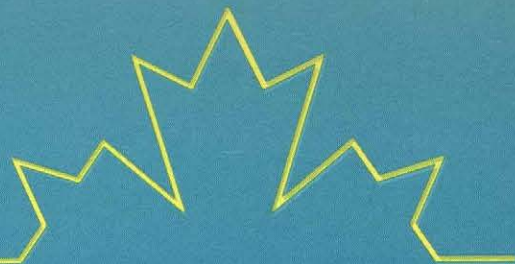


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IMPORT ANALYSIS

Market Research Support

OIL AND GAS FIELD EQUIPMENT
APRIL, MAY AND JUNE 1985

Pub. No: 86009-RR Aug. 6, 1986



Government
of Canada

Regional Industrial
Expansion

Gouvernement
du Canada

Expansion industrielle
régionale

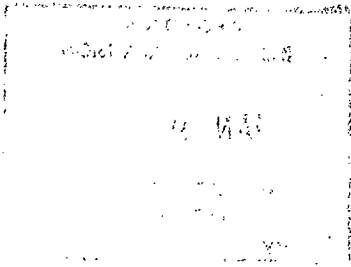
Canada

I.D. 3047



OIL AND GAS FIELD EQUIPMENT
APRIL, MAY AND JUNE 1985

Pub. No: 86009-RR Aug. 6, 1986



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EXPLANATORY NOTES

Method

The data shown in this analysis is extracted from Revenue Canada Customs documents. These documents provide a description of the products, names of importers, exporters, quantities, dollar values, unit prices, countries of origin, provinces of entry, tariff applications and rates of exchange.

The information presented in this report is more detailed than that generally available from Statistics Canada or other publications. Data which might reveal information about individual importers is aggregated.

Valuation

Dollar values shown in this report are based on selling price F.O.B. plant, in Canadian dollars. This selling price represents the value paid by the importer, excluding all freight, packing and insurance costs when specified. All trade discounts, when applicable, are also deducted from the selling price.

Rounding

Figures may not add due to rounding.

REFERENCE SOURCES

Department of Regional Industrial Expansion
Statistics Canada
Revenue Canada

FOR MORE INFORMATION PLEASE CONTACT:

Market Information and Analysis Division
Market Development Branch
Department of Regional Industrial Expansion
235 Queen Street
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OR

Energy Equipment Division
Machinery and Electrical Equipment Branch
Department of Regional Industrial Expansion
235 Queen Street
Ottawa, Ontario
K1A 0H5
Tel: (613) 954-3191

OR

The nearest DRIE Regional Office.
These offices are listed on the last
page of this publication.

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IMPORT ANALYSIS

OIL AND GAS FIELD EQUIPMENT

I. INTRODUCTION AND SCOPE

This Import Analysis is one of a series prepared in order to assist businesses and other organizations in their market research of specific products. The detailed import information provided in these reports supports studies by organizations seeking to expand existing production lines, change individual product characteristics or engage in new manufacturing investment in Canada. The coverage of an import analysis is developed in close consultation with the client, and is tailored to meet those specific requirements. It is important to emphasize that this report does not attempt any assessment as to the feasibility of competing in a particular market.

This analysis of selected imports of oil and gas field equipment (which is normally used up to the field marketing valve) is based on a detailed examination of Revenue Canada Customs import documents for the period April to June 1985. The following Canadian International Trade Classification (C.I.T.C.) Import Commodity Codes were analyzed:

Rock Drill Bits, Rotary Type

521-07-20	Rock Drill Bit, Rotary, Tungsten Carbide
521-07-88	Rock Drill Bit, Rotary, Parts of
521-07-90	Rock Drill Bit; Rotary, not elsewhere specified (N.E.S.)

Well Drilling Machinery, Apparatus and Parts

521-17-21	Drilling Machinery, Oil Well Rotary Type
521-17-28	Drilling Machinery, Oil Well Rotary Types Parts
521-17-31	Well Drilling Machinery, Natural Gas
521-17-38	Well Drilling Machinery, Natural Gas Parts Of
521-17-59	Mud System Machinery, Oil Well, NES
521-17-81	Drilling Rig, Oil Well, Percussion Type
521-17-82	Drilling Rig, Oil Well, Sea-Going Type
521-17-85	Pump, Mud, Oil Well
521-17-87	Tool Joint, Oil Well Exc. Comb. Drillpipe
521-17-88	Well Drilling Machinery, Oil Well NES, Parts of
521-17-89	Well Drilling Machinery, Oil NES

Petroleum and Gas Field Production Equipment, and Parts

521-79-21	Pump, Bottom Hole Type, Oil Well
521-79-22	Pump, Walking Beam Type, Oil Well
521-79-23	Pump, Liquid Petroleum Gas, Oil Field
521-79-24	Sucker Rods, Oil Well
521-79-26	Pressurising Equipment, Oil Well
521-79-27	Well Packer, Oil Field Production
521-79-28	Pumping Mach/Equip Sub-Surf Oil Well NES Parts
521-79-29	Pumping Mach/Equip Sub-Surf Oil Well, NES
521-79-32	Heaters, Indirect Type, Oil Field Production
521-79-42	Separator/Trap, Oil & Gas, Oil Field Production
521-79-51	Scrubber, Gas, Natural Gas, Field Production
521-79-52	Separators, Gas, Natural Gas Field Production

521-79-58	Natural Gas, Field Prod Mach/Equip, NES, Parts
521-79-59	Natural Gas, Field Prod Mach/Equip, NES
521-79-71	Extracting Mach, Thermal Type Oil Sands
521-79-78	Oil Prod Mach/Equip, Oil Sands, NES Parts
521-79-79	Oil Producing Mach/Equip, Oil Sands, NES
521-79-88	Oil/Petrol Field Prod Mach/Equip, NES, Parts
521-79-89	Oil/Petroleum Field Prod Mach/Equip, NES

Geophysical and Mineral Prospecting Equipment and Parts

709-94-11	Magnetometers, Geophysical
709-94-21	Seismic Instruments
709-94-28	Seismic Instruments, Parts of
709-94-31	Meters, Gravity, Prospecting
709-94-88	Geophysical Instruments, Parts of
709-94-90	Geophysical Instruments, NES

Excluded from this analysis are imports of water well, oil and gas refinery and pipeline system machinery.

Due to the large volume of documents classified to the aforementioned C.I.T.C. import commodity codes only those shipments having a value of \$20 000 and over were examined.

Total figures in this report do not correspond to those published by Statistics Canada. The differences are explained in Appendix F.

II. ANALYSIS OF IMPORTS

- Imports of oil and gas field equipment in the three months of April to June, 1985, were \$125 million.

- The United States was the dominant source of these imports, accounting for \$119 million, or 95 per cent of the total.

- Alberta was the major province of entry: \$96 million of the imports entered there.

- Imports of drilling equipment were valued at \$60 million, or 47 per cent of the total imports of oil and gas field equipment, during the period analyzed.

SUMMARY OF IMPORTS

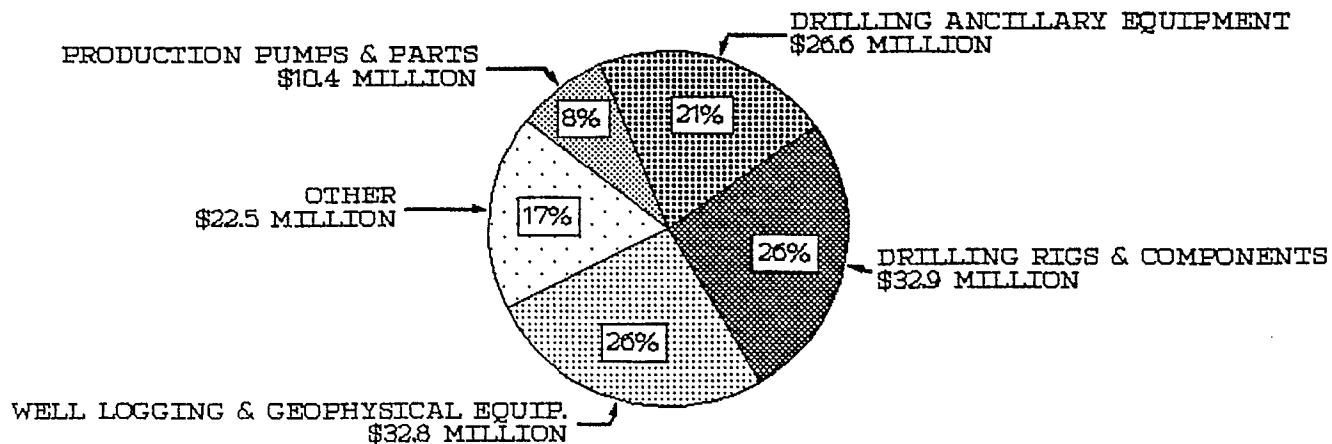
IMPORTS OF OIL AND GAS FIELD EQUIPMENT

APRIL, MAY AND JUNE 1985

	<u>Value</u> (\$ 000)	<u>% of</u> <u>Total Value</u>
Drilling Rigs and Components	32 868	26
Drilling Ancillary Equipment	26 649	21
Completion and Permanent In-place Equipment	1 714	1
Production Pumps and Parts	10 410	8
Well Servicing and Treating Equipment	5 768	5
Down Hole Pressure Controlling and Measuring Devices	1 696	1
Oilfield Depletion Equipment	3 487	3
Well Logging and Geophysical Equipment	32 794	26
Well Servicing Equipment	996	1
Equipment Between Well Head and Field Marketing Valve	871	1
Machinery and Apparatus Used for Operating Oil Sands by Mining Operations or for Extracting Oil from Sand so Mined	2 866	2
General Purpose Equipment	706	1
Offshore Drilling/Sub Sea Components	<u>4 373</u>	<u>4</u>
 GRAND TOTAL	 125 198	 100

Of the total import market value, imports of "Drilling Rigs/Components" and "Well Logging/Geophysical Equipment" each accounted for 26 per cent. This was followed by "Drilling Ancillary Equipment" with 21 per cent, and "Production Pumps and Parts" with eight per cent. Imports of all other equipment accounted for the remaining 17 per cent. For further details see Appendix A.

GRAPH I



PERCENTAGE OF VALUE 100% = \$125 MILLION

ALL PERCENTAGE FIGURES ARE ROUNDED

IMPORTS OF OIL AND GAS FIELD EQUIPMENT
SUMMARY OF IMPORTS - BY COUNTRY OF ORIGIN
APRIL, MAY AND JUNE 1985

	<u>Value</u> <u>(\$,000)</u>
United States	118 887
France	3 463
United Kingdom	735
Federal Republic of Germany	522
Japan	299
Singapore	273
Republic of China	*
Sweden	241
The Netherlands	226
Norway	*
Austria	*
Australia	*
Italy	*
Brazil	*
GRAND TOTAL	<hr/> 125 198

The United States was the dominant source of imports of oil and gas field equipment, during the period analyzed, accounting for \$119 million, or 95 per cent of total imports. France, with \$3.5 million, was the only other country that shipped more than \$1 million worth of equipment, for the period analyzed; most of the imports from France were in the well logging and geophysical category.

