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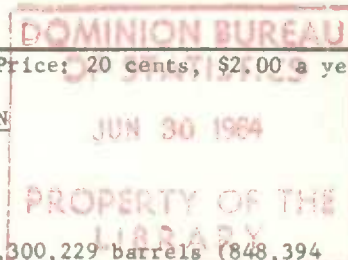
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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JANUARY 1964



Crude oil and equivalent production increased 7.1 per cent to 26,300,229 barrels (848,394 barrels/day) in January 1964 from 24,567,587 barrels in January 1963. Production of pentanes plus amounted to 2,124,448 barrels. The disposition of Canadian crude oil and equivalent was 66.3 per cent to Canadian refineries and 32.7 per cent was exported.

Natural gas production amounted to 123,141,883 Mcf. including an estimated carry-over of 4,000,000 Mcf. unreported December production. This was an increase of 14.6 per cent from 107,482,839 Mcf. in January 1963. Of the total production of 123.1 million Mcf., 7.5 million was net deliveries to storage operations, 19.8 million was used, lost or unaccounted for in fields and processing plants, 36.3 million was exported, 27.9 million was sold to ultimate customers in the prairies, 22.9 million in Ontario, 4.7 million in British Columbia and 2.8 million in Quebec. The remainder was small deliveries, line pack changes etc.

This report is the first of a revised series which has several conceptual revisions or additions. Table 1 includes all crude oil and equivalent hydrocarbon production of condensates, natural gasoline and pentanes plus. Pentanes plus represent the production of crude oil equivalents 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 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 the refiners in field and pipeline are included in Table 2, while inventories held by the refiners in a refinery complex are excluded. Additional details on the movements of crude oil by pipeline are given in another companion report "Oil Pipeline Transport", Catalogue 55-001.

All volumes of crude oil are given in barrels of 35 Canadian Standard ("Imperial") gallons at 60°F. Additional details of production are published by the individual provinces.

Table 3 Supply and Disposition of Natural Gas is a new series introduced for the first time. 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 are not considered as net new production; however processing plant flared and waste 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 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 45-005 provides details on the sales and revenues by rate categories.

All volumes of gas are given in cubic feet measured at 14.73 p.s.i.a. and 60°F.

Industry Division

June 1964
6511-515

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

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
<u>Crude oil and condensate</u>	barrels of 35 "Imperial" gallons							
January	666	105,271	328,262	6,708,040	15,996,584	992,783	44,175	24,175,781
February								
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								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total January 1964	666	105,271	328,262	6,731,415	18,013,565	1,076,875	44,175	26,300,229
Total year to date	666	105,271	328,262	6,731,415	18,013,565	1,076,875	44,175	26,300,229
Total January 1963	835	93,608	292,664	5,693,640	17,283,471	1,158,603	44,766	24,567,587

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada January 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	666	105,271	328,262	6,708,040	15,883,499	989,602	44,175	24,059,515	...	24,059,515
Condensate	-	-	-	-	113,085	3,181	-	116,266	...	116,266
Pentanes plus	-	-	-	23,375	2,016,981	84,092	-	2,124,448	...	2,124,448
Total crude oil and equivalent	666	105,271	328,262	6,731,415	18,013,565	1,076,875	44,175	26,300,229	...	26,300,229
Imports .....	...	...	...	...	...	...	...	...	11,960,558	11,960,558
Total new supply	666	105,271	328,262	6,731,415	18,013,565	1,076,875	44,175	26,300,229	11,960,558	38,260,787
<u>Disposition</u>										
Deliveries to refineries:										
Atlantic Provinces	1,202	-	-	-	-	-	-	1,202	3,400,642	3,401,844
Quebec	-	-	-	-	-	-	-	-	8,609,807	8,609,807
Ontario	-	105,271	240,306	3,530,390	5,101,982	-	-	8,977,949	-	8,977,949
Manitoba	-	-	82,135	963,989	197,652	-	-	1,243,776	-	1,243,776
Saskatchewan	-	-	-	454,635	1,418,651	-	-	1,873,286	-	1,873,286
Alberta	-	-	-	6,719	2,592,840	-	-	2,599,559	-	2,599,559
British Columbia	-	-	-	-	1,529,633	1,165,179	-	2,694,812	-	2,694,812
Northwest Territories	-	-	-	-	-	-	36,500	36,500	-	36,500
Totals	1,202	105,271	322,441	4,955,733	10,840,758	1,165,179	36,500	17,427,084	12,010,449	29,437,533
Exports to U.S.A.:										
Northwest Area:										
West of Rocky Mountains	-	-	-	-	4,136,735	57,466	-	4,194,201	...	4,194,201
East of Rocky Mountains	-	-	-	-	476,228	-	-	476,228	...	476,228
Great Lakes Area	-	-	-	1,718,834	2,212,452	-	-	3,931,286	...	3,931,286
Totals	-	-	-	1,718,834	6,825,415	57,466	-	8,601,715	...	8,601,715
Deliveries to other purchasers ..	-	-	-	301	11,684	-	-	11,985	...	11,985
Inventories:										
Opening - Field and plant	-	-	71,710	397,717	1,260,348	62,585	68,241	1,860,601	...	1,860,601
Transporters'	-	-	12,400	4,629,543	14,890,535	1,129,607	-	20,662,085	273,014	20,935,099
Closing - 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
Net change	-	-	2,779	- 53,162	167,957	- 145,817	7,675	- 20,568	- 46,177	- 66,745
Pipeline fuel	-	-	-	-	31,607	-	-	31,607	-	31,607
Field and plant use	-	-	-	359	16,716	1,043	-	18,118	...	18,118
Losses and adjustments	- 536	-	3,042	109,350	119,428	- 996	-	230,288	- 3,714	226,574
Total disposition	666	105,271	328,262	6,731,415	18,013,565	1,076,875	44,175	26,300,229	11,960,558	38,260,787

... Figures not appropriate or not applicable.

