

D.B.S. MEMORANDUM

Dominion Bureau of Statistics, Ottawa, Canada

VOL. 1

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No. 1

PIPE LINES (OIL) STATISTICSJANUARY - JULY, 1951

With this issue, the Bureau inaugurates a new monthly report on the operations of oil pipe lines in Canada. As a result of discussions with representatives of the major operating companies and interested governmental authorities, arrangements have been made for obtaining significant statistics on operations and traffic for both the gathering and trunk line systems of oil pipe lines. A specimen copy of the questionnaire form used together with relevant instructions and explanatory notes is appended to this first bulletin. Reference should be made thereto for a detailed description and interpretation of the statistics.

As the survey did not commence until January, 1951, interim monthly data for prior years is not available for comparisons. Steps are being taken, however, to obtain annual figures for the year 1950 and such will be given in comparative form with the annual figures for 1951.

Pipelines in Canada have assumed nation-wide importance in the field of Canadian transportation since the opening of the Interprovincial Pipeline from Edmonton to Superior, Wisconsin, in October of last year. The Portland-Montreal pipeline built as a war measure in 1941 carried some 170,330,000 barrels to the end of 1950. In the western lines, for the present only crude oil is carried except in one instance, the Valley Pipe Line Company, where natural gasoline is also moved. New pipelines under construction in Southern Ontario will handle products from refineries to main distribution outlets. Proposals for additional crude and products lines to the west coast and in eastern sections are also under consideration, in the light of further developments in the Alberta oil fields and prospects of new developments in the British Columbia and Saskatchewan oil bearing regions.

The opening of the Interprovincial line has resulted in a very heavy diversion of crude oil traffic from the railways. A measure of the magnitude of this diversion in the west is shown in the weekly carloadings of revenue rail freight which showed 17,644 cars of western crude oil loaded in the first forty-one weeks of 1951 compared with 50,904 in the similar period last year before the interprovincial line was operative. This decrease occurred despite an increase of some 80 p.c. in the Alberta output of oil.

14/12/51

Price per year \$1.00

Prepared in the Transportation Section

The following table shows the type of system, route and approximate mileages for each of the oil pipe line companies presently operating.

Trunk Lines showing Termini and Approximate Mileages

Company	Type of System	From	To	Approximate Mileage
Anglo Canadian Oils Ltd.	Trunk	Souris Jct., Man.	Brandon, Man.	16
B.A. Saskatchewan Pipe Line Ltd.	"	Stoney Beach, Sask.	Moose Jaw, Sask.	25
Imperial Pipe Line Co., Ltd.	"	Nisku, Alta.	Edmonton, Alta.	16
" " " " "	"	" "	Edmonton (via Ellersley)	15
Interprovincial Pipe Line Ltd.	"	Redwater and Excelsior, Alta. }	International Boundary } at Gretna, Man. }	775
Montreal Pipe Line Co., Ltd.	"	International Boundary at Highwater, Que.	Montreal East, Que.	2 { 73 mile lines
Valley Pipe Line Co., Ltd.	"	Turner Valley, Alta.	Calgary, Alta.	32
Winnipeg Pipe Line Co., Ltd.	"	Gretna, Man.	Winnipeg, Man.	75

Gathering Lines showing Fields Served

Company	Type of System	Producing Fields Served
B. A. Alberta Pipe Line Ltd.	Gathering	Redwater, Alta.
Imperial Pipe Line Co., Ltd.	"	Leduc, Woodbend, Golden Spike, Nisku, Excelsior and Redwater, Alberta
Valley Pipe Line Co., Ltd.	"	Turner Valley, Alta.

Revenues are reported quarterly and during the first quarter of 1951 were \$2,363,188 while in the second quarter they increased to \$4,390,630 making a six month's total of \$6,753,818.

Table 1 is a summary of oil carried in all trunk systems. "Total received" represents the gross receipts of all Canadian trunk lines during each month and for the seven month's period to the end of July. Duplications of oil transported through Canadian pipe lines are eliminated by deducting the classes indicated from "total received" to obtain "net received" which represents oil which has come from oil carriers other than Canadian pipe lines systems or which has originated on the trunk systems. "Net delivered" is oil leaving the domestic pipe lines systems and includes terminal deliveries, transfers to non-pipe line carriers and deliveries to foreign pipe lines.

