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OIL PIPELINE TRANSPORT

FEBRUARY 1964

Canadian oil pipelines received a net total of 39,474,062 barrels of crude oil, liquefied petroleum gases and petroleum products during February, an 8.7 per cent increase over the 36,314,949 barrels received in the same period one year earlier. Included in the month's receipts were 24,838,250 barrels of crude oil and equivalent (up 9.9 per cent), 8,054,678 barrels of imported crude (up 1.8 per cent) and 6,237,327 barrels of L.P.G.'s and products (up 10.9 per cent).

Total net deliveries during the month under review amounted to 39,582,777 barrels, a rise of 9.6 per cent over last year's February total of 36,124,432 barrels. Deliveries were comprised of 24,356,353 barrels of crude oil to refineries (up 6.2 per cent), 8,576,061 barrels of domestic crude for export (up 15.5 per cent) and 6,012,426 barrels of L.P.G.'s and products to bulk plants and terminals (up 12.5 per cent).

Trunk line deliveries averaged 1,351,988 barrels per day in February with total traffic amounting to 16,436 million barrel miles. Average length of haul was 419.2 miles.

Total oil held in Canadian pipeline systems amounted to 15,222,650 barrels at the end of the month. Inventories of crude oil and equivalent held in Canada increased by 101,292 barrels while inventories of Canadian crude oil held in Canada and the United States decreased by 158,541.

Industry Division

May 1964
6511-510

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

	Total 1963 ^F	February 1964						
		Total	British Columbia	Alberta	Saskat- chewan	Manitoba(1)	Ontario	Quebec
barrels								
<u>Receipts</u>								
Net receipts:								
From fields	20,950,704	22,080,405	908,611	14,862,577	6,013,921	295,296	-	-
From other carriers	526,473	901,308	-	563,038	297,034	41,236	-	-
From processing plants	1,119,265	1,856,537	73,811	1,782,726	-	-	-	-
L.P.G. receipts into crude stream	-	-	-	-	-	-	-	-
Imports	7,915,683	8,054,678	-	-	-	-	8,054,678	-
From other	-	-	-	-	-	-	-	-
Total net receipts	30,512,125	32,892,928	982,422	17,208,341	6,310,955	336,532	-	8,054,678
Transfers:								
From other provinces	33,422,213	37,001,750	5,963,347	-	8,541,286	13,298,517	9,198,600	-
From other pipelines	13,965,449	15,930,880	991,715	13,005,019	1,934,146	-	-	-
From interprovincial systems	5,134,494	6,084,922	-	67,741	565,344	5,451,837	-	-
Total gross receipts	83,034,281	91,910,480	7,937,484	30,281,101	17,351,731	19,086,886	9,198,600	8,054,678
<u>Disposition</u>								
Net deliveries:								
To refineries	22,941,660	24,356,353	2,517,946	2,362,168	1,671,591	1,167,627	8,546,612	8,090,409
To other carriers	29,921	64,352	-	41,951	22,401	-	-	-
To bulk plants and terminals	2,120	-	-	-	-	-	-	-
To processing plants	-	-	-	-	-	-	-	-
For export	7,427,059	8,576,061	4,352,913	350,600	-	3,233,086(3)	639,462(3)	-
To other	1,406	-	-	-	-	-	-	-
Total net deliveries	30,402,166	32,996,766	6,870,859	2,754,719	1,693,992	4,400,713	9,186,074	8,090,409
Transfers:								
To other provinces	33,422,213	37,001,750	-	14,504,633	13,298,517	9,198,600	-	-
To other pipelines	3,408,652	3,989,575	267,717	1,998,249	565,344	1,158,265	-	-
To interprovincial systems	15,691,291	18,026,227	723,998	11,074,511	1,934,146	4,293,572	-	-
Total gross deliveries	82,924,322	92,014,318	7,862,574	30,332,112	17,491,999	19,051,150	9,186,074	8,090,409
Pipeline fuel and use	34,880	42,251	-	41,923	328	-	-	-
Line losses and unaccounted for	5,781	12,452	- 9,571	31,680	- 5,553	- 6,220	-	2,116
Inventory changes	97,681	- 158,541	84,481	- 124,614	- 135,043	41,956	12,526	- 37,847
Other changes	- 28,383	-	-	-	-	-	-	-
Deliveries to other carriers, U.S.A.(2)	-	-	-	-	-	-	-	-
Total disposition	83,034,281	91,910,480	7,937,484	30,281,101	17,351,731	19,086,886	9,198,600	8,054,678

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

(2) Delivered for re-entry into Canada.

