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OIL PIPELINE TRANSPORT

NOVEMBER 1964

Total net receipts of crude oil, liquefied petroleum gases and petroleum products through Canadian oil pipelines during November amounted to 39,311,702 barrels, a 10.0 per cent increase over the 35,737,548 barrels received one year earlier. Included in the month's receipts were 24,914,530 barrels of crude oil and equivalent (up 9.2 per cent), 7,964,355 barrels of imported crude (down 0.2 per cent) and 5,570,317 barrels of L.P.G.'s and products from refineries and bulk plants (up 9.8 per cent).

Total net deliveries of petroleum and its products for the month increased 12.9 per cent to 39,683,135 barrels from 35,658,858 barrels in the previous year. The principal deliveries were 24,-743,730 barrels of crude oil and equivalent to refineries (up 6.0 per cent), 8,450,733 barrels of crude oil for export (up 20.6 per cent) and 5,575,699 barrels of L.P.G.'s and products to bulk plants and refineries (up 17.5 per cent).

During the eleven-month period, total net receipts of all commodities rose 6.4 per cent to 416,888,367 barrels from 391,832,943 barrels received in the same period last year. Receipts included 270,678,326 barrels of domestic crude oil and equivalent (up 8.9 per cent), 85,642,991 barrels of imported crude (up 0.3 per cent) and 54,880,386 barrels of L.P.G.'s and products from bulk plants and refineries (up 0.7 per cent).

Total net deliveries in the same period rose 7.3 per cent to 416,556,844 barrels from 388,-162,953 barrels delivered in the previous year. The principal deliveries were 263,741,513 barrels of crude oil and equivalent (up 5.9 per cent), 94,813,212 barrels of crude oil, L.P.G.'s and products for export (up 14.5 per cent) and 52,853,788 barrels of L.P.G.'s and products to bulk plants and terminals (up 3.1 per cent).

Trunk line deliveries averaged 1,303,957 barrels per day with total traffic amounting to 16,142 million barrel miles. The average length of haul was 412.7 miles.

Total oil held by Canadian pipeline systems amounted to 15,035,279 barrels at the end of the month. Inventories of crude oil and equivalent held in Canada decreased by 556,299 barrels while inventories of crude oil and equivalent held in Canada and the United States decreased by 367,013 barrels.

Industry Division

January 1965
6511-510

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

DOMINION BUREAU OF STATISTICS
JAN 29 1965
ENERGY STATISTICS
FILE 65-11

TABLE 1. Summary of Pipeline Movements of Crude Oil, Condensate and Natural Gasoline, by Province

