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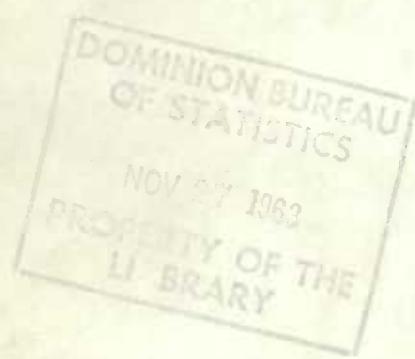
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THE CRUDE PETROLEUM AND NATURAL GAS  
INDUSTRY, 1961

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## EXPLANATORY NOTES

### Establishment

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

Materials and supplies used,  
Goods purchased for resale as such,  
Fuel and power consumed,  
Number of employees and their pay,  
Inventories,  
Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was

affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

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## SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- \* revised figures.

## THE CRUDE PETROLEUM AND NATURAL GAS INDUSTRY, 1961

This report includes statistics for industry 063—Petroleum and Gas Wells of the Standard Industrial Classification Manual (Catalogue No. 12-501).

For convenient reference this publication includes statistics for industry 065—Natural Gas Processing Plants of the Standard Industrial Classification Manual (Catalogue No. 12-501).

During 1961 the Canadian production of crude petroleum amounted to 220,848,080 barrels valued at \$487,560,242 compared with 189,534,221 barrels valued at \$422,926,497 in the preceding year.

Over 157 million barrels came from Alberta wells. The oil fields in Alberta which produced in excess of 3 million barrels were, Bonnie Glen, Fenn-Big Valley, Joarcam, Joffre, Leduc-Woodbend, Pembina, Redwater, Sturgeon Lake South, Swan Hills and Wizard Lake.

Production in Saskatchewan increased to 55.9 million barrels. The following oil fields each had an output in excess of 2 million barrels, Coleville-Smiley, Dollard, Midvale, Nottingham, Steelman, and Weybum.

Output in Manitoba continued to decline. Fields which produced over a million barrels were Vinden-Roselea and North Virden Scallion. Oil production in Ontario exceeded a million barrels. British Columbian output was over a million barrels. There was small increase in the output of the wells in the Northwest Territories. Less crude petroleum was produced in New Brunswick than in the preceding year.

Production of natural gas in Canada during 1961 amounted to 655,737,644 thousand cubic feet valued at \$68,421,918. These figures include the

natural gas sold for domestic, industrial and other uses and the gas used in the field by the well operators, but the gas which is allowed to go to waste is not included. Production in Ontario was valued at wholesale prices. In Alberta, the total output, less field waste, reproduction and meter differences, was valued at a nominal wellhead price.

The expansion of transmission and distribution pipelines in central Canada increased the demand for natural gas from the western provinces. Alberta gas increased to 500 billion cubic feet from 383 billion cubic feet in 1960. British Columbia increased the production to over 103 billion cubic feet as compared with over 85 billion cubic feet in the preceding year. The utilized natural gas from Saskatchewan wells amounted to over 37 billion cubic feet. Ontario natural gas decreased to about 14.5 billion cubic feet. There was less gas produced in New Brunswick and there was an increase in the Northwest Territories.

The average number of persons employed by the industry was 4,157 to whom \$23,647,883 were paid in salaries and wages. Fuel cost, \$2,841,117 and 123,368,150 kwh. of electricity were purchased for \$3,319,008. Process supplies were valued at \$8,343,324.

Prior to 1960 the general statistics referred to firms which had producing wells. In 1960 and 1961 some exploration firms were included.

In 1959 the principal statistics of the crude petroleum industry and the natural gas industry were combined into the crude petroleum and natural gas industry. For historical reference the data for the earlier years were recompiled and are shown in Table 1.

**TABLE 1. Principal Statistics of the Crude Petroleum and Natural Gas Industry,  
Significant Years, 1929-59**

Basis: Standard Industrial Classification prior to 1960

Year	Firms	Operating wells	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of production	Net value added by processing <sup>1</sup>
		number				dollars		
1929 .....	521	4,933	4,174	6,023,836	334,944	..	12,924,345	..
1931 .....	305	4,790	2,901	3,706,539	330,432	..	12,966,109	..
1933 .....	349	4,640	2,085	2,424,549	190,272	..	11,288,121	..
1937 .....	499	5,596	3,648	4,828,484	546,877	661,969	15,039,964	13,831,118
1939 .....	570	5,741	3,770	5,104,203	789,944	740,508	21,475,520	19,945,068
1941 .....	503	5,736	4,005	6,096,612	712,845	199,157	26,234,427	25,322,425
1944 .....	435	5,885	4,357	8,700,330	1,188,487	255,460	25,590,715	24,146,768
1946 .....	459	6,139	3,218	5,751,932	1,141,531	131,012	25,313,314	24,040,771
1949 .....	457	7,093	4,365	11,017,867	658,522	390,697	78,673,640	77,624,421
1950 .....	456	7,840	5,035	13,552,063	791,257	1,109,024	91,040,160	89,139,879
1951 .....	489	8,746	5,843	18,010,015	1,237,267	2,148,110	123,056,952	119,671,575
1954 .....	567	12,134	6,757	24,621,117	3,135,341	4,171,184	256,141,175	248,840,650
1955 .....	592	14,126	6,868	26,018,298	3,568,700	5,984,143	319,860,795	310,307,952
1956 .....	554	16,626	8,092	36,352,689	4,806,832	9,087,274	417,565,776	403,671,670
1957 .....	543	18,885	7,821	36,302,114	5,970,451	10,691,980	465,324,929	448,662,498
1958 .....	639	19,854	7,064	33,316,006	6,403,564	10,266,907	423,776,203	407,105,732
1959 .....	643	21,557	6,721	33,701,648	7,420,485	9,661,761	455,516,896	438,434,650

<sup>1</sup> Gross value of shipments less cost of fuel, electricity and process supplies.

**TABLE 2. Principal Statistics of the Crude Petroleum and Natural Gas Industry, 1957-1961**  
Basis: Standard Industrial Classification revised, 1960

Year	Establishments	Operating wells	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of production	Net value added by processing <sup>1</sup>
		number				dollars		
1957 .....	543 <sup>2</sup>	18,885	7,821	36,302,114	5,970,451	10,691,980	465,324,929	448,662,498
1958 .....	639 <sup>2</sup>	19,854	7,064	33,316,006	6,403,564	10,266,907	423,776,203	407,105,732
1959 .....	643 <sup>2</sup>	21,557	6,721	33,701,648	7,420,485	9,661,761	455,516,896	438,434,650
1960								
New Brunswick .....	1	67	18	63,097	4,859	4,412	171,410	162,139
Quebec .....	5	1	8	45,223	1,192	101	-	1,293
Ontario .....	215	2,880	226	666,345	94,877	439,265	7,647,437	7,113,295
Manitoba .....	42	803	96	476,657	145,540	15,953	10,693,034	10,531,541
Saskatchewan .....	115	4,486	868	4,545,086	1,229,955	813,903	107,679,858	105,636,000
Alberta .....	215	12,713	3,882	20,482,096	4,573,587	8,623,151	334,640,527	321,443,789
British Columbia .....	35	421	255	1,591,299	197,960	774,020	9,212,899	8,240,919
Northwest Territories .....	2	73	11	68,340	93,301	115,316	653,438	444,821
Yukon .....	7	2	7	43,286	13,396	171,690	-	- 185,086
Totals .....	637	21,446	5,371	27,981,429	6,354,567	10,957,811	470,698,603	453,386,125
1961								
New Brunswick .....	1	66	12	40,666	5,460	-	160,011	154,551
Ontario .....	195	2,820	210	577,604	90,620	223,313	7,339,635	7,025,702
Manitoba .....	32	765	94	470,018	135,740	35,290	10,147,840	9,976,810
Saskatchewan .....	124	4,734	856	4,811,525	1,294,439	601,153	116,749,859	114,854,267
Alberta .....	195	13,062	2,666	15,630,596	4,327,502	6,978,016	423,220,549	411,915,031
British Columbia .....	33	559	297	1,926,387	265,439	437,257	11,167,840	10,465,144
Northwest Territories .....	1	70	22	191,087	40,925	68,295	781,680	672,460
Totals .....	581	22,076	4,157	23,647,883	6,160,125	8,343,324	569,567,414	555,063,965

<sup>1</sup> Gross value of shipments less cost of fuel, electricity and process supplies.

<sup>2</sup> Prior to 1960 the figures in this column show the number of firms.

TABLE 3. Production of Crude Petroleum, by Provinces, 1960 and 1961

Province	1960		1961	
	Barrels	Value	Barrels	Value
New Brunswick .....	14,148	\$ 19,807	12,024	\$ 16,833
Ontario .....	1,005,030	3,150,065	1,149,087	3,546,740
Manitoba .....	4,764,045	10,690,384	4,480,348	10,156,000
Saskatchewan .....	51,908,428	103,957,099	55,860,104	115,719,791
Alberta .....	130,506,968	302,841,423	157,811,712	355,530,845
British Columbia .....	867,057	1,626,590	1,017,826	1,859,873
Northwest Territories .....	468,545	641,219	516,979	730,160
Totals .....	189,534,221	422,926,497	220,848,080	487,560,242

TABLE 4. Production of Crude Petroleum, 1952 - 61

Year	Barrels	Value	Year	Barrels	Value
		\$			\$
1952 .....	61,237,322	143,038,212	1957 .....	181,848,004	453,593,620
1953 .....	80,898,897	200,582,276	1958 .....	165,496,196	398,747,818
1954 .....	96,080,345	243,877,030	1959 .....	184,778,497	422,092,535
1955 .....	129,440,247	305,640,036	1960 .....	189,534,221	422,926,497
1956 .....	171,981,413	406,561,872	1961 .....	220,848,080	487,560,242

TABLE 5. Production of Crude Petroleum, by Provinces, 1952 - 61

Year	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Imperial gallons								
1952 .....	14,237	191,814	104,826	1,696,505	58,915,723	-	314,217	61,237,322
1953 .....	14,738	299,685	653,514	2,797,888	76,816,383	-	316,689	80,898,897
1954 .....	13,046	412,474	2,148,184	5,422,899	87,713,855	-	369,887	96,080,345
1955 .....	12,548	525,510	4,145,756	11,317,168	113,035,046	-	404,219	129,440,247
1956 .....	16,628	593,370	5,786,540	21,077,371	143,909,641	148,454	449,409	171,981,413
1957 .....	19,401	623,666	6,089,743	36,861,089	137,492,316	340,945	420,844	181,848,044
1958 .....	15,189	778,341	5,829,226	44,626,148	113,277,847	512,359	457,086	165,596,196
1959 .....	14,479	1,001,580	5,056,075	47,442,498	129,967,312	866,234	430,319	184,778,497
1960 .....	14,148	1,005,030	4,764,045	51,908,428	130,506,968	867,057	468,545	189,534,221
1961 .....	12,024	1,149,087	4,480,348	55,860,104	157,811,712	1,017,826	516,979	220,848,080

TABLE 6. Production of Crude Petroleum, by Months, 1961

Month	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
barrels of 35 Imperial gallons								
January .....	1,066	90,084	395,022	4,264,268	12,765,213	65,501	37,856	17,619,010
February .....	793	83,171	356,339	3,884,127	12,035,916	87,227	48,080	16,495,653
March .....	921	101,259	393,322	4,523,943	11,184,052	102,639	45,997	16,352,133
April .....	770	95,197	366,867	4,258,702	12,096,340	2,748	34,175	16,854,799
May .....	931	102,653	377,877	4,564,881	13,738,058	40,028	27,865	18,852,293
June .....	1,178	96,348	379,243	4,552,739	12,860,396	25,562	28,408	17,943,874
July .....	1,096	100,838	386,396	4,675,749	13,723,362	50,800	41,336	18,979,577
August .....	958	99,515	385,241	4,997,536	14,090,880	51,926	54,584	19,680,640
September .....	1,080	98,008	357,730	5,169,706	13,868,594	89,184	62,233	19,646,535
October .....	1,049	96,173	366,679	4,747,428	12,803,834	144,092	45,181	18,204,436
November .....	948	93,394	356,812	5,007,497	14,068,376	140,712	33,778	19,701,517
December .....	1,234	92,447	358,820	5,213,528	14,576,691	217,407	57,486	20,517,613
Totals .....	12,024	1,149,087	4,480,348	55,860,104	157,811,712	1,017,826	516,979	220,848,080

TABLE 7. Well Output of Crude Petroleum in Alberta, by Fields, 1959-61

Field	1959	1960 <sup>1</sup>	1961 <sup>1</sup>	Field	1959	1960 <sup>1</sup>	1961 <sup>1</sup>
barrels				barrels			
Acheson .....	2,056,804	1,752,445	2,255,059	Pembina .....	34,520,314	39,310,358	42,733,575
Bonnie Glen .....	5,951,008	5,064,747	6,343,722	Redwater .....	15,112,108	12,560,447	15,416,554
Erskine .....	1,260,449	1,262,579	1,272,820	Stettler .....	1,818,549	1,613,289	1,755,254
Fenn-Big Valley ...	6,199,976	5,466,087	6,111,136	Sturgeon Lake South	3,199,001	2,827,221	3,166,044
Gilby .....	512,809	1,453,785	1,456,869	Sundre .....	1,129,624	1,167,319	1,247,749
Golden Spike .....	1,758,758	1,516,973	2,852,353	Swan Hills .....	1,717,093	4,891,302	8,376,621
Harmattan-Elkton ..	1,845,919	1,414,660	2,184,331	Tumer Valley .....	1,352,518	1,207,584	1,147,974
Innisfail .....	2,259,940	2,256,634	2,524,727	Wainwright .....	982,489	749,111	604,518
Joarcam .....	3,410,524	3,394,695	3,322,581	West Drumheller.....	1,354,822	1,179,110	1,271,025
Joffre .....	6,326,789	6,184,434	5,666,283	Wizard Lake .....	2,719,898	2,301,274	3,469,534
Kaybob .....	1,203,855	1,976,214	2,409,558	Other areas .....	16,461,387	19,957,306	27,087,021
Keystone .....	2,214,595	—	—	<b>Totals, Alberta....</b>		<b>129,967,312</b>	<b>132,865,217</b>
Leduc-Woodbend ....	14,598,083	13,357,643	15,136,404	<b>Totals, Alberta....</b>		<b>157,811,712</b>	

<sup>1</sup> Includes field condensate.