Oil moved through the gathering systems is indicated in table 2. "Total received" is the sum of oil originating on the systems plus that received from other carriers. The gathering systems do not receive oil from other pipe lines so that the "net received" figure, which represents oil being transported by pipe line in Canada for the first time, is the same as the "Total received". "Net received" includes oil originating on the systems, after inter-line transfers within each system are eliminated, plus that received from other oil carriers, i.e., railways and tank trucks. Similarly, "net delivered" represents oil leaving the pipe line systems after inter-line transfers have been eliminated and is made up of oil passing to non-pipe line carriers and terminal deliveries.

Tables 3 and 4 give the quantities of oil moved classified according to the province in which the shipment originated or terminated its pipe line movement. Canada totals in these tables equal the "net received" and "net delivered" totals shown in tables 1 and 2. The use of these "net" figures eliminates duplications and shows the actual number of barrels received into and delivered out of the domestic system of pipe lines.

General operating statistics of all companies for each of the first seven months of 1951 are included in table 5. Notes explaining the meanings of terms used are included in the "Instructions and Explanatory Notes" appended to this report.

Company details for the month of July and totals for the first seven months of 1951 are given in table 6. Totals shown by companies for receipts and deliveries of oil are gross figures and include all oil received and delivered in inter-company transactions. The receipts and deliveries for companies operating both gathering and trunk lines are net as far as company operations are concerned as deliveries from own gathering lines to own trunk lines have been eliminated as a duplicating factor in the number of barrels of oil carried in each such system. A reconciliation between totals received into and delivered out of systems as shown in table 6 and net received and delivered, as included in tables 1 and 2, follows:

	<u>Barrels</u>
Total Received into Systems - all companies - during first seven months 1951 per table 6	65,997,725
Received into Trunk Lines from Other Domestic Pipe Lines	18,365,315
"Net Received" into Canadian Pipe Line Systems	47,632,410
"Net Received" into Trunk Systems per Table 1	26,237,317
"Net Received" into Gathering Systems per Table 2...	21,395,093

Continued on page 4

	<u>Barrels</u>
Total Delivered out of Systems - all companies during first seven months 1951 per table 6	65,625,317
Delivered to Other Domestic Pipe Lines	
From Trunk Systems 5,946,781	
From Gathering Systems 12,231,775	<u>18,178,556</u>
"Net Delivered" from Canadian Pipe Line Systems	47,446,761
"Net Delivered" from Trunk Systems per Table 1	<u>45,813,338</u>
"Net Delivered" from Gathering Systems per Table 2..	1,633,423

Differences between receipts and deliveries of oil occur in each month. Several factors combine to account for the disparity between the two. The carriers and shippers balances may increase or decrease as a result of the volume of receipts and deliveries during the month. Carriers balances will also fluctuate according to the amount of carriers allowances deducted by the pipe line companies as a toll for the transport of the oil and not sold or otherwise delivered out of the system during the month by the carrier. Another source of variation is found in the amount of losses and oil used for fuel and other purposes. The monthly oil balance given by each company in section IV of the reporting form provides an accounting of these changes. The oil balance has been tabulated for all companies for the seven months period covered by this report and is given herewith:

Oil Balance - All Companies - January - July, 1951

Total Shipper's Balances - January 1, 1951.....	1,896,922	
" Carrier's " - January 1, 1951.....	<u>209,935</u>	2,106,857
Received into Gathering Systems Jan.1 to July 31/51	21,395,093	
" " Trunk " " " " " "	<u>52,222,392</u>	73,617,485
Total oil accountable for period		<u>75,724,342</u>
Delivered from Gathering Systems Jan.1 to July 31/51	21,484,958	
Delivered from Trunk Systems Jan.1 to July 31/51 ..	<u>51,760,119</u>	73,245,077
Balance to be accounted for at July 31/51		2,479,265
Oil consumed as fuel and losses		<u>82,736</u>
<u>Balance on hand - July 31, 1951</u>		<u>2,396,529</u>
Total Shipper's Balances - July 31, 1951	2,117,037	
" Carrier's Balances - July 31, 1951	279,492	

Pipe line fill is the amount of oil required to fill each company's pipe line system. Some systems own the oil constituting their pipe line fill whereas in others the company whose oil is being transported owns the fill. The ownership of the pipe line fill

determines whether it is included in the shipper's or the carrier's balances reported monthly by each pipe line (carrier) company. Total amount of oil making up pipe line fill in the line of the eight operating firms whose statistics are shown in the main tables of this report is 1,598,624 barrels.