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

No.		New Brunswick	Ontario	Saskatchewan
		Mcf.		
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	13,661	1,153,281	6,043,877
2	Less field flared and waste	-	-	1,861,397
3	Net new production (1 - 2)	13,661	1,153,281	4,182,480
	<u>Disposition</u>			
4	Field disposition and uses	154	-	156,482
5	Gathering system disposition and uses	-	-	38,752
6	Processing plant disposition and uses:			
6a	Processing shrinkage	-	-	175,409
6b	Other disposition and uses	-	-	203,351
7	Field injection and storage:			
7a	Injected and stored	-	-	101,821
7b	Less reproduced	-	-	-
7c	Net field injection and storage (7a - 7b)	-	-	101,821
8	Other uses	-	-	223,537
9	Adjustment	-	-	-
10	Deliveries of marketable gas	13,507	1,153,281	3,283,128
11	Total disposition	13,661	1,153,281	4,182,480
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
12	Receipts of marketable gas:			
12a	Plants	-	-	2,511,677
12b	Fields	13,507	1,153,281	771,451
13	Total (12a + 12b)	13,507	1,153,281	3,283,128
14	Receipts from distributor storage	-	5,764,984	132,301
15	Other receipts(1)	-	770	-
16	Total supply of marketable gas (13 + 14 + 15)	13,507	6,919,035	3,415,429
	<u>Disposition</u>			
	Sales:			
17	British Columbia	-	-	-
18	Alberta	-	-	-
19	Saskatchewan	-	-	2,951,269
20	Manitoba	-	-	472,773
21	Ontario	-	6,838,034	-
22	Quebec	-	-	-
23	New Brunswick	7,750	-	-
24	Total sales (17 to 23 inclusive)	7,750	6,838,034	3,424,042
25	Exports	-	-	-
26	Other deliveries(2)	-	-	-
27	Delivered to distributor storage	-	-	115,102
28	Pipeline line pack fluctuation	-	-	- 19,056
29	Pipeline fuel	-	35,278	54,671
30	Pipeline losses etc.	5,757	45,723	- 159,330
31	Total disposition of marketable gas (24 to 30 inclusive)	13,507	6,919,035	3,415,429

(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, January 1964

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
108,813,597	14,307,815	67,057	130,399,288	-	130,399,288	1
4,192,917	1,139,716	63,375	7,257,405	-	7,257,405	2
104,620,680	13,168,099	3,682	123,141,883	-	123,141,883	3
496,916	281,041	-	934,593	-	934,593	4
397,588	-	-	436,340	-	436,340	5
8,764,474	555,889	-	9,495,772	-	9,495,772	6a
4,189,685	789,455	-	5,182,491	-	5,182,491	6b
13,407,291	-	-	13,509,112	-	13,509,112	7a
560,706	-	-	560,706	-	560,706	7b
12,846,585	-	-	12,948,406	-	12,948,406	7c
88,430	-	3,682	315,649	-	315,649	8
3,296,040	134,637	-	3,430,677	-	3,430,677	9
74,540,962	11,407,077	-	90,397,955	-	90,397,955	10
104,620,680	13,168,099	3,682	123,141,883	-	123,141,883	11
60,171,355	11,014,261	-	73,697,293	-	73,697,293	12a
14,369,607	392,816	-	16,700,662	-	16,700,662	12b
74,540,962	11,407,077	-	90,397,955	-	90,397,955	13
178,048	-	-	6,075,333	-	6,075,333	14
64,766	-	-	65,536	-	65,536	15
74,783,776	11,407,077	-	96,538,824	12,330	96,551,154	16
1,078,105	3,571,947	-	4,650,052	-	4,650,052	17
18,785,522	-	-	18,785,522	12,330	18,797,852	18
2,375,572	-	-	5,326,841	-	5,326,841	19
3,364,321	-	-	3,837,094	-	3,837,094	20
16,052,651	-	-	22,890,685	-	22,890,685	21
2,770,552	-	-	2,770,552	-	2,770,552	22
-	-	-	7,750	-	7,750	23
44,426,723	3,571,947	-	58,268,496	12,330	58,280,826	24
28,834,295	7,507,679	-	36,341,974	-	36,341,974	25
241,750	-	-	241,750	-	241,750	26
483,973	-	-	599,075	-	599,075	27
30,122	- 46,894	-	- 35,828	-	- 35,828	28
2,366,763	214,958	-	2,671,670	-	2,671,670	29
- 1,599,850	159,387	-	- 1,548,313	-	- 1,548,313	30
74,783,776	11,407,077	-	96,538,824	12,330	96,551,154	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							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	13,661	1,153,281	4,182,480	104,620,680	13,168,099	3,682	123,141,883
Total January 1963	10,603	2,063,470	4,742,835	88,409,638	12,250,253	6,040	107,482,839

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								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total year to date	56,111	496,469	21,766	574,346	29,680	351,803	37,511	418,994
Total January 1963	51,962	304,358	25,201	381,521	28,796	235,123	39,149	303,068

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