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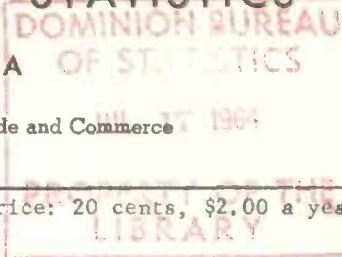
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## CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

FEBRUARY 1964

Crude oil and equivalent production increased to 25,088,520 barrels (865,121 barrels/day) in February 1964 from 22,902,155 barrels last year, up 9.5 per cent. Production of pentanes plus amounted to 1,990,632 barrels. The disposition of Canadian crude oil and equivalent was 65.3 per cent to Canadian refineries and 34.3 per cent was exported.

Natural gas production increased 21.1 per cent to 114,082,654 Mcf. from 94,243,196 Mcf. in February 1963. Of the total production of 114.1 million Mcf., 7.9 million was net deliveries to storage and injection operations, 18.3 million was used, lost or unaccounted for in fields and processing plants, 34.2 million was exported, 23.7 million was sold to ultimate customers in the prairies, 20.7 million in Ontario, 4.2 million in British Columbia and 2.6 million in Quebec. The remainder was other deliveries, line pack changes, etc.

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

July 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 .....								
April .....								
May .....								
June .....								
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 .....								
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total February 1964 .....	398	99,211	321,185	6,410,995	17,198,503	993,022	64,846	25,088,520
Total year to date .....	1,064	204,482	649,447	13,142,410	35,212,068	2,070,257	109,021	51,388,749
Total February 1963 .....	1,008	86,574	270,421	5,275,139	16,158,861	1,060,119	50,033	22,902,155

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada February 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 .....	398	99,211	321,185	6,388,363	15,251,076	910,099	64,846	23,035,178	...	23,035,178
Condensate .....	-	-	-	-	60,054	2,656	-	62,710	...	62,710
Pentanes plus .....	-	-	-	22,632	1,887,373	80,627	-	1,990,632	...	1,990,632
Total crude oil and equivalent	398	99,211	321,185	6,410,995	17,198,503	993,382	64,846	25,088,520	...	25,088,520
Imports .....	...	...	...	...	...	...	...	...	11,426,407	11,426,407
Total new supply .....	398	99,211	321,185	6,410,995	17,198,503	993,382	64,846	25,088,520	11,426,407	36,514,927
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces .....	398	-	-	-	-	-	-	398	3,368,389	3,368,787
Quebec .....	-	-	-	-	-	-	-	-	8,093,749	8,093,749
Ontario .....	-	99,211	237,420	3,758,189	4,551,003	-	-	8,645,823	-	8,645,823
Manitoba .....	-	-	81,770	691,934	393,923	-	-	1,167,627	-	1,167,627
Saskatchewan .....	-	-	-	370,628	1,366,282	-	-	1,736,910	-	1,736,910
Alberta .....	-	-	-	1,989	2,267,846	-	-	2,269,835	-	2,269,835
British Columbia .....	-	-	-	-	1,719,212	805,121	-	2,524,333	-	2,524,333
Northwest Territories .....	-	-	-	-	-	-	50,397	50,397	-	50,397
Totals .....	398	99,211	319,190	4,822,740	10,298,266	805,121	50,397	16,395,323	11,462,138	27,857,461
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains .....	-	-	-	-	4,244,135	108,778	-	4,352,913	...	4,352,913
East of Rocky Mountains .....	-	-	-	-	368,942	-	-	368,942	...	368,942
Great Lakes Area .....	-	-	-	1,504,540	2,368,008	-	-	3,872,548	...	3,872,548
Totals .....	-	-	-	1,504,540	6,981,085	108,778	-	8,594,403	...	8,594,403
Deliveries to other purchasers ..	-	-	-	451	8,654	-	-	9,105	...	9,105
Inventories:										
Opening - Field and plant .....	-	-	73,189	393,262	1,194,191	57,887	75,916	1,794,445	...	1,794,445
Transporters' .....	-	-	13,700	4,580,836	15,124,649	988,488	-	20,707,673	226,837	20,934,510
Closing - Field and plant .....	-	-	75,152	427,153	1,205,333	62,013	82,690	1,852,341	...	1,852,341
Transporters' .....	-	-	13,118	4,576,800	14,924,092	1,072,969	-	20,586,979	188,990	20,775,969
Net change .....	-	-	1,381	29,855	- 189,415	88,607	6,774	- 62,798	- 37,847	- 100,645
Pipeline fuel .....	-	-	-	159	42,092	-	-	42,251	-	42,251
Field and plant use .....	-	-	-	359	18,654	1,842	-	20,855	...	20,855
Losses and adjustments .....	-	-	614	52,891	39,167	- 10,966	7,675	89,381	2,116	91,497
Total disposition .....	398	99,211	321,185	6,410,995	17,198,503	993,382	64,846	25,088,520	11,426,407	36,514,927

... Figures not appropriate or not applicable.