In addition to the larger companies whose operating data are included in the tables, there are two very short lines crossing the United States border into Ontario. These firms are the Transit and Storage Company and the Susquehanna Pipe Line Company whose lines cross the St. Clair River at Sarnia. The operations of these companies in Canada are such that these short lines are considered merely as connecting to refinery facilities and not included in the general pipeline statistics. A summary of oil transported by the two lines follows:

Month 1951	Transit and Storage Crude Petroleum	Susquehanna Butane
	Barrels	Barrels
January	1,371,077	-
February	1,231,499	50,885
March	1,298,485	53,969
April	1,185,436	79,939
May	669,578	8,197
June	648,167	48,029
July	653,581	62,794
Total .. January-July	7,057,823	303,813

TABLE 1

OIL CARRIED BY PIPE LINES - TRUNK

	January	February	March	April	May	June	July	Total Year to date
	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
Total Received	6,498,289	6,050,420	5,722,527	6,531,975	9,168,426	8,958,025	9,232,730	52,222,332
Less: Received from other Canadian pipe lines -								
Own gathering system	976,105	931,817	868,757	830,151	1,294,676	1,357,976	1,310,278	7,619,760
Other pipelines - Gathering	1,454,694	1,131,020	978,628	1,042,375	2,485,450	2,603,393	2,750,420	12,446,580
Trunk	552,554	508,336	495,785	859,139	1,145,457	1,264,217	1,093,247	5,918,735
Net Received	3,514,936	3,479,247	3,379,357	3,810,310	4,242,843	3,731,839	4,078,785	26,237,317
Originating on own trunk lines	-	-	-	-	-	-	-	-
Received from foreign pipe line connections	3,446,063	3,416,679	3,322,760	3,731,496	4,124,868	3,564,638	3,894,885	25,501,389
Received from other carriers	68,873	62,568	56,597	76,814	117,975	167,201	183,900	735,928
Total Delivered	6,365,601	5,888,597	5,724,625	6,763,049	8,928,350	8,793,273	9,326,624	51,760,119
Less: Delivered to other Canadian pipe lines	557,247	524,744	485,127	836,210	1,161,377	1,258,267	1,096,809	5,946,781
Net Delivered	5,808,354	5,333,853	5,239,498	5,896,839	7,766,973	7,538,006	8,229,815	45,813,338
Terminated on own trunk lines	5,399,148	5,086,877	5,011,079	5,102,491	6,179,230	5,893,595	6,237,058	38,909,478
Delivered to foreign pipe line connections	409,206	246,976	228,419	794,348	1,587,743	1,644,411	1,992,757	6,903,860
Delivered to other carriers	-	-	-	-	-	-	-	-

TABLE 1

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TABLE 2

OIL CARRIED BY PIPE LINES - GATHERING

	January	February	March	April	May	June	July	Total Year to date
	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
Total Received	2,532,089	2,344,803	2,030,675	2,056,994	3,933,911	4,195,363	4,311,258	21,395,093
Less: Received from other gathering systems	-	-	-	-	-	-	-	-
Net received	2,532,089	2,344,803	2,030,675	2,056,994	3,933,911	4,195,363	4,311,258	21,395,093
Originating on own gathering system	2,483,663	2,297,841	1,989,370	2,018,540	3,853,313	4,128,673	4,297,164	21,068,564
Received from other carriers	48,426	46,962	31,305	38,454	80,598	66,690	14,094	326,529
Total Delivered	2,603,200	2,288,024	2,039,280	2,038,976	3,984,754	4,207,381	4,323,343	21,484,956
Less: Delivered to other pipe lines -								
Own trunk system	976,105	931,817	868,757	830,151	1,294,676	1,357,976	1,310,278	7,619,760
Other pipe lines	1,417,955	1,100,538	955,604	1,006,477	2,428,439	2,578,517	2,744,245	12,231,775
Net Delivered	209,140	255,669	214,919	152,348	261,639	270,388	268,820	1,633,423
Terminated on gathering systems	14,586	20,092	26,945	30,105	31,457	35,193	27,712	186,090
Delivered to other carriers	194,554	235,577	187,974	122,243	230,182	235,695	241,108	1,447,333