TABLE 8. Well Output of Crude Petroleum in Saskatchewan, by Fields, 1960 and 1961

Field	1960	1961	Field	1960	1961
barrels				barrels	
Alameda .....	1,147,802	896,569	Nottingham .....	2,558,666	2,742,165
Alida .....	1,584,204	1,335,385	Queensdale .....	1,382,927	1,350,838
Carnduff .....	1,911,670	1,571,558	Steelman .....	8,460,855	8,450,279
Coleville-Smiley .....	2,269,178	2,010,618	Success .....	1,400,979	1,421,789
Dollard .....	4,034,094	4,029,599	Weyburn .....	10,687,067	11,741,155
Fosterton .....	1,951,053	1,986,983	Other areas .....	9,007,391	11,877,260
Instow .....	1,786,523	1,842,969	<b>Totals, Saskatchewan....</b>		<b>51,908,428</b>
Midale .....	3,726,019	4,602,937	<b>Totals, Saskatchewan....</b>		<b>55,860,104</b>

TABLE 9. Production of Crude Petroleum in Manitoba, by Fields, 1960 and 1961

Field	1960	1961	Field	1960	1961
barrels				barrels	
Daly .....	831,992	781,347	Routledge .....	392,056	422,519
Virden-Roselea .....	1,314,713	1,333,986	Tilston .....	27,952	24,742
North Virden Scallion .....	1,768,452	1,538,308	West Butler .....	7,224	8,020
Ebor .....	15,581	14,107	West Routledge .....	193,374	175,894
Kirkella .....	66,129	56,846	Whitewater .....	17,030	17,719
Lulu Lake .....	—	—	Woodnorth .....	42,139	30,688
Maples .....	37,989	30,325	Other areas .....	23,737	22,075
Pierson .....	25,677	23,772	<b>Totals, Manitoba....</b>		<b>4,764,045</b>
			<b>Totals, Manitoba....</b>		<b>4,480,348</b>

TABLE 10. Production of Crude Petroleum in Ontario, by Fields, 1961

County	Field or pool	Township	Producing formation	1961 barrels
Elgin .....	Rodney Wallacetown	Aldborough Dunwich	Columbus Dundee	348,810 1,745
Essex .....	Colchester Malden	Colchester South Malden	Trenton Trenton	105,655 2,774
Kent .....	Bothwell - Thamesville Dover Dresden Chatham	Zone, Camden, etc. Dover Camden, Chatham Chatham	Dundee - Columbus Trenton Guelph Guelph	9,933 854 4,103 6,038
Lambton .....	Becher Dawn Seckerton North Corunna Oil Springs Petrolia Wanstead Warwick Colinville Kimball Seckerton Shetland Telford	Sombra Dawn Moore Moore Enniskillen Enniskillen Brooke, Enniskillen Warwick Moore Moore Moore Euphemia Moore	Salina Salina - Guelph Guelph Guelph Dundee - Detroit River Dundee - Detroit River Guelph Guelph Salina - Guelph Salina Guelph Dundee Guelph	57,237 24,578 58,958 104,665 51,079 26,605 42,142 71,937 5,051 4,547 48,187 3,254 1,610
Middlesex .....	Glencoe Grand Bend	Mosa McGillivray	Dundee - Columbus Guelph	34,978 68,484
Oxford .....	Gables	Blenheim	Eau Claire	64,897
Other .....	Various	Various	Various	966
Total, Ontario .....				1,149,087

TABLE 11. Petroleum Wells, by Provinces, 1959-61

	New Brunswick	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Canada
number								
Productive wells at beginning of year:								
1959 .....	19	1,524	791	3,772	9,464	105	65	15,740
1960 .....	19	1,395	788	3,861	9,492	72	65	15,692
1961 .....	19	1,538	777	4,164	10,334	122	65	17,019
Number of productive wells drilled:								
1959 .....	—	55	25	467	1,211	61	—	1,819
1960 .....	—	65	36	402	1,308	50	—	1,861
1961 .....	—	54	9	502	849	91	—	1,505
Number of wells abandoned:								
1959 .....	—	52	33	476	298	2	—	861
1960 .....	—	35	35	97	280	—	—	447
1961 .....	—	33	32	147	287	31	—	530
Number of dry wells drilled:								
1959 .....	—	19	11	597	376	31	5	1,039
1960 .....	—	33	13	112	290	63	7	521 <sup>1</sup>
1961 .....	—	37	11	112	355	37	1	553
Number of productive wells in operation at end of year:								
1959 .....	19	1,527	783	3,763	10,377	164	65	16,698
1960 .....	19	1,425	789	4,166	10,520	122	65	17,106
1961 .....	19	1,559	754	4,519	10,896	182	65	17,994

<sup>1</sup> Includes 1 dry well in Quebec and 2 dry wells in the Yukon.

TABLE 12. Imports of Petroleum, Asphalt and their Products, 1960 and 1961

Item	1960		1961		
	Quantity	Value	Quantity	Value	
Asphaltum of asphalt, solid or not .....	cwt.	554,246	\$ 691,969	633,681	887,667
Asphalt oil for paving .....	gal.	1,315,494	138,831	1,224,261	128,361
Oil, imported by miners or mining companies, for the concentration of ores or metals .....	"	245,105	355,945	246,393	396,028
Crude petroleum for refining, .8155 specific gravity (42.0 A.P.I.) or heavier at 60° F .....	bbl.	125,559,631	283,172,198	133,249,113	291,169,754
Petroleum tops: blends of petroleum tops or petroleum products with crude petroleum: all the foregoing .7249 specific gravity (63.7 A.P.I.) or heavier at 60° F, when imported by oil refiners to be refined .....		—	—	—	—
Fuel oil, ex-warehoused, for ships' stores .....	gal.	471,882	36,877	604,232	49,584
Aviation gasoline .....	"	60,979,190	10,295,822	36,511,360	6,334,064
Kerosene, lighter than .8236 specific gravity at 60° F, n.o.p. ....	"	29,935,380	2,926,834	9,207,679	870,019
Engine distillate, .8017 specific gravity or heavier at 60° F .....	"	19,620	3,220	678	158
Gasoline, lighter than .8236 specific gravity at 60° F .....	"	31,036,182	4,494,053	25,773,714	3,929,003
Natural casinghead, compression or absorption gasoline, lighter than .6690 specific gravity (80.0 A.P.I.) at 60° F, when imported by refiners of crude petroleum for blending with gasoline wholly produced in Canada .....		—	—	—	—
Lubricating oils, composed wholly or in part of petroleum and costing less than 25 cents per gallon	gal.	20,836,171	4,579,353	11,636,791	2,564,885
Lubricating oils, 25 cents and over .....	"	20,184,714	8,246,313	26,804,447	10,859,052
Oils, mineral, n.o.p. ....	"	762,915	1,084,983	1,559,599	1,411,345
Stove oil, No. 1 fuel oil .....	"	128,472,935	12,678,957	87,529,567	9,774,582
Light fuel oils, Nos. 2 and 3 .....	"	244,354,195	21,703,222	257,689,232	23,411,345
Heavy fuel oils, Nos. 4, 5 and 6 .....	"	470,375,390	24,149,468	366,547,887	18,898,219
Diesel fuel .....	"	94,324,633	8,284,042	83,447,644	7,655,482
Tractor fuel .....		—	—	—	—
Petroleum greases and lubricating greases, n.o.p. ....	lb.	16,510,735	2,184,440	15,480,386	2,254,684
Refined petroleum jellies and oils for toilet, medicinal, edible or similar purposes .....		—	816,957	—	879,309
Paraffin wax .....	"	41,114,455	2,584,720	41,178,564	2,680,854
Paraffin wax candles .....	"	596,009	179,772	507,794	164,765
Products of petroleum, n.o.p. ....	gal.	32,348,966	5,501,546	35,712,905	6,502,869
Liquefied petroleum gases .....	"	5,293,419	1,067,915	3,431,536	813,382
Naphtha, including solvent naphtha .....	"	11,671,910	2,118,531	8,474,602	1,968,655

TABLE 13. Exports of Petroleum and its Products, 1960 and 1961

Item	1960		1961		
	Quantity	Value	Quantity	Value	
Petroleum, crude .....	bbl.	42,234,937	\$ 94,450,014	65,222,523	154,266,752
Oil, coal and kerosene, refined .....	gal.	607,390	65,869	..	..
Gasoline and naphtha .....	"	47,613,156	5,959,053	..	..
Fuel oil .....	"	25,369,055	2,126,802	..	..
Lubricating oil .....	"	212,993	80,282	..	..
Oil, mineral, n.o.p. ....	"	97,793	16,891	..	..
Wax, mineral .....	cwt.	5,547	55,390	..	..
Gasoline .....	gal.	..	..	19,955,043	2,442,967
Fuel oil no's 1, 2 and 3 .....	"	..	..	7,168,929	923,950
Fuel oil no's 4, 5 and 6 .....	"	..	..	25,565,845	1,790,136
Fuel oil n.e.s. ....	"	..	..	3,802,816	457,324
Lubricating oils and greases .....	"	..	..	70,057	78,689
Petroleum and coal products n.e.s. ....		..	..	..	1,606,952

TABLE 14. Canadian Crude Petroleum Supply, 1947-61

Year	Canadian production	Imports	Exports <sup>1</sup>	Apparent supply
barrels of 35 Imperial gallons				
1947 .....	7,692,492	69,076,848	—	76,769,340
1948 .....	12,286,660	77,633,674	—	89,920,334
1949 .....	21,305,348	75,680,992	—	96,986,340
1950 .....	29,043,788	80,124,402	—	109,168,190
1951 .....	47,615,534	84,237,399	341,780	131,511,153
1952 .....	61,237,322	82,751,160	1,424,456	142,564,028
1953 .....	80,898,897	81,627,460	2,507,314	160,019,043
1954 .....	96,080,345	78,883,670	2,344,948	172,619,067
1955 .....	129,440,247	86,792,460	14,833,971	201,398,736
1956 .....	171,981,413	106,641,358	42,908,086	235,714,685
1957 .....	181,848,004	111,905,473	55,674,229	238,079,248
1958 .....	165,496,196	104,038,800	31,679,333	237,855,663
1959 .....	184,778,497	115,288,643	33,362,234	266,704,906
1960 .....	189,534,221	125,559,631	42,234,937	272,858,915
1961 .....	220,848,080	133,249,113	65,222,523	288,874,670

<sup>1</sup> Exports were comparatively small prior to 1951 and may be neglected.

TABLE 15. Receipts of Crude Petroleum by Canadian Refineries, 1957-61

Year	Maritimes and Quebec	Ontario	Manitoba, Saskatchewan and Alberta	British Columbia and Northwest Territories	Canada
barrels					
1957					
Canadian .....	—	49,996,130	54,411,057	22,507,050	126,914,237
Imported .....	103,647,166	8,059,505	—	—	111,706,671
Totals .....	103,647,166	58,055,635	54,411,057	22,507,050	238,620,908
1958					
Canadian .....	—	60,329,816	52,899,634	21,284,548	134,513,998
Imported .....	103,383,037	4,061,704	—	—	107,444,741
Totals .....	103,383,037	64,391,520	52,899,634	21,284,548	241,958,739
1959					
Canadian .....	—	72,429,969	55,778,496	23,299,309	151,507,774
Imported .....	113,957,240	2,385,030	—	—	116,342,270
Totals .....	113,957,240	74,814,999	55,778,496	23,299,309	267,850,044
1960					
Canadian .....	—	72,100,463	53,101,900	24,057,382	149,259,745
Imported .....	123,173,075	3,651,133	—	—	126,824,208
Totals .....	123,173,075	75,751,596	53,101,900	24,057,382	276,083,953
1961					
Canadian .....	11,072	81,040,949	55,991,008	25,558,096	162,601,125
Imported .....	129,533,887	2,935,218	—	—	132,469,105
Totals .....	129,544,959	83,976,167	55,991,008	25,558,096	295,070,230