	Total 1963	November 1964							
		Total	British Columbia	Alberta	Saskat-chewan	Manitoba(1)	Ontario	Quebec	Yukon
					barrels				
Receipts									
Net receipts:									
From fields	20,687,145	22,508,633	862,818	14,835,905	6,448,202	361,708	-	-	-
From other carriers	521,008	914,320	1,602	631,215	220,650	60,853	-	-	-
From processing plants	1,252,999	1,491,577	53,288	1,438,289	-	-	-	-	-
L.P.G. receipts into crude stream	-	-	-	-	-	-	-	-	-
Imports	7,983,749	7,964,355	-	-	-	-	-	7,964,355	-
From other	-	-	-	-	-	-	-	-	-
Total net receipts	30,444,901	32,878,885	917,708	16,905,409	6,668,852	422,561	-	7,964,355	-
Transfers:									
From other provinces	33,157,769	36,026,305	5,836,898	-	7,840,189	13,009,485	9,339,733	-	-
From other pipelines	13,872,301	15,728,533	767,985	12,831,783	2,128,765	-	-	-	-
From interprovincial systems	5,989,642	6,352,163	-	258,305	564,749	5,529,109	-	-	-
Total gross receipts	83,464,613	90,985,886	7,522,591	29,995,497	17,202,555	18,961,155	9,339,733	7,964,355	-
Disposition									
Net deliveries:									
To refineries	23,332,693	24,743,730	2,596,472	2,724,926	1,662,269	1,046,793	8,768,981	7,944,289	-
To other carriers	38,996	61,005	240	40,915	19,850	-	-	-	-
To bulk plants and terminals	-	-	-	-	-	-	-	-	-
To processing plants	-	-	-	-	-	-	-	-	-
For export	7,007,197	8,450,733	4,128,107	404,264	-	3,171,432	746,930	-	-
To other	77	42	-	42	-	-	-	-	-
Total net deliveries	30,378,963	33,255,510	6,724,819	3,170,147	1,682,119	4,218,225	9,515,911	7,944,289	-
Transfers:									
To other provinces	33,157,769	36,026,305	-	13,677,087	13,009,485	9,339,733	-	-	-
To other pipelines	3,570,731	3,912,778	106,478	2,188,929	579,753	1,037,618	-	-	-
To interprovincial systems	16,291,212	18,167,918	661,507	10,901,159	2,113,761	4,491,491	-	-	-
Total gross deliveries	83,398,675	91,362,511	7,492,804	29,937,322	17,385,118	19,087,067	9,515,911	7,944,289	-
Pipeline fuel and use	21,769	29,142	-	29,115	-	27	-	-	-
Line losses and unaccounted for	111,934	- 38,754	72,443	- 45,320	- 75,209	6,799	-	2,533	-
Inventory changes	- 105,087	- 367,013	- 42,656	74,380	- 107,354	- 132,738	- 176,178	17,533	-
Other changes	-	-	-	-	-	-	-	-	-
Deliveries to other carriers, U.S.A.(2)	37,322	-	-	-	-	-	-	-	-
Total disposition	83,464,613	90,985,886	7,522,591	29,995,497	17,202,555	18,961,155	9,339,733	7,964,355	-

(1) Includes movements in the United States and inventory changes in Saskatchewan, Manitoba and U.S.A.
(2) Delivered for re-entry into Canada.

TABLE 2. Receipts and Disposition of Crude Oil, Condensate and Natural Gasoline, by Province - Gathering Lines

	Total 1963	November 1964				
		Total	British Columbia	Alberta	Saskatchewan	Manitoba
	barrels					
Receipts						
Net receipts:						
From fields	20,687,145	22,508,633	862,818	14,835,905	6,448,202	361,708
From other carriers	159,806	485,099	1,602	394,716	27,928	60,853
Total net receipts	20,846,951	22,993,732	864,420	15,230,621	6,476,130	422,561
Transfers:						
From other pipelines	263,622	178,463	106,478	71,985	-	-
Total gross receipts	21,110,573	23,172,195	970,898	15,302,606	6,476,130	422,561
Disposition						
Net deliveries:						
To interprovincial systems	7,270,756	7,820,860	-	3,084,610	4,313,086	423,164
To other pipelines	13,272,697	14,663,848	723,791	11,798,692	2,141,365	-
To other carriers	38,996	61,005	240	40,915	19,850	-
To refineries	190,607	503,376	178,017	325,359	-	-
To other	35	42	-	42	-	-
To bulk plants and terminals	-	-	-	-	-	-
Total net deliveries	20,773,091	23,049,131	902,048	15,249,618	6,474,301	423,164
Transfers:						
To other pipelines	262,709	178,228	106,478	71,750	-	-
Total gross deliveries	21,035,800	23,227,359	1,008,526	15,321,368	6,474,301	423,164
Pipeline fuel and use	-	27	-	-	-	27
Line losses and unaccounted for	- 7,889	3,823	2,513	- 5,060	7,769	- 1,399
Inventory changes	82,662	- 59,014	- 40,141	- 13,702	- 5,940	769
Other changes	-	-	-	-	-	-
Total disposition	21,110,573	23,172,195	970,898	15,302,606	6,476,130	422,561

TABLE 3. Receipts and Disposition of Crude Oil, Condensate and Natural Gasoline, by Province - Trunk Lines