TABLE 2

TABLE 3

OIL CARRIED BY PIPE LINES BY PROVINCE IN WHICH SHIPMENT ORIGINATED

Province		January	February	March	April	May	June	July	Total Year to Date
		Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
Alberta -	Gathering	2,532,089	2,344,803	2,020,675	2,056,994	3,933,911	4,195,363	4,311,258	21,895,093
	Trunk	68,873	62,568	56,597	78,814	117,975	167,201	183,900	735,928
(1) Quebec -	Trunk	3,446,063	3,416,679	3,322,760	3,731,496	4,124,868	3,564,638	3,894,885	25,501,389
	Net received - Trunk	3,514,336	3,479,247	3,379,357	3,810,310	4,242,843	3,731,839	4,078,785	26,237,317
	Total	6,047,025	5,824,050	5,400,032	5,867,304	8,176,754	7,927,202	8,390,043	47,632,410

(1) Receipts from foreign pipe lines at International Boundary, Highwater, Que.

TABLE 4

OIL DELIVERED BY PIPE LINES BY PROVINCE IN WHICH SHIPMENT TERMINATED
OR WERE TRANSFERRED TO OTHER CARRIERS

Province		January	February	March	April	May	June	July	Total Year to Date
		Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
Alberta -	Gathering	209,140	255,669	214,919	152,348	261,639	270,888	268,810	1,633,423
	Trunk	825,350	834,121	789,344	515,333	889,812	1,018,254	1,034,398	5,906,512
Saskatchewan -	Trunk	916,263	681,073	751,203	641,442	755,153	851,850	943,243	5,540,227
Manitoba (2) -	Trunk	581,147	415,725	387,120	1,031,423	2,016,573	2,118,945	2,353,577	8,904,510
Quebec -	Trunk	3,485,594	3,402,034	3,311,931	3,708,641	4,105,435	3,548,957	3,898,597	25,462,089
	Net Delivered - Trunk	5,808,354	5,333,853	5,239,498	5,836,839	7,766,973	7,538,006	8,229,815	45,813,338
	Total	6,017,494	5,589,522	5,454,417	6,049,187	8,028,612	7,808,894	8,498,635	47,446,761
(2) Including deliveries to foreign pipe lines at International Boundary, Gretna, Man.		409,206	246,976	228,419	794,348	1,587,743	1,644,411	1,992,757	6,903,860

TABLE 5

OPERATING STATISTICS

Month 1951	Barrels Handled Daily Average		Total Barrel Miles Trunk Lines	Average Miles per Barrel (Trunk Lines)	Employees and Earnings		
	Gathering Systems	Trunk Lines			Number	Total Earnings	Man Hours Worked by Wage Earners
	Barrels	Barrels	Millions	Miles		\$	Hours
January	83,974	305,342	1,154.79	807.51	481	147,013	31,718
February	81,715	209,234	930.59	802.55	490	146,564	27,935
March	65,783	184,665	906.68	787.72	490	149,688	31,029
April	67,967	225,434	1,391.14	880.34	513	153,394	30,167
May	128,540	288,010	2,357.97	943.96	532	178,051	33,465
June	140,246	293,110	2,388.96	911.52	531	170,670	34,384
July	139,463	300,858	2,641.14	912.81	563	176,304	33,803
First Quarter	77,006	199,431	2,992.06	799.88	487	443,265	90,682
Second Quarter	112,430	269,062	6,138.07	916.76	525	502,115	98,016
Seven Months	101,345	244,152	11,771.28	885.51	514	1,121,684	(3) 222,501

