





# CONTRACT DRILLING FOR THE MINING INDUSTRY 1965

Published by Authority of
The Minister of Trade and Commerce

#### DOMINION BUREAU OF STATISTICS

Manufacturing and Primary Industries Division

February 1969 6503-539

Price: 50 cents

#### **PUBLICATIONS ON MINERAL STATISTICS**

### Dominion Bureau of Statistics Ottawa, Canada

Catalogue number	Name of publication		Price
	Annual		
26 - 201 26 - 209 26 - 216 26 - 211 26 - 210 26 - 219 41 - 214 26 - 206 26 - 213 26 - 208 26 - 208 26 - 221 26 - 212 26 - 214 26 - 214 26 - 214 26 - 214 26 - 215 26 - 215 26 - 217 26 - 217 26 - 217	A-General Review of the Mineral Industries  B-Gold Mining Industry  C-Silver-Lead-Zinc Mines  D-Nickel-Copper Mines  E-Iron Mines  F-Miscellaneous Metal Mines  G-Smelting and Refining  H-Coal Mines  I-Crude Petroleum and Natural Gas Industry  J-Asbestos Mines  K-Feldspar and Quartz Mines  L-Gypsum Mines  M-Peat Industry  N-Salt Mines  O-Talc and Soapstone Mines  P-Miscellaneous Non-metal Mines  Q-Cement Manufacturers  R-Clay Products Manufacturers (from Domestic Clays)  S-Lime Manufacturers  T-Sand and Gravel Pits  U-Stone Quarries  V-Contract Drilling for the Mining Industry		
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## CONTRACT DRILLING FOR THE MINING INDUSTRY 1965

#### SECTION I

#### Diamond Drilling of Deposits other than Fuels

This portion of the report includes statistics for industry 098—Other Contract Drilling of the Standard Industrial Classification Manual (Catalogue No. 12-501).

During 1965 the footage drilled by contract diamond drilling was 7,404,834 compared with 6,479,096 in 1964. Income received from drilling was \$30,710,493. There were 57 firms reporting their

operations in this industry. Drilling was reported in all provinces and territories. The average number of employees was estimated at 2,776 and the salaries and wages totalled \$40,052,064.

Equipment owned by the operators included 339 air or steam-driven drills, 292 gasoline-driven drills, 18 electric-driven drills and 323 diesel-driven drills.

TABLE 1. Contract Diamond Drilling Operations, 1956-65

Drilling operations conducted by contractors who employed diamond drills only and which were confined chiefly to the testing of metalliferous deposits.

Year	Footag	e drilled	Income	Average number of	Total salaries and
Ital	Surface	Underground	drilling	employees	wages paid
			\$		\$
1955 1957 1958 1959 1960 1961 1962	6,29 4,42 5,43	0,670 6,128 6,594 5,971 1,211 2,346,145 2,439,970 2,544,678	27, 610, 974 21, 221, 593 14, 419, 623 17, 879, 624 17, 056, 676 16, 225, 178 17, 907, 424 20, 116, 696	3,415 2,951 1,717 1,902 1,912 2,025 1,926 2,201	12, 644, 217 10, 831, 483 6, 921, 761 7, 967, 756 7, 977, 782 7, 765, 477 7, 985, 202 9, 007, 804
1964					
Newfoundland Nova Scotia and Prince Edward Island New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Norhtwest Territories	133, 124 29, 300 74, 342 1, 149, 275 1, 247, 917 502, 264 62, 437 6, 034 310, 613 34, 639 129, 897	88, 685 22, 189 1, 174, 785 1, 236, 486 29, 195 189, 019 19, 528 39, 367	869, 445 138, 509 334, 163 6, 281, 438 8, 366, 659 2, 410, 639 534, 065 35, 488 3, 551, 541 419, 212 729, 713	91 20 47 635 867 298 48 48 40 71	401,874 61,292 197,613 2,932,738 4,099,039 1,091,590 201,337 14,025 1,608,714 210,522 410,789
Canada	3, 679, 842	2, 799, 254	23, 670, 872	2,401	11, 229, 533
1965					
Newfoundland Nova Scotia and Prince Edward Island New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories	82,568 31,780 98,719 1,209,332 1,421,296 572,287 145,497 1,505 491,323 80,260 173,356	105,022 24,924 1,388.864 1,045,879 106,071 260,540 8,741 156,870	764,713 181,299 497,186 7,346,806 9,347,469 3,078,138 882,483 18,647 6,244,941 904,494 1,444,317	84 18 68 789 821 329 77 9 402 56	371, 882 73, 358 266, 956 3, 698, 589 4, 308, 109 1, 296, 459 349, 474 37, 352 2, 646, 044 445, 082 558, 759
Canada	4, 307, 923	3, 096, 911	30, 710, 493	2,776	14, 052, 064