*Aggregated for reasons of confidentiality, the total value for those countries was \$778,000.

IMPORTS OF OIL AND GAS FIELD EQUIPMENT

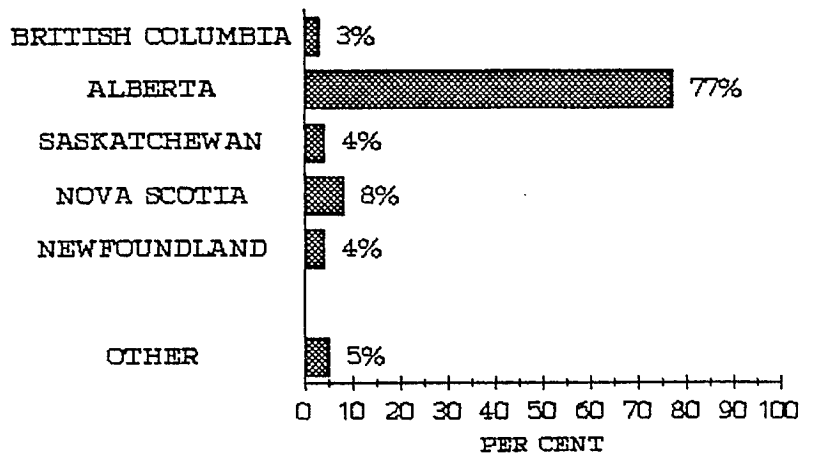
SUMMARY OF IMPORTS - BY PROVINCE OF CLEARANCE

APRIL, MAY AND JUNE 1985

	<u>Value</u> (\$ million)	<u>% of Total</u> <u>Value</u>
Alberta	96	77
Nova Scotia	10	8
Newfoundland	5	4
Saskatchewan	5	4
British Columbia	3	3
Ontario	2	2
New Brunswick	2	1
Manitoba	1	1
Québec	1	1
	125	100

Alberta was the major Province of clearance accounting for \$96 million, or 77 per cent of the total value. Imports cleared through Saskatchewan, British Columbia and Manitoba accounted for another nine million dollars collectively. The Atlantic Provinces accounted for 17 million dollars collectively.

GRAPH II - PROVINCE OF CLEARANCE



IMPORT MARKET CONCENTRATION

<u>Importers</u> (By value)	<u>Cumulative</u> <u>Value</u> (\$,000)	<u>% of Total</u> <u>Value</u>
Top 3	27 229	22
Top 6	40 480	32
Top 29	82 695	66

There were at least 282 known importers of oil and gas field equipment during the three months of April to June 1985.

Twenty nine importers of oil and gas field equipment had imports of at least \$1 million during that period.

The top six importers accounted for \$40.5 million, or 32 per cent of the total import value. Four of these six were in the oil and gas extraction industry; their imports of oil and gas field equipment totalled \$28.6 million during April, May and June, 1985.

III. CANADIAN PRODUCTION

Statistics Canada reports Canadian manufacturers' shipments of oil and gas field equipment for 1984 (latest year available) as follows.

	<u>Value</u> (\$,000)
Rock drilling and earth boring machinery	46 765
Rock drill bits, diamond	16 673
Rock drill bits, tungsten-carbide	42 423
Parts for rock drilling and earth boring machinery	21 158
Petroleum field production equipment	129 873
Natural gas field production equipment	86 338
Parts for oil and gas field equipment (including, pipeline equipment)	<u>30 761</u>
	373 991

Note - Manufacturers of oil and gas field production equipment are included in the standard industrial classification (SIC) 3192 - Construction and Mining Machinery.

This SIC number also includes establishments primarily engaged in manufacturing construction machinery, petroleum refining machinery and parts; mining, quarrying and ore dressing machinery and parts; and materials handling equipment.

Consequently these Canadian production figures may include products manufactured for other industries as well. For example, the figure of \$46.8 million for the production of rock drilling and earth boring machinery, may include mobile drilling rigs used by the petroleum industry and other products used in mining.

Source - Statistics Canada Catalogue 42-214, Annual, "Other Machinery and Equipment Industries".

MARKET SUMMARY

The oil and gas field equipment industry in Canada produces a wide variety of machinery and components used in the exploration for, and drilling and servicing of oil and gas wells. The industry is composed of approximately 300 small to medium sized companies which employ 5 500 people. Much of the equipment made by the industry is considered to be critical in the sense that a breakdown of a single component can stop an entire drilling or servicing operation. The industry draws upon a wide variety of industry sectors for the supply of basic steel, castings, forgings, pumps, engines, etc. Its principal markets are oil field supply houses (distributors), drilling contractors, and the oil companies.

In 1985, shipments of oil and gas field equipment were an estimated \$650 million, of which some \$200 million, or 31 per cent were exports. The U.S.A. accounted for about 25 per cent of Canada's exports, while the Soviet Union, South Asia and China collectively represented some 50 per cent, and South America, the Middle East and Africa accounted for the remaining 25 per cent. Competition in international markets comes mainly from the U.S.A., the U.K., France, Italy and Japan. Annual imports of oil and gas field equipment amounted to approximately \$450 million and captured about half of the domestic market. About 95 per cent of imports were from the U.S.A., Canada's biggest competitor in both domestic and export markets.

In the domestic market, over 70 per cent of oil and gas field equipment is sold to drilling contractors and oil companies, through supply houses. With few exceptions, the major supply houses in Canada are subsidiaries of supply houses in the U.S.A.

The oil and gas field equipment manufacturing industry in Canada is relatively new. There was practically no production capability twenty years ago; whereas, today the sector exports about one third of its production and supplies approximately half of the Canadian market.

The current high level of imports suggests that the sector provides major opportunities for import replacement. Firms are also encouraged to explore export opportunities that will allow them to increase plant capacity utilization and efficiency. Interested manufacturers could consider and investigate possible joint ventures or technology transfer arrangements with foreign manufacturers of oil and gas field equipment.

For more information please contact:

Energy Equipment Division
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Department of Regional Industrial Expansion
235 Queen Street
Ottawa, Ontario
K1A 0H5
Tel.: (613) 954-3191

IMPORTS OF OIL AND GAS FIELD EQUIPMENT

APRIL, MAY AND JUNE 1985

<u>DRILLING RIGS AND COMPONENTS</u>	<u>Quantity (No.)</u>	<u>Value (\$)</u>
<u>Drilling Rigs (complete)</u>		
new equipment	11	21 144 363
used equipment	7	4 309 605
<u>Drilling Rig Components</u>		
Blocks Hooks and Sheaves	-	270 219
Catheads and Parts	-	*
Down Hole Motors and Parts	-	600 127
Drawworks and Parts	-	518 835
Engines:	45	470 545
Parts	-	383 755
Float Equipment, including Centralizers, Scrapers and Scratchers	-	1 229 473
Hydraulic Components and Parts	-	*
Kellys, Kelly Cocks, Spinners and Parts	-	142 880
Lighting Equipment	-	*
Masts, Derricks and Parts	-	381 616
Mud System Equipment and Parts, Not Further Identified (including shale shakers)	-	432 832
Mud and Slush Pumps: \$3 000 to 20 500	16	89 358
\$20 600 to 30 000	4	95 508
Over 60 000	4	276 770
Parts	-	307 749
Power Transmissions Equipment (including brake units and hoist)	-	223 446
Power Units and Parts	-	*
Rotary Hoses	-	*
Rotary Tables	-	*
Silicon Control Rectifier (SCR) Systems	7	501 593
Subs and Shock Absorbers & Parts	-	*

IMPORTS OF OIL AND GAS FIELD EQUIPMENT (Continued)

APRIL, MAY AND JUNE 1985

<u>DRILLING RIGS AND COMPONENTS (Cont'd)</u>	<u>Quantity (No.)</u>	<u>Value (\$)</u>
Swivels and Parts	-	157 710
Thread Protectors	-	*
Drilling Rig Components, Not Further Identified (NFI) (*included)	-	<u>1 331 536</u>
Subtotal		32 867 920
<u>DRILLING ANCILLARY EQUIPMENT</u>		
Blowout Preventers: Under 6"	416	106 095
6" to 9"	9	207 549
10" to 20"	11	822 376
-	9	225 235
Parts	-	1 341 113
Chokes and Choke Manifolds	-	*
Drill Bits: Under 4.5"	437	130 641
Over 4.5" to 6"	365	251 433
Over 6" to 8"	2 458	3 912 872
Over 8" to 10"	2 354	6 727 175
Over 10" to 12.5"	650	2 347 568
Over 12.5" to 17.5"	382	1 445 090
Over 17.5"	13	181 368
-	376	926 666
Parts	-	1 195 989
Drill Collars:	141	1 133 508
Parts	-	49 005
Elevators and Parts	-	393 975
Fishing and Cutting Tools	-	907 111
Jars	-	*
Plugs and Parts	-	*
Reamers	47	316 173
Slips and Parts	-	51 852

IMPORTS OF OIL AND GAS FIELD EQUIPMENT (Continued)

APRIL, MAY AND JUNE 1985

<u>DRILLING ANCILLARY EQUIPMENT (Cont'd)</u>	<u>Quantity (No.)</u>	<u>Value (\$)</u>
Tongs: Manual	-	*
Power	9	212 498
Parts	-	124 222
Tool Joints	-	*
Tool Parts	-	*
Drilling Ancillary Equipment, Not Further Identified (* included)	-	<u>3 639 847</u>
Subtotal		26 649 361
<u>COMPLETION AND PERMANENT IN-PLACE EQUIPMENT</u>		
<u>Well Completion Equipment</u>		
Casing Heads and Parts	-	159 867
Christmas Trees and Parts	-	*
Flow Controls and Parts	-	*
Tubing Heads:	99	82 363
Parts	-	184 696
Miscellaneous Well Completion Equip (* included)	-	<u>1 287 340</u>
Subtotal		1 714 266
<u>PRODUCTION PUMPS AND PARTS</u>		
Down Hole Pumps, Centrifugal:	69	551 594
Parts	-	3 733 549
Down Hole Pumps, Reciprocating and Parts	-	257 030
Gear Boxes and Gears for Pump Jacks	-	1 217 418
Pump Jacks: 60 000 to 1 000 000 lb. - in Rating, including hydraulic pump jacks	138	1 536 757
Parts	-	1 205 416
Sucker Rods:	18 279	908 245
Parts and Accessories	-	406 124
Miscellaneous Down Hole Pumping Equipment and Parts	-	<u>593 563</u>
Subtotal		10 409 696