(3) Includes 6,315 hours overtime

TABLE 6

PIPE LINE STATISTICS, BY COMPANIES

	Anglo- Canadian Oils, Ltd.	E.A.-Alberta Pipe Line Ltd.	E.A.-Saskat- chewan Pipe Line, Ltd.	Imperial Pipe Line Co., Ltd.	Inter- provincial Pipe Line Co.	Montreal Pipe Line Co., Ltd.	Valley Pipe Line Co., Ltd.	Winnipeg Pipe Line Co., Ltd.	Total
<u>TRAFFIC</u>			Number	of	Barrels				
Total Received into System:									
This month (July, 1951)	73,035	456,930	195,689	3,810,113	3,289,209	3,894,885	228,115	285,734	12,233,710
This year (7 months)	440,548	2,083,412	1,309,794	18,271,535	15,057,285	25,501,383	1,776,074	1,557,688	65,997,725
Total Delivered out of System:									
This month (July, 1951)	73,035	462,383	194,100	3,821,900	3,379,480	3,898,597	232,409	287,785	12,339,689
This year (7 months)	440,548	2,149,616	1,299,258	18,271,660	14,646,520	25,462,089	1,795,524	1,560,102	65,625,317
<u>OPERATING STATISTICS</u>									
Barrels handled - Daily Average:									
<u>Gathering Lines</u>									
This month (July, 1951)	-	14,916	-	117,355	-	-	7,192	-	139,463
This year (7 months)	-	10,140	-	32,716	-	-	8,489	-	101,345
<u>Trunk Lines</u>									
This month (July, 1951)	2,356	-	6,261	41,901	109,015	125,761	6,281	9,283	300,858
This year (7 months)	2,078	-	6,129	31,803	69,087	120,104	7,592	7,359	244,152
<u>TOTAL BARREL MILES:</u>				Miles					
(Trunk lines in millions)									
This month (July, 1951)	1.10	-	4.00	21.84	2,300.00	287.18	6.24	20.78	2,641.14
This year (7 months)	6.60	-	28.00	113.19	9,584.00	1,875.56	51.72	112.21	11,771.28
<u>AVERAGE MILES PER BARREL</u>									
(Trunk lines)									
This month (July, 1951)	15.00	-	32.06	16.79	681.00	73.66	32.10	72.20	912.81
This year (7 months)	15.00	-	22.06	16.77	654.00	73.66	32.10	71.92	885.51
<u>OPERATING REVENUES</u>				Dollars					
Three months ending March 31, 1951	7,675	54,059	13,612	495,530	1,309,194	340,037	103,402	39,710	2,363,188
Six months ending June 30, 1951	15,115	129,377	19,887	1,231,066	4,213,828	745,377	189,280	209,888	6,753,818
<u>EMPLOYEES AND EARNINGS</u>				Number					
Number of Employees (July, 1951)	-	11	5	217	242	34	50	4	563
				Dollars					
Total Earnings:									
This month (July, 1951)	-	3,525	855	61,430	84,393	10,604	13,679	1,758	176,304
This year (7 months)	-	22,136	4,856	377,893	539,562	69,356	35,888	11,993	1,121,684
<u>Man Hours Worked by Wage Earners:</u>				Hours					
This month (July, 1951)	-	1,241	268	24,176	636	1,155	6,337	-	33,803
This year (7 months)	-	8,778	1,121	161,822	2,755	3,056	46,969	-	222,501

TABLE 6

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PIPE LINES (OIL) STATISTICS

MONTHLY REPORT TO
THE DOMINION BUREAU OF STATISTICS
PUBLIC FINANCE AND TRANSPORTATION DIVISION

MONTH OF 195 ..
(This report to be completed & two copies
mailed in the accompanying envelope with-
in 21 days after end of above month)

(Under authority of the Statistics Act,
C. 45; 11-12 Geo. VI.)

RETAIN ONE COPY FOR YOUR FILE

Name of Company for which report is made

Name, Official Title and Mailing Address of Person in charge of correspondence
regarding this Report: Name Title

Mailing Address

CERTIFICATE: This is to certify that the information furnished in this report is
complete and correct to the best of my knowledge and belief.

Dated this day of 195 ... Signed

NUMBER	I. EMPLOYEES AND EARNINGS - CURRENT MONTH	OVERTIME AND EXTRA EARNINGS	TOTAL EARNINGS
		\$	\$
.....	1. Salaried Employees:		
.....	10. General Office (except clerical)	.....	.....
.....	11. Clerical	.....	.....
.....	12. Supervisory and Occupational	.....	.....
.....	2. Wage-Earners (Total man-hours worked: Straight Time; Overtime .....)	.....	.....
.....	3. Total	.....	.....
	4. Provincial Distribution of Total Number and Total Earnings:		
	<u>Name of Province</u>		
.....	40. ....		.....
.....	41. ....		.....
.....	42. ....		.....
.....	43. ....		.....
NO. KILLED	II. ACCIDENTS - CURRENT MONTH		NO. INJURED
.....	1. Own Employees		.....
.....	2. Others		.....
.....	3. Total		.....