TABLE 2. Value of Stones, Ready-set and Cast-set Bits, Purchased by Contractors, 1956-65

Year	Value	Year	Value
	\$		\$
1956 1957 1958 1959	2, 689, 302 3, 267, 887 1, 807, 398 2, 828, 106 2, 713, 923	1961 1962 1963 1964 1965	1, 826, 298 2, 111, 111 1, 892, 939 2, 396, 007 2, 645, 446

TABLE 3. Diamonds Purchased and Stones used in 1965

	Purcha	sed	Consumed or used		
Diamonds	Weight	Value	Weight	Value	
	carats	\$	carats	\$	
Borts Ballas	211, 335	1, 523, 675	189, 660	1, 352, 419	
Other Ready-set and cast-set bits not included above	573 765 127, 249	6, 516 3, 936 1, 111, 319	573 605 124, 096	6, 516 2, 318 1, 070, 894	

TABLE 4. Drilling Completed on Gold Quartz Deposits, 1964 and 1965

	Footage drilled		
	1964	1965	
Diamond drilling for exploration and testing:  By mining companies with their own personnel and equipment  By diamond drilling contractors <sup>1</sup>	233, <b>4</b> 36 1, 188, 736	327, 049 1, 022, 949	
Other diamond drilling:  Blast hole diamond drilling:  By mining companies with their own personnel and equipment.  By diamond drilling contractors <sup>1</sup>	54, 361 29, 153	41, 558 52, 081	
Orilling by percussion or other machines <sup>2</sup>	35, 129, 303	30, 464, 458	

Note: Value of diamonds purchased by gold mining companies in 1965 totalled \$69,678 compared with \$53,306 in 1964.

TABLE 5. Drilling Completed on Copper-Gold-Silver and Nickel-Copper Deposits, 1964 and 1965

	Footage drilled		
	1964	1965	
Diamond drilling for exploration and testing:  By mining companies with their own personnel and equipment  By diamond drilling contractors <sup>1</sup>	95, 418 1, 473, 792	271, 845 1, 685, 723	
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors <sup>1</sup>	758, 835	586, 783 13, 184	
Drilling by percussion or other machines <sup>2</sup>	49, 470, 960	56, 586, 348	

<sup>1</sup> Included in Table 1.

 $<sup>^{\</sup>rm 1}$  Included in Table 1.  $^{\rm 2}$  Not complete as records are unavailable at certain mines.

<sup>&</sup>lt;sup>2</sup> Not complete as records are unavailable at certain mines.

Note: Value of diamonds purchased by copper-gold-silver and nickel-copper mining companies in 1965 totalled \$308,731 compared with \$334,560 in 1964.

TABLE 6. Drilling Completed on Silver - Lead - Zinc and Silver - Cobalt Deposits, 1964 and 1965

	Footage drilled		
	1964	1965	
Diamond drilling for exploration and testing:  By mining companies with their own personnel and equipment  By diamond drilling contractors <sup>1</sup>	100, 356 578, 221	45, 409 701, 487	
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment. By diamond drilling contractors <sup>1</sup>	452, 440 184, 927	300, 918 39, 109	
Orilling by percussion or other machines <sup>2</sup>	12, 709, 637	13, 213, 855	

<sup>1</sup> Included in Table 1.

TABLE 7. Drilling Completed on Other Metal-bearing Deposits, 1964 and 1965

	Footage drilled		
	1964	1965	
By mining companies with their own personnel and equipment	39, 995 279, 544	41, 401 451, 378	
Her diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors <sup>1</sup>	24, 092	363, 220 49, 242	
Orilling by percussion or other machines <sup>2</sup>	20, 532, 708	18, 055, 054	

<sup>&</sup>lt;sup>1</sup> Included in Table 1.

TABLE 8. Drilling Completed on Asbestos Deposits, 1964 and 1965

	Footage drilled		
	1964	1965	
Diamond drilling for exploration and testing:  By mining companies with their own personnel and equipment  By diamond drilling contractors <sup>1</sup>	61,939	125. 749	
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment. By diamond drilling contractors <sup>1</sup>		_	
Orilling by percussion or other machines <sup>2</sup>	6, 498, 654	7, 133, 297	

<sup>&</sup>lt;sup>2</sup> Not complete as records are unavailable at certain mines.

Note: Value of diamonds purchased by silver-lead-zine and silver-cobalt companies in 1965 amounted to \$306,314 compared with \$212,595 in 1964.