(3) January revised figures Manitoba 3,227,237, Ontario 704,049

^F Revised figures.

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

	Total 1963	February 1964				
		Total	British Columbia	Alberta	Saskat- chewan	Manitoba
barrels						
<u>Receipts</u>						
Net receipts:						
From fields	20,950,704	22,080,405	908,611	14,862,577	6,013,921	295,296
From other carriers	143,726	412,047	-	341,180	29,631	41,236
Total net receipts	21,094,430	22,492,452	908,611	15,203,757	6,043,552	336,532
Transfers:						
From other pipelines	232,736	339,550	267,717	71,833	-	-
Total gross receipts	21,327,166	22,832,002	1,176,328	15,275,590	6,043,552	336,532
<u>Disposition</u>						
Net deliveries:						
To interprovincial systems	7,566,889	8,045,594	-	3,505,732	4,201,702	338,160
To other pipelines	13,349,134	14,121,834	805,377	11,480,031	1,836,426	-
To other carriers	29,921	64,352	-	41,951	22,401	-
To refineries	165,722	310,761	106,766	203,995	-	-
To bulk plants and terminals	-	-	-	-	-	-
To other	2,120	-	-	-	-	-
Total net deliveries	21,113,786	22,542,541	912,143	15,231,709	6,060,529	338,160
Transfers:						
To other pipelines	217,891	337,862	267,717	70,145	-	-
Total gross deliveries	21,331,677	22,880,403	1,179,860	15,301,854	6,060,529	338,160
Pipeline fuel and use	-	-	-	-	-	-
Line losses and unaccounted for	- 13,293	- 3,241	979	- 954	- 2,220	- 1,046
Inventory changes	6,151	- 45,160	- 4,511	- 25,310	- 14,757	- 582
Other changes	2,631	-	-	-	-	-
Total disposition	21,327,166	22,832,002	1,176,328	15,275,590	6,043,552	336,532

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

	Total 1963	February 1964							
		Total	British Columbia	Alberta	Saskat- chewan	Manitoba(1)	Ontario	Quebec	Yukon
barrels									
<u>Receipts</u>									
Net receipts:									
From gathering lines	20,916,023	22,167,428	805,377	14,985,763	6,038,128	338,160	-	-	-
From other carriers	382,747	489,261	-	221,858	267,403	-	-	-	-
From processing plants	1,119,265	1,856,537	73,811	1,782,726	-	-	-	-	-
L.P.G. receipts into crude stream	-	-	-	-	-	-	-	-	-
Imports	7,915,683	8,054,678	-	-	-	-	-	8,054,678	-
From other	-	-	-	-	-	-	-	-	-
Total net receipts	30,333,718	32,567,904	879,188	16,990,347	6,305,531	338,160	-	8,054,678	-
Transfers:									
From other provinces	33,422,213	37,001,750	5,963,347	-	8,541,286	13,298,517	9,198,600	-	-
From other pipelines	13,732,713	15,591,330	723,998	12,933,186	1,934,146	-	-	-	-
From interprovincial systems	5,134,494	6,084,922	-	67,741	565,344	5,451,837	-	-	-
Total gross receipts	82,623,138	91,245,906	7,566,533	29,991,274	17,346,307	19,088,514	9,198,600	8,054,678	-
<u>Disposition</u>									
Net deliveries:									
To refineries	22,775,938	24,045,592	2,411,180	2,158,173	1,671,591	1,167,627	8,546,612	8,090,409	-
To other carriers	-	-	-	-	-	-	-	-	-
To bulk plants and terminals	-	-	-	-	-	-	-	-	-
To processing plants	-	-	-	-	-	-	-	-	-
For export	7,427,059	8,576,061	4,352,913	350,600	-	3,233,086	639,462	-	-
To other	1,406	-	-	-	-	-	-	-	-
Total net deliveries	30,204,403	32,621,653	6,764,093	2,508,773	1,671,591	4,400,713	9,186,074	8,090,409	-
Transfers:									
To other provinces	33,422,213	37,001,750	-	14,504,633	13,298,517	9,198,600	-	-	-
To other pipelines	3,190,761	3,651,713	-	1,928,104	565,344	1,158,265	-	-	-
To interprovincial systems	15,691,291	18,026,227	723,998	11,074,511	1,934,146	4,293,572	-	-	-
Total gross deliveries	82,508,668	91,301,343	7,488,091	30,016,021	17,469,598	19,051,150	9,186,074	8,090,409	-
Pipeline fuel and use	34,880	42,251	-	41,923	328	-	-	-	-
Line losses and unaccounted for	19,074	15,693	- 10,550	32,634	- 3,333	- 5,174	-	2,116	-
Inventory changes	91,530	- 113,381	88,992	- 99,304	- 120,286	42,538	12,526	- 37,847	-
Other changes	- 31,014	-	-	-	-	-	-	-	-
Deliveries to other carriers, U.S.A.(2)	-	-	-	-	-	-	-	-	-
Total disposition	82,623,138	91,245,906	7,566,533	29,991,274	17,346,307	19,088,514	9,198,600	8,054,678	-