TABLE 16. World Crude Oil Production,<sup>1</sup> 1959-61

	1959	1960	1961
thousands of barrels			
North America:			
Canada .....	184,778	191,842	220,861
Cuba <sup>2</sup> .....	192	108 <sup>3</sup>	134
Mexico .....	96,393	99,049	106,773
Trinidad .....	40,919	42,357	45,768
United States .....	2,574,590	2,574,933	2,621,758
<b>Totals</b> .....	<b>2,896,872</b>	<b>2,908,289</b>	<b>2,995,294</b>
South America:			
Argentina .....	44,710	64,232	84,631
Bolivia .....	3,170	3,574	3,090
Brazil .....	23,590	29,613	34,817
Chile .....	6,428	7,231	9,263
Columbia .....	53,576	55,666	53,383
Ecuador .....	2,759	2,730	3,027
Peru .....	17,733	19,255	19,374
Venezuela .....	1,011,452	1,041,708	1,065,757
<b>Totals</b> .....	<b>1,163,418</b>	<b>1,224,009</b>	<b>1,273,342</b>
Europe:			
Albania .....	3,504	3,650	4,337
Austria .....	16,946	16,874	15,992
Bulgaria .....	1,402	1,460	1,504
Czechoslovakia .....	803	730	1,045
France .....	11,594	14,229	15,673
Germany, West .....	36,981	40,076	44,052
Hungary .....	7,665	8,760	11,123
Italy (including Sicily) .....	11,551	13,545	13,423
Netherlands .....	12,367	13,378	14,024
Poland .....	1,277	1,460	1,501
Rumania .....	83,492	87,600	85,775
U.S.S.R. <sup>4</sup> .....	945,340	1,080,400	1,204,500
United Kingdom .....	621	649	810
Yugoslavia .....	4,188	6,671	9,474
<b>Totals</b> .....	<b>1,137,731</b>	<b>1,289,482</b>	<b>1,423,233</b>
Africa:			
Algeria .....	10,625 <sup>5</sup>	67,408 <sup>5</sup>	121,748
Angola .....	361	477	754
Congo, Republic of .....	—	365	770
Gabon Republic .....	5,295	5,626	5,670
Libya .....	—	—	6,642
Morocco, Southern Zone .....	712	695	603
Nigeria .....	4,067	6,552	16,802
Senegal .....	—	—	17
United Arab Republic (Egypt Region) .....	21,303	23,968	26,729
<b>Totals</b> .....	<b>42,363</b>	<b>105,091</b>	<b>179,135</b>
Asia:			
Bahrain .....	16,473	16,500	16,444
Burma .....	3,967	4,078	4,199
China <sup>3</sup> .....	15,330	26,280	17,630
India .....	3,377	3,370	3,331
Indonesia .....	139,038	152,988	6
Iran .....	344,800	390,754	430,856
Iraq .....	311,193	353,833	365,360
Israel .....	925	930	978
Japan .....	2,852	3,678	4,560
Kuwait .....	504,855	594,278	600,226
Kuwait - Neutral Zone .....	42,438	49,829	64,405
Pakistan .....	2,333	2,636	2,822
Qatar .....	61,431	63,088	64,675
Sarawak and Brunei .....	40,072	34,005	6
Saudi Arabia .....	399,821	456,453	508,269
Taiwan (Formosa) .....	13	14	17
Thailand .....	—	—	18
Turkey .....	2,700	2,624	3,083
<b>Totals</b> <sup>4</sup> .....	<b>1,891,618</b>	<b>2,155,338</b>	<b>2,086,873</b>

See footnotes at end of table.

TABLE 16. World Crude Oil Production,<sup>1</sup> 1959-61 - Concluded

	1959	1960	1961	thousands of barrels
Oceania:				
Brunei-Sarawak .....	-	-		30,551
Indonesia .....	-	-		155,182
New Zealand .....	5	5 <sup>3</sup>		4
Philippines .....	-	-		5
West New Guinea .....	1,656	1,538		1,086
<b>Totals</b> .....	<b>1,661</b>	<b>1,543</b>		<b>186,828</b>
<b>World totals</b> .....	<b>7,133,663</b>	<b>7,683,752</b>		<b>8,144,705</b>

<sup>1</sup> This table incorporates some revisions.<sup>2</sup> Natural naphtha and gas oil.<sup>3</sup> Estimate.<sup>4</sup> U.S.S.R. in Asia (including Sakhalin) included with U.S.S.R. in Europe.<sup>5</sup> Including Sahara.<sup>6</sup> Under Oceania.

TABLE 17. Production of Natural Gas, 1952-61

Year	Quantity	Value		Year	Quantity	Value
				M cu. ft.		
1952 .....	88,686,465	9,517,638	1957 .....	220,006,682	20,962,501	
1953 .....	100,985,923	10,877,017	1958 .....	337,803,726	32,057,536	
1954 .....	120,735,214	12,482,109	1959 .....	417,334,527	39,609,393	
1955 .....	150,772,312	15,098,508	1960 .....	522,972,327	52,196,882	
1956 .....	169,152,586	16,849,556	1961 .....	655,737,644	68,421,918	

TABLE 18. Production of Natural Gas, by Provinces, 1952-61

Year	New Brunswick	Ontario	Saskat-chewan	Alberta	British Columbia	Northwest Territories	Canada
							M cubic feet
1952 .....	202,042	8,302,190	1,007,491	79,149,895	-	24,847	88,686,465
1953 .....	177,112	9,708,969	1,422,128	89,651,605	-	26,109	100,985,923
1954 .....	183,457	10,015,818	3,333,077	107,173,777	-	29,085	120,735,214
1955 .....	186,549	10,852,857	6,706,743	133,007,493	-	18,670	150,772,312
1956 .....	190,322	12,811,618	9,807,697	146,133,893	187,846	21,210	169,152,586
1957 .....	176,417	14,400,913	13,994,347	183,140,820	8,274,942	19,243	220,006,682
1958 .....	123,957	16,147,986	18,819,795	239,049,591	63,638,297	24,100	337,803,726
1959 .....	117,502	16,839,236	33,612,966	297,568,926	69,128,708	67,189	417,334,527
1960 .....	98,701	16,987,056	36,571,633	383,682,986	85,592,166	39,785	522,972,327
1961 .....	96,318	14,544,165	37,192,595	500,843,900	103,018,988	41,678	655,737,644

TABLE 19. Production<sup>1</sup> of Natural Gas, by Provinces, 1960 and 1961

Province	1960		1961	
	Quantity	Value	Quantity	Value
	M cu. ft.	\$	M cu. ft.	\$
New Brunswick .....	98,701	151,603	96,318	143,215
Ontario .....	16,987,056	6,573,990	14,544,165	5,614,048
Saskatchewan .....	36,571,633	3,722,992	37,192,595	4,050,274
Alberta .....	383,682,986	34,148,675	500,843,900	48,882,365
British Columbia .....	85,592,166	7,587,403	103,018,988	9,714,690
Northwest Territories .....	39,785	12,219	41,678	17,326
<b>Totals</b> .....	<b>522,972,327</b>	<b>52,196,882</b>	<b>655,737,644</b>	<b>68,421,918</b>

<sup>1</sup> Sold and used by producers.

TABLE 20. Production<sup>1</sup> of Natural Gas, by Months and by Provinces, 1961

Month	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Canada <sup>2</sup>
M cu. ft.						
January .....	13,736	2,397,116	3,588,506	47,072,465	8,533,221	61,608,928
February .....	11,980	1,580,802	2,877,900	43,090,092	8,354,595	55,918,811
March .....	8,537	1,607,000	3,334,605	44,640,205	9,580,328	59,174,030
April .....	8,267	1,067,000	3,267,750	40,146,033	9,024,740	53,517,011
May .....	8,598	775,548	2,845,557	37,320,243	8,666,983	49,619,491
June .....	7,358	644,033	2,280,248	33,377,209	7,700,914	44,012,421
July .....	6,912	495,109	2,260,892	32,732,673	7,661,719	43,160,296
August .....	6,627	542,824	2,664,725	34,500,138	7,900,774	45,616,930
September .....	6,843	596,053	2,883,117	36,161,121	8,131,763	47,781,138
October .....	6,766	1,070,210	3,334,325	42,152,416	8,362,158	54,927,952
November .....	4,907	1,598,520	3,709,293	48,036,330	8,967,299	62,320,289
December .....	5,787	2,169,950	4,145,677	61,614,975	10,134,494	78,080,347
<b>Totals .....</b>	<b>96,318</b>	<b>14,544,165</b>	<b>37,192,595</b>	<b>500,843,900</b>	<b>103,018,988</b>	<b>655,737,644</b>

<sup>1</sup> Sales and consumption by producers.<sup>2</sup> Includes 41,678 M cu. ft. in the Northwest Territories.

TABLE 21. Production of Natural Gas in Ontario, by Fields, 1961

County	Field	Producing formation	1961 M cu. ft.
Brant .....	Tuscarora .....	Thorold .....	406,085
Elgin .....	Cowal .....	Salina Guelph .....	—
	Richmond Eden and Vienna .....	Clinton Whirlpool .....	35,145
	Townline and Woodgreen .....	Salina .....	754
Essex .....	Staples .....	Guelph .....	8,185
	Kingsville .....	Guelph .....	18,072
	Leamington .....	Guelph .....	1,649
Halton .....	Acton .....	Gull River .....	39,663
Haldimand .....	Haldimand .....	Clinton, Grimsby Whirlpool .....	859,086
Lincoln .....			
Wentworth .....			
Kent .....	Guilds .....	Salina .....	54,474
	Dresden .....	Guelph .....	68,137
	Camden Gore .....	Salina .....	17,937
	Chatham .....	Salina Guelph .....	134,804
	Declute .....	Salina Guelph .....	644,030
	Dover .....	Trenton .....	52,551
	Wolfe .....	Salina .....	5,444
	Morpeth .....	Salina .....	320,221
	Tilbury .....	Salina Guelph .....	1,960,698
	Zone .....	Salina Guelph .....	172,173
	Lake St. Clair .....	Guelph .....	9,464
Lambton .....	East Becher .....	Guelph .....	35,302
	West Becher .....	Salina Guelph .....	447,622
	Bickford .....	Salina Guelph .....	2,179,241
	Colinville-Kimball .....	Salina Guelph .....	1,133,822
	Corunna .....	Salina Guelph .....	321,608
	Dawn, miscellaneous .....	Salina Guelph .....	43,966
	Dawn 156 .....	Salina Guelph .....	1,753,656
	Mandaumin .....	Guelph .....	203,093
	Seckerton .....	Salina Guelph .....	1,205,682
	Sombra .....	Guelph .....	84,508
	Waubuno .....	Salina Guelph .....	341,871
Middlesex and Elgin .....	Wardsville .....	Salina Guelph .....	191,515
Norfolk .....	Norfolk .....	Clinton, Grimsby .....	1,037,573
Oxford .....	Norwich South and Gobles .....	Irondequoit and Eau Claire .....	260,416
Welland .....	Welland .....	Grimsby Whirlpool and Irondequoit .....	305,076
Huron .....	Bayfield, Dashwood and Zurich .....	Guelph .....	190,639
<b>Total, Ontario .....</b>			<b>14,544,165</b>

TABLE 22. Number of Gas Wells, by Provinces, 1959-61

	New Brunswick	Ontario	Saskatchewan	Alberta	British Columbia	Canada
number						
Productive wells at beginning of year .. 1959	47	3,011	19	383	16	3,476
1960	47	3,006	235	1,541	158	4,987
1961	47	2,866	116	1,751	230	5,010
Number of productive wells drilled .....	—	91	—	32	5	128
1959	—	76	10	220	35	341
1960	—	41	9	256	57	364 <sup>1</sup>
1961	—	25	4	47	20	97 <sup>1</sup>
Number of dry wells drilled .....	2	43	—	9	4	58
1959	1	40	6	83	14	144
1960	—	—	4	47	20	97 <sup>1</sup>
1961	—	—	—	45	3	127
Number of wells abandoned .....	—	93	—	2	—	95
1959	—	175	30	38	4	247
1960	—	79	—	45	3	127
Productive wells at end of year .....	47	3,009	19	413	21	3,509
1959	47	2,907	215	1,723	189	5,081
1960	47	2,828	125	1,962	284	5,247 <sup>1</sup>

<sup>1</sup> Includes 1 well in the Northwest Territories.TABLE 23. Natural Gas Pipe Line Mileage of the Gas Utilities and the Gas Pipe Line Transport Industries<sup>1</sup>, by Province, as at December 31, 1956-61

	1956 <sup>2,3</sup>	1957	1958 <sup>r</sup>	1959 <sup>r</sup>	1960 <sup>4</sup>	1961 <sup>4</sup>
miles						
Gathering:						
New Brunswick .....	10	10.6	10.6	10.6	6.5	6.4
Quebec .....	—	—	—	—	—	—
Ontario .....	851	941.2	940.4	955.4	909.5	1,313.9
Manitoba .....	—	—	—	—	—	—
Saskatchewan .....	99	91.8	269.2	278.2	286.3	274.5
Alberta .....	948	972.0	1,675.9	1,857.6	2,067.6	2,852.3
British Columbia .....	6	120.5	212.5	337.5	410.4	429.4
<b>Totals .....</b>	<b>1,914</b>	<b>2,136.1</b>	<b>3,108.6</b>	<b>3,439.3</b>	<b>3,680.3</b>	<b>4,876.5</b>
Transmission:						
New Brunswick .....	11	11.4	11.4	11.4	13.4	13.4
Quebec .....	—	26.5	26.5	25.0	25.0	25.0
Ontario .....	1,284	2,519.6	3,466.1	3,528.6	3,565.9	3,135.0
Manitoba .....	—	354.0	375.0	391.3	444.0	456.9
Saskatchewan .....	635	1,093.2	1,395.2	1,782.9	2,102.5	2,274.3
Alberta .....	1,797	2,127.3	2,581.2	3,094.5	3,452.5	4,087.5
British Columbia .....	37	1,101.6	1,101.7	1,103.5	1,112.3	1,224.7
<b>Totals .....</b>	<b>3,764</b>	<b>7,233.6</b>	<b>8,957.1</b>	<b>9,937.2</b>	<b>10,715.6</b>	<b>11,216.8</b>
Distribution:						
New Brunswick .....	65	65.4	65.4	65.4	32.1	32.3
Quebec .....	—	962.5	971.1	1,027.4	1,115.1	1,123.6
Ontario .....	4,667	5,769.9	8,094.9	9,144.3	9,528.8	10,183.9
Manitoba .....	146	433.0	509.8	690.3	833.8	853.6
Saskatchewan .....	339	879.3	946.7	1,060.0	1,205.3	1,272.8
Alberta .....	1,879	2,075.0	2,201.9	2,455.0	2,675.6	2,895.7
British Columbia .....	925	1,902.1	2,379.9	2,709.3	3,028.3	3,182.8
<b>Totals .....</b>	<b>8,021</b>	<b>12,087.2</b>	<b>15,169.7</b>	<b>17,151.7</b>	<b>18,419.0</b>	<b>19,544.7</b>
<b>Grand totals .....</b>	<b>13,699</b>	<b>21,456.9</b>	<b>27,235.4</b>	<b>30,528.2</b>	<b>32,814.9</b>	<b>35,638.0</b>

<sup>1</sup> Includes pipe line mileage of producing companies.<sup>2</sup> Source: Department of Mines and Technical Surveys questionnaire returns and estimates.<sup>3</sup> Does not include 210 miles of Trans-Canada pipe line laid in 1956.<sup>4</sup> Breakdown of pipeline mileage is not precisely comparable with previous years because of reclassification and surveys.