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

No.		Mcf.		
		New Brunswick	Ontario	Saskatchewan
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production .....	12,317	1,886,872	5,559,718
2	Less field flared and waste .....	-	-	1,730,345
3	Net new production (1 - 2) .....	12,317	1,886,872	3,829,373
	<u>Disposition</u>			
4	Field disposition and uses .....	58	-	175,522
5	Gathering system disposition and uses .....	-	-	25,243
6	Processing plant disposition and uses:			
6a	Processing shrinkage .....	-	-	167,153
6b	Other disposition and uses .....	-	-	144,757
7	Field injection and storage:			
7a	Injected and stored .....	-	-	92,189
7b	Less reproduced .....	-	-	-
7c	Net field injection and storage (7a - 7b) .....	-	-	92,189
8	Other uses .....	-	-	169,218
9	Adjustment .....	-	-	-
10	Deliveries of marketable gas .....	12,259	1,886,872	3,055,291
11	Total disposition .....	12,317	1,886,872	3,829,373
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants .....	-	-	2,411,347
12b	Fields .....	12,259	1,886,872	643,944
13	Total (12a + 12b) .....	12,259	1,886,872	3,055,291
14	Receipts from distributor storage .....	-	4,539,092	110,269
15	Other receipts(1) .....	-	-	-
16	Total supply of marketable gas (13 + 14 + 15)	12,259	6,425,964	3,165,560
	<u>Disposition</u>			
	Sales:			
17	British Columbia .....	-	-	-
18	Alberta .....	-	-	-
19	Saskatchewan .....	-	-	2,514,103
20	Manitoba .....	-	-	462,114
21	Ontario .....	-	6,402,364	-
22	Quebec .....	-	-	-
23	New Brunswick .....	6,720	-	-
24	Total sales (17 to 23 inclusive) .....	6,720	6,402,364	2,976,217
25	Exports .....	-	-	-
26	Other deliveries(2) .....	-	-	-
27	Delivered to distributor storage .....	-	-	264,829
28	Pipeline line pack fluctuation .....	-	-	6
29	Pipeline fuel .....	-	37,180	50,479
30	Pipeline losses etc. ....	5,539	- 13,580	- 125,971
31	Total disposition of marketable gas (24 to 30 inclusive) .....	12,259	6,425,964	3,165,560

(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, February 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
100,164,711	12,869,326	80,439	120,573,383	-	120,573,383	1
3,633,587	1,050,819	75,978	6,490,729	-	6,490,729	2
96,531,124	11,818,507	4,461	114,082,654	-	114,082,654	3
856,815	142,230	-	1,174,625	-	1,174,625	4
411,134	-	-	436,377	-	436,377	5
8,067,408	526,893	-	8,761,454	-	8,761,454	6a
3,668,086	557,792	-	4,370,635	-	4,370,635	6b
12,472,438	-	-	12,564,627	-	12,564,627	7a
511,444	-	-	511,444	-	511,444	7b
11,960,994	-	-	12,053,183	-	12,053,183	7c
79,905	-	4,461	253,584	-	253,584	8
3,264,557	62,313	-	3,326,870	-	3,326,870	9
68,222,225	10,529,279	-	83,705,926	-	83,705,926	10
96,531,124	11,818,507	4,461	114,082,654	-	114,082,654	11
55,901,301	10,147,668	-	68,460,316	-	68,460,316	12a
12,320,924	381,611	-	15,245,610	-	15,245,610	12b
68,222,225	10,529,279	-	83,705,926	-	83,705,926	13
69,688	-	-	4,719,049	-	4,719,049	14
18,340	-	-	18,340	-	18,340	15
68,310,253	10,529,279	-	88,443,315	9,898	88,453,213	16
1,034,721	3,169,530	-	4,204,251	-	4,204,251	17
15,892,100	-	-	15,892,100	9,898	15,901,998	18
1,854,899	-	-	4,369,002	-	4,369,002	19
2,984,302	-	-	3,446,416	-	3,446,416	20
14,341,815	-	-	20,744,179	-	20,744,179	21
2,579,489	-	-	2,579,489	-	2,579,489	22
-	-	-	6,720	-	6,720	23
38,687,326	3,169,530	-	51,242,157	9,898	51,252,055	24
27,200,459	7,009,812	-	34,210,271	-	34,210,271	25
211,370	-	-	211,370	-	211,370	26
479,448	-	-	744,277	-	744,277	27
- 1,017	11,548	-	10,537	-	10,537	28
2,369,769	188,226	-	2,645,654	-	2,645,654	29
- 637,102	150,163	-	- 620,951	-	- 620,951	30
68,310,253	10,529,279	-	88,443,315	9,898	88,453,213	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 .....							
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							
Total year to date .....	25,978	3,040,153	8,011,853	201,151,804	24,986,606	8,143	237,224,537
Total February 1963 .....	12,053	2,923,348	3,891,407	77,249,513	10,160,438	6,437	94,243,196

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 .....								
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								
Total year to date .....	108,787	930,985	40,542	1,080,314	59,092	674,289	75,107	808,488
Total February 1963 .....	49,014	387,073	23,285	459,372	25,542	206,774	35,303	267,619



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