(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	February 1964							
		Total	British Columbia	Alberta	Saskat- chewan	Manitoba(1)	Ontario	Quebec	Yukon
barrels									
<u>Receipts</u>									
Net receipts:									
From processing plants	157,331	338,710	-	338,710	-	-	-	-	-
From refineries and bulk plants	5,622,958	6,237,327	52,732	211,185	40,555	-	4,809,191	1,123,664	-
Imports	22,535	5,097	5,097	-	-	-	-	-	-
Total net receipts	5,802,824	6,581,134	57,829	549,895	40,555	-	4,809,191	1,123,664	-
Transfers:									
From other provinces	2,263,335	2,089,005	138,266	-	246,956	287,511	1,411,175	-	5,097
From other pipelines	208,023	436,848	-	436,848	-	-	-	-	-
Total gross receipts	8,274,182	9,106,987	196,095	986,743	287,511	287,511	6,220,366	1,123,664	5,097
<u>Disposition</u>									
Net deliveries:									
To refineries	293,945	219,195	14,877	28,021	-	-	176,297	-	-
To other carriers	39,996	4,058	-	4,058	-	-	-	-	-
To bulk plants and terminals	5,345,939	6,012,426	52,732	-	-	-	5,920,602	-	39,092
For export	42,386	229,316	157,613	-	-	-	71,703	-	-
To other	-	121,016	-	121,016	-	-	-	-	-
Total net deliveries	5,722,266	6,586,011	225,222	153,095	-	-	6,168,602	-	39,092
Transfers:									
To other provinces	2,263,335	2,089,005	5,097	385,222	287,511	287,511	-	1,123,664	-
To other pipelines	-	51,549	-	51,549	-	-	-	-	-
To interprovincial systems	208,023	385,299	-	385,299	-	-	-	-	-
Total gross deliveries	8,193,624	9,111,864	230,319	975,165	287,511	287,511	6,168,602	1,123,664	39,092
Pipeline fuel and use	- 79	-	-	-	-	-	-	-	-
Line losses and unaccounted for	- 2,485	4,954	-	7,449	-	-	- 2,495	-	-
Inventory changes	83,122	- 9,831	- 34,224	4,129	-	-	54,259	-	- 33,995
Other changes	-	-	-	-	-	-	-	-	-
Deliveries to other carriers - U.S.A.	-	-	-	-	-	-	-	-	-
Total disposition	8,274,182	9,106,987	196,095	986,743	287,511	287,511	6,220,366	1,123,664	5,097

