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CRUDE PETROLEUM AND NATURAL GAS PRODUCTION

JANUARY 1968

The production of crude petroleum and equivalent hydrocarbons during January 1968 amounted to 33,313,528 barrels (1,074,630 barrels per day), an increase of 3.9 per cent or 40,444 barrels per day from January 1967. The production figures for all petroleum liquids for the two years are as follows:

	January 1967		January 1968	
	millions of barrels	barrels per day	millions of barrels	barrels per day
Crude petroleum and condensates	29.4	947,887	30.5	985,410
Pentanes plus	2.7	86,299	2.8	89,220
Propanes and butanes	2.2	70,000	2.4	75,897
Totals	34.3	1,104,186	35.7	1,150,527

The disposition of crude and equivalent for January 1968 was 19.8 million barrels (59.4 per cent) to Canadian refineries and 13.7 million barrels (41.0 per cent) was exported. The excess of 0.4 per cent between supply and sales is accounted for by deliveries of oil held in inventory. Imported Crude petroleum for the same period amounted to 15.2 million barrels (490,147 barrels/day) bringing domestic requirements for crude petroleum and equivalent hydrocarbons to 35.0 million barrels (1,128,610 barrels/day).

Natural gas production increased 10.4 per cent to 176,290,144 Mcf. from 159,642,541 Mcf. in January 1967. The disposition of Natural gas for January is as follows: 3.7 million was net deliveries to storage and injection operations, 26.2 million was used, lost or unaccounted for in fields and processing plants and 52.1 million was exported; 41.8 million was sold to ultimate customers in the prairies, 30.9 million in Ontario, 8.3 million in British Columbia and 4.2 million in Quebec. The remaining 9.4 million Mcf. was accounted for by other deliveries, pipeline fuel, losses and line pack fluctuations.

Table 1 includes all crude oil and equivalent hydrocarbon production of condensates and pentanes plus, propane and butane production. 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. 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. 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 gallons at 60°F. 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 end use.

Marketable gas is taken to include all natural gas purchased directly from fields or processing plants which meet the specifications required for domestic, commercial or industrial field use.

A companion publication "Gas Utilities", Catalogue number 55-002 provides additional details on the movement and sales of natural gas.

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

Manufacturing and Primary Industries Division

December 1968
6503-515

TABLE 1. Field and Plant Production of Liquid Hydrocarbons by Month, by Province, January 1968

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
	barrels of 35 Canadian gallons							
<u>Crude oil and condensate</u>								
January	668	101,554	489,030	7,686,615	20,435,025	1,755,611	79,213	30,547,716
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Pentanes plus</u>								
January	-	-	-	22,162	2,653,132	90,518	-	2,765,812
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Propane</u>								
January	-	-	-	76,117	1,302,087	35,307	-	1,413,511
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
<u>Butanes</u>								
January	-	-	-	31,042	861,803	46,454	-	939,299
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total January 1968	668	101,554	489,030	7,815,936	25,252,047	1,927,890	79,213	35,666,338
Total year to date	668	101,554	489,030	7,815,936	25,252,047	1,927,890	79,213	35,666,338
Total January 1967	899	107,400	458,298	8,084,009	23,838,426	1,681,831	58,896	34,229,759

TABLE 2. Supply and Disposition of Crude Oil and Equivalent, by Source, Canada, January 1968