<sup>&</sup>lt;sup>2</sup> Includes drilling on iron, columbium, titanium and uranium deposits.

Note: Value of diamonds purchased by other metal-mining companies in 1965 amounted to \$86,202 compared with \$38,180 in 1964.

invited in Table 1.
Not complete as data are not reported by some firms.

Notes: 1. The total footage of contract drilling recorded in Tables 4 to 8 does not necessarily agree with the corresponding totals shown in Table 1 as drilling data are incomplete or unobtainable from some mining firms. 2. Diamonds purchased by asbestos mining companies were valued at nil in 1965 and nil in 1964.

#### List of Diamond Drilling Contractors, 1965

Name	Head office address
Arsenault, A. Diamond Drilling Ltd. B.C. Diamond Drilling Ltd. Baderski, Frank, & Son Ltd. Baker, L.J. Diamond Drilling Barron, R. Diamond Drilling Co. Ltd.	3-1330 Third Ave., Prince George, British Columbia 464 Algonquin Blvd. E., Timmins, Ontario Box 218, Val d'Or, Quebec
Boyles Bros. Drilling (Alberta) Ltd. Boyles Bros. Drilling Co. Ltd. (Contract Division) Boyles Bros. Drilling (Eastern) Ltd. Boyles Bros. Drilling (Quebec) Ltd. Bradley Bros. Ltd.	1651 Franklin St., Vancouver, British Columbia 142 N. Cumberland St., Port Arthur, Ontario 98-14th Street, Noranda, Quebec
Brochu, W.C. & Co. Ltd. Brown & Hall Cameron Diamond Drilling Co. Cameron McCutcheon Drilling Ltd. Canadian Longyear Ltd.	R.R. 2, Armdale, Halifax, Nova Scotia Box 400, Malartic, Quebec 619-175 Howe St., Vancouver 1, British Columbia
Caron A. & Son Diamond Drilling Cloutier Bros. Diamond Drilling Collin, A. Diamond Drilling Connors, T. Diamond Drilling Co. Ltd. Continental Diamond Drilling Co. Ltd.	North Cobalt, Ontario 1005 Abitibi, Val d'Or, Quebec 147 West 3rd Ave., Vancouver, British Columbia
Downing, Albert Edwards, Jack H. Diamond Drilling Ltd. G. J. Drilling Ltd. Goyette Diamond Drilling Brexton, J.A. Diamond Drilling	Box 369, Kenora, Ontario 303-1105 Haro St., Vancouver 5, British Columbia 1010-6th St., Val d'Or, Quebec
Griffith Bros. Drilling Ltd. Groleau Bros. Diamond Drilling Co. Ltd. Heath & Sherwood Drilling (Eastern) Ltd. Inspiration (Mining Services Division) Ltd. Kootenay Exploration & Drilling Contracting Ltd.	44 Taschereau St. E., Rouyn, Quebec 6 Hudson Bay Ave., Kirkland Lake, Oxfacto 170 Regina St., North Bay, Ontario
Kootnee Diamond Drilling Labine Bros Ltd. Lantz Diamond Drilling Co. Logan Bros. Diamond Drilling Ltd. Logan. Myrle Ellsworth	Cochenour, Ontario Box 367, Wabigoon, Ontario R.R. 2, Truro, Nova Scotia
Magnussen Drilling & Exploration Ltd. Martin, Thos. Mercier Drilling Metro Diamond Drilling Co. Midwest Diamond Drilling Ltd.	Ste-Sophie, Cté Terrebonne, Québec 422 King St., Sudbury, Ontario
Morissette Diamond Drilling Ltd. Mutch Diamond Drilling Co. Ltd. New Northwest Drilling Ltd. Norwescon Development Co. Pacific Diamond Drilling Co. Ltd.	786 Edgewood Rd. North, Vancouver, British Columbia 2-22 North Cumberland St., Port Arthur, Ontario Red Lake, Ontario
Patricia Diamond Drilling Co. Ltd. Portelance Diamond Drilling Rabb Diamond Drilling Rouyn Diamond Drilling Co. Reg'd. St. Lambert Drilling Co. Ltd. St. Lawrence Drilling Co. Ltd.	Brancroft, Ontario 122 Taschereau St. E., Rouyn, Québec Box 243, Thetford Mines, Québec
St. Louis-Bergeron Diamond Drilling Co. Ltd. Sprague & Henwood Inc. Sudbury Diamond Drilling Talbot, Claude Diamond Drilling Universal Drilling Ltd. c/o Janson Woodhouse & Co. Wilson, A. Contract Drilling	221 West Olive St., Scranton, Pennsylvania, U.S.A. 93 Brookside, R.R. 2, Chelmsford, Ontario Chibougamau, Quebec 1320 Central Ave., Prince Albert, Saskatchewan

#### SECTION II

#### Contract Drilling for Fuels

This report includes statistics for industry 096—Contract Drilling for Petroleum of the Standard Industrial Classification Manual (Catalogue No. 12-501).