(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		January	February	March
		1963 ^F	1964			
	<u>Receipts</u>					
	Crude oil and equivalent:(1)					
	Net receipts:					
1	From fields	43,166,574	45,224,455	23,144,050	22,080,405	
2	From other carriers	979,945	1,776,999	875,691	901,308	
3	From processing plants	2,365,097	3,963,010	2,106,473	1,856,537	
4	L.P.G. receipts into crude stream	-	-	-	-	
5	Imports	16,636,807	16,614,594	8,559,916	8,054,678	
6	From other	-	-	-	-	
7	Total net receipts	63,148,423	67,579,058	34,686,130	32,892,928	
8	Transfers	106,887,023	119,578,615	60,561,063	59,017,552	
9	Total gross receipts	170,035,446	187,157,673	95,247,193	91,910,480	
	L.P.G.'s and products:(2)					
10	From processing plants	323,830	713,890	375,180	338,710	
11	From bulk plants and refineries	11,573,621	12,731,312	6,493,985	6,237,327	
12	Imports	68,781	14,836	9,739	5,097	
13	Total net receipts	11,966,232	13,460,038	6,878,904	6,581,134	
14	Transfers	4,851,849	4,719,699	2,193,846	2,525,853	
15	Total gross receipts	16,818,081	18,179,737	9,072,750	9,106,987	
16	Total net receipts - All commodities	75,114,655	81,039,096	41,565,034	39,474,062	
	<u>Disposition</u>					
	Crude oil and equivalent:(1)					
	Net deliveries:					
17	To refineries	46,990,334	50,311,273	25,954,920	24,356,333	
18	To other carriers	61,776	129,172	64,820	64,353	
19	To bulk plants and terminals	2,120	-	-	-	
20	For export	15,879,221	17,156,437	85,803,376	8,576,061	
21	To other	3,877	-	-	-	
22	Total net deliveries	62,937,328	67,596,882	34,600,116	32,996,766	
23	Transfers	106,887,023	119,578,615	60,561,063	59,017,552	
24	Total gross deliveries	169,824,351	187,175,497	95,161,179	92,014,318	
25	Pipeline fuel and use	65,629	73,858	31,607	42,251	
26	Line losses and unaccounted for	75,884	67,408	54,956	12,452	
27	Inventory changes	121,275	- 159,090	- 549	- 158,541	
28	Other changes	- 51,693	-	-	-	
29	Deliveries to other carriers, U.S.A.	-	-	-	-	
30	Total disposition	170,035,446	187,157,673	95,247,193	91,910,480	
	L.P.G.'s and products:(2)					
31	To refineries	586,427	450,069	230,874	219,195	
32	To other carriers	86,515	36,104	32,046	4,058	
33	To bulk plants and terminals	11,112,619	12,236,441	6,224,015	6,012,426	
34	For export	121,384	502,169	272,853	229,316	
35	To other	-	241,515	120,499	121,016	
36	Total net deliveries	11,906,945	13,466,298	6,880,287	6,586,011	
37	Transfers	4,851,849	4,719,699	2,193,846	2,525,853	
38	Total gross deliveries	16,758,794	18,185,997	9,074,133	9,111,864	
39	Pipeline fuel and use	- 79	-	-	-	
40	Line losses and unaccounted for	- 2,884	2,988	- 1,966	4,954	
41	Inventory changes	62,250	- 9,248	583	- 9,831	
42	Other changes	-	-	-	-	
43	Deliveries to other carriers, U.S.A.	-	-	-	-	
44	Total disposition	16,818,081	18,179,737	9,072,750	9,106,987	
45	Total net deliveries - All commodities ...	74,844,273	81,063,180	41,480,403	39,582,777	

(1) Source - Table 1.
 (2) Source - Table 4.
^F Revised figures.



TABLE 6. Oil Pipelines - Inventories and Operating Statistics

	Crude oil		L.P.G.'s. and products Trunk	All pipelines February 1964	All pipelines February 1963 ^r	
	Gathering	Trunk				
Inventories:						
Shippers' balances	barrels	298,722	12,781,317	760,479	13,840,518	12,457,430
Carriers' balances	"	178,092	1,188,364	15,676	1,382,132	1,761,266
Total inventory	"	476,814	13,969,681	776,155	15,222,650	14,218,696
Oil held in lines	"	331,370	9,094,187	521,542	9,947,099	9,886,093
Oil held in tanks	"	145,444	4,875,494	254,613	5,275,551	4,332,603
Inventory change	"	- 45,160	146,452	- 121,440	20,148	271,490
Barrels handled:						
Daily average of net deliveries:						
Gathering lines	barrels	777,329	-	-	777,329	754,923
Trunk lines	"	1,124,884	227,104	1,351,988	1,351,988	1,283,095
Total barrel miles:						
Trunk lines	000's miles	15,744,705	691,588	16,436,293	16,436,293	12,481,530
Average miles per barrel:						
Trunk lines	miles	482.6	105.0	419.2	419.2	347.4
Operating revenues, 1963:						
Three months ended Mar. 31	dollars	31,446,192		2,016,986		33,463,178
Six months " June 30	"	60,908,875		4,150,701		65,059,576
Nine months " Sept. 30	"	90,288,818		6,029,844		96,318,662
Twelve months " Dec. 31	"	119,979,598		7,398,806		127,378,404

^r Revised figures.