TABLE 24. Sales<sup>1</sup> of Manufactured and Natural Gas, 1960 and 1961

	1960			1961		
	Number of customers	Quantity sold	Revenue from sales	Number of customers	Quantity sold	Revenue from sales
Manufactured gas: <sup>2</sup>		M cu. ft.	\$		M cu. ft.	\$
Domestic (including house heating) .....	12,096	636,640	726,759	..	..	..
Industrial .....	71	920,313	250,763	..	..	..
Commercial .....	837	187,094	217,114	..	..	..
Miscellaneous .....	—	—	—	..	..	..
<b>Totals</b> .....	<b>13,004</b>	<b>1,744,047</b>	<b>1,194,636</b>	<b>7,258</b>	<b>1,979,777</b>	<b>1,181,508</b>
Natural gas: <sup>3</sup>						
Domestic .....	1,099,448	110,132,901	106,952,695	1,176,142	122,207,511	121,583,218
Industrial .....	7,403	164,233,744	52,851,409	8,179	200,337,157	65,537,393
Commercial .....	96,135	51,121,809	34,656,491	100,657	57,778,309	40,140,430
Miscellaneous .....	133	120,957	46,743	—	—	—
<b>Totals</b> .....	<b>1,203,119</b>	<b>325,609,411</b>	<b>194,537,338</b>	<b>1,284,978</b>	<b>380,322,977</b>	<b>227,261,041</b>
<b>Totals, all gas</b> .....	<b>1,216,123</b>	<b>327,353,458</b>	<b>195,731,974</b>	<b>1,292,236</b>	<b>382,302,754</b>	<b>228,442,549</b>

<sup>1</sup> Sales by distributing companies to final consumers; amounts used by producers are not included.<sup>2</sup> At 14.73 pounds per square inch absolute 60° F. and 500 B.T.U.<sup>3</sup> At 14.73 per square inch absolute 60° F. and 1000 B.T.U.TABLE 25. Sales<sup>1</sup> of Natural Gas, by Areas, 1961

	Domestic (including house heating)	Industrial	Commercial	Miscellaneous
New Brunswick .....	78,088	—	10,271	—
Quebec .....	5,600,633	16,904,769	1,704,957	—
Ontario .....	47,960,220	61,541,428	15,685,821	—
Manitoba .....	6,331,904	6,667,756	3,489,142	—
Saskatchewan .....	11,671,640	18,269,531	5,496,841	—
Alberta .....	39,001,044	82,885,484	27,398,918	—
British Columbia .....	11,563,982	14,068,189	3,992,359	—
<b>Totals</b> .....	<b>122,207,511</b>	<b>200,337,157</b>	<b>57,778,309</b>	<b>—</b>

<sup>1</sup> Data is subject to revision.

TABLE 26. Employees and their Earnings in the Crude Petroleum and Natural Gas Industry,  
1960 and 1961

	Employees						Earnings		
	Office and administration		Workmen		Total	Office and administration	Workmen	Total	
	Male	Female	Male	Female					
number						dollars			
1960									
New Brunswick .....	—	—	18	—	18	—	63,097	63,097	
Quebec .....	2	—	6	—	8	21,600	23,623	45,223	
Ontario .....	38	16	171	1	226	206,873	459,472	666,345	
Manitoba .....	16	3	77	—	96	110,483	366,174	476,657	
Saskatchewan .....	249	46	569	4	868	1,867,205	2,677,881	4,545,086	
Alberta .....	777	164	2,857	84	3,882	5,725,542	14,756,554	20,482,096	
British Columbia .....	151	25	79	—	255	1,132,748	458,551	1,591,299	
Northwest Territories .....	7	—	4	—	11	43,795	24,545	68,340	
Yukon .....	2	—	5	—	7	5,610	37,676	43,286	
<b>Totals</b> .....	<b>1,242</b>	<b>254</b>	<b>3,786</b>		<b>5,371</b>	<b>9,113,856</b>	<b>18,867,573</b>	<b>27,981,429</b>	
1961									
New Brunswick .....	—	—	12	—	12	—	40,666	40,666	
Ontario .....	17	14	179	—	210	88,642	488,962	577,604	
Manitoba .....	18	2	74	—	94	112,673	357,345	470,018	
Saskatchewan .....	277	50	526	3	856	2,109,948	2,701,577	4,811,525	
Alberta .....	457	102	2,096	11	2,666	3,856,694	11,773,902	15,630,596	
British Columbia .....	116	7	174	—	297	838,092	1,088,295	1,926,387	
Northwest Territories .....	1	—	21	—	22	11,081	180,006	191,087	
<b>Totals</b> .....	<b>886</b>	<b>175</b>	<b>3,082</b>		<b>4,157</b>	<b>7,017,130</b>	<b>16,630,753</b>	<b>23,647,883</b>	

TABLE 27. Employees and their Earnings in the Crude Petroleum and Natural Gas Industry,  
1957-61

Year	Employees						Man-hours worked (all employees)	Earnings		
	Administration		Workmen		Total	Administration	Workmen	Total		
	Male	Female	Male	Female						
number						dollars				
1957 .....	1,599	340	5,764	118	7,821	18,726,650	9,910,576	26,391,538	36,302,114	
1958 .....	1,570	314	5,082	98	7,064	16,622,903	10,345,287	22,970,719	33,316,006	
1959 .....	1,329	310	4,989	93	6,721	14,470,594	9,926,584	23,775,064	33,701,648	
1960 .....	1,242	254	3,786	89	5,371	11,183,693	9,113,856	18,867,573	27,981,429	
1961 .....	886	175	3,082	14	4,157	9,008,189	7,017,130	16,630,753	23,647,883	

Note: Administration employees include executives, managers, superintendents, other working officials and professional and clerical employees.

**TABLE 28. Workmen, by Months, in the Crude Petroleum and Natural Gas Industry, 1960 and 1961**  
 (Number on pay-roll on the last work-day of each month)

Month	1960			1961		
	Male	Female	Total	Male	Female	Total
January .....	3,518	83	3,601	3,176	10	3,186
February .....	3,504	86	3,590	3,183	11	3,194
March .....	3,492	82	3,574	3,154	12	3,166
April .....	3,505	84	3,589	3,045	13	3,058
May .....	3,927	78	4,005	3,062	13	3,075
June .....	4,050	94	4,144	3,080	14	3,094
July .....	3,999	92	4,091	3,088	14	3,102
August .....	4,020	102	4,122	3,046	13	3,059
September .....	3,981	90	4,071	2,975	14	2,989
October .....	3,873	88	3,961	2,927	13	2,940
November .....	3,722	85	3,807	2,962	13	2,975
December .....	3,468	86	3,554	3,011	14	3,025
<b>Averages</b> .....	<b>3,786</b>	<b>89</b>	<b>3,875</b>	<b>3,082</b>	<b>14</b>	<b>3,096</b>
<i>Total man-hours worked</i> .....			<i>8,136,913</i>			<i>6,710,512</i>

**TABLE 29. Fuel and Electricity Used in the Crude Petroleum and Natural Gas Industry, 1961**

Kind		Quantity	Cost at plant
			\$
Bituminous coal (a) From Canadian mines .....	short ton	1	25
(b) Imported .....		—	—
Sub-bituminous coal (from Alberta mines only).....		—	—
Anthracite coal .....	short ton	7	269
Lignite coal .....	"	1	9
Coke (for fuel only) .....	"	1	28
Gasoline, (includes gasoline used in cars and trucks) .....	Imp. gal.	5,962,733	2,378,205
Kerosene or coal oil .....	"	2,528	711
Fuel oil .....	"	1,206,198	252,324
Wood (cords of 128 cubic feet of piled wood) .....		—	—
Gas (a) Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	473,850	80,123
(b) Other manufactured gas .....		—	—
(c) Natural gas .....	M cu. ft.	1,207,132	129,423
Other fuel .....		...	—
Electricity purchased for power and lighting .....	kwh.	123,368,150	3,319,008
Electricity purchased for other purposes .....		—	—
<b>Totals</b> .....		...	<b>6,160,125</b>
Electricity generated (a) For own use .....	kwh.	1,317,436	..
(b) For sale .....		—	—

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961

Name	Address	Location of field
<b>New Brunswick:</b>		
New Brunswick Oilfields Ltd.	Box 194, Moncton	Stoney Creek
<b>Ontario:</b>		
A. & C. Gas Syndicate	Ridgeway	Bertie
Able Land & Minerals Ltd.	67 Yonge St., Toronto	Aldborough
Albino Gas Ltd.	100 Adelaide St. W., Toronto	Welland
Albot Gas & Oil Ltd.	10 Adelaide St. E., Toronto	Aldborough
Allegany Producing Corporation	313 North Main St., Wellsville, New York, U.S.A.	Glencoe
Anchor Petroleum Ltd.	67 Richmond St. W., Toronto	Mosa
Annett, S.C.	Bothwell	Euphemia
Anthony Gas & Oil Explorations Ltd.	Acton	Speyside and Hornby
Arno Mines Ltd.	62 Richmond St. W., Toronto	Dunn
Atkinson, J.	Petrolia	Petrolia
Ayrheart, E.J.	Oil Springs	Oil Springs
Bates, N.	Port Colborne	Port Colborne
Beacon, M. T. & Greenacres, Syndicate	102E. Campus Drive, Snyder, N.Y., U.S.A.	Humberstone and Bertie
Beaver Gas (J.A. Ruegg)	Ridgeway	Bertie
Benner, K.W.	Fisherville	Rainham and Walpole
Bertie Oil & Gas Ltd.	100 Adelaide St. W., Toronto	Bertie
Bertie Township Gas & Oil Syndicate	Fisherville	Bertie and Willoughby
Big Seven Gas Syndicate	Fisherville	Rainham
Bluewater Oil & Gas Ltd.	203 Oil Exchange Bldg., Calgary, Alberta	Various
Bolivar Gas Company	300 Main St., Bolivar, New York, U.S.A.	Walsingham North and South
Booth, Anna	R.R. 2, Niagara Falls	Willoughby and Bertie
Bova Gas & Development Co. Ltd.	1718 Statler-Hilton Hotel, Buffalo, New York, U.S.A.	Charlotteville and Windham
Bradley, M.	Petrolia	Petrolia
Brennan, R.J.	101 Main St., Bradford, Penn., U.S.A.	Petrolia
Buck, C.S. Estate	London	Port Rowan
Byers Bros.	Oil Springs	Enniskillen
Byers, Irving	Oil Springs	Enniskillen
Camerina Petroleum Corporation	2 Wall St., New York 5, New York, U.S.A.	D'Clute
Canada-Cities Service Petroleum Corporation	801 South West St., Olney, Illinois, U.S.A.	Rodney
Cango Development Ltd.	132 Canden Ave., Buffalo 16, New York, U.S.A.	Chatham
Can-York Prospecting Syndicate	Fort Erie	Bertie
Caughell Bros.	Dunnville	Dunnville
Colborne Natural Gas Syndicate	Stevensville	Bertie
Cole, W.J.	Petrolia	Petrolia
Colonial Petroleum Ltd.	Chatham	Dawn
Comfort, N.	102 Inshes Ave., Chatham	Tunks and Duphette
Consolidated West Petroleum Ltd.	120 Eglinton Ave. E., Toronto 12	Tilbury and Malden
Copeland, Russell	Petrolia	Petrolia
Coronation Gas Syndicate	Stevensville	Bertie
Crowland Gas Ltd.	Box 160, Fort Erie	Welland
D. & M. Syndicate	Fort Erie	Bertie
Dubaris, F.	Dunnville	Dunn
Dawson, R.	Merlin	Tilbury East
Deanna Lee Gas Syndicate	Iroquois	Bertie
Deli-Burn Gas Ltd.	Fort Erie	Welland
De Mers, Victor E.	Petrolia	Oil Springs and Petrolia
Dickout Bros.	Lowbanks	Moulton
Donald, A. & K.	Oil Springs	Oil Springs
Donald, R.	Petrolia	Petrolia
Donalga Company	Hope River, Prince Edward Island	Langton
Edmund Gas Syndicate	Port Colborne	Humberstone
Edward, F.H.	Petrolia	Petrolia
Ehde, Arthur L.	Lowbanks	Moulton
Elgin Petroleum Corp. Ltd.	Rodney	Rodney
Emerson, H.L.	Dunnville	Moulton, and Canboro
Fairbank, J.H. Estate	Petrolia	Oil Springs
Felmont Oil Corporation	Box 1188, Owensboro, Kentucky, U.S.A.	Rodney
Fendrich, L. & G. Mozer	Tillsonburg	Charlottesville
Fisherville Gas Syndicate	Fisherville	Rainham
Fleet Manufacturing Ltd.	Fort Erie	Bertie
Fletcher, Eva	Glanford Station	Binbrook
Flood Oils Ltd.	870 Lakeshore Rd., Sarnia	Oil Springs
Foreign Exploration Corp. Ltd.	121 Richmond St. W., Toronto	Long Point Bay
Fox, Edward S.	Welland	Thorold
Freer, John	Kerwood	Metcalfe
George, A.	Fort Erie	Bertie
Glenard Ltd.	Dunnville	Norfolk
Grand River Gas Ltd.	Canfield	Cayuga North
Grimsby Natural Gas Co. Ltd.	Grimsby	Calstor and Gainsboro
Gurnell, N. & M.	Stevensville	Humberstone
Haldimand Gas & Oil Wells Ltd.	Cayuga	Various
Haldimand Natural Gas Syndicate	Stevensville	Bertie
Hallborg, L.	Port Colborne	Humberstone
Heise & Marton Gas Syndicate	114 Church St., Welland	Welland
Hercules Gas Syndicate	368 Ridge St., Ridgeway	Moulton
Highbank Oil Limited	62 King St., W., Chatham	Raleigh
Holmes, E.B.	Bothwell	Bothwell
House, C.C. Estate	Stevensville	Bertie
Imperial Oil Ltd.	Box 4029 Terminal A, Toronto	Various
J. & J. Gas Co.	211 George St., Dunnville	Dunn
J.V.T. Natural Gas Syndicate	102 East Campus Drive, Snyder, New York, U.S.A.	Willoughby
Jackson, P.L.	211 George St., Dunnville	Various
Jarvis Hereford Farms	Jarvis	Walpole
Jewell & Morningstar	Oil Springs	Enniskillen
Kells, Ernest E.	Petrolia	Enniskillen
Keraadec Petroleum Ltd.	80 King St. W., Toronto 1	Chatham and Camden Gore
Kerr, J. & J. Co. Ltd.	Dunnville	Enniskillen
Kinsey, O. & L. Estate	Bothwell	Haldimand
Kodyen, E.A.	Niagara Falls	Bothwell
Lapp Estate	Stevensville	Bertie
Lapp & Arendt	Fort Erie	Stevensville
Lejeune, Louis F.		Bertie