Drilling for petroleum or natural gas, direct, or exploratory for these minerals was reported by 69 contractors. The total reported footage drilled was 16,337,621 feet and the income from these operations amounted to \$100,206,840 compared, respectively, with 15,039,732 feet and \$81,936,408 in 1964. Rotary drilling accounted for 15,997,276 feet while 340,345 feet were drilled with cable rigs.

Ontario data has increased sharply in 1965 due to more complete coverage. Comparable 1965 data, using similar coverage as used in 1964, would result in 180,308 feet drilled by cable and 21,099 feet rotary drilled, with an income of \$1,902,554 and salaries and wages of \$662,290.

Supplies used during the year included bentonite, pembina clay, etc., valued at \$1,867,526; barite valued at \$149,310; drilling bits, cables and lubricants valued at \$9,829,550; materials used in repairing rigs \$15,752,572; casing, pipe \$1,202,598; miscellaneous materials \$5,951,704. Payments made to sub-contractors for work done amounted to \$9,313,377; fuel and electricity cost \$8,924,537. The value added by this industry in 1965 amounted to \$47,215,666.

Data on supplies used in the actual drilling operations are incomplete, as many items are furnished to the contractors by well owners and are part of "The Crude Petroleum and Natural Gas Industry" S.I.C. 064 (Catalogue No. 26-213).

TABLE 9. Drilling Conducted during 1963-65 by Contractors, for Petroleum, Natural Gas and Other Purposes<sup>1</sup>

		F'	ootage drilled				
24/20/2005	Oil, gas, service and slim hole  Type of drill			Other purposes		Gross Income from drilling	Total salaries and wages paid
Province							
	Diamond	Cable	Rotary	Cable	Rotary		
						\$	\$
1963							
Nova Scotia	_	-	2,031	_	_	12,000	10.471
Quebec		***	33,000	_	_	184, 272	51, 207
Ontario		124,948	9,494	136, 202	4.007	913,019	400, 796
Manitoba	_	_	135,606	1.000	5,000	540, 761	167. 284
Saskatchewan	_	-	2,584,673	DE 000	567.222	14,544,775 48,084,941	2,863,243 15,927,661
Alberta	_	Bris.	8,001,285 1,472,323	85,000 12,129	1,513,891 350,594	9,797,008	3.067.380
British Columbia			21.313	2,700	40.000	456, 719	136.320
Northwest Territories			26, 671	2,700	6,000	1,407,691	308.357
				000 004			
Canada	_	124, 948	12, 296, 396	237, 031	2, 486, 714	75. 941. 186	22, 932, 719
1964							
Nova Scotia	_	_	9,853	_	_	226.874	53,440
Quebec	- 1	_	4,407	_	_	86, 295	27.247
Ontario	- 1	193.024	50, 651	36,702	14, 702	1,643,050	534.529
Manitoba	4.00	-	280, 587		6,000	1, 273, 495	317.247
Saskatchewan	175	_	3,885,342	_	504.498 272.521	16,926,342 54,470,669	4,392,993
Alberta	4,060	_	8,863,023 691,282	_	106, 135	5. 437. 895	1,318,549
British Columbia	1, 995		72,883		100, 135	1,012,061	320.055
Northwest Territories	-		41,892	_	190	859,727	313.933
		100 004			903. 856	81, 936, 408	25, 204, 744
Canada	6. 230	193. 024	13, 899, 920	36, 702	903, 800	01, 230, 900	201, 209, 199
1965							
Nova Scotia	-	-	-	_	-	56,856	43,491
Quebec		2, 145	2,750	_	-	78, 934	33, 159
Ontario		338,200	19,599	-	1,500	2,855,678	1,051,248
Manitoba	_	_	159, 931	_	27,942	1, 152, 204	301,884
Markatchewan	_		4,434,520	_	431, 231	21,390,748	5,499,289
Alberta			9,719,350	_	66,317	66,033,757	2.381.923
British Columbia	_		1,030,358 97,420	_		1,498,434	451.21
Northwest Territories	_		6.358	_	_	267, 122	128, 236
Yukon							
Canada	-	340, 345	15, 470, 286	_	526, 990	100, 206, 840	31, 729, 760

<sup>1</sup> Not included in Section I of this report.

TABLE 10. Payroll, Employment and Man-hours, 1965, Canada