	Total 1963	November 1964							
		Total	British Columbia	Alberta	Saskat-chewan	Manitoba(1)	Ontario	Quebec	Yukon
					barrels				
Receipts									
Net receipts:									
From gathering lines	20,543,453	22,484,708	723,791	14,883,302	6,454,451	423,164	-	-	-
From other carriers	361,202	429,221	-	236,499	192,722	-	-	-	-
From processing plants	1,252,999	1,491,577	53,288	1,438,289	-	-	-	-	-
L.P.G. receipts into crude stream	-	-	-	-	-	-	-	-	-
Imports	7,983,749	7,964,355	-	-	-	-	-	7,964,355	-
From other	-	-	-	-	-	-	-	-	-
Total net receipts	30,141,403	32,369,861	777,079	16,558,090	6,647,173	423,164	-	7,964,355	-
Transfers:									
From other provinces	33,157,769	36,026,305	5,836,898	-	7,840,189	13,009,485	9,339,733	-	-
From other pipelines	13,608,679	15,550,070	661,507	12,759,798	2,128,765	-	-	-	-
From interprovincial systems	5,989,642	6,352,163	-	258,305	564,749	5,529,109	-	-	-
Total gross receipts	82,897,493	90,298,399	7,275,484	29,576,193	17,180,876	18,961,758	9,339,733	7,964,355	-
Disposition									
Net deliveries:									
To refineries	23,142,086	24,240,354	2,418,455	2,399,567	1,662,269	1,046,793	8,768,981	7,944,289	-
To other carriers	-	-	-	-	-	-	-	-	-
To bulk plants and terminals	-	-	-	-	-	-	-	-	-
To processing plants	-	-	-	-	-	-	-	-	-
For export	7,007,197	8,450,733	4,128,107	404,264	-	3,171,432	746,930	-	-
To other	42	-	-	-	-	-	-	-	-
Total net deliveries	30,149,325	32,691,087	6,546,562	2,803,831	1,662,269	4,218,225	9,515,911	7,944,289	-
Transfers:									
To other provinces	33,157,769	36,026,305	-	13,677,087	13,009,485	9,339,733	-	-	-
To other pipelines	3,308,022	3,734,550	-	2,117,179	579,753	1,037,618	-	-	-
To interprovincial systems	16,291,212	18,167,918	661,507	10,901,159	2,113,761	4,491,491	-	-	-
Total gross deliveries	82,906,328	90,619,860	7,208,069	29,499,256	17,365,268	19,087,067	9,515,911	7,944,289	-
Pipeline fuel and use	21,769	29,115	-	29,115	-	-	-	-	-
Line losses and unaccounted for	119,823	- 42,577	69,930	- 40,260	- 82,978	8,198	-	2,533	-
Inventory changes	- 187,749	- 307,999	- 2,515	88,082	- 101,414	- 133,507	- 176,178	17,533	-
Other changes	-	-	-	-	-	-	-	-	-
Deliveries to other carriers, U.S.A.(2)	37,322	-	-	-	-	-	-	-	-
Total disposition	82,897,493	90,298,399	7,275,484	29,576,193	17,180,176	18,961,758	9,339,733	7,964,355	-

(1) Includes movements in the United States and inventory changes in Saskatchewan, Manitoba and U.S.A.
(2) Delivered for re-entry into Canada.

TABLE 4. Pipeline Movements of Liquefied Petroleum Gases and Petroleum Products, by Province