III. FACTOR FOR CONVERTING BARRELS TO TONS:

1. No. of Barrels per ton: Crude Oil; Refined Oil

IV. MONTHLY OIL BALANCE MONTH OF 195 ...	BARRELS	
1. Total Shipper's Balances - First of Month	.....
2. Total Carrier's Balance - First of Month	.....	.....
3. Total Received During Month:		
30. Into Gathering System	.....
31. Into Trunk Line	.....	.....
4. Total Accountable (Items 1 to 3)	.....
5. Total Delivered During Month:		
50. From Gathering System	.....
51. From Trunk Line	.....	.....
6. Total Shipper's Balances - End of Month	.....
7. Total Carrier's Balance - End of Month	.....	.....
8. Total Accounted for (Items 5 to 7)	.....
9. Difference - (Consumed as fuel and losses)	.....
V. OPERATING STATISTICS	THIS MONTH	THIS YEAR
1. Barrels Handled - Daily Average:		
10. Gathering System	.....	.....
11. Trunk Lines	.....	.....
2. Total Barrel Miles - (Trunk Lines Only in Millions)	.....	.....
3. Average Miles per Barrel - (Trunk Lines Only)	.....	.....
VI. TOTAL OPERATING REVENUES - (To be reported only Quarterly)	⌘	
1. This Quarter (Ending 195 ...)	.....
2. This Year (..... Months Ending 195 ...)	.....

VII. TRAFFIC STATISTICS - GATHERING OPERATIONS

MONTH OF 195 ...

L I N E	"A" - BARRELS RECEIVED INTO SYSTEM (See Note)				
	Province and Area of Origin	Originating on own Gathering System	From Other Gathering Systems	From Other Carriers (Truck & Rail)	Total
	(1)	(2)	(3)	(4)	(5)
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.	Totals				

L I N E	"B" - BARRELS DELIVERED OUT OF SYSTEM (See Note)					
	Province and Point of Termination or Transfer	To Other Pipe Lines	To Other Carriers (Truck & Rail)	To Own Trunk System	Terminated	Total
	(1)	(2)	(3)	(4)	(5)	(6)
16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						
27.						
28.						
29.						
30.	Totals					

Note: This information to be provided for each commodity carried according to the classification given on pages 3-4 of the Instructions and Explanatory Notes. Enter sub-totals for each commodity.

VIII. - TRAFFIC STATISTICS - TRUNK LINE OPERATIONS

MONTH OF 195 ...

L I N E	"A" - BARRELS RECEIVED INTO SYSTEM (See Note)						
	Province and Location at which Received	Originating on Own Trunk Lines	From Own Gathering Systems	OTHER PIPE LINES		Other Carriers (Truck & Rail)	Total
				Domestic	Foreign		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.	Totals						

L I N E	"B" - BARRELS DELIVERED OUT OF SYSTEM (See Note)					
	Province and Point of Termination or Transfer	TO OTHER PIPE LINES		To Other Carriers (Truck & Rail)	Terminated	Total
		Domestic	Foreign			
	(1)	(2)	(3)	(4)	(5)	(6)
16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						
27.						
28.						
29.						
30.	Totals					

Note: This information to be provided for each commodity carried according to the classification given on pages 3-4 of the Instructions and Explanatory Notes. Enter sub-totals for each commodity.

THE DOMINION BUREAU OF STATISTICS

PUBLIC FINANCE AND TRANSPORTATION DIVISION

PIPE LINE (OIL) STATISTICS

INSTRUCTIONS AND EXPLANATORY NOTES

GENERAL

If corrections or revisions of figures reported for previous months are necessary please advise so that corresponding revisions may be made in the statistics. Where both cumulative and current monthly or quarterly figures are required and corrections relating to previous months are reflected therein, an explanation should be given indicating whether such revisions are reflected only in the cumulative totals or whether they have been effected by adjusting the current monthly or quarterly figures.