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources
	barrels of 35 Canadian gallons									
<u>Supply</u>										
<u>Domestic production</u>										
Crude oil	668	101,554	489,030	7,686,615	21,356,201	1,752,272	87,997	31,474,337	...	31,474,337
Less returned to formation	-	-	-	-	986,562	-	8,784	995,346	...	995,346
Condensate	-	-	-	-	65,386	3,339	-	68,725	...	68,725
Pentanes plus	-	-	-	22,162	2,653,132	90,518	-	2,765,812	...	2,765,812
Net withdrawals	668	101,554	489,030	7,708,777	23,088,157	1,846,129	79,213	33,313,528	...	33,313,528
Imports .....	...	...	...	...	...	...	...	...	15,194,574	15,194,574
Total supply	668	101,554	489,030	7,708,777	23,088,157	1,846,129	79,213	33,313,528	15,194,574	48,508,102
<u>Disposition</u>										
<u>Deliveries to refineries</u>										
Atlantic Provinces	-	-	-	-	-	-	-	-	3,179,273	3,179,273
Quebec	-	-	-	-	-	-	-	-	12,010,230	12,010,230
Ontario	-	98,386	212,811	4,393,112	5,251,708	-	-	9,956,017	-	9,956,017
Manitoba	-	-	15,580	746,793	629,881	-	-	1,392,254	-	1,392,254
Saskatchewan	-	-	-	326,023	1,658,845	-	-	1,984,868	-	1,984,868
Alberta	-	-	-	82,033	2,814,326	-	-	2,896,359	-	2,896,359
British Columbia	-	-	-	-	1,754,380	1,748,823	-	3,503,203	-	3,503,203
Northwest Territories	-	-	-	-	-	-	64,734	64,734	-	64,734
Totals	-	98,386	228,391	5,547,961	12,109,140	1,748,823	64,734	19,797,435	15,189,503	34,986,938
<u>Exports to U.S.A.:</u>										
Petroleum Administration:										
District I	-	-	-	59,378	1,632,779	-	-	1,692,157	-	1,692,157
II and III	-	-	293,166	2,344,540	4,099,834	-	-	6,737,540	-	6,737,540
IV	-	-	-	-	574,613	-	-	574,613	-	574,613
V	-	-	-	-	4,506,012	147,247	-	4,653,259	-	4,653,259
Totals	-	-	293,166	2,403,918	10,813,238	147,247	-	13,657,569	-	13,657,569
<u>Inventories</u>										
Opening - Field and plant	8,398 [†]	-	76,236	437,106 [†]	1,702,610	22,888	70,304	2,317,542	-	2,317,542
Transporters'	-	-	46,481	5,049,851	20,619,430	1,492,251	-	27,208,013	359,835	27,567,848
Closing - Field and plant	8,698	-	73,416	422,931	1,551,603	- 2,568	86,783	2,140,863	-	2,140,863
Transporters'	-	-	16,209	4,792,210	20,614,115	1,496,184	-	26,918,718	359,835	27,278,553
Net change	300	-	- 33,092	- 271,816	- 156,322	- 21,523	16,479	- 465,974	-	- 465,974
Deliveries to other purchasers	466	-	-	2,697	10,347	1,175	-	14,685	-	14,685
Pipeline fuel	-	-	-	-	15,232	-	-	15,232	-	15,232
Field and plant use	-	-	-	4,728	17,347	-	-	22,075	-	22,075
Losses and adjustments	- 98	3,168	565	21,289	279,175	- 29,593	- 2,000	272,506	5,071	277,577
Total disposition	668	101,554	489,030	7,708,777	23,088,157	1,846,129	79,213	33,313,528	15,194,574	48,508,102

... Figures not appropriate or not applicable.

† Revised figures.

TABLE 3. Supply and Disposition of Natural Gas by Source, Canada, January 1968

No.		New Brunswick and Quebec	Ontario	Saskatchewan
			Mcf.	
	<u>A. FIELD AND PROCESSING PLANTS</u>			
	<u>Supply</u>			
1	Gross new production	24,339	1,024,625	6,679,081
2	Less field flared and waste	-	-	964,022
3	Net new production (1 - 2)	24,339	1,024,625	5,715,059
4	Reproduced	-	-	-
5	Less injected and stored	-	-	7,370
6	Net withdrawals	24,339	1,024,625	5,707,689
	<u>Disposition</u>			
7	Field disposition and uses	178	-	333,857
8	Gathering system disposition and uses	-	-	95,980
9	Processing plant disposition and uses:			
9a	Processing shrinkage	-	-	197,082
9b	Other disposition and uses	-	-	141,889
10	Other uses	-	-	144,154
11	Adjustment	-	-	- 986
12	Deliveries of marketable gas	24,161	1,024,625	4,795,713
13	Total disposition	24,339	1,024,625	5,707,689
	<u>B. GAS UTILITIES</u>			
	<u>Supply</u>			
14	<u>Receipts of marketable gas</u>			
14a	Plants	-	-	2,039,263
14b	Fields	24,161	1,024,625	2,756,450
15	Total (14a + 14b)	24,161	1,024,625	4,795,713
16	Receipts from distributor storage	-	13,412,545	1,103,438
17	Other receipts(1)	-	4,000	-
18	Total supply of marketable gas (15 + 16 + 17)	24,161	14,441,170	5,899,151
	<u>Disposition</u>			
	<u>Sales</u>			
19	British Columbia	-	-	-
20	Alberta	-	-	-
21	Saskatchewan	-	-	5,697,747
22	Manitoba	-	-	-
23	Ontario	-	14,320,755	-
24	Quebec	11,570	-	-
25	New Brunswick	8,171	-	-
26	Total sales (19 to 25 inclusive)	19,741	14,320,755	5,697,747
27	Exports	-	-	-
28	Other deliveries(2)	-	-	-
29	Delivered to distributor storage	-	-	156,262
30	Pipeline line pack fluctuation	-	-	- 8,467
31	Pipeline fuel	-	38,436	213,496
32	Pipeline losses etc.	4,420	81,979	- 159,887
33	Total disposition of marketable gas (26 to 32 inclusive)	24,161	14,441,170	5,899,151