	Total 1963	November 1964							
		Total	British Columbia	Alberta	Saskat-chewan	Manitoba(1)	Ontario	Quebec	Yukon
		barrels							
Receipts									
Net receipts:									
From processing plants	214,926	819,321	-	819,321	-	-	-	-	-
From refineries and bulk plants	5,074,338	5,570,317	82,831	140,136	82,200	-	4,215,059	1,050,091	-
Imports	3,383	43,179	43,179	-	-	-	-	-	-
Total net receipts	5,292,647	6,432,817	126,010	959,457	82,200	-	4,215,059	1,050,091	-
Transfers:									
From other provinces	1,676,934	1,977,463	222,625	-	153,203	235,403	1,323,053	-	43,179
From other pipelines	218,351	461,863	-	461,863	-	-	-	-	-
Total gross receipts	7,187,932	8,872,143	348,635	1,421,320	235,403	235,403	5,538,112	1,050,091	43,179
Disposition									
Net deliveries:									
To refineries	315,706	324,913	17,887	34,064	-	-	272,962	-	-
To other carriers	-	29,318	-	29,318	-	-	-	-	-
To bulk plants and terminals	4,746,656	5,575,699	82,831	276,821	-	-	5,182,575	-	33,472
For export	112,789	302,588	201,229	14,629	-	-	86,730	-	-
To other	104,744	195,107	-	195,107	-	-	-	-	-
Total net deliveries	5,279,895	6,427,625	301,947	549,939	-	-	5,542,267	-	33,472
Transfers:									
To other provinces	1,676,934	1,977,463	43,179	375,828	235,403	272,962	-	1,050,091	-
To other pipelines	218,351	86,035	-	86,035	-	-	-	-	-
To interprovincial systems	-	375,828	-	375,828	-	-	-	-	-
Total gross deliveries	7,175,180	8,866,951	345,126	1,387,630	235,403	272,962	5,542,267	1,050,091	33,472
Pipeline fuel and use	-	-	-	-	-	-	-	-	-
Line losses and unaccounted for	- 12,344	42,380	-	41,038	-	1,480	- 161	-	23
Inventory changes	25,096	- 37,188	3,509	- 7,348	-	- 39,039	- 3,994	-	9,684
Other changes	-	-	-	-	-	-	-	-	-
Deliveries to other carriers - U.S.A.	-	-	-	-	-	-	-	-	-
Total disposition	7,187,932	8,872,143	348,635	1,421,320	235,403	235,403	5,538,112	1,050,091	43,179

(1) Includes movements in the United States and inventory changes in Saskatchewan, Manitoba and U.S.A.

TABLE 5. Summary of Pipeline Movements, by Commodity Groups, by Month 1964

No.		Total year to date 1963	Total year to date 1964	January	February	March
	Receipts					
	Crude oil and equivalent:(1)					
	Net receipts:					
1	From fields	229,605,186	240,558,140	23,144,050	22,080,405	22,764,096
2	From other carriers	5,525,234	10,361,085	875,691	888,436	990,196
3	From processing plants	13,694,836	19,759,101	2,106,473	1,856,537	1,773,211
4	L.P.G. receipts into crude stream	-	-	-	-	-
5	Imports	85,370,009	85,642,991	8,559,916	8,054,678	8,416,151
6	From other	-	-	-	-	-
7	Total net receipts	334,195,265	356,321,317	34,686,130	32,880,056	33,943,654