Gathering Lines are such pipe line facilities as are used in transporting oil from the wells of producers to points of delivery within the gathering district or to points of connection with trunk lines for transporting beyond the gathering districts.

Trunk Lines are such pipe line facilities as are used in the transportation of oil which has been gathered from the wells of producers or has been received from connecting lines, refineries or other carriers.

SECTION I. - EMPLOYEES AND EARNINGS:

Numbers Employed.-Should represent the average number paid during the month. Thus, if employees are paid once a month only, the number reported would be the total number on the pay-roll; if paid semi-monthly, fortnightly or weekly, the numbers reported would be the average number for the 2, 3, 4 or 5 pay-periods ending in the month, as the case may be.

Total Earnings.-Represent the gross amount of the pay-roll before deductions of any kind such as for superannuation or pensions, insurance including health, accident, hospitalization, workmen's compensation or unemployment insurance, dues, social services or income tax. Perquisites of office such as special living allowances, should, however, be included. The amount of over-time and other extra-earnings included in the total, should be shown separately in the column provided. In this latter category, any cost-of-living or other bonuses and other emoluments of office would be included.

1. Salaried Employees.-Refers to persons paid on the basis of a weekly, monthly or annual rate. "General office" will include all executive and administrative personnel (excluding clerks) which as a rule will comprise those employed at head office only. Clerical will include both general office clerks as well as field clerks. Similarly, supervisory and occupational employees, will include the remaining classes of salaried employees, both at head-office and in field or district offices.
2. Wage-Earners.-Refers to persons employed on the basis of an hourly or daily wage rate, whether regularly or otherwise employed. Man-hours

SECTION I. - EMPLOYEES AND EARNINGS: (Cont'd)

worked straight time should include hours of work paid on statutory holidays, vacation with pay, sick or special leave with pay and for overtime should include only the actual numbers of hours of overtime worked. Do not include additional premium hours credited for the purpose of computing overtime pay.

4. Provincial Distribution. - Field and district employees should be classified according to the province in which located. Head office and other executive or administrative classes should be allocated according to their respective domicile, regardless of the scope of their field of operations.

SECTION II. - ACCIDENTS:

Report all accidents to both employees or other persons arising from or in conjunction with the operation of the company, whether such accidents occur on the property of the company, or elsewhere, such as those involving company vehicles or equipment.

The number killed should also include all casualties whose death occurs within twenty-four hours after the time of the accident.

SECTION III. - FACTOR FOR CONVERTING BARRELS TO TONS:

Enter here the estimated number of barrels, for both crude and refined oil, in short ton (2,000 lbs).

SECTION IV. - MONTHLY OIL BALANCE:

This is a reconciliation statement to account for the difference between total oil received and total oil delivered in any period, which would be represented either by the changes in inventories of shipper's and carrier's balances of oil on hand, by the amount of oil consumed as fuel or losses in transit, or by both of those factors. Care should thus be taken to see that the figures reported for items 3 and 5 are in agreement with the corresponding totals reported in Sections VII and VIII, as the case may be.

SECTION V. - OPERATING STATISTICS:

1. Barrels Handled - Daily Average. - The total number of barrels delivered out of the system during the month (as per Part B of Sections VII and VIII, as the case may be) divided by the number of days in the month. Averages for gathering and trunk lines are to be shown separately.
2. Barrel Miles - (Trunk Lines only). - Will be the distance measured on the line multiplied by the number of barrels moved through that distance. Generally, this length of haul, based on point of origin in the trunk line, is in each instance entered in the record when the oil or other commodity is delivered out of the trunk line system. Thus, all goods which ended their journey during the month are to be counted and for each shipment the whole length of the journey in Canada, whether or not the journey commenced during the month in question. If, however, records are maintained differently and the entry for distance traveled is recorded at the point of origin in the trunk line, the entire length of haul for each shipment of goods received during the month should be used regardless of the date delivered out of the system.

SECTION V. - OPERATING STATISTICS: (Cont'd)

3. Average Miles per Barrel. - Is the total 'Barrel Miles' (Item 2) divided by the total number of barrels handled during the month as used in calculating the daily average (Item 1-11).