(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 1968

Alberta	British Columbia	Northwest Territories	Total Canadian sources	Total Foreign sources	Total all sources	No.
Mcf.						
151,679,211	23,966,569	62,222	183,436,047	...	183,436,047	1
5,206,606	917,239	58,036	7,145,903	...	7,145,903	2
146,472,605	23,049,330	4,186	176,290,144	...	176,290,144	3
-	-	-	-	...	-	4
17,874,021	664,119	-	18,545,510	...	18,545,510	5
128,598,584	22,385,211	4,186	157,744,634	...	157,744,634	6
1,231,661	587,532	-	2,153,228	...	2,153,228	7
656,149	-	-	752,129	...	752,129	8
13,552,087	547,095	-	14,296,264	...	14,296,264	9a
8,039,823	2,162,343	-	10,344,055	...	10,344,055	9b
178,782	-	4,186	327,122	...	327,122	10
- 1,615,581	- 58,319	-	- 1,674,886	...	- 1,674,886	11
106,555,663	19,146,560	-	131,546,722	...	131,546,722	12
128,598,584	22,385,211	4,186	157,744,634	...	157,744,634	13
86,438,882	18,660,448	-	107,138,693	...	107,138,693	14a
20,116,681	486,112	-	24,408,029	...	24,408,029	14b
106,555,663	19,146,560	-	131,546,722	...	131,546,722	15
510,949	-	-	15,026,932	...	15,026,932	16
58,392	14,296	-	76,688	...	76,688	17
107,125,004	19,160,856	-	146,650,342	6,173,198	152,823,540	18
1,412,711	6,895,763	-	8,308,474	-	8,308,474	19
25,382,738	-	-	25,382,738	17,498	25,400,236	20
4,069,885	-	-	9,767,632	-	9,767,632	21
6,653,123	-	-	6,653,123	-	6,653,123	22
16,600,544	-	-	30,921,299	6,155,820	37,077,119	23
4,151,633	-	-	4,163,203	-	4,163,203	24
-	-	-	8,171	-	8,171	25
58,270,634	6,895,763	-	85,204,640	6,173,318	91,377,958	26
41,300,276	10,792,636	-	52,092,912	-	52,092,912	27
123,294	-	-	123,294	-	123,294	28
20,667	-	-	176,929	-	176,929	29
270,338	285,669	-	547,540	-	547,540	30
5,153,772	980,362	-	6,386,066	-	6,386,066	31
1,986,023	206,426	-	2,118,961	- 120	2,118,841	32
107,125,004	19,160,856	-	146,650,342	6,173,198	152,823,540	33

TABLE 4. Net new Production of Natural Gas by Month, by Province, January 1968

Month	New Brunswick and Quebec	Ontario	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
	Mcf. at 14.73 p.s.i.a. and 60°F						
January	24,339	1,024,625	5,715,059	146,472,605	23,049,330	4,186	176,290,144
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total year to date	24,339	1,024,625	5,715,059	146,472,605	23,049,330	4,186	176,290,144
Total, January 1967	10,354	1,771,385	5,299,193	130,498,861	22,059,371	3,377	159,642,541

TABLE 5. Gas Processing Plant Production of Sulphur by Month, by Province, January 1968

Month	Saskatchewan	Alberta	British Columbia	Canada
	short tons.			
January	372	229,776	3,768	233,916
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total year to date	372	229,776	3,768	233,916
Total, January 1967	400	176,160	5,443	182,003

TABLE 6. Supply of Gas Processing Plant Propane, Butanes and Sulphur, January 1968

	Propane	Butanes	Sulphur
	barrels	barrels	short tons
<u>Production</u>			
Saskatchewan	76,117	31,042	372
Alberta	1,302,087	861,803	229,776
British Columbia	35,307	46,454	3,768
Canada	1,413,511	939,299	233,916
<u>Returned to Formation</u>			
Saskatchewan .....	...	...	...
Alberta	-	-	...
British Columbia .....	...	...	...
Canada	-	-	...
<u>Net Withdrawals</u>			
Saskatchewan	76,117	31,042	...
Alberta	1,302,087	861,803	...
British Columbia	35,307	46,454	...
Canada	1,413,511	939,299	...

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