8	Transfers	575,406,337	631,358,749	60,561,063	59,030,424	59,443,597
9	Total gross receipts	909,601,602	987,680,066	95,247,193	91,910,480	93,387,251
	L.P.G.'s and products:(2)					
10	From processing plants	1,486,759	5,190,569	375,180	338,710	317,103
11	From bulk plants and refineries	55,259,824	54,880,317	6,493,985	6,237,327	5,524,253
12	Imports	441,095	496,095	9,739	5,097	22,975
13	Total net receipts	57,187,678	60,567,050	6,878,904	6,581,134	5,864,331
14	Transfers	29,514,842	22,412,666	2,193,846	2,414,639	2,249,920
15	Total gross receipts	86,702,520	82,979,716	9,072,750	8,995,773	8,114,251
16	Total net receipts - All commodities	391,382,943	416,888,367	41,565,034	39,461,190	39,807,985
	Disposition					
	Crude oil and equivalent:(1)					
	Net deliveries:					
17	To refineries	248,669,698	263,080,571	25,954,920	24,356,353	25,042,901
18	To other carriers	384,554	642,086	64,820	51,480	53,041
19	To bulk plants and terminals	-	-	-	-	-
20	For export	81,943,876	92,414,805	8,580,376	8,576,061	8,399,101
21	To other	48,310	18,856	-	-	-
22	Total net deliveries	331,046,438	356,156,318	34,600,116	32,983,894	33,495,043
23	Transfers	575,406,337	631,358,749	60,561,063	59,030,424	59,443,597
24	Total gross deliveries	906,452,775	987,515,067	95,161,179	92,014,318	92,938,640
25	Pipeline fuel and use	299,234	326,947	31,607	42,251	32,375
26	Line losses and unaccounted for	318,234	153,536	54,956	12,452	- 22,962
27	Inventory changes	1,598,440	- 315,484	- 549	- 158,541	439,198
28	Other changes	- 6,590	-	-	-	-
29	Deliveries to other carriers, U.S.A.	939,509	-	-	-	-
30	Total disposition	909,601,602	987,680,066	95,247,193	91,910,480	93,387,251
	L.P.G.'s and products:(2)					
31	To refineries	4,376,239	3,303,703	230,874	219,195	370,267
32	To other carriers	110,822	260,614	32,046	4,058	7,602
33	To bulk plants and terminals	51,267,766	52,853,788	6,224,015	6,012,426	5,267,805
34	For export	854,448	2,398,407	272,853	229,316	163,277
35	To other	507,240	1,584,014	120,499	121,016	122,198
36	Total net deliveries	57,116,515	60,400,526	6,880,287	6,586,011	5,931,149
37	Transfers	29,514,842	22,412,666	2,193,846	2,414,639	2,249,920
38	Total gross deliveries	86,631,357	82,813,192	9,074,133	9,000,650	8,181,069
39	Pipeline fuel and use	-	-	-	-	-
40	Line losses and unaccounted for	- 23,368	94,761	- 1,966	4,954	- 3,634
41	Inventory changes	94,531	71,763	583	- 9,831	- 63,184
42	Other changes	-	-	-	-	-
43	Deliveries to other carriers, U.S.A.	-	-	-	-	-
44	Total disposition	86,702,520	82,979,716	9,072,750	8,995,773	8,114,251
45	Total net deliveries - All commodities	388,162,953	416,556,844	41,480,403	39,569,905	39,426,192