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961 — Continued

Name	Address	Location of field
<b>Ontario—Continued:</b>		
Lewis, Clifton B.	Petrolia	Petrolia
Lewis, W.G.	Oil Springs	Enniskillen
Linda Lee Syndicate	Ridgeway	Bertie, Willoughby and Crowland
Long Point Gas & Oil Ltd.	357 Bay St., Toronto	Norfolk and Haldimand
Lowbanks Gas Co. Ltd.	Dunnville	Haldimand
M. & E. Enterprises	Weiland	Weiland
MacAnn Wall Prospecting Syndicate	1450 Broadway, Buffalo, N.Y., U.S.A.	Bertie
MacIntyre & Hawkins	26 Wintemute, Fort Erie	Humberstone
Maguire, J.	Clifford	Walpole and Woodhouse
Marcus, Louis A.	Wallacetown	Dunwich
McGaffey, Braun & Braun	Box 55, Bothwell	Euphemia
McKechnie, Sam Estate	Dunnville	Walpole
McMaster, R. & Sons Co. Ltd.	Caledonia	Gobels
McPherson, Ross Lionel Drilling Ltd.	88 Thompson Blvd., Riverside	Harwich
Medina Gas Syndicate	Weiland	Crowland
Meyers, Paul	397 Niagara Blvd., Fort Erie	Willoughby
Mile 18 Mines Ltd.	62 Richmond St. W., Toronto 1	Haldimand
Minor & Luck	Dundas	Sherbrooke
Mitchell, Charles	Oil Springs	Oil Springs
Mitchell, Gerald	Oil Springs	Enniskillen
Monarch Gas & Oil Syndicate	Fisherville	Walpole
Monte Natural Gas Syndicate	102 East Campus Drive, Snyder 26, New York, U.S.A.	Weiland
Morningstar, George	Oil Springs	Enniskillen
Morningstar, H.M.	Oil Springs	Oil Springs
Morningstar, R.	Ridgeway	Ridgeway
Morrison, Doris E.	Langton	Walsingham North
Mulgrove Gas Syndicate	Stevensville	Bertie
Murdoch, Watson W.	R.R. 9 Dunnville	Dunn
N.Y.K. Oil (Canada) Ltd.	Sarnia	Euphemia
Nagel, Elmer	Stevensville	Bertie
Neff, R.	Sherkston	Humberstone
Nemic & Hinnes	505 Lacroix St., Chatham	Kerrwood
Newport Gas Syndicate	Fort Erie	Wainfleet
Niagara Gas Syndicate	Fisherville	Bertie
Niece, Elmond	Dunnville	Sherbrooke
Niece, Bros.	Lowbanks	Sherbrooke
Nigh, C.	Stevensville	Willoughby
Norgas Development Ltd.	Simcoe	Charlotteville
North Shore Gas Co.	Fisherville	Rainham
Noyes, L.A., Estate	Stevensville	Willoughby
Nycan Gas Co.	100 Webster St. N., Tonawanda N.Y., U.S.A.	Middleton
Ort, C.H.	Chippawa	Chippawa
Pal Oil & Gas Co. Ltd.	St. Thomas	Aldborough
Palcos, John & Marr, Earl	Wainfleet	Wainfleet
Peacock Point Gas & Oil Syndicate	Fisherville	Walpole
Pegg Enterprises Ltd.	Morpeth	Morpeth
Pegg Enterprises Ltd. for Bradford Oil & Gas Co.	Morpeth	Morpeth
Petrole Oil & Gas Co. Ltd.	132-9th Ave. S.W., Calgary, Alberta	Oneida and Tuscarora
Place Gas & Oil Co. Ltd.	80 Richmond St. W., Toronto 1	Various
Pleasant Beach Gas Syndicate	Sherkston	Willoughby
Pope, W.	Bothwell	Camden and Zone
Prairie Gas & Oil Co. Limited	170 Bay St., Toronto 1	Dover
Provincial Gas Company Limited	Fort Erie	Various
Putman and Putman	Kingsville	Gosfield South and Colchester South
R.V.R. Gas Syndicate	Ridgeway	Bertie
Rae, Robert	1678 Kister Rd., Niagara Falls	Humberston
Reid, E.	Petrolia	Petrolia
Richmont Developments Ltd.	268 Ridge St., Ridgeway	Bertie and Humberstone
Riddell-Hanna Explorations Ltd.	139 Eason Ave., Highland Park 3, Mich., U.S.A.	Chatham
Riddell & Meyers Syndicate	Fort Erie	Bertie
Roberts, Carl	Box 312, Coudersport, Penn., U.S.A.	Norfolk
Robinson Road Gas Syndicate	Dunnville	Moulton
Roth, Roth & Riggan Ltd.	Petrolia	Rodney
Roth & Roth Ltd.	Petrolia	Brooke and Enniskillen
Roth, Frank Estate	Ridge way	Bertie & Humberstone
Round, Josephine	Fort Erie	Bertie
Royal Gas Syndicate	Stevensville	Bertie
Ruch, K.C.	Stevensville	Bertie
Ruegg Gas	Ridgeway	Ridgeway
Ruiter, T.	Port Colborne	Humberstone
Sarnoil Ltd.	357 Bay St., Toronto	Enniskillen
Shain, Viola May	Petrolia	Enniskillen
Shambaw, W.M.	Kerrwood	Metcalfe
Sherk, Bert Estate	Stevensville	Bertie
Sherkston Gas Syndicate	Sherkston	Humberstone and Bertie
Sider, A. & J.	Stevensville	Bertie and Humberstone
Sider, Norman	Sherkston	Bertie and Humberstone
Simon, B.	367 Ellicott St., Buffalo, N.Y., U.S.A.	Chippawa
Sodom, L. & A. Syndicate	Ridgeway	Willoughby
Standard Gas & Oil Syndicate	Fisherville	Rainham and Walpole
Steele, K.	Port Colborne	Humberstone
Stevensville Natural Gas & Fuel Co.	Stevensville	Bertie
Stewart, Elgin	Jarvis	Woodhouse
Sunnyside Gas Syndicate	Welland Junction	Humberstone
T.H. & G. Syndicate	Ridgeway	Bertie
Thompson, Arnold	Petrolia	Enniskillen
Tri-County Gas & Oil Co. Ltd.	601 Huron & Erie Bldg., London	Norwich South
Triform Explorations Ltd.	100 Adelaide St. W., Toronto 1	Haldimand and Welland
Trio Gas Company	Dunnville	Canboro
Tunks, James	Bothwell	Zone
Twin City Gas Syndicate	Fort Erie	Willoughby
Union Gas Company of Canada Limited	Chatham	Various
Valencourt, A. Estate	Weiland	Thorold
Valencourt, L.	Weiland	Thorold
Wainfleet Oil & Gas Ltd.	100 Adelaide St. W., Toronto	Wainfleet and Willoughby

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961 - Continued

Name	Address	Location of field
<b>Ontario—Concluded:</b>		
Wale, H.	Stevensville	Humberstone
Warwick, Jack	Bothwell	Zone
Watson, Warwick & Huron Petroleum Ltd.	Chatham	Howard
Webbwood Exploration Company Limited	974 Wilson Ave., Downsview	Tilbury West
Welland County Gas Syndicate	Stevensville	Bertie
Welland Gas Syndicate	Dunnville	Humberstone
Wellandport Gas Co. Ltd.	Dunville	Gainsborough
Westwood and Gemmell	Dresden	Thamesville
Whorton Associates	Box 587 Wellsville, N.Y., U.S.A.	Norfolk
Wilkinson, Gas Syndicate	Fort Erie	Thorold
York Producing Company Ltd.	Bolivar, New York, U.S.A.	Chatham
Yuez Gas Company	732 Brisbane Bldg., Buffalo, U.S.A.	Charlotteville
Zenmac Metal Mines Ltd.	80 Richmond St. W., Toronto 1	Morpeth
<b>Manitoba:</b>		
Basco Petroleums Ltd.	706-7th Ave. S.W., Calgary, Alberta	Daly
British American Oil Company Limited	800 Bay St., Toronto, Ontario	Various
California Standard Company	Medical Arts Bldg., Calgary, Alberta	Various
Calrock Oil & Gas Ltd.	1714-24th St. S.W., Calgary, Alberta	Roselea
Canadian Devonian Petroleums Ltd.	Box 694, Calgary, Alberta	Virden, Roselea, and Routledge
Canadian Export Gas & Oil Ltd.	203 Oil Exchange Bldg., Calgary, Alberta	Virden, Roselea, and Scallion
Canadian Superior Oil Ltd.	703-6th Ave. S.W., Calgary, Alberta	Various
Dillman Oil Properties Ltd.	305 Brent Bldg., Regina, Saskatchewan	Kirkella
Dome Petroleum Limited	706-7th Ave. S.W., Calgary, Alberta	Virden, Ebor and Hargrave
Eureka Oils Ltd.	176 Sutherland Ave., Winnipeg 4	Roselea and Virden
Fargo Oils Ltd.	320-7th Ave. S.W., Calgary, Alberta	Virden and Roselea
Fosca Oil Co. Ltd.	309-7th Ave. S.W., Calgary, Alberta	Daly
Frontenac Petroleum Co. Ltd.	70 Calder Crescent, Regina, Saskatchewan	Virden and Roselea
Halliburton Oil Producing Co.	2915 Classen Blvd., Oklahoma City, Oklahoma, U.S.A.	Routledge
Imperial Oil Limited	111 St. Clair Ave., Toronto, Ontario	Various
Kissinger Petroleums Ltd.	Box 8878, University Park Station, Denver 10, Colorado, U.S.A.	Wildcat
Kranz Oil Ltd.	653-4th Ave. N., Minot, North Dakota, U.S.A.	Virden and Roselea
Landa Oil Company	5738 North Central Expressway, Dallas, Texas, U.S.A.	Scallion
McCarty & Coleman	916-9th St., Wichita Falls, Texas, U.S.A.	Virden and Routledge
Murphy Oil Co. Ltd.	703-5th St. W., Calgary, Alberta	Virden and Roselea
Paradise Petroleums Ltd.	Box 2, Virden	Routledge and Virden
Plymouth Oil Company	512-6th St. S.W., Calgary, Alberta	Kirkella
Pope Oils Ltd.	Box 11, Minot, North Dakota, U.S.A.	South Scallion
Recovery Oils Ltd.	Box 886, Virden	Daly
Scurry-Rainbow Oil Ltd.	539-8th Ave. W., Calgary, Alberta	Daly
Shannon Oils Ltd.	Box 876, Brandon	North Scallion, Virden and Roselea
Shell Oil Company of Canada, Limited	Box 400, Terminal A, Toronto, Ontario	Virden and Roselea
Sou Oil Company	Drawer 38, Calgary, Alberta	Virden
Thunderbird Oils Ltd.	433-4th Ave. S.W., Calgary, Alberta	Virden and Roselea
Union Oil Co. of Canada Ltd.	709-8th Ave. W., Calgary, Alberta	Various
Vulat, E.H. Ltd.	534-6th Ave. S.W., Calgary, Alberta	North Virden and Scallion
West Canadian Oil & Gas Ltd.	505-8th Ave., Calgary, Alberta	Scallion
<b>Saskatchewan:</b>		
Agawam Oil Co. Ltd.	Box 830, Regina	Benson and Parkman
Albrumac Oils Ltd.	Alberta Wheat Pool Bldg., Calgary, Alberta	Steelman
Alminex Ltd.	320 Bay St., Toronto 1, Ontario	Milton
Altair Oil & Gas Co.	Box 2009 Amarillo, Texas, U.S.A.	Various
Altana Exploration Co.	Box 1338, Butte, Montana, U.S.A.	Smiley and Wapella
Ambassador Oil Corporation	Box 9338, Fort Worth, Texas, U.S.A.	Midale and Stoughton
Amerada Petroleum Corp.	703-6th Ave. W., Calgary, Alberta	Alida, Steelman and Queensdale
Bass, Harry Oil Company	1150 Mercantile Dallas Bldg., Dallas, Texas, U.S.A.	Coleville
B.C. & M. Enterprises	912-2nd St. N.W., Minot, North Dakota, U.S.A.	Hastings
Blain Well Operators Ltd.	Devon, Alberta	Waseca
Brehm Petroleums Ltd.	Box 618, Mt. Vernon, Illinois, U.S.A.	Midale
British American Oil Company Ltd.	800 Bay St., Toronto, Ontario	Various
Buffalo Oil Co. Ltd.	Box 1670, Regina	Alameda
Cabeen Exploration Corporation	706-7th Ave. S.W., Calgary, Alberta	Smiley and Whiteside
California Standard Company	Medical Arts Bldg., Calgary, Alberta	Various
Canadian Bishop Oil Ltd.	640-7th Ave. S.W., Calgary, Alberta	Various
Canadian Delhi Oil Ltd.	505-8th Ave. S.W., Calgary, Alberta	Bone Creek
Canadian Devonian Petroleums Ltd.	Box 694, Calgary, Alberta	Carnduff and Steelman
Canadian Export Gas & Oil Ltd.	203 Oil Exchange Bldg., Calgary, Alberta	Various
Canadian Fina Oil Ltd.	736-8th Ave. S.W., Calgary, Alberta	Midale, Weyburn and Carnduff
Canadian Husky Oil Ltd.	815-6th St. S.W., Calgary, Alberta	Kindersley and Lloydminster
Canadian Keweenaw Ltd.	805-8th Ave. S.W., Calgary, Alberta	Steelman
Canadian Oil Companies Ltd.	188 University Ave., Toronto 1, Ontario	Various
Canadian Superior Oil	703-6th Ave. W., Calgary, Alberta	Hastings and Parkman
Canadian W.C. McBride Inc.	25 N. Brentwood Blvd., St. Louis 5, Missouri, U.S.A.	Carnduff
Canex Gas Ltd.	203 Oil Exchange Bldg., Calgary, Alberta	Various
Canpet Exploration Ltd.	1450 Elveden House, Calgary, Alberta	Weyburn
Central Del Rio Oils Ltd.	224-9th Ave. S.W., Calgary, Alberta	Various
Champlin Oil & Refining Co.	Box 1240, Calgary, Alberta	Various
Colorado Oil and Gas Ltd.	Oil Exchange Bldg., Calgary, Alberta	Smiley and Eureka
Consumers' Co-operative Refineries Ltd.	211 Ave. D, North, Saskatoon	Various
Devon-Palmer Oils Ltd.	320-7th Ave. W., Calgary, Alberta	Various
Dillman Oil Properties Ltd.	305 Brent Bldg., Regina	Various
Dome Petroleum Ltd.	706-7th Ave. S.W., Calgary, Alberta	Various
Donna Oils	602 West Hastings St., Vancouver 2, British Columbia	Lloydminster
Dermark Oils Ltd.	401 Lindsay Bldg., Winnipeg 2, Manitoba	Dulwich
Dilk Oils Ltd.	Box 188, Humboldt	McLaren
Fair Petroleums	Lloydminster	Lloydminster
Fargo Oils Ltd.	320-7th Ave. S.W., Calgary, Alberta	Various
Fraben Oil Corporation	440 Meadows Bldg., Dallas 6, Texas, U.S.A.	Various
Francana Oil & Gas Ltd.	5 St. James St. E., Montreal, Quebec	Various
Franco Castle No. 10 well	825 Granville St., Vancouver 2, British Columbia	Lloydminster and Lone Rock
Freeholders Oil Co. Ltd.	539-8th Ave. W., Calgary, Alberta	Midale
French Petroleum Co. of Canada Ltd.	635-6th Ave. S.W., Calgary, Alberta	Torquay