IMPORTS OF OIL AND GAS FIELD EQUIPMENT (Continued)

APRIL, MAY AND JUNE 1985

	<u>Quantity</u> (No.)	<u>Value</u> (\$)
<u>WELL SERVICING AND TREATING EQUIPMENT</u>		
Cementing and Fracturing Equipment and Parts	-	1 319 545
Packers:	838	2 186 820
Parts	-	<u>2 261 543</u>
Subtotal		5 767 908
<u>DOWN HOLE PRESSURE CONTROLLING AND MEASURING DEVICES</u>		
Controlling and Measuring Devices Not Further Identified (such as block accumulator, stem assy, liners, and all pressure maintenance equipment)		
Subtotal	-	1 696 467
<u>OILFIELD DEPLETION EQUIPMENT</u>		
Perforating Equipment and parts (including perforating guns)		
Subtotal	-	3 486 689
<u>WELL LOGGING AND GEOPHYSICAL EQUIPMENT</u>		
Well Logging/Wireline Equipment and Parts	-	17 981 249
Instruments, Gauges, Indicators, Regulators & Analysis Equipment	-	502 238
<u>Geophysical Prospecting Equipment</u>		
Computer Hardware(1)	-	1 655 672
Geophones(1)	3 117	205 220
Mobile Vibration Units and Parts(1)	-	635 488
Recording Instruments and Parts(1)	-	3 864 067
Geophysical Prospecting Equipment N.F.I. (Including Seismic Drill Rigs, Core equipment)	-	<u>7 950 291</u>
Subtotal		32 794 225

(1) Other items of these types may be included with geophysical prospecting equipment N.F.I.

IMPORTS OF OIL AND GAS FIELD EQUIPMENT (Continued)

APRIL, MAY AND JUNE 1985

	<u>Quantity</u> (No.)	<u>Value</u> (\$)
<u>WELL SERVICING EQUIPMENT</u>		
Service Rigs and Parts		
Subtotal		996 053
<u>EQUIPMENT BETWEEN WELL HEAD AND FIELD MARKETING VALVE</u>		
Chemical Injection Pumps and Parts	-	112 558
Distillation and Dehydration Equipment	-	110 932
Heaters, Separators, Treaters and Parts	-	<u>647 077</u>
Subtotal		870 567
<u>MACHINERY AND APPARATUS USED FOR OPERATING OIL SANDS BY MINING OPERATIONS OR FOR EXTRACTING OIL FROM SAND SO MINED</u>		
Equipment for Removal of Over Burden, Draglines, Loaders Conveyers and Parts including equipment for extracting oil from Tar Sands		
Subtotal	-	2 865 883
<u>GENERAL PURPOSE EQUIPMENT</u>		
Steam Generators and Parts	-	105 882
Swivel Joints and Unions	-	134 251
Valves: Ball)		
Check)	-	354 773
Parts	-	<u>111 333</u>
Subtotal		706 239
<u>OFFSHORE DRILLING/SUB SEA COMPONENTS</u>		<u>4 373 210</u>
GRAND TOTAL		125 198 484

CANADIAN IMPORTERS

Importers of oil and gas field equipment during the period April, May and June 1985, as indicated in this report are listed below in alphabetical order. Where the importer is not the same as the consignee, (i.e. the recipient of the goods shipped), the name of the consignee rather than that of the importer is listed. The importer or consignee is not necessarily the end-user of the product.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
A-Cubed Inc.	Mississauga, Ont.	Bedford Institute of Oceanography	Dartmouth, N.S.
AMF Geospace Canada Ltd.	Calgary, Alta.	Beta Well Service Ltd.	Leduc, Alta.
Aanderaa Instruments Ltd.	Victoria, B.C.	Bingham-Willamette	Burnaby, B.C.
Acer Industries Alberta Ltd.	Leduc, Alta.	Biosorb Canada Ltd.	Calgary, Alta.
Acro Machine	Calgary, Alta.	BoCam Drilling Ltd.	Calgary, Alta.
Adamant Oilwell Coring Services	Nisku, Alta.	Bow Valley Offshore	St. John's, Nfld.
Alberta Gold Well Servicing Ltd.	Edmonton, Alta.	Bowen Tools Ltd.	Dartmouth, N.S.
Alberta Oil Tool Co., Div. of Dover Corporation Canada Ltd.	Edmonton, Alta.		Edmonton, Alta.
Alberta Perforators Inc.	Leduc, Alta.	Brinkerhoff Drilling Ltd.	Calgary, Alta.
All-Star Petroleum Equipment Ltd.	Edmonton, Alta.	Brockham Oilwell Services	Edmonton, Alta.
Allstack BOP Sales & Services Ltd.	Calgary, Alta.	C N Exploration	Kindersley, Sask.
Ampscot Equipment Ltd.	Nisku, Alta.	C.E. Natco Limited	Calgary, Alta.
Anadrill of Canada	Mount Pearl, Nfld.	C.G.G. Geophysics Canada Ltd.	Calgary, Alta.
	Halifax, N.S.		Airdrie, Alta.
Anthes Industries Ltd.	Calgary, Alta.	Cactus Drilling	Nisku, Alta.
Ardco Industries Inc.	Stoney Plain, Alta.	Cameron Iron Works of Canada Ltd.	St. John's, Nfld.
Argus Drilling (Taro)	Calgary, Alta.		Edmonton, Alta.
Arrowhead Drilling Ltd.	Calgary, Alta.		Halifax, N.S.
Atco Drilling Ltd. (Atco Well Services)	Calgary, Alta.	Gamesa Cables Ltd.	Edmonton, Alta.
Atlantic Oceanics Co. Ltd.	Dartmouth, N.S.	Canadian Drilling Equipment Ltd.	Calgary, Alta.
Atmospheric Environment Services	Downsview, Ont.	Canadian Engineering Surveys Co. Ltd.	Edmonton, Alta.
B. J. Titan	Calgary, Alta.	Canadian Forces Base Esquimalt	Victoria, B.C.
B.J. Hughes Machinery, Div. of Hughes Tool Co. (Cda) Ltd.	Edmonton, Alta.	Canadian Fracmaster Ltd.	Calgary, Alta.
B.W. Rig Repair & Supply	Edmonton, Alta.	Canadian Hunter Exploration Ltd.	Grand Prairie, Alta.
BMW Monarch Ltd.	Kindersley, Sask.	Cape Oil Ltd.	Calgary, Alta.
	Lloydminster, Sask.	Cardium Service & Supply	Edmonton, Alta.
Baker Packers-Canada	Edmonton, Alta.	Cardwell Manufacturing Co. Ltd.	Edmonton, Alta.
Baker Production Services	Red Deer, Alta.	Caulfield Engineering	Nisku, Alta.
	Calgary, Alta.	Cecil Papke Sales & Rental	Spruce Grove, Alta.
Baker Sand Control (Canada) Ltd.	Red Deer, Alta.	Cenalta Oilwell Servicing Ltd.	Red Deer, Alta.
Baker Service Tools	Edmonton, Alta.	Centennial Drilling Ltd.	Calgary, Alta.
Barber Industries (Bralome Resources Ltd.)	Edmonton, Alta.	Centrilift-Hughes Division Hughes Tool Company (Canada) Limited	Edmonton, Alta.
Baroid Logging Systems	Dartmouth, N.S.	Century Geophysical Corp. of Canada	Calgary, Alta.
Bear Tools	Dartmouth, N.S.	Challenger Drilling	Nisku, Alta.
Beaudril Ltd.	Nisku, Alta.	Chambers Engineering Ltd.	Edmonton, Alta.
Beaver Geophysical Services Co. (Line Resource Information Inc.)	Calgary, Alta.	Chaparral Oilfield Services Ltd.	Edmonton, Alta.
Becker Oil Tools	Estevan, Sask.	Clark Supply and Service	Saskatoon, Sask.
		Cole McCubbin Ltd.	Edmonton, Alta.
		Collège de Jonquière	Jonquière, Qué.

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Cominco Ltd.	Kimberley, B.C.	Esso Resources Canada Ltd.	Calgary, Alta.
Computalog Gearhart Ltd.	Dartmouth, N.S.		Edmonton, Alta.
	Edmonton, Alta.	Exploranium G.S. Ltd.	Bolton, Ont.
Conetec Investigations	Vancouver, B.C.	Exploration Logging Canada Ltd.	Calgary, Alta.
Control Drilling Service	Edmonton, Alta.	Explosives Ltd.	Calgary, Alta.
Copeco Equipment Inc.	Calgary, Alta.	F.A.C.T.S. Oil Tools	Leduc, Alta.
Core Laboratories Canada Ltd.	Edmonton, Alta.	FWI Canada Ltd., Div. of	
Corunna Petroleum Ltd.	Corunna, Ont.	Geosource	Calgary, Alta.
Crown Drilling Ltd.	Virden, Man.	Fagersta Secoroc Limited	Burlington, Ont.
D and S Manufacturing Ltd.	Edmonton, Alta.	Far North Rental Services Ltd.	Calgary, Alta.
DHN Services Ltd.	Calgary, Alta.	Farr International 1979 Ltd.	Edmonton, Alta.
Dalhousie University, Geology Dept.	Halifax, N.S.	Federal Dept. of Fisheries and Oceans	Ottawa, Ont.
Davis-Lynch Inc.	Edmonton, Alta.		Sydney, B.C.
Deepsea Oilfield Services Inc.	Dartmouth, N.S.		St. John's, Nfld.
	Dorval, Qué.	Flop petrol Johnston of Canada	Dartmouth, N.S.
Defence Research Establishment Pacific	Victoria, B.C.		Edmonton, Alta.
Deines Perforating	Red Deer, Alta.		St. John's, Nfld.
Diamond Oil Well Drilling Co.	Nisku, Alta.	Foster Cathead 1975 Ltd.	Nisku, Alta.
Dobrocky Seatech Ltd.	St. John's, Nfld.	Foulis Engineering Sales Ltd.	Halifax, N.S.
Dome Petroleum Ltd.	Nisku, Alta.	Franklin Supply Co. Ltd.	Edmonton, Alta.
Dominion Oilfield Supply Ltd.	Estevan, Sask.	GB Master Flo Valve Co.	Edmonton, Alta.
	Kindersley, Sask.	GEC Diesels Inc.	Etobicoke, Ont.
	Calgary, Alta.		Toronto, Ont.
Dowell Schlumberger Canada Inc.	Dartmouth, N.S.	Galaxy Oilfield Service Ltd.	Edmonton, Alta.
	Nisku, Alta.	Gale Resources Ltd.	Calgary, Alta.
Dresser Canada Inc.	Dartmouth, N.S.	Geo Vann Oilfield Services	Red Deer, Alta.
	Sudbury, Ont.	Geolograph Services Ltd.	Edmonton, Alta.
	Calgary, Alta.	Geophysical Cable Mfg. Alberta Ltd.	Calgary, Alta.
Drill Rite Industries	Dartmouth, N.S.	Geophysical Service Inc.	Calgary, Alta.
Drill Systems, Div. of Dualco Manufacturing Ltd.	Calgary, Alta.		Paradise, Nfld.
Drilling Measurements Inc.	St-Albert, Alta.	Geoservices North America Ltd.	St. John's, Nfld.
Dura Products	Swift Current, Sask.	Geosource Canada Ltd.	Calgary, Alta.
Durango Drilling Ltd.	Medecine Hat, Alta.	Geotechnical Operations	Burnaby, B.C.
Dyer Equipment Inc.	Calgary, Alta.	Geoterrex Limited	Ottawa, Ont.
Dyna Drill, Div. of Smith International (Canada) Ltd.	Dartmouth, N.S.	Gibson Petroleum Co. Ltd.	Calgary, Alta.
	Edmonton, Alta.	Glomar Labrador I/Marican Offshore Drilling Services	Port Hawkesbury, N.S.
	Edmonton, Alta.	Guiberson Oil Tools	Edmonton, Alta.
E.S. Kyle Ltd.	St. John's, Nfld.	H.P. Higginbottom Ltd. Veritas Seismic Ltd.	Calgary, Alta.
Easteel Industries	Nisku, Alta.	Halliburton Services Limited	Edmonton, Alta.
Eastman Whipstock Ltd.	Lloydminster, Alta.		Calgary, Alta.
Endiem Oil Tools Ltd.	Nisku, Alta.	Harbison Fischer Canada Ltd.	Calgary, Alta.
Ener-Rig Supply	Sydney, B.C.	Heath Consultants	London, Ont.
Energy Mines & Resources	Ottawa, Ont.	Hill Peck Controls Ltd.	Nisku, Alta.
		Homco International	Nisku, Alta.
Environment Canada, National Water Research Institute	Burlington, Ont.	Home Oil Company Limited	Lloydminster, Alta.
Equine Resource Ltd.	Calgary, Alta.	Honeywell Limited	Willowdale, Ont.