(1) Source - Table 1.
(2) Source - Table 4.

TABLE 5. Summary of Pipeline Movements, by Commodity Groups, by Month 1964 - Concluded

April	May	June	July	August	September	October	November	December	No.
19,392,669	22,201,724	21,940,878	21,741,252	21,392,531	21,350,665	22,041,237	22,508,633		1
750,372	862,676	977,910	985,768	1,024,259	978,279[r]	1,113,178	914,320		2
1,795,333	1,794,081	1,810,488	1,625,528	2,020,490	1,592,766[r]	1,892,617	1,491,577		3
-	-	-	-	-	-	-	-		4
7,909,620	7,662,030	6,231,462	7,552,881	7,812,534	7,185,470	8,293,894	7,964,355		5
-	-	-	-		-	-	-		6
29,847,994	32,520,511	30,960,738	31,905,429	32,249,814	31,107,180	33,340,926	32,878,885		7
53,383,510	58,185,768	57,877,283	57,321,051	56,660,039	55,067,818	55,721,195	58,107,001		8
83,231,504	90,706,279	88,838,021	89,226,480	88,909,853	86,174,998	89,062,121	90,985,886		9
456,558	504,659	321,454	356,308	439,891	532,337	729,048	819,321		10
4,754,840	4,252,210	4,316,518	4,592,129	4,588,993	3,988,705	4,561,109	5,570,317		11
25,039	21,741	65,157	109,416	128,368	30,199	35,185	43,179		12
5,236,437	4,778,610	4,703,129	5,057,853	5,157,252	4,551,241	5,325,342	6,432,817		13
1,840,101	1,571,349	1,438,983	1,922,889	2,193,009	2,205,357	1,943,247	2,439,326		14
7,076,538	6,349,959	6,142,112	6,980,742	7,350,261	6,756,598	7,268,589	8,872,143		15
35,084,431	37,299,121	35,663,867	36,963,282	37,407,066	35,658,421	38,666,268	39,311,702		16
22,006,374	23,939,424	22,551,659	23,936,913	23,820,008	22,908,011	23,820,278	24,743,730		17
48,544	71,904	73,717	52,425	47,884	48,992	68,274	61,005		18
-	-	-	-	-	-	-	-		19
8,154,952	8,870,610	8,353,572	8,088,019	8,185,767	8,356,095	8,399,519	8,450,733		20
-	-	-	-	-	18,814	-	42		21
30,209,870	32,881,938	30,978,948	32,077,357	32,053,659	31,331,912	32,288,071	33,255,510		22
53,383,510	58,185,768	57,877,283	57,321,051	56,660,039	55,067,818	55,721,195	58,107,001		23
83,593,380	91,067,706	88,856,231	89,398,408	88,713,698	86,399,730	88,009,266	91,362,511		24
28,788	24,715	30,132	24,423	30,273	27,002	26,239	29,142		25
- 18,104	- 4,557	65,163	18,175	13,163	22,288	51,716	- 38,754		26
- 372,560	- 381,585	- 113,505	- 214,526	152,719	- 274,022	974,900	- 367,013		27
-	-	-	-	-	-	-	-		28
-	-	-	-	-	-	-	-		29
83,231,504	90,706,279	88,838,021	89,226,480	88,909,853	86,174,998	89,062,121	90,985,886		30
404,264	111,556	183,542	256,249	419,065	494,007	289,771	324,913		31
5,308	15,861	29,446	40,985	27,038	33,209	35,743	29,318		32
4,661,027	4,189,908	4,130,127	4,274,013	4,376,231	3,722,773	4,419,764	5,575,699		33
177,470	114,150	167,446	195,586	232,479	263,928	279,314	302,588		34
109,487	130,199	125,597	139,108	161,413	148,982	210,408	195,107		35
5,357,556	4,561,674	4,636,158	4,905,941	5,216,226	4,662,899	5,235,000	6,427,625		36
1,840,101	1,571,349	1,438,983	1,922,889	2,193,009	2,205,357	1,943,247	2,439,326		37
7,197,657	6,133,023	6,075,141	6,828,830	7,409,235	6,868,256	7,178,247	8,866,951		38
-	-	-	-	-	-	-	-		39
31,369	713	5,971	2,927	- 7,249	12,025	7,271	42,380		40
- 152,488	216,223	61,000	148,985	- 51,725	- 123,683	83,071	- 37,188		41
-	-	-	-	-	-	-	-		42
-	-	-	-	-	-	-	-		43
7,076,538	6,349,959	6,142,112	6,980,742	7,350,261	6,756,598	7,268,589	8,872,143		44
35,567,426	37,443,612	35,615,106	36,983,298	37,269,885	35,994,811	37,523,071	39,683,135		45

[r] Revised figures.

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TABLE 6. Oil Pipelines - Inventories and Operating Statistics

		Crude oil		L.P.G.'s. and products	All pipelines November	All pipelines November
		Gathering	Trunk	Trunk	1964	1963
Inventories:						
Shippers' balances	barrels	309,124	12,230,216	913,968	13,453,308	13,463,596
Carriers' balances	"	194,682	1,383,692	3,597	1,581,971	1,453,084
Total inventory	"	503,806	13,613,908	917,565	15,035,279	14,916,680
Oil held in lines	"	291,927	9,422,585	755,741	10,470,253	9,983,040
Oil held in tanks	"	211,879	4,191,323	161,824	4,565,026	4,933,640
Inventory change	"	- 59,014	- 497,285	5,366	- 550,933	- 152,376
Barrels handled:						
Daily average of net deliveries:						
Gathering lines	barrels	768,304		-	768,304	692,436
Trunk lines	"	1,089,703		214,254	1,303,957	1,180,974
Total barrel miles:						
Trunk lines	000's miles	15,486,355		655,985	16,142,340	14,671,542
Average miles per barrel:						
Trunk lines	miles	473.7		102.1	412.7	414.1
Operating revenues, 1964:						
Three months ended Mar. 31	dollars	32,790,928		2,004,006	34,794,934	33,463,178
Six months " June 30	"	64,375,467		3,707,171	68,082,638	65,059,576
Nine months " Sept.30	"	95,920,669		4,882,674	100,803,343	96,318,664
Twelve months " Dec. 31	"					