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961 — Continued

Name	Address	Location of field
<b>Saskatchewan — Concluded:</b>		
Froman Oils Ltd.	Box 666, Lloydminster, Alberta	Marsden
Frontier Refining Co.	4040 East Louisiana Ave., Denver, Col., U.S.A.	Various
General American Oils Ltd.	Meadows Bldg., Dallas 6, Texas, U.S.A.	Coleville
Gladstone Petroleum Ltd.	720-7th Ave. S.W., Calgary, Alberta	Dodsland
Gridoil Freehold Leases Ltd.	330-9th Ave. S.W., Calgary, Alberta	Various
Guyer Oil Company Ltd.	1570 Elveden House, Calgary, Alberta	Dodsland
Howe, Irvin MacDonald	110 Sugnet Rd., Midland, Michigan, U.S.A.	Wildcat
Hudson's Bay Oil & Gas Co. Ltd.	320-7th Ave. W., Calgary, Alberta	Various
Hudson, W.H.	1126 Mercantile Securities Bldg., Dallas, Texas, U.S.A.	Rocanville
Hussar Operators Ltd.	215A-10th St. N.W., Calgary, Alberta	Steelman
Imperial Oil Limited	111 St. Clair Ave., Toronto, Ontario	Various
Intermountain Petro-Mining Ltd. (Cascade Drilling Co. Ltd.)	635-6th Ave. S.W., Calgary, Alberta	Midale
Karels & Rennie	Swift Current	Lloydminster
Kissinger Petroleums Ltd.	Box 8878 University Park Station, Denver 10, Colorado, U.S.A.	Various
Kranz Oil Ltd.	653-4th Ave. North, Fargo, North Dakota U.S.A.	Benson
Landa Oil Company	5738 N. Central Express, Dallas, Texas, U.S.A.	Hastings and Parkman
Lewis, James A. Engineering Co. Ltd.	736-8th Ave. S.W., Calgary, Alberta	Cantuar
Lloydminster Gas Co. Ltd.	Lloydminster	Lloydminster
Lone Rock Gas Co.	Lone Rock	Lone Rock
McAlester Canadian Oil Co.	Box 210, Magnolia, Arkansas, U.S.A.	Weyburn and Midway
McCarty & Coleman	916-9th St., Wichita Falls, Texas, U.S.A.	Various
Medallion Petroleums Ltd.	512-4th Ave. W., Calgary, Alberta	Hastings
Meyers, H.	Lloydminster	Marsden and Sparky
Midland Exploration Company	5530 The Toledo, Long Beach 3, California, U.S.A.	Carnduff
Midwest Oil Corporation	809-4th St. S.W., Calgary, Alberta	Various
Mobil Oil of Canada Ltd.	Mobil Oil Bldg., Calgary, Alberta	Various
Monsanto Oils Ltd.	314 Royalite Bldg., Calgary, Alberta	Various
Monterey Petroleum Corporation	122-635-6th Ave. S.W., Calgary, Alberta	Various
Murphy Oil Co. Ltd.	703-5th St. W., Calgary, Alberta	Midale, Weyburn and Hastings
New Continental Oil Co. of Canada Ltd.	1170 Elveden House, Calgary, Alberta	Various
Nortex Exploration Corp.	1900 Life of America Bldg., Dallas, Texas, U.S.A.	Gainsboro and Benson
North American Oils Ltd.	602 W. Hastings St., Vancouver 2, British Columbia	Lloydminster
Nuwell Oils Ltd.	10019-103 rd St., Edmonton, Alberta	Dutwich and Silverdale
Oiphant & Oiphant	1905 National Bank of Tulsa Bldg., Tulsa, Oklahoma, U.S.A.	Rapdan
Orecan Oil Ltd.	305 Brent Bldg., Regina	West Kingsford
P.A.T. Operators Ltd.	508 Royal Trust Bldg., Edmonton, Alberta	Lloydminster
Pamoil Ltd.	301 Hudson's Bay Oil & Gas Bldg., Calgary, Alberta	Carnduff and Alameda
Phillips, Joe Ltd.	332-7th Ave. S.W., Calgary, Alberta	Various
Placid Oil Co.	418 Market St., Shreveport, Louisiana, U.S.A.	Nottingham, Glen Ewen and Steelman
Prenalta Petroleum Ltd.	Box 381, Oxbow	Alameda
Pure Oil Company (The)	200 East Golf Rd., Palatine, Illinois, U.S.A.	Battrun and Carnduff
Ranger Oil (Canada) Ltd.	505-8th Ave. W., Calgary, Alberta	Various
Rex Oil & Development Co. Ltd.	401 Lindsay Bldg., Winnipeg, Manitoba	Dulwich
Ribrock Oils Ltd.	Box 790, Prince Albert	Lone Rock
Rogers Alberta Syndicate	Lloydminster	Lloydminster
Rogers, A.S.	Royalite Bldg., Calgary, Alberta	Various
Royalite Oil Company Ltd.	Box 2239, Santa Fe, New Mexico, U.S.A.	Midale
Rutledge, Paul F.	640-7th Ave. S.W., Calgary, Alberta	Eureka-Dodsland
Sarcee Petroleums Ltd.	1739 Cornwall St., Regina	Hatton
Saskatchewan Power Corporation	602 W. Hastings St., Vancouver, British Columbia	Lloydminster
Saskatoon Petroleums	Box 400, Terminal A, Toronto 1, Ontario	Various
Shell Oil Company of Canada, Ltd.	700 Petroleum Bldg., Calgary, Alberta	Alameda, Steelman and Weyburn
Sinclair Canada Oil Co.	Box 1650, Tulsa, Oklahoma, U.S.A.	Various
Skelly Oil Company	309-8th Ave. W., Calgary, Alberta	Various
Soho Petroleum Company	1 Professional Bldg., Tarrytown, New York, U.S.A.	Alameda
Spelman Prentice & Associates	1100 Mercantile Continental Bldg., Dallas Texas, U.S.A.	Various
Stekoli Petroleum Corporation	805-8th Ave. S.W., Calgary, Alberta	Various
Sun Oil Company	513-8th Ave. S.W., Calgary, Alberta	Lloydminster
Swiss Oils of Canada (1959) Ltd.	Box 18, Houston, Texas, U.S.A.	Hitchcock and South Weyburn
Tenneco Corporation and subsidiaries	237-7th Ave. S.W., Calgary, Alberta	Various
Texaco Exploration Co.	Box 1404, Houston 1, Texas, U.S.A.	Various
Tidewater Oil Co.	604-1st Ave. S.W., Calgary, Alberta	Lone Rock
Trans-Western Oils Ltd.	535-7th Ave. W., Calgary, Alberta	Steelman
Triad Oil Co. Ltd.	709-8th Ave. S.W., Calgary, Alberta	Various
Union Oil Co. of Canada Ltd.	309-7th Ave. S.W., Calgary, Alberta	Alameda and Steelman
Union Texas Natural Gas Corp.	940-8th Ave. S.W., Calgary, Alberta	Various
United Canso Oil & Gas Ltd.	67 Yonge St., Toronto 1, Ontario	Dulwich
Valentia Oil Corporation Ltd.	505-8th Ave. S.W., Calgary, Alberta	Various
West Canadian Oil & Gas Limited	204-569 Howe St., Vancouver 1, British Columbia	Lloydminster
Western Allenbee Oil & Gas Co. Ltd.	703-5th St. W., Calgary, Alberta	North Premier
Western Decalfa Petroleum Ltd.	Can. Bank of Commerce Bldg., Toronto, Ontario	Various
Whitehall Canadian Oils Ltd.	444-7th Ave. S.W., Calgary, Alberta	Various
Williamson Oil & Gas Ltd.	426 Lougheed Bldg., Calgary, Alberta	Various
Wintershall Oil of Canada Ltd.		
<b>Alberta:</b>		
Acheson East Oil & Gas Co. Ltd.	10305-97th St., Edmonton	Various
Alberta Pacific Consolidated Oils Ltd.	635-6th Ave. S.W., Calgary	Turner Valley
Altana Exploration Company	Box 1338, Butte, Montana, U.S.A.	Caroline and Garrington
Ambassador Oil Corp.	Box 9338, Fort Worth, Texas, U.S.A.	Various
Amerada Petroleum Corporation	703-8th Ave. W., Calgary	Various
American Leduc Petroleums Ltd.	10435-124th St., Edmonton	Bashaw
American Metal Climax Inc.	1270 Avenue of the Americas, New York, New York, U.S.A.	Crossfield
American Northland Oil Co.	635-6th Ave. S.W., Calgary	Wainwright
Anglo-American Exploration Ltd.	330-9th Ave. W., Calgary	Camrose, Daubenhauer and Leduc
Armisie Oil Co. Ltd.	10044-102nd St., Edmonton	Armisie
Asameria Oil Corp. Ltd.	315-8th Ave. S.W., Calgary	Various
Atlantic Refining Co.	303-1174 Jasper Ave., Edmonton	Various
Bailey Selburn Oil & Gas Ltd.	901-8th Ave. W., Calgary	Various
Banff Oil Ltd.	505-8th Ave. Bldg., Calgary	Various
Bashaw Leduc Oil & Gas Ltd.	10347-71st Ave., Edmonton	Joarcam
Bass, Harry Oil Company	239-6th Ave. W., Calgary	Bon Accord and Bantry
Big Five Petroleums Ltd.	201 Lancaster Bldg., Calgary	Leduc and Woodbend