SECTION VI. - OPERATING REVENUES:

To include only revenue derived from the transportation of oil or oil products and other operating revenues such as loading and terminalling charges, storage and demurrage charges, rent, and incidental and miscellaneous revenues arising from operations. Do not include "other income", such as dividends, interest, income from insurance or reserve funds, or income from miscellaneous physical properties which are not used in connection with the pipe line service of the carrier.

Note that this information is to be reported only on a quarterly basis, commencing with the 3 months ending March 31, 1951.

SECTIONS VII. and VIII. - TRAFFIC STATISTICS:

The information provided for in both Parts A and B of these Sections, is to be shown for each type or class of commodity carried according to the following classification:

1. Crude Oil - being oil in its natural state not altered, refined or processed for use.
2. Natural Gasoline - being gasoline in its natural state not altered, refined or processed for use. If blended with crude oil in transit, such should be classified as 'crude oil'.
3. Refined Gasoline - to include aviation gasoline, premium motor gasoline, regular motor gasoline and other motor gasolines.
4. Fuel and other Refined Oil - to include diesel oil, furnace oil, stove oil, bunker or fuel oil and other light fuel and refined oil.
5. Distillates and Residual Oils - to include naphtha specialties, kerosene, tractor distillate, lubricating oils and refinery fuels liquified.

Sub-totals should be entered for each of these five main commodity groups, to the extent applicable, in each statement.

Foreign Pipe Lines - are those situated beyond the Canadian border and are to be distinguished from Domestic Pipe Lines which are those situated in Canada.

In Column I of each statement, for each class or type of commodity carried as referred to above, give in Part A the name of the province and of the field area or other point at which shipments are received into the system and in Part B, give the name of the province and the terminal or other point at which shipments are delivered out of the system.

Examples for the entry of quantities received into the system or delivered out of the system, would be as follows:

RECEIVED INTO SYSTEM:

- (a) Oil received into a gathering line from the fields or wells of producers, say at Redwater, Alberta, or at any intermediate point in the gathering



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RECEIVED INTO SYSTEM: (Cont'd)

DATE DUE

system before it connects with a trunk line, would be entered in Column 2, Part A of Section VII.

- (b) Oil received into a trunk line from storage reservoirs, or in the case of a refined product direct from the refinery, say at Edmonton, Alberta, would be entered in Column 2, Part A of Section VIII.
- (c) Oil received from a foreign pipe line carrier, such as at the International Border on the Portland-Montreal pipe line, would be entered in Column 5, Part A of Section VIII.
- (d) Oil received from other Canadian pipe line carriers, would be entered either in Column 3, Part A of Section VII, (if received into a gathering system) or in Column 4, Part A of Section VIII, (if received into a trunk line system) as the case may be.
- (e) Oil received from other carriers, (railway tank car or motor truck), would be entered in Column 4, Part A of Section VII, or Column 6, Part A of Section VIII, as the case may be.
- (f) If a company operates both a gathering system and a trunk line system, oil received into the latter from its own gathering system will be shown separately in Column 3, Part A of Section VIII. (The contra entry to this will appear as a delivery in Column 4, Part B of Section VII.)

DELIVERED OUT OF SYSTEM

- (g) Oil delivered out of a gathering line before reaching a trunk line connection, say within the Redwater, Alberta, Field, would be entered in Column 5, Part B of Section VII.
- (h) Oil delivered out of a trunk line to a refinery, say at Regina, Saskatchewan, would be entered in Column 5, Part B of Section VIII.
- (i) Oil delivered to a foreign pipe line carrier, say the Lakehead Pipe Line Co. at Gretna, Manitoba, would be entered in Column 3, Part B of Section VIII.
- (j) Oil delivered to other Canadian pipe line carriers would be entered either in Column 2, Part B of Section VII, (if delivered out of a gathering system) or in Column 2, Part B of Section VIII, (if delivered out of a trunk line system), as the case may be.
- (k) Oil delivered to other carriers, (motor truck or railway tank car) would be entered in Column 3, Part B of Section VII, or Column 4, Part B of Section VIII, as the case may be.
- (l) If a company operates both a gathering system and a trunk line system, oil delivered out of the former to its own trunk line will be shown separately in Column 4, Part B of Section VII. (The contra entry to this will appear as a receipt in Column 3, Part A of Section VIII.)