .....							
November .....							
December .....							
Total year to date .....	61,416	7,882,951	21,668,686	558,300,584	66,913,142	16,883	654,843,662
Total June 1963 .....	6,664	771,240	2,735,111	67,182,909	8,154,939	6,756	78,857,619

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 .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total year to date .....	315,946	2,562,654	90,703	2,969,303	181,975	1,884,372	211,775	2,278,122
Total June 1963 .....	45,434	264,402	30,384	340,220	24,900	165,861	36,893	227,654



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