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961 — Continued

Name	Address	Location of field
<b>Alberta — Continued:</b>		
Blair, Edwin Foster .....	309-8th Ave. S.W., Calgary .....	Various
Blue Crown Petroleums Ltd. ....	351-13th Ave. S.W., Calgary .....	Namao
Bonnyville Gas Co. Ltd. ....	Bonnyville .....	Bonnyville
Bonnyville Oil & Refining Corp. ....	1410 Stanley St., Montreal, Quebec .....	Bonnyville
Brett Oil & Gas Ltd. ....	315 Lancaster Bldg., Calgary .....	Chin Coulee
Brinkerhoff Drilling Co. Ltd. ....	220 Bentall Bldg., Calgary .....	Joffre and Crossfield
British American Oil Co. Ltd. ....	800 Bay St., Toronto .....	Various
Cabeen Exploration Corp. ....	705-7th Ave. S.W., Calgary .....	Various
California Standard Company .....	Medical Arts Bldg., Calgary .....	Various
Calmar West Oils Ltd. ....	401 Lancaster Bldg., Calgary .....	Leduc
Campbell, R. & Associates .....	Box 4183 Station D., Vancouver 9, British Columbia .....	Leduc-Woodbend
Canada-Cities Service Petroleum Corporation .....	Bartlesville, Oklahoma, U.S.A. ....	Various
Canadian-American Royalties Ltd. ....	123 Petroleum Bldg., Calgary .....	Crossfield
Canadian Chieftain Petroleums Ltd. ....	8631-109th St., Edmonton .....	Joffre, Namao and Provost
Canadian Delhi Oil Ltd. ....	505-8th Ave. W., Calgary .....	Various
Canadian Export Gas & Oil Ltd. ....	203 Oil Exchange Bldg., Calgary .....	Various
Canadian Fina Oil Limited .....	736-8th Ave. S.W., Calgary .....	Various
Canadian High Crest Oils Ltd. ....	528-9th Ave. W., Calgary .....	Wainwright, Baxter Lake, Leduc, Malmoe, Crossfield and Etsikom.
Canadian Husky Oil Ltd. ....	815-6th St. S.W., Calgary .....	Lloydminster, Leduc and Savanna Creek
Canadian Industrial Gas Ltd. ....	528-9th Ave. S.W., Calgary .....	Morinville, St. Albert and Big Lake
Canadian Kewanee Ltd. ....	805-8th Ave. S.W., Calgary .....	Various
Canadian-Montana Gas Company Ltd. ....	Box 1338, Butte, Montana, U.S.A. ....	Various
Canadian Oil Companies Ltd. ....	188 University Ave., Toronto, Ontario .....	Various
Canadian Pacific Oil & Gas Ltd. ....	Box 400, Calgary .....	Various
Canadian Salt Co. Ltd. ....	Canada Cement Bldg., Montreal, Quebec .....	Lindbergh
Canadian Seaboard Oil Co. ....	237-7th Ave. W., Calgary .....	Various
Canadian Superior Oil Ltd. ....	703-6th Ave. W., Calgary .....	Various
Canadian Western Natural Gas Co. Ltd. ....	140-6th Ave. S.W., Calgary .....	Various
Canadian Western Power & Fuel Co. Ltd. ....	Redcliff .....	Medicine Hat
Canocrude Oil & Gas Co. Ltd. ....	444-7th Ave. S.W., Calgary .....	Pembina
Canex Gas Ltd. ....	203 Oil Exchange Bldg., Calgary .....	Various
Canpet Exploration Ltd. ....	1450 Elvedon House, Calgary .....	Leduc - Woodbend
Central Del Rio Oils Ltd. ....	224-9th Ave. S.W., Calgary .....	Turner Valley
Century Royalties Ltd. ....	330-9th Ave. S.W., Calgary .....	Various
Champlin Oil & Refining Co. ....	Box 1240 , Calgary .....	Various
Colorado Oil & Gas Ltd. ....	Oil Exchange Bldg., Calgary .....	Camrose
Daveroy Oil Co. Ltd. ....	9619-54th St., Edmonton .....	Sundre, Westward Ho and Pembina
DeKalb Petroleum Corporation .....	635-6th Ave. S.W., Calgary .....	Leduc - Woodbend
Dempsey Oils Ltd. ....	117B-8th Ave. S.W., Calgary .....	Various
Devon Palmer Oils Ltd. ....	320-7th Ave. S.W., Calgary .....	Pembina, Drumheller and Redwater
Dome Petroleum Ltd. ....	706-7th Ave. S.W., Calgary .....	Medicine Hat
Dominion Glass Co. Ltd. ....	1111 Beaver Hall Hill, Montreal, Quebec .....	Leduc-Woodbend
Dundee Oils Ltd. ....	10760A-82nd Ave., Edmonton .....	Legal
Eldon Royal American Model #1 .....	201-Lancaster Bldg., Calgary .....	Elk Point
Elk Point Gas Ltd. ....	Elk Point .....	Whitelaw and Leduc - Woodbend
Embassy Petroleum Ltd. ....	227-7th Ave. S.W., Calgary .....	Patricia
Federal Oils Syndicate .....	223A-10th St. N.W., Calgary .....	Redwater
Flamingo Oils Limited .....	402-100 Adelaide St. W., Toronto, Ontario .....	Battle South, Wainwright and Aden
Fosca Oil Co. Ltd. ....	309-7th Ave. S.W., Calgary .....	Various
French Petroleum Co. of Can. Ltd. ....	635-6th Ave. S.W., Calgary .....	Medicine Hat
Goodyear Tire and Rubber Co. of Canada Ltd. ....	3050 Lakeshore Blvd. W., Toronto 14, Ontario .....	Various
Great Plain's Development Company of Canada Ltd. ....	528-9th Ave. W., Calgary .....	Joffre and Barrie Lake
Guyer Oil Company Ltd. ....	1570 Elvedon House, Calgary .....	Ellerslie
Hales Oil & Gas Co. Ltd. ....	433-4th Ave., Calgary .....	Various
Home Oil Company Limited .....	304-6th Ave. W., Calgary .....	Various
Hudson's Bay Oil & Gas Co., Ltd. ....	320 Seventh Ave. W., Calgary .....	Ferrier and Buffalo Lake
Hunt Oil Company .....	700 Mercantile Bldg., Dallas, Texas, U.S.A. ....	Various
Imperial Oil Ltd. ....	111 St. Clair Ave., Toronto, Ontario .....	Viking - Kinsella
Inland Gas & Oil Co. Ltd. ....	124 Commercial Chambers, Edmonton .....	Chamberlain
Ireton Petroleums Ltd. ....	10347-71st Ave., Edmonton .....	Leduc - Woodbend
Kali Ltd. ....	906 Ridge Rd., Calgary .....	Leduc - Woodbend
Kelcan Oils Ltd. ....	6503-103rd St., Edmonton .....	Prevo
Kerr-McGee Oil Industries Inc. ....	Kerr-McGee Bldg., Oklahoma City, Oklahoma, U.S.A. ....	Various
King-Stevenson Oil Ltd. ....	1580 Elvedon House, Calgary .....	Leduc - Woodbend
L.B. Oils Ltd. ....	Macdonald Hotel, Edmonton .....	Leduc - Woodbend
Leduc Calmar Oil Co. Ltd. ....	300 Lancaster Bldg., Calgary .....	Leduc - Woodbend
Lewis, James A. Engineering Ltd. ....	736-8th Ave. S.W., Calgary .....	Pembina
Lloydminster Development Co. Ltd. ....	220 Tegler Bldg., Edmonton .....	Lloydminster
Lloydminster Gas Co. Ltd. ....	Drawer H., Lloydminster, Saskatchewan .....	Lloydminster
Lobitos Oilfields Canada Ltd. ....	940-8th Ave. W., Calgary .....	Various
Luscar Coals Ltd. ....	605 Royal Trust Bldg., Edmonton .....	Pembina and Swan Hills
Many Islands Pipe Lines Ltd. ....	1739 Cornwall St., Regina, Saskatchewan .....	Medicine Hat
Maple Leaf Mills Ltd. ....	44 Eglinton Ave., Toronto, Ontario .....	Medicine Hat
Marjack Oils Ltd. ....	10305-97th St., Edmonton .....	Leduc
McAlester Canadian Oil Co. ....	Box 210, Magnolia, Arkansas, U.S.A. ....	Various
McConset-Leduc Syndicate .....	635-6th Ave. S.W., Calgary .....	Leduc - Woodbend
Medallion Petroleums Ltd. ....	512-4th Ave. W., Calgary .....	Various
Medicine Hat City .....	Medicine Hat .....	Medicine Hat
Medicine Hat Brick & Tile Co. Ltd. ....	Box 70, Medicine Hat .....	Medicine Hat
Medicine Hat Brick & Tile Co. Ltd. (Alberta Clay Products Division) .....	Box 70, Medicine Hat .....	Medicine Hat
Melton Petroleums Limited .....	10154-103rd St., Edmonton .....	Leduc - Woodbend
Metro Oil & Gas Co. Ltd. ....	102 Mercantile Bldg., Edmonton .....	Excelsior
Midwest Oil Corporation .....	809-4th St. S.W., Calgary .....	Various
Mid-Western Industrial Gas Ltd. ....	11055-107th St., Edmonton .....	Various
Mobil Oil of Canada Ltd. ....	Mobil Oil Bldg., Calgary .....	Various
Monarch Investments Ltd. ....	Medicine Hat .....	Medicine Hat
Monterey Petroleum Corporation Ltd. ....	635-6th Ave. S.W., Calgary .....	Leduc - Woodbend
Murphy Oil Co. Ltd. ....	703-5th St. W., Calgary .....	Various
New Continental Oil Co. of Canada Ltd. ....	1170 Elvedon House, Calgary .....	Leduc
New York Oils Ltd. ....	703-5th St. S.W., Calgary .....	Penhold
North Canadian Oils Ltd. ....	640-7th Ave. S.W., Calgary .....	Various
Northern Natural Gas Producing Co. ....	2223 Dodge St., Omaha, Nebraska, U.S.A. ....	Various
Northwestern Utilities Ltd. ....	10040-104th St., Edmonton .....	Various
Ogilvie Flour Mills Co. Ltd. ....	Dominion Square Bldg., Montreal, Quebec .....	Medicine Hat

## Directory of Firms in the Crude Petroleum and Natural Gas Industry, 1961 — Concluded

Name	Address	Location of field
<b>Alberta — Concluded:</b>		
Ohio Oil Company .....	539 South Main St., Findlay, Ohio, U.S.A.	Various
Okalta Oils Ltd. ....	239-6th Ave. W., Calgary .....	Turner Valley & Leduc
Old Settlers Oils Ltd. ....	9930-106th St., Edmonton .....	Various
Pacific Petroleum Ltd. ....	800 Pacific Bldg., Calgary .....	Various
Pamoil Ltd. ....	301 Hudson's Bay Oil & Gas Bldg., Calgary .....	Keystone
Pan American Petroleum Corp. ....	444-7th Ave. S.W., Calgary .....	Various
Peigan Oil of Canada Ltd. ....	1027-8th Ave. S.W., Calgary .....	Various
Perry Brick & Tile Co. Ltd. ....	Redcliff .....	Medicine Hat
Phillips, Joe Ltd. ....	332-7th Ave. S.W., Calgary .....	Various
Piute Petroleum Ltd. ....	505 Second St. S.W., Calgary .....	Wainwright
Plymouth Oil Company .....	512-6th St. S.W., Calgary .....	Pembina and Swan Hills
Prentett Corporation .....	Professional Bldg., Tarrytown, New York, U.S.A.	Bantry South
Provo Gas Producers Ltd. ....	706-7th Ave. S.W., Calgary .....	Crossfield, Hugenhend and Pembina
Pure Oil Company .....	1200 Elveden House, Calgary .....	Swan Hills & Ferrier
Quinalta Petroleum Ltd. ....	617-7th Ave. W., Calgary .....	Morinville
Ranger Oil (Canada) Ltd. ....	505-8th Ave., West Bldg., Calgary .....	Various
Redcliff Premier Brick Co. ....	Redcliff .....	Medicine Hat
Redwater Oils Ltd. ....	200-838-11th Ave. S.W., Calgary .....	Hairy Hill
Redwater Water Disposal Co. Ltd. ....	8505 Argyll Rd., Edmonton .....	Redwater
Regent Refining (Canada) Ltd. ....	509-3rd St. W., Calgary .....	Swan Hills
Richfield Oil Corporation .....	555 South Flower St., Los Angeles 17, Cal.	Various
Royal American Oil Co. Ltd. ....	201 Lancaster Bldg. ....	Leduc - Woodbend
Royal Canadian Ventures Ltd. ....	1011A-17th Ave. S.W., Calgary .....	Clive
Royalte Oil Company Limited .....	Royalte Bldg., Calgary .....	Various
Sage Oil Company Limited .....	10760A-82nd Ave., Edmonton .....	Various
Salt Dome Production Company .....	737 Texas National Bank Bldg., Houston 2, Texas, U.S.A.	Milk River
Sasko-Wainwright Oil & Gas Ltd. ....	9930-106th St., Edmonton .....	Wainwright
Schermerhorn Oil Corporation .....	Box 287 Tulsa, Oklahoma, U.S.A.	Redwater
Scurry-Rainbow Oil Ltd. ....	539-8th Ave. W., Calgary .....	Various
Sharples Oil Corporation .....	1700 Broadway, Denver 2, Colorado, U.S.A.	Wildcat
Shell Oil Company of Canada, Limited .....	Box 400, Terminal A, Toronto, Ontario .....	Jumping Pound etc.
Sinclair Canada Oil Company .....	700 Petroleum Bldg., Calgary .....	Various
Skelly Oil Company .....	Box 1650, Tulsa, Oklahoma, U.S.A.	Various
Sohio Petroleum Company .....	309-8th Ave. S.W., Calgary .....	Wildcat
Southland Royalty Company .....	1603 First National Bldg., Fort Worth 2, Texas, U.S.A.	Hays
Sparky Development Ltd. ....	330-9th Ave. W., Calgary .....	Wainwright
Spooner Mines & Oils Ltd. ....	640-7th St. S.W., Calgary .....	Turner Valley
Stekoll Petroleum Corp. ....	1100 Mercantile Continental Bldg., Dallas, Texas, U.S.A.	Various
Sterling Royalties Ltd. ....	330-9th Ave. S.W., Calgary .....	Turner Valley
Sturgeon Petroleum Ltd. ....	224-9th Ave. S.W., Calgary .....	Woodbend
Suffield Experimental Station .....	Ralston .....	Wildcat
Suffield Gas Distributing System .....	Suffield .....	Various
Sun Oil Company .....	P.O. Drawer 39, Calgary .....	Pembina
Sunshine Mining Company .....	W. 300 Mission Ave., Spokane 1, Washington, U.S.A.	Various
Supertest Petroleum Corporation Ltd. ....	245 Pall Mall St., London, Ontario .....	Pembina
Swain Oils Ltd. ....	502 Toronto General Trusts Bldg., Calgary .....	Various
Tenneco Corporation and Subsidiaries .....	Box 18, Houston, Texas, U.S.A.	Pembina and Deer Mountain
Texaco Canada Ltd. ....	246 Bloor St. W., Toronto, Ontario .....	Various
Texaco Exploration Company .....	237-7th Ave. W., Calgary .....	Deer Mountain and Snipe Lake
Texas Pacific Coal and Oil Company .....	Box 2110, Fort Worth National Bank Bldg., Fort Worth, Texas, U.S.A.	Various
Texfel Petroleum Corporation .....	3200 Republic Bank Bldg., Dallas 1, Texas, U.S.A.	Pembina
Tidal Petroleum Corporation Ltd. ....	8631-109th St., Edmonton .....	Lloydminster and Cessford
Titewater Oil Company .....	809 Centre St. S.W., Calgary .....	Pembina
Tilley Gas Co. Ltd. ....	Tilley .....	Tilley
Triad Oil Co. Ltd. ....	535-7th Ave. W., Calgary .....	Various
Union Oil Co. of Canada Ltd. ....	709-8th Ave. W., Calgary .....	Various
Union Texas Natural Gas Corporation .....	309-7th Ave. S.W., Calgary .....	Various
United Canso Oil & Gas Ltd. ....	940-8th Ave. S.W., Calgary .....	Various
United Producing Company Inc. ....	530 Bentall Bldg., Calgary .....	Pembina and West Fenn
Vanlorne Oils Ltd. ....	10760A-32nd Ave., Edmonton .....	Leduc - Woodbend
Vermilion Consolidated Oils Ltd. ....	351-13th Ave. S.W., Calgary .....	Wildmere
Wardean Drilling Ltd. ....	534-6th Ave., Calgary .....	Acheson East
Wespac Petroleum Ltd. ....	718-8th Ave. S.W., Calgary .....	Whitemud
West Canadian Oil & Gas Ltd. ....	505-8th Ave. W., Calgary .....	Various
Western Allenbee Oil & Gas Co. Ltd. ....	569 Howe St., Vancouver 1, British Columbia .....	Leduc - Woodbend and Wainwright
Western Canadian Venture .....	309-8th Ave. S.W., Calgary .....	Harmattan East
Western Chemicals Ltd. ....	200-838 Eleventh Ave. W., Calgary .....	Duvernay
Western Decalfa Petroleum Ltd. ....	703-5th St. W., Calgary .....	Various
Western Minerals Ltd. ....	200-838 Eleventh Ave. S.W., Calgary .....	Willington
Western Warner Oils Ltd. ....	215A-10th St., Calgary .....	Leduc - Woodbend and Aerial
Whitehall Canadian Oils Ltd. ....	Canadian Bank of Commerce Bldg., Toronto, Ontario .....	Various
Widney Oil & Drilling Co. Ltd. ....	Box 4489, Edmonton .....	Leduc - Woodbend
Winstershall Oil of Canada Ltd. ....	626 Lougheed Bldg., Calgary .....	Pembina and Willesden Green
Zapata Canadian Petroleum Corporation .....	502 Empire Bldg., Calgary .....	Various
<b>British Columbia:</b>		
Amerada Petroleum Corporation .....	703-6th Ave. S.W., Calgary, Alberta .....	Various
Dome Petroleum Ltd. ....	706-7th Ave. S.W., Calgary, Alberta .....	Boundary Lake and Laprise Creek
Hudson's Bay Oil & Gas Co. Ltd. ....	320-7th Ave. W., Calgary, Alberta .....	Various
Imperial Oil Limited .....	111 St. Clair Ave., Toronto, Ontario .....	Various
Ohio Oil Company .....	409-8th Ave. W., Calgary, Alberta .....	Boundary Lake
Pacific Petroleum Ltd. ....	800 Pacific Bldg., Calgary, Alberta .....	Fort St. John
Sinclair Canada Oil Company .....	700 Petroleum Bldg., Calgary, Alberta .....	Various
Sun Oil Company .....	805-8th Ave. S.W., Calgary, Alberta .....	Various
Texaco Exploration Co. ....	237-7th Ave. W., Calgary, Alberta .....	Various
Triad Oil Co. Ltd. ....	535-7th Ave. W., Calgary, Alberta .....	Beaton River and West Beaton River
Union Oil Company of Canada Ltd. ....	709-8th Ave. W., Calgary, Alberta .....	Various
Western Natural Gas Co. Inc. ....	Box 1508, Houston 1, Texas, U.S.A.	Various
Whitehall Canadian Oils Ltd. ....	307-4th St. S.W., Calgary, Alberta .....	Milligan Creek
<b>Northwest Territories:</b>		
Imperial Oil Limited (Norman Wells) .....	111 St. Clair Ave., Toronto, Ontario .....	Fort Norman