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Hoskin Scientific Ltd.	Oakville, Ont.	Mining Equip. Co. of Canada	
Hughes Offshore (Drilling Equipment)	St. John's, Nfld.	Div. of Smith Int'l Canada Ltd.	Sudbury, Ont.
Hydril Canadian Co. Ltd.	Calgary, Alta.		Dorval, Qué.
ICG Liquid Gas Ltd.	St-Catharines, Ont.		Richmond, B.C.
ICG Resources Ltd.	Calgary, Alta.	Mobil Canada Ltd.	Halifax, N.S.
ITT Barton Instruments Div.	Calgary, Alta.	Moore's Machine Shop	Calgary, Alta.
Import Tool Corporation Ltd.	Edmonton, Alta.	Mountain Rig & Equipment	Edmonton, Alta.
Indel-Davis Ltd.	Calgary, Alta.	Mow-Tech Ltd.	Edmonton, Alta.
Industrial AG Supplies	Lacombe, Alta.	N L McCullough, Div. N.L. Industries Inc.	Edmonton, Alta.
Ingersoll-Rand Canada Inc.	Dorval, Qué	NL Shaffer/NL Industries Inc.	Edmonton, Alta.
Institute of Ocean Sciences	Sidney, B.C.	NL Sperry Sun of Canada Ltd.	Dartmouth, N.S.
Ipsco Inc.	Regina, Sask.		Edmonton, Alta.
Iron Ore Company of Canada	Labrador City, Nfld.		Edmonton, Alta.
Itag Exploration Inc.	Edmonton, Alta.	Nagal Well Servicing Ltd.	Estevan, Sask.
J & L Supply	Calgary, Alta.	National Supply Co. Ltd.	St. John's, Nfld.
J. Horn Drilling Ltd.	Calgary, Alta.		Dartmouth, N.S.
JM Huber Corporation	Edmonton, Alta.		Edmonton, Alta.
Jomax Drilling	Edmonton, Alta.	Neyrfor Turbodrilling Company of Canada	Calgary, Alta.
Kenting Drilling Ltd.	Nisku, Alta.	Nordic Well Servicing Inc., Div. of Roll-N-Well Service	Red Deer, Alta.
Key Oilfield Supply & Rental Ltd.	Nisku, Alta.	Northern Geophysical (1975) Ltd.	Calgary, Alta.
Koomey Control Systems of Canada Ltd.		Northwest Pipe and Supply Co. Ltd.	Calgary, Alta.
Kremco (Knoll Rig & Equipment Mfg. Co. Ltd.)	Edmonton, Alta.	Norton Canada Inc.	Calgary, Alta.
LEP International Inc.	Edmonton, Alta.	Norton Christensen Canada Ltd.	St. John's, Nfld.
	Calgary, Alta.		Edmonton, Alta.
	Edmonton, Alta.	Newsco Well Services	Calgary, Alta.
LTV Energy Products Co. Ltd.		Nugget Drilling Ltd.	Edmonton, Alta.
La Compagnie Minière Québec Cartier	Montréal, Qué.	Nusco Pipe and Supply Ltd.	Calgary, Alta.
Landmark Graphics Corporation	Calgary, Alta.	O & K	Mildred Lake, Alta.
Lawrence Livermore Nat'l Labs	Red Lake, Ont.	OPI Ltd.	Edmonton, Alta.
Legrand Industries Ltd.	Calgary, Alta.	OPSCO Industries Ltd.	Calgary, Alta.
Lift Systems International	Battleford, Sask.	Ocelot Industries Ltd.	Calgary, Alta.
Locker Evers International	Winnipeg, Man.		Nisku, Alta.
Lufkin Industries Canada Ltd.	Nisku, Alta.	Oilmove International	St. John's, Nfld.
Lynes United Services Ltd.	Edmonton, Alta.	Old Repair Shop	Airdrie, Alta.
Lynx Tool Co.	Edmonton, Alta.	Ontario Drilling Supply, Div. of Canroc Drilling Supply Ltd.	Antikokan, Ont.
M.S.E. Engineering Systems Ltd.	Downsview, Ont.	Ontario Hydro	Toronto, Ont.
Macbernal Recycling	Leduc, Alta.	Orbit Valve Canada Ltd.	Calgary, Alta.
Mark Products Ltd.	Calgary, Alta.	Otis Engineering Co. Ltd.	St. John's, Nfld.
Maxi-Torque Drill Systems Inc.	Edmonton, Alta.		Calgary, Alta.
McElhanney Services Ltd.	Vancouver, B.C.	PHB Weserhutte Inc.	Edmonton, Alta.
	Dartmouth, N.S.	Pembina Exploration Co. Ltd.	Port Colborne, Ont.
	Toronto, Ont.	Pengo Industries of Canada	Leduc, Alta.
McQuest Marine Sciences Ltd.	Port Colbourne, Ont.	Petro-Canada Inc.	Montréal, Qué.
Medina Oil Field Supply Inc.	Edmonton, Alta.		
Mid-Continent Supply Co.	Edmonton, Alta.		
Midwest Oilfield Supply Ltd.	Kindersley, Sask.	Petroleum Supply Int'l Ltd.	Calgary, Alta.

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Petty-Ray Geophysical Operations Div. of Geosource Inc.	Calgary, Alta.	Seismograph Service Corporation of Canada	Calgary, Alta.
Phelps Drilling International	Calgary, Alta. Nisku, Alta.	Select Tubular Div. Maron Resources	Calgary, Alta.
Plains Perforating Ltd.	Brooks, Alta.	Sercel Electronics of Canada Ltd.	Calgary, Alta.
Positec Ltd.	Calgary, Alta.	Shell Canada Ltd.	Calgary, Alta.
Positive Action Tool Western Ltd.	Edmonton, Alta.	Simmons Drilling Ltd.	Nisku, Alta. Calgary, Alta.
Prairie Mud and Chemical Services Ltd.	Estevan, Sask.	Sinotex International Consultants Inc.	Regina, Sask. Sudbury, Ont.
Prime Explosives Perforating Supplies Ltd.	Calgary, Alta.	Sling Choker Mfg. Ltd.	Richmond B.C.
Pryndik Bit & Supply	Fort St. John, B.C.	Slope Indicator Canada Ltd.	Sudbury, Ont.
Questor Surveys Ltd.	Mississauga, Ont.	Smith Int'l Canada	Dartmouth, N.S. Edmonton, Alta. Richmond, B.C. Nisku, Alta.
R & L Industries	Wabush, Nfld.	Solar Oil Tools Ltd.	Calgary, Alta.
Red L. Fireguard International Ltd.	Edmonton, Alta.	Solid State Exploration Ltd.	St. John's, Nfld.
Reed Mining Tools, A Div. of Baker International Canada Ltd.	Kamloops, B.C.	Sonat Offshore Canada Limited	Halifax, N.S.
Reed Rock Bit Co., Div. Reed Tool Co. of Canada	Calgary, Alta. Leduc, Alta.	Sonics Exploration Ltd.	Calgary, Alta. Estevan, Sask.
Rock Bit Industries Canada Roctest Ltd.	Calgary, Alta. St-Lambert, Qué.	Spartan Drilling Ltd.	Dartmouth, N.S.
Rotary Drilling Service	Sudbury, Ont.	Sperry Sun of Canada Ltd.	Edmonton, Alta.
S & T Drilling	Nisku, Alta.	Starburst Petroleum Services	Calgary, Alta.
SDS Drilling Ltd.	St. John's, Nfld.	Stream-Flo Industries Ltd.	Edmonton, Alta.
SW Oilfield Products Alberta Ltd.	Edmonton, Alta. Calgary, Alta.	Streamflo Ltd.	Edmonton, Alta.
Sage Oilfield Service Ltd.	Swift Current, Sask.	Suncor Inc. Oil Sands Group	Tar Island, Alta.
Sandvik Canada Corp.	Montréal, Qué. Mississauga, Ont.	Syncrude Canada Ltd.	Edmonton, Alta.
Schlumberger of Canada	Edmonton, Alta. Dartmouth, N.S. Calgary, Alta. St. John's, Nfld.	TAM International Oil Services Ltd.	Calgary, Alta. Nisku, Alta.
Scintrex Limited	Concord, Ont.	TRW Reda Pump Co. of Canada	Estevan, Sask.
Sea-I Research Canada Ltd.	Sydney, B.C.	Taurus Well Servicing Ltd.	Edmonton, Alta.
Sedco Drilling Co. Ltd. (South Eastern Commonwealth Drilling Ltd.)	St. John's, Nfld. Halifax, N.S.	Telford Oilfield Products Ltd.	Edmonton, Alta.
Sedco Drilling, Div. of Bow Valley Resources Services Ltd.	Edmonton, Alta.	The Analysts of Canada, Div. Schlumberger of Canada	St. John's, Nfld. Red Lake, Ont.
Seiscom Delta United International	Calgary, Alta.	The Griffith Mine	Edmonton, Alta.
Seismic Cable Service	Dartmouth, N.S.	The Skytop Brewster Company	Edmonton, Alta.
		Totco Canada Ltd.	Leduc, Alta.
		Tri-Alta Oilfield Industries Inc.	Redwater, Alta.
		Tri-Ener-Tech Petroleum Services	Calgary, Alta.
		Trico Ind. Ltd. Canada	Edmonton, Alta.
		U.S. Industries Canada Ltd.	Estevan, Sask. Edmonton, Alta.
		USS Oilwell Supply Co. Ltd.	Calgary, Alta. Brooks, Alta.
		Underwater Gas Developers Ltd.	Sherkston, Ont.
		Urtec Ltd.	Markham, Ont.

Canadian Importers (Continued)

<u>Name</u>	<u>Address</u>
Varel Canada Ltd.	Calgary, Alta.
Vari Systems Exploration Ltd.	Calgary, Alta.
Veritas Seismic Ltd.	Calgary, Alta.
Vetco Offshore Canada Ltd.	Dartmouth, N.S.
Wadeco Ltd.	Dartmouth, N.S.
Wagner Ind. & Oilfield Equip.	Edmonton, Alta.
Walker McDonald Bits Ltd.	Calgary, Alta.
Walker Steel Corporation	Edmonton, Alta.
Walters Oil Tool Machine Ltd.	Edmonton, Alta.
Waterflood Service & Sales Ltd.	Lloydminster, Alta.
Weatherford Oil Tool Co. Ltd.	Edmonton, Alta.
Wellhead Controls Ltd. (FMC Corp.)	Bedford, N.S. Edmonton, Alta.
Western Decalta Petroleum (1977)	Calgary, Alta.
Western Electronics Systems Ltd., Div. of Geocrude Energy Inc.	Calgary, Alta.
Western Geophysical Co. of Canada Ltd.	Calgary, Alta.
Western Rock Bit Co. Ltd.	Calgary, Alta.
Wheatley Canada Ltd., Div. of Geosource	Calgary, Alta.
Wilson Oilfield Supply Ltd.	Edmonton, Alta.
Zapata Offshore Co. Canada Ltd.	Halifax, N.S.

FOREIGN EXPORTERS TO CANADA

Major exporters to Canada of Oil and Gas Field Equipment shown in this report are listed in descending order of dollar value. Names are as shown on the shipping documents. These exporters accounted for 73 per cent of the total value analyzed of \$125 million.

<u>Name</u>	<u>Address</u>		<u>Value of Imports</u> (\$000)
Atco Drilling Inc.	Corpus Christie, TX	United States)	
Smith Tool Div., Smith International Inc.	Dallas, TX	United States)	23 887*
Gearhart Industries Inc.	Fort Worth, TX	United States)	
Hughes Drilling Equipment	Corsicana, TX	United States	3 717
Hughes Offshore	Torrance, CA	United States	3 420
Anadrill/Schlumberger	Scott, LA	United States)	
Floating Point Systems Ltd.	Dublin,	Ireland)	6 821*
Dresser Industries Inc.	Dallas, TX	United States)	
Schlumberger Well Services	Houston, TX	United States)	6 150*
Cardinal Drilling	Bakersfield, CA	United States)	
Phelps Drilling	Midland, TX	United States)	8 121*
Simmons Orilling	Great Bend, KS	United States)	
Reed Tool Co.	Houston, TX	United States)	
Resource Drilling Inc.	Houston, TX	United States)	6 924*
Vetco Offshore Inc.	Ventura, CA	United States)	
Oilfield Equip. Group	Dallas, TX	United States	2 099
Geophysical Service Inc.	Dallas, TX	United States)	
TRW Inc. Reda Pump Co.	Bartlesville, OK	United States)	4 020*
Études & Productions Schlumberger	Clamart-Cedex	France)	
Halliburton Services	Duncan, OK	United States)	5 085*
Guiberson Oil Tools Oilfield Equipment Co.	Dallas, TX	United States)	
Bakers Packers Div., Baker Oil Tools Inc.	Houston, TX	United States	1 645
Centrilift-Hughes Inc.	Claremore, OK	United States)	
Challenger Drilling	Houston, TX	United States)	3 721*
Xtek Piping Systems Inc.	Salt Lake City, UT	United States)	
Baker Production Technology Lynes Inc.	Houston, TX	United States)	2 149*
Engrenages et Réducteurs	Cambrai	France)	

FOREIGN EXPORTERS TO CANADA (Continued)

N L McCullough, NL Industries Inc.	Houston, TX	United States)	1 990*
Dyna Drill Div. Smith International Inc.	Irvine, CA	United States)	
Brinkerhoff Drilling	Casper, WY	United States)	
Pennsylvania Crusher Corp.	Broomal, PA	United States)	2 390*
Seismograph Service Corp.	Tulsa, OK	United States)	
Great Guns Logging Inc.	Tulsa, OK	United States)	
Texas Instruments Inc.	Cypress, TX	United States)	1 467*
Lufkin Industries Inc.	Lufkin, TX	United States)	
Brockham Oilwell Servicing Ltd.	Oklahoma City, OK	United States)	1 338*
Spartan Drilling	Sidney, MT	United States)	
Carpenter Technology Corp.	Reading, PA	United States)	1 274*
Emerson & Cuming	Canton, MA	United States)	
Études et Fabrications Flopetrol	Vaux le Penel	France)	1 723*
Flopetrol Johnston	Sugarland, TX	United States)	
NL Shaffer/NL Industries Inc.	Houston, TX	United States	555
Baker Service Tools	Houston, TX	United States	544
Eastman Whipstock Inc.	Houston, TX	United States)	
USS Oilwell Supply	Casper, WY	United States)	1 063*
Bowen Tools Inc.	Houston, TX	United States)	
Axelson Inc.	Longview, TX	United States)	1 018*
Varel Mfg. Co.	Dallas, TX	United States	511
			<hr/>
Total			91 632

* - Aggregated for reasons of confidentiality

Note - The locations indicated for each exporter do not necessarily mean that exports originated from only those locations. In some instances plants located in other cities may be involved. In some cases the location of the head office only was listed.

CANADIAN MANUFACTURERS

The following are manufacturers in Canada of oil and gas equipment who make one or more of the products detailed in the Introduction and Scope section of this report. The list was obtained from Departmental sources.

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
A. Comeau & Associates Ltd.	Edmonton, Alta.	Babco Electric & Engineering Limited	Edmonton, Alta.
ACC Diamond Products Ltd.	Leduc, Alta.	Baker Production Services (CDA) Ltd.	Calgary, Alta.
AGM Steel Industries Ltd.	Winfield, B.C.	Bakerline Canada Ltd.	Edmonton, Alta.
AMF GEC Space Canada Ltd.	Calgary, Alta.	Banister Continental Ltd.	Edmonton, Alta.
Aanderaa Instruments Ltd.	Victoria, B.C.	Barber Industries, Div. Bralorne Resources Ltd.	Calgary, Alta.
Abax Energy Services Ltd.	Calgary, Alta.	Barringer Research Limited	Rexdale, Ont.
Abco Boiler & Fabricators Ltd.	Edmonton, Alta.	Bear Tools Ltd.	Calgary, Alta.
Abcor Equipment Ltd.	Edmonton, Alta.	Bearspaw Logging Services Ltd.	Calgary, Alta.
Aco Industries Ltd.	Vancouver, B.C.	Bell Industries Ltd.	Edmonton, Alta.
Acro Machine (Calgary) Ltd.	Calgary, Alta.	Bill's Retipping & Supply Ltd.	Lloydminster, Alta.
Airborne Resource Developments Ltd.	Calgary, Alta.	Bird Oil Equipment Ltd.	Calgary, Alta.
Al's Steel (1976) Ltd.	Calgary, Alta.	Black Sivalis & Bryson (Canada) Ltd.	Nisku, Alta.
Alberta Environmental Services Ltd.	Edmonton, Alta.	Blacklaw Industrial Equipment Ltd.	Edmonton, Alta.
Alberta Forge Products Ltd.	Edmonton, Alta.	Blue Chip Machine Co. Ltd.	Calgary, Alta.
Alberta Oil Tool/Div. Dover Corp. (Cda)	Edmonton, Alta.	Bmal Oilfield Corporation	Edmonton, Alta.
Alco Drivetrain Service Ltd.	Edmonton, Alta.	Bomega Metals Ltd.	Red Deer, Alta.
Alco Gas & Oil Production Equipment	Edmonton, Alta.	Boundary Equipment Co. Ltd.	Edmonton, Alta.
Almac Machine Works Ltd.	Edmonton, Alta.	Bow Valley Resource Services Ltd.	Calgary, Alta.
Altank Industries Ltd.	Calgary, Alta.	Bromley Mechanical Services Ltd.	Medicine Hat, Alta.
Alvin's Oilfield Supply Co. Ltd.	Calgary, Alta.	Brunner Canada Inc.	Mississauga, Ont.
Amerigo Technology Ltd.	Calgary, Alta.	C-E Natco Ltd.	Calgary, Alta.
Ampscot Equipment Ltd.	Nisku, Alta.	C.K. Steel (Div. TIW Industries Ltd.)	Calgary, Alta.
Anchorage Oilfield Supply Ltd.	Calgary, Alta.	CAE Machinery Ltd.	Vancouver, B.C.
Anderson, Ted Services Ltd.	Edmonton, Alta.	CDN Oilfield Stimulation Serv. Ltd.	Innisfail, Alta.
Androtex Limited	Mississauga, Ont.	CIS Can Sales (Western) Ltd.	Edmonton, Alta.
Anthes Industries Inc.	Calgary, Alta.	CMC Hydra-Lift Manufacturing Ltd.	Edmonton, Alta.
Anvil Machine Ltd.	Edmonton, Alta.	CMC Resource Equipment Ltd.	Edmonton, Alta.
Apollo Machine & Welding Ltd.	Edmonton, Alta.	CND Manufacturing Group Ltd.	Winnipeg, Man.
Applied Microsystems Limited	Stoney, B.C.	CRC Wellhead Supply Ltd.	Edmonton, Alta.
Ardco Industries Ltd.	Stony Plain, Alta.	CTF Industries Ltd.	Calgary, Alta.
Argo Sales Ltd.	Calgary, Alta.	CTF Systems Inc.	Port Coquitlam, B.C.
Argus Machine Co. Ltd.	Edmonton, Alta.	Caine Oil Tools Ltd.	Edmonton, Alta.
Arnco Industries Ltd.	Calgary, Alta.	Calgary Brush Mfg. & Dist. (1978) Ltd.	Calgary, Alta.
Arrow Steel Industries Ltd.	Calgary, Alta.	Cameron Iron Works of Canada Ltd.	Calgary, Alta.
Atco Metal, Div. of Atco Inds. (NA) Ltd.	Calgary, Alta.	Gamesa Cables Ltd.	Edmonton, Alta.
Atco Structures, Div. Atco Inds. (NA) Ltd.	Calgary, Alta.		
Axelsen Industries Ltd.	Edmonton, Alta.		
B & C Welding Ltd.	Elm Creek, Man.		
BSL Machine Ltd.	Edmonton, Alta.		
BW Rig Repair & Supply	Edmonton, Alta.		

Canadian Manufacturers (Cont'd)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Campbell Industries Ltd.	Edmonton, Alta.	Cougar Tool/Div. of OPI Ltd.	Edmonton, Alta.
Canadian Boilers Ltd.	Mississauga, Ont.	Coutts Machinery Company Limited	Edmonton, Alta.
Canadian Diamant Boart Ltd.	Calgary, Alta.	Crone Geophysics Ltd.	Mississauga, Ont.
Canadian Foremost Ltd.	Calgary, Alta.	Crutcher Equipment Canada Ltd.	Edmonton, Alta.
Canadian Fracmaster, Div. C.I.L. Ltd.	Calgary, Alta.	Cubex Limited	Winnipeg, Man.
Canadian Meter Co. Ltd.	Edmonton, Alta.	Curtis Hoover Ltd.	Edmonton, Alta.
Canadian Oil Tool Co. Ltd.	Calgary, Alta.	D & D Machine Works Ltd.	Lethbridge, Alta.
Canadian Oilfield Marketing Corporation	Edmonton, Alta.	D & S Manufacturing Ltd.	Edmonton, Alta.
Canadian Oilfield Stimulation Serv. Ltd.	Innisfail, Alta.	D. B. Engineered Hydraulics Ltd.	Red Deer, Alta.
Canadian Rig Ltd.	Calgary, Alta.	Daco Enterprises Ltd.	Edmonton, Alta.
Canadian Strata Drill Ltd.	Calgary, Alta.	Dacro Industries Ltd.	Nisku, Alta.
Canadian Swabmaster Products Ltd.	Nisku, Alta.	Daniel Industries Inc.	Calgary, Alta.
Canco Ltd. - Canada	Edmonton, Alta.	Delta Hydraulic Power Ltd.	Edmonton, Alta.
Canterra Engineering Ltd.	Calgary, Alta.	Diamond Oil Machine Ltd.	Edmonton, Alta.
Canuck Engineering Ltd.	Calgary, Alta.	Dighem Surveys & Processing Inc.	Mississauga, Ont.
Canusa Coating Systems Ltd.	Rexdale, Ont.	Dipix Systems Limited	Nepean, Ont.
Canvil Ltd.	Edmonton, Alta.	Dominion Bridge-Alberta	Edmonton, Alta.
Canyon Richfield Inds. (Alta) Ltd.	Calgary, Alta.	Dominion Bridge-Sulzer Inc.	Lachine, Qué.
Caproco Corrosion Prevention Ltd.	Edmonton, Alta.	Domino Machine Ltd.	Edmonton, Alta.
Cardium Service & Supply Ltd.	Nisku, Alta.	Don-Jon Pool Manufacturing Ltd.	Medicine Hat, Alta.
Cardwell Manufacturing Co. Ltd.	Edmonton, Alta.	Dover Corp. (Cda) Ltd., Alta Oil Tool Div.	Edmonton, Alta.
Caulfield Engineering	Nisku, Alta.	Drayton Valley Machine & Welding Ltd.	Drayton Valley, Alta.
Cenatco Ltd. Subsidiary of Combustion	Calgary, Alta.	Dreco Energy Services Ltd.	Edmonton, Alta.
Century Machine Company Ltd.	Calgary, Alta.	Drilco Canada	Edmonton, Alta.
Cessco Fabrication & Engineering Ltd.	Edmonton, Alta.	Drill Rite Industries	Calgary, Alta.
Chapman Industries Ltd.	Delta, B.C.	Drill Systems Div. of Dualco Mfg. Ltd.	Calgary, Alta.
Chimo Equipment Ltd.	Calgary, Alta.	Dyer Equipment Mfg. Ltd.	Calgary, Alta.
Chimo Production Ltd.	Calgary, Alta.	E & E Welding & Mechanical Ltd.	Grande Prairie, Alta.
Christensen Diamond Prods. (CDA) Ltd.	Edmonton, Alta.	E & R Machine & Seismic Service Ltd.	Rimbey, Alta.
Clean Flo Gas Filtration Systems Ltd.	Calgary, Alta.	EDA Instruments Inc.	Toronto, Ont.
Computalog-Gearheart Ltd.	Calgary, Alta.	Easteel Industries (1984) Ltd.	St. John's, Nfld.
Concord Hydraulic Group Limited	Edmonton, Alta.	Edmonton Exchanger & Refinery Services	Edmonton, Alta.
Continental Laboratories Ltd.	Calgary, Alta.	Edmonton Vessel & Pipe Fab. Ltd.	Edmonton, Alta.
Continental Petroleum Rubber Co. Ltd.	Edmonton, Alta.	Eim Controls Ltd.	Calgary, Alta.
Control Drilling Services (1981) Ltd.	Edmonton, Alta.	Elp Products Ltd.	Calgary, Alta.
Cord Projects Ltd.	Edmonton, Alta.	Endiem Oil Tools Ltd.	Lloydminster, Alta.
Corod Manufacturing Ltd.	Edmonton, Alta.	Erichsen Industries Ltd.	Calgary, Alta.
		Eskimo Steel Ltd.	Edmonton, Alta.
		Excell Specialty Ltd.	Edmonton, Alta.
		Exchanger Industries Ltd.	Calgary, Alta.
		Exploration G.S. Ltd.	Bolton, Ont.
		Exploration Rock Bit Sales Ltd.	Edmonton, Alta.
		F & R Oilfield Services Ltd.	Edmonton, Alta.

Canadian Manufacturers (Cont'd)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
F.A.C.T.S. Oil Tools Ltd.	Leduc, Alta.	Henuset Pipeline Construction	Calgary, Alta.
Far North Rental Services Ltd.	Calgary, Alta.	Hep Pumping Units	Calgary, Alta.
Farr International (1979) Ltd.	Edmonton, Alta.	Herb's Welding Ltd.	Peace River, Alta.
Fasoli Manufacturing Ltd.	Calgary, Alta.	Hi-Tower Drilling Division	Calgary, Alta.
Fathom Atlantic Ltd.	Dartmouth, N.S.	Hill-Peck Controls Ltd.	Calgary, Alta.
Fathom Oceanlogy Limited	Mississauga, Ont.	Hooper Welding Enterprises Limited	Toronto, Ont.
Fish Int'l Canada Ltd.	Calgary, Alta.	Huber J.M. Corporation	Edmonton, Alta.
Flexpac Systems Ltd.	Calgary, Alta.	Hughes Offshore, Div. Hughes Tool Co.	Calgary, Alta.
Flo-Rite Industries of Canada	Edmonton, Alta.	Hycon Corp./Div. of The Colt Co.	Edmonton, Alta.
Fluidynamic Devices Ltd.	Mississauga, Ont.	Hydra Beam Industries (Alberta) Ltd.	Calgary, Alta.
Four M. Oilfield Services Ltd.	Redwater, Alta.	Hydrill Canadian Co. Ltd.	Calgary, Alta.
Frandsen & Ross Ltd.	Selkirk, Man.	Hypower Systems Corp.	Edmonton, Alta.
Fullkote Systems Ltd.	Red Deer, Alta.	I.P. Constructors Ltd.	Calgary, Alta.
G & L Oilfield Specialty Weld. & Perforat.	Edmonton, Alta.	IFG Corporation	Brampton, Ont.
G.P. Steel Fabricators Ltd.	Grande Prairie, Alta.	ITT Barton Instruments	Calgary, Alta.
GB Master Flo Valve Corporation Ltd.	Edmonton, Alta.	Imperial Rubber Co. Ltd.	Nisku, Alta.
GLN Tanks & Equipment Ltd.	Nisku, Alta.	Ingersoll-Rand Canada Inc.	Sherbrooke, Qué.
Galaxy Machine & Mfg. (1984) Ltd.	Edmonton, Alta.	Inspectech Ltd.	Scarborough, Ont.
Galaxy Oilfield Service Ltd.	Edmonton, Alta.	InstanTel Inc.	Kanata, Ont.
Gamache K Machining & Mfg. Ltd.	Edmonton, Alta.	Instrumentation GDD Inc.	Ste-Foy, Qué.
Geco Steel Corp. Ltd.	Calgary, Alta.	Ipsco Inc.	Edmonton, Alta.
Gem Systems Inc.	Don Mills, Ont.	J.H. Lock and Sons Ltd.	Toronto, Ont.
Geograph Pioneer/Geo. Serv. Ltd.	Edmonton, Alta.	J.M. Huber Corp. (Equipment Division)	Edmonton, Alta.
Geophysical Cable Mfg. Alberta Ltd.	Calgary, Alta.	Jarco Services Ltd.	Calgary, Alta.
George & Nick's Machine Works Ltd.	Calgary, Alta.	Johnny's Hydraulic Sales	Lorette, Man.
George E. Failing Supply Co. Ltd.	Edmonton, Alta.	KML Custom Fabricators Ltd.	Edmonton, Alta.
Geoservices North America Ltd.	Calgary, Alta.	Karl W. Walther's General Repairs	Androssan, Alta.
Geotech Ltd.	Markham, Ont.	Kent Machine & Manufacturing Ltd.	Edmonton, Alta.
Glitsch Canada Ltd.	Uxbridge, Ont.	Kenting Drilling Ltd.	Calgary, Alta.
Global Thermoelectric Power Sys. Ltd.	Bassano, Alta.	Kin Rig Manufacturing Ltd.	Calgary, Alta.
Grenco Industries	Edmonton, Alta.	Klondike Oil Tool Limited	Calgary, Alta.
Griffin Petroleum Services Ltd.	Calgary, Alta.	Kno11 Rig & Equipment Mfg. (Kremco)	Edmonton, Alta.
Griffith Oil Tool Ltd.	Edmonton, Alta.	Koomey Control Systems of Cda. Ltd.	Nisku, Alta.
Gris-Gun Manufacturing Ltd.	Red Deer, Alta.	L & N Oilfield Hydraulics Ltd.	Red Deer, Alta.
H.A. Steel Foundry Ltd.	Calgary, Alta.	LPM Machines Ltd.	Edmonton, Alta.
Halpen Engineering Inc.	Weston, Ont.	LTV Energy Products Company Ltd.	Calgary, Alta.
Harp Oil Field Services Ltd.	Calgary, Alta.	Lamontagne Geophysics Ltd.	Toronto, Ont.
Harris Scientific Products Ltd.	Edmonton, Alta.	Langevin Enterprises	Calgary, Alta.
Hartog Steel Industries Ltd.	Edmonton, Alta.	Larsen & D'Amico Mfg. Ltd.	Edmonton, Alta.
Hawkes Down Hole Service Limited	Olds, Alta.		

Canadian Manufacturers (Cont'd)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Leduc Machine & Mfg. Co. Ltd.	Leduc, Alta.	National Supply Co. of Canada Ltd.	Calgary, Alta.
Legrand Industries Ltd., Div. of Taro Ind.	Calgary, Alta.	Newarke Oil Pumps Inc.	Calgary, Alta.
Lennox Welding & Supply Ltd.	Edmonton, Alta.	Nomad Machine & Mfg. (1979) Ltd.	Edmonton, Alta.
Les Bobines St-Laurent Ltée	Champlain, Qué.	Nomis Computer Systems Corporation	Ottawa, Ont.
Levy's Machine Works Ltd.	Calgary, Alta.	Nor-Mix Industries Ltd.	Calgary, Alta.
Lift Systems International Ltd.	Battleford, Sask.	Northeastern Drilling Ltd.	Calgary, Alta.
Lister Oilfield Equipment	Edmonton, Alta.	Northwest Pipe & Supply Co. Ltd.	Calgary, Alta.
Lloydminster & Dist. Sheltered Workshop	Lloydminster, Sask.	Norton Christensen Canada Ltd.	Edmonton, Alta.
Long Products Inc.	Calgary, Alta.	Norward Energy Services Ltd.	Calgary, Alta.
Lonnal Welding & Manufacturing Ltd.	Bashaw, Alta.	Norwesco Industries Ltd.	Calgary, Alta.
Lonnal Welding & Mfg. Ltd.	Bashaw, Alta.	Norwood Foundry Ltd.	Nisku, Alta.
Lufkin Machine Co. Ltd.	Nisku, Alta.	Nova Scotia Research Foundation Corp.	Dartmouth, N.S.
Lynx Tool Company Ltd.	Nisku, Alta.	Novacorp Int'l Consulting Ltd.	Calgary, Alta.
MacDonald Bros Metal Fabricators Ltd.	Winnipeg, Man.	Nowasco Well Service Ltd.	Calgary, Alta.
Macaulay Manufacturing Ltd.	Coquitlam, B.C.	Nutron Manufacturing Ltd.	Edmonton, Alta.
Mactronic Systems Ltd.	Red Deer, Alta.	O.P.I. Limited	Edmonton, Alta.
Mainland Mfg/Div. of Bow Valley Resource	Richmond, B.C.	Opsco Industries Ltd.	Calgary, Alta.
Mainland Oilfield Supply Ltd.	Calgary, Alta.	Otis Engineering Co. Ltd.	Calgary, Alta.
Majestic Contractors Ltd.	Edmonton, Alta.	Oxford Machine & Welding Ltd.	Edmonton, Alta.
Maloney Steel Ltd.	Calgary, Alta.	P.T.L.A. Precision Foundry Ltd.	Edmonton, Alta.
Mandarin Oilfield Services Ltd.	Calgary, Alta.	Pacific Oilfield Equipment Ltd.	Edmonton, Alta.
Mar-Quinn Industries Ltd.	Leduc, Alta.	Parker's Machine Shop (1976) Ltd.	Red Deer, Alta.
Masterflo Valve Corp. Ltd.	Edmonton, Alta.	Partec Lavalin Inc.	Calgary, Alta.
Matt's Manufacturing Ltd.	Calgary, Alta.	Peerless Page Div. of Lear Stegler Ind. Ltd.	Penticton, B.C.
Maxitorque Drill Systems Inc.	Edmonton, Alta.	Pembina Equipment Design Co. Ltd.	Calgary, Alta.
McAllister Instrumentation Ltd.	Calgary, Alta.	Permathane Industries	Calgary, Alta.
McEvoy-Willis Canada, Div. of Smith Intl Ltd.	Edmonton, Alta.	Peter Bawden Drilling Ltd.	Calgary, Alta.
McPhar Geophysics Inc., Div. of Sotelcon	Markham, Ont.	Petro Equipment Sales Ltd., Texsteam Div.	Calgary, Alta.
Mccombie Bit & Supply Ltd.	Edmonton, Alta.	Petroclean Manufacturing Corp.	Vancouver, B.C.
Mills Machine & Welding Inc.	Whitecourt, Alta.	Petrocraft Products Ltd.	Calgary, Alta.
Mimco Enterprises Ltd.	Calgary, Alta.	Plainsman Mfg. Ltd.	Edmonton, Alta.
Morganite Canada Ltd.	Calgary, Alta.	Polesystems Ltd.	Calgary, Alta.
Morris International Trading Ltd.	Vancouver, B.C.	Porta-Mill Tool Ltd.	Calgary, Alta.
Mountain Rig & Equipment Ltd.	Edmonton, Alta.	Porta-Test Systems, Ltd.	Edmonton, Alta.
Mulgrave Machine Works Ltd.	Mulgrave, N.S.	Positive Action Tool Western Ltd.	Calgary, Alta.
Multi-Tool Mfg., Div. of Wild Rose Oil Ltd.	Calgary, Alta.	Precimax Manufacturing Ltd.	Edmonton, Alta.
NL Rucker Products/NL Industries Inc.	Edmonton, Alta.	Precisioneering Limited	Scarborough, Ont.
NL Shaffer Ltd.	Edmonton, Alta.		
Namco Machine and Powertrain Works Ltd.	Edmonton, Alta.		

Canadian Manufacturers (Cont'd)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Presson Manufacturing Ltd.	Nisku, Alta.	Shaw Pipe Protection (Alberta) Ltd.	Calgary, Alta.
Procor Ltd./Sulphur Services Div.	Calgary, Alta.	Sicotte Drilling Tools Ltd.	Edmonton, Alta.
Propax Systems Ltd.	Airdrie, Alta.	Silver Tip Industry Ltd.	Calgary, Alta.
Prudential Steel Ltd.	Calgary, Alta.	Simmons Group of Companies	Calgary, Alta.
Quality Fabricating & Supply Ltd.	Edmonton, Alta.	Site Oil Tools Ltd.	Calgary, Alta.
Quality Steel Foundries Ltd.	Edmonton, Alta.	Smith International Canada Ltd.	Edmonton, Alta.
Quinns Oilfield Supply Ltd.	Red Deer, Alta.	Société d'Ingénierie Air Liquide	Montréal, Qué.
R.C. Machine (Devon) Ltd.	Edmonton, Alta.	Sonotek Limited	Mississauga, Ont.
RS Technical Instruments Ltd.	Port Coquitlam, B.C.	Sotelcom Communications Inc.	Rexdale, Ont.
Rae Alta Int'l. Oilfield Equipment Ltd.	High River, Alta.	Star-Fab Welding Ltd.	Calgary, Alta.
Rainbow Mfg. Production Services Ltd.	Edmonton, Alta.	Starozik Industries Ltd.	Calgary, Alta.
Ram Saver Oilfield Specialties Ltd.	Red Deer, Alta.	Steel-Flo Fabricators	Okotoks, Alta.
Ramsay Machine Works Limited	Victoria, B.C.	Stelco Inc.	Hamilton, Ont.
Rebound Rig Co. Ltd.	Brooks, Alta.	Stevested Machinery & Engineering Ltd.	Park Delta, B.C.
Recochem Inc.	Montréal, Qué.	Strathcona Steel Mfg. Inc.	Edmonton, Alta.
Rector-Gray Ltd.	Calgary, Alta.	Stream-Flow Industries Ltd.	Edmonton, Alta.
Red Wing Tool Co. Ltd.	Drayton Valley, Alta.	Strip-O-Matic Rentals & Sales Ltd.	Edmonton, Alta.
Reed Tool Co. Ltd.	Calgary, Alta.	Struthers-Tiw Ltd.	Calgary, Alta.
Reed Tubular Products Inc.	Edmonton, Alta.	Subsea Technology Limited	Truro, N.S.
Renn Industries Inc.	Calgary, Alta.	Superior Machine & Fab. Services Ltd.	Calgary, Alta.
Richard Langner Enterprises Ltd.	Nisku, Alta.	Superior Oilwell Machinery Ltd.	Edmonton, Alta.
Rigtronics Systems Ltd.	Bassano, Alta.	Sure Weld Industries Ltd.	Calgary, Alta.
Roctest Ltée	Chambly, Qué.	Swaco Ltd.	Edmonton, Alta.
Roda Machine & Mfg. Ltd.	Edmonton, Alta.	Szantech Machine Tools Inc.	Edmonton, Alta.
Rostel Ind., Div. of Taro Ind. Ltd.	Calgary, Alta.	T.P.S. Industries Inc.	Tillsonburg, Ont.
Rudd & Hodgson Industries Ltd.	Edmonton, Alta.	TRW Reda Pump Co. of Canada Ltd.	Calgary, Alta.
SII-Willis Oil Tool Canada Ltd.	Edmonton, Alta.	Tam International Oil Services Ltd.	Calgary, Alta.
Safety Boss Ltd.	Calgary, Alta.	Taro Gear, a Div. of Taro Industries Ltd.	Calgary, Alta.
Sandborn Roofs Inc.	Nisku, Alta.	Ted Anderson Services Ltd.	Edmonton, Alta.
Sander Geophysics Limited	Kanata, Ont.	Teknica Resource Dev. Ltd.	Calgary, Alta.
Schiffner Oilfield Co. Ltd.	Edmonton, Alta.	Telecommander Instruments Ltd.	Calgary, Alta.
Scintrex Limited	Concord, Ont.	Terrascience Systems Ltd.	Vancouver, B.C.
Seismic Rubber & Plastic Parts Ltd.	Calgary, Alta.	Terroco Oilfield Services Ltd.	Red Deer, Alta.
Select Oil Tools Ltd.	Calgary, Alta.	Thermo Design Engineering Ltd.	Edmonton, Alta.
Sentrol Systems Ltd.	Calgary, Alta.	Thermotics Inc.	Edmonton, Alta.
Shaffer Western Hemisphere Inc.	Edmonton, Alta.	Three Star Steel Ltd.	Calgary, Alta.
Shamrock Oilfield Specialties Ltd.	Edmonton, Alta.	Thuro Services (Western) Ltd.	Calgary, Alta.
Shasta Machine Mfg. Ltd.	Edmonton, Alta.	Top Flow Industries Ltd.	Edmonton, Alta.
		Top-Co Industries Ltd.	Edmonton, Alta.
		Tower Oil Site Products (1970) Ltd.	Calgary, Alta.

Canadian Manufacturers (Cont'd)

<u>Name</u>	<u>Address</u>	<u>Name</u>	<u>Address</u>
Tree Savers International Ltd.	Grande Prairie, Alta.	Western Welding Ltd.	Edmonton, Alta.
Tri Corp. Oilfield Equipment Ltd.	Edmonton, Alta.	Westman Systems Ltd.	Calgary, Alta.
Tri Rig International Mfg. Ltd.	Edmonton, Alta.	Whipstock Systems Limited	Calgary, Alta.
Tri-Alta Oilfield Industries Ltd.	Edmonton, Alta.	White Ram Oilfield Services Ltd.	Bonnyville, Alta.
Tri-Energy Group	Calgary, Alta.	Willis Cda, Div. of Smith Int'l Cda Ltd.	Edmonton, Alta.
Tri-Flo Industries of Canada (1981) Ltd.	Edmonton, Alta.	Wilown Shaker Screen Industries Ltd.	Edmonton, Alta.
Tri-Service Oilfield Mfg. Ltd.	Edmonton, Alta.	WKM Div. Joy Mfg. Co. (Canada) Ltd.	Calgary, Alta.
Tri-Tech Energy Research Ltd.	Calgary, Alta.		
Troy of Canada, Div. of Simmons Drilling Ltd.	Nisku, Alta.		
Tubetest Service & Supply (1978) Ltd.	Red Deer, Alta.		
Tundra Oil Tools Ltd.	Edmonton, Alta.		
Uni-Melt Ltd.	Calgary, Alta.		
Universal Industries Ltd.	Lloydminster, Alta.		
Universe Mach. & Welding (1377) Co. Ltd.	Edmonton, Alta.		
Variperm (Canada) Ltd.	Calgary, Alta.		
Versatech Industries Ltd.	Calgary, Alta.		
Versatile Davie Inc.	Levis, Qué.		
Wagner Oilfield Manufacturing Ltd.	Edmonton, Alta.		
Walker Production Equipment	Calgary, Alta.		
Walker Steel Corporation	Calgary, Alta.		
Walker-McDonald Bits Ltd.	Calgary, Alta.		
Weatherford Oil Tool Co. Limited	Edmonton, Alta.		
Wel-Can Welding & Fabrication Ltd.	Red Deer, Alta.		
Weldco (Alberta) Ltd.	Edmonton, Alta.		
Wellhead Controls Ltd.	Calgary, Alta.		
Wells-Hall Fabrication & Constr. Ltd.	Edmonton, Alta.		
Wenzel Oil Tool Co. Ltd.	Edmonton, Alta.		
Wesdrill Equipment Ltd.	New Westminster, B.C.		
West Country Welding Services	Calgary, Alta.		
Westank-Willock, Div. Willock Ind. Ltd.	Calgary, Alta.		
Westech Industrial Ltd.	Calgary, Alta.		
Westeel-Rosco Ltd.	Calgary, Alta.		
Western Research Ltd.	Calgary, Alta.		
Western Rock Bit Company Ltd..	Calgary, Alta.		
Western Steel Fabricators Alta Ltd.	Edmonton, Alta.		

CANADIAN AND FOREIGN TARIFFS

Oil and gas field equipment included in this analysis were dutiable under the following most commonly applied tariff items, indicated below in descending order of percentage of total imported value as shown on appendix A.

Tariff Item	Description	% of Total Import Value April to June (1985)	TARIFF TREATMENT				U.K. and Ireland %
			British Prefer- ential Tariff %	Most Favoured Nation Tariff %	General Tariff %	General Prefer- ential Tariff %	
	<p>**Machinery and apparatus for use in exploratory or discovery work in connection with oil or natural gas wells or for the development, maintenance, testing, depletion or production of such wells up to and including the wellhead assembly or surface oil pumping unit; well-drilling machinery and apparatus for use in the exploration for, and discovery, development or operation of potash or rock salt deposits; these provisions shall not include geophysical precision instruments provided for in item 43150-1 and automotive vehicles or chassis on which the machinery and apparatus are mounted:</p>						
49102-1	<p>Blow-out preventers; Crown blocks and travelling blocks; Elevators and elevator links; Fishing tools; Flanged casing heads; Masts or derricks for drilling, servicing or work-over rigs; Rotary tables; Screwed casing heads for surface casings exceeding 10 3/4 inches in outside diameter, or rated for service in working pressures exceeding 2,000 pounds per square inch W.O.G. (water, oil, gas); Swivels; Well logging equipment; Well perforating equipment; Wellhead valves over 3 inch nominal size, or rated for service in working pressures exceeding 2,000 pounds per square inch W.O.G. (water, oil, gas); Well-packers; Parts of all the foregoing</p>	26	Free	Free	Free	Free	Free

CANADIAN AND FOREIGN TARIFFS (Continued)

Tariff Item	Description	% of Total Import Value April to June (1985)	TARIFF TREATMENT				
			British Prefer- ential Tariff %	Most Favoured Nation Tariff %	General Tariff %	General Prefer- ential Tariff %	U.K. and Ireland %
**49105-1	Bolted steel tanks; Equipment for testing/inspection of physical properties; Filter presses; Flexible metal tubing, non-electric; Oil well pressure maintenance or pressure improvement equipment; Pressure measuring/controlling instruments; Roller chain; power transmission, conveyor, and offset sidebar types; Scientific equipment for oceanographic exploration and discovery work; Seismic instruments; Surveying instruments; Parts of all the foregoing, other than wing unions for oil well pressure maintenance or pressure improvement equipment	22	Free	Free	Free	Free	Free
49103-1	Drilling, servicing or work-over rigs, assembled or not; Draw works; Slush pumps; Motive power and drive groups for operating slush pumps, draw works or rotary table	22	Free	Free	Free	Free	Free
**41002-1	Core drill bits, non-diamond type; Rotary rock drill bits; Augers other than those used in the exploration or drilling for water; Air-operated mounted percussion type rock drills for underground use, and stoper drills, with a piston diameter in excess of 3.25 inches; Jumbo drills, pneumatic and electro-hydraulic, mounted on rubber-tired wheels; Cable tool rigs for drilling water wells, capable of drilling in excess of 1,250 feet; Coal-drilling machinery; Parts of all the foregoing	15	Free	Free	Free	Free	Free

CANADIAN AND FOREIGN TARIFFS (Continued)

Tariff Item	Description	% of Total Import Value April to June (1985)	TARIFF TREATMENT				
			British Prefer- ential Tariff %	Most Favoured Nation Tariff %	General	General Prefer- ential Tariff %	U.K. and Ireland %
**43150-1	Geophysical precision instruments and equipment other than magnetometers, gravimeters, electromagnetic devices, induced polarization devices, germanium detectors, gamma gauges, betameters, devices to measure resistivity, self-potential devices, scintillation counters, spectrometers for gamma ray detection; parts, attachments, tripods, base plates and fitted cases for the foregoing	3	Free	Free	20	Free	Free
**49215-1	Machinery and apparatus for use in recovering and producing crude oil from shales, oil-sands or tar-sands; parts of the foregoing.	2	5	7.6	20	5	6.8

** Pending passage of the Ways and Means Motion tabled in Parliament by the Minister of Finance on May 23, 1985, entries under these tariff items will be accepted "Subject to Amendment".

ENQUIRIES CONCERNING TARIFFS SHOULD BE DIRECTED TO THE NEAREST CUSTOMS AND EXCISE OFFICE OR TO:

TARIFF PROGRAMS
REVENUE CANADA
CUSTOMS AND EXCISE
OTTAWA, ONTARIO
K1A 0L5
TEL: (613) 996-9474

Foreign Countries

Enquiries concerning tariffs and other government trade regulations in foreign countries should be directed to:

INFO EXPORT
EXTERNAL AFFAIRS
OTTAWA, ONTARIO
K1A 0G2
Tel: (613) 993-6435

RECONCILIATION

Imports of Oil and Gas Field Equipment during the period April, May and June 1985, as reported on documents analyzed in this report, amounted to \$125 198 484.

The value reported in this import analysis does not correspond to official figures of Statistics Canada for various reasons. Reconciliation of the two total figures is as follows:

<u>Values accounted for</u>	<u>Value</u> (\$,000)
Documents referring to products which should have been classified elsewhere	264
Value reported by Statistics Canada but not included in this report (e.g. missing documents, Canadian goods returned)	4 630
Documents covering individual shipments valued at <u>less</u> than \$20,000 not included in our analysis	29 093
Total value reported in this import analysis	<u>125 198</u>
Total value accounted for as above	159 186
Total value published by Statistics Canada	159 186

Note: Statistics Canada's figures are subject to revision; changes will be reflected in the normal way, i.e., "pink sheets", which are located in the front section of Catalogue #65-007.

DRIE REGIONAL OFFICES

Newfoundland
P.O. Box 8950
Parsons Building
90 O'Leary Avenue
St. John's, Newfoundland
A1B 3R9
Tel: (709) 772-4884

Prince Edward Island
P.O. Box 1115
Confederation Court Mall
134 Kent Street, Suite 400
Charlottetown, Prince Edward Island
C1A 7M8
Tel: (902) 566-7400

Nova Scotia
P.O. Box 940, Station M
1496 Lower Water Street
Halifax, Nova Scotia
B3J 2V9
Tel: (902) 426-2018

New Brunswick
P.O. Box 1210
Assumption Place
770 Main Street
Moncton, New Brunswick
E1C 8P9
Tel: (506) 857-6400

Québec
C. P. 247
Tour de la Bourse
800, Place Victoria, Bureau 3800
Montréal (Québec)
H4Z 1E8
Tel: (514) 283-8185

Ontario
P.O. Box 98
1 First Canadian Place, Suite 4840
Toronto, Ontario
M5X 1B1
Tel: (416) 365-3821

Manitoba
P.O. Box 981
330 Portage Avenue
Room 608
Winnipeg, Manitoba
R3C 2V2
Tel: (204) 949-6182

Saskatchewan
Canada Building
6th Floor, 105-21st Street East
Saskatoon, Saskatchewan
S7K 0B3
Tel: (306) 975-4400

Alberta
Cornerpoint Building
10179 - 105th Street, Suite 505
Edmonton, Alberta
T5J 3S3
Tel: (403) 420-2944

British Columbia
P.O. Box 49178
Bentall Postal Station
Bentall Tower IV
1101 - 1055 Dunsmuir Street
Vancouver, British Columbia
V7X 1K8
Tel: (604) 666-0434

Yukon
Suite 301
108 Lambert Street
Whitehorse, Yukon
Y1A 1Z2
Tel: (403) 668-4655

Northwest Territories
P.O. Bag 6100
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X1A 1C0
Tel: (403) 920-8571