## NATURAL GAS PROCESSING PLANTS, 1961

This report includes statistics for industry 005 - Natural Gas Processing Plants of the Standard Industrial Classification Manual (Catalogue No. 12-501).

This is a new classification wherein some firms which had been classified in the manufacturing industries have been transferred to the mineral industry. Some of the statistics prior to 1960 were included in the compressed gases industry.

The first natural gas processing plant in Alberta was put into operation in 1933 to recover the natural gasoline or "naphtha". As natural gas became a more important commodity it has become necessary to build more plants to supply dry, clean, natural gas. In processing the wet sour natural gas the by-products which are made include propane, butane, propane-butane mix, natural gasoline, condensate, and hydrogen sulphide. Hydrogen sulphide is further processed to yield elemental sulphur.

TABLE 30. Principal Statistics for the Natural Gas Processing Industry, 1960-61

Year	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost of process supplies	Gross selling value of products (f.o.b. works)	Net value of production
						dollars	
1960 .....	43	669	3,790,433	1,288,028	958,186	45,762,880	18,850,529
1961 .....	49	744	4,477,319	1,869,994	1,288,061	78,020,013	36,648,692

TABLE 31. Producers Shipments of Natural Gas By-Products, 1961

Product	Saskat-	Alberta	British	Canada
	chewan		Columbia	
Propane, butane .....				
L.P.G.-Mix, condensate .....	1,476,478	23,059,867	2,756,614	27,292,959
Natural gasoline .....				

TABLE 32. Production and Sales of Natural Gasoline and Naphtha in Alberta, 1960 and 1961

		1960	1961
<b>Production—by fields:</b>			
Acheson .....	bbl.	15,307	17,953
Bonnie Glen .....	"	138,515	171,531
Cessford .....	"	53,028	69,024
Countess .....	"	563	7,139
Enchant .....	"	—	1,244
Hussar .....	"	50,037	78,671
Jumping Pound .....	"	70,113	68,776
Leduc-Woodbend .....	"	122,714	142,866
Morinville .....	"	49,933	43,350
Nevis .....	"	93,969	119,594
Pembina .....	"	349,881	368,617
Prevo .....	"	202	12,790
Redwater .....	"	30,726	45,290
Sedalia .....	"	17	465
Sibbald .....	"	—	167
Turner Valley .....	"	459,340	482,994
Wayne-Rosedale .....	"	10,075	12,018
Wood River .....	"	2	6,553
<b>Totals, Alberta .....</b>	"	<b>1,444,422</b>	<b>1,649,042</b>
Transferred to oil .....	"	1,396,254	1,617,046
<b>Sales .....</b>	\$	<b>3,388,848</b>	<b>3,796,552</b>

**TABLE 33. Employees and their Earnings in the Natural Gas Processing Plants, 1960-61**

Year	Employees						Man-hours worked (all employees)	Earnings		
	Administration		Workmen		Total	Adminis- tration		Workmen	Total	
	Male	Female	Male	Female						
	number							dollars		
1960 .....	152	20	496	1	669	1,404,606	1,010,143	2,780,290	3,790,433	
1961 .....	171	16	557	-	744	1,539,033	1,228,857	3,248,462	4,477,319	

Note: Administration employees include executives, managers, superintendents, other working officials and professional and clerical employees.

**TABLE 34. Workmen, by Months, in the Natural Gas Processing Plants, 1961**  
(Number on pay-roll on the last work-day of each month)

Month	Male	Female	Total
January .....	555	-	555
February .....	549	-	549
March .....	550	-	550
April .....	552	-	552
May .....	563	-	563
June .....	569	-	569
July .....	564	-	564
August .....	561	-	561
September .....	547	-	547
October .....	542	-	542
November .....	541	-	541
December .....	528	-	528
<b>Averages</b> .....	<b>557</b>	-	<b>557</b>
<i>Total man-hours worked</i> .....			<b>1,158,975</b>

**TABLE 35. Fuel and Electricity Used in the Natural Gas Processing Plants, 1961**

Kind	Quantity	Cost at plant
		\$
Bituminous coal (a) From Canadian mines .....	-	-
(b) Imported .....	-	-
Sub-bituminous coal (from Alberta mines only) .....	-	-
Anthracite coal .....	-	-
Lignite coal .....	-	-
Coke (for fuel only) .....	-	-
Gasoline, (includes gasoline used in cars and trucks) .....	Imp. gal.	53,904
Kerosene or coal oil .....	"	322
Fuel oil .....	"	1,284
Wood (cords of 128 cubic feet of piled wood) .....	-	-
Gas (a) Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	43,266
(b) Other manufactured gas .....	-	-
(c) Natural gas .....	M. cu.ft.	1,159,913
Other fuel .....	kwh.	534,434
Electricity purchased for power and lighting .....	kwh.	31,415,116
Electricity purchased for other purposes .....	pound	76,871
Steam purchased .....	496,269,477	
<b>Totals</b> .....	...	1,869,994
Electricity generated (a) For own use .....	kwh.	34,384,209
(b) For sale .....	-	-

## Directory of Firms in the Natural Gas Processing Industry, 1961

Name	Address	Location of field
<b>Saskatchewan:</b>		
Nottingham Gas Limited .....	1825 McIntyre St., Regina .....	Alida
Saskatchewan Power Corporation .....	1739 Cornwall St., Regina .....	Coleville-Smiley and Cantuar
Smiley Gas Conservation Ltd. ....	1825 McIntyre St., Regina .....	Smiley
Steelman Gas Ltd. ....	706 - 7th Ave. S. W., Calgary, Alberta .....	Steelman
<b>Alberta:</b>		
British American Oil Company Limited .....	800 Bay St., Toronto, Ontario .....	Various
California Standard Company .....	Medical Arts Bldg., Calgary .....	Nevis, Princess and Sunnynook
Canadian Deihl Oil Ltd. ....	505 - 8th Ave. W., Calgary .....	Buck Lake
Canadian Export Gas & Oil Ltd. ....	203 Oil Exchange Bldg., Calgary .....	Sedalia
Canadian Fina Oil Ltd. ....	736 - 8th Ave. S.W., Calgary .....	Samson
Canadian Industrial Gas Processors Ltd. ....	528 - 9th Ave. S.W., Calgary .....	St. Albert
Canadian-Montana Gas Co. Ltd. ....	Box 1338, Butte, Montana, U.S.A. ....	Black Butte
Canadian Oil Companies Ltd. ....	631 - 7th Ave. S.W., Calgary .....	Innisfail
Canadian Pacific Oil & Gas Ltd. ....	Box 400, Calgary .....	Hussar and Wayne-Rosedale
Canadian Seaboard Oil Company .....	237 - 7th Ave. W., Calgary .....	Gilby
Canex Gas Ltd. ....	203 Oil Exchange Bldg., Calgary .....	Cessford and Wood River
Cankee Gas Company .....	805 - 8th Ave. W., Calgary .....	Cessford
Chieftain Mac Gas Ltd. ....	8631 - 109th St., Edmonton .....	Provost
Goliad Oil & Gas Co. Ltd. ....	610 Hudson's Bay Oil & Gas Bldg., Calgary .....	Pembina
Horn Oil Company Limited .....	304 - 6th Ave. S.W., Calgary .....	Carstairs
Hudson's Bay Oil and Gas Co. Ltd. ....	320 - 7th Ave. W., Calgary .....	Cessford and Oyen
Imperial Oil Limited .....	111 St. Clair Ave. W., Toronto 7, Ontario .....	Various
Kern-McGee Oil Industries Inc. ....	Kern-McGee Bldg., Oklahoma City, Oklahoma, U.S.A. ....	Prevo
Mid-Western Industrial Processors Ltd. ....	Box 5460, Edmonton .....	Alexander
Murphy Oil Company Ltd. ....	703 - 5th St. S.W., Calgary .....	Princess
Okalta Oils Limited.....	224 - 9th Ave. S.W., Calgary .....	Princess
Pan American Petroleum Corporation .....	444 - 7th Ave. S.W., Calgary .....	Windfall and Three Hills
Progas Ltd. ....	250 Elveden House, Calgary .....	Acheson
Provo Gas Producers Ltd. ....	706 - 7th Ave. S.W., Calgary .....	Provo Viking
Royalite Oil Company Limited.....	Royalite Bldg., Calgary .....	Turner Valley
Shell Oil Co. of Canada Ltd. ....	1027 - 8th Ave. W., Calgary .....	Jumping Pound
Sohio Petroleum Company .....	309 - 8th Ave. S.W., Calgary .....	Chigwell East
Sun Oil Company .....	Drawer 38, Calgary .....	Countess, Enchant, and Sibbald
Texaco Exploration Company .....	237 - 7th Ave. W., Calgary, Alta. ....	Bonnie Glen, Cynthia
Texas Gulf Sulphur Co. (Inc.) ....	75 East 45th St., New York 17, N.Y., U.S.A. ....	Okotoks
Tidal Petroleum Corp. Ltd. ....	8631 - 109th St., Edmonton .....	Cessford
<b>British Columbia:</b>		
Jefferson Lake Petrochemicals of Canada Ltd... Pacific Petroleum Ltd. ....	410 Petroleum Bldg., Calgary, Alberta .....	Taylor
	320 - 9th Ave. S.W., Calgary, Alberta .....	Fort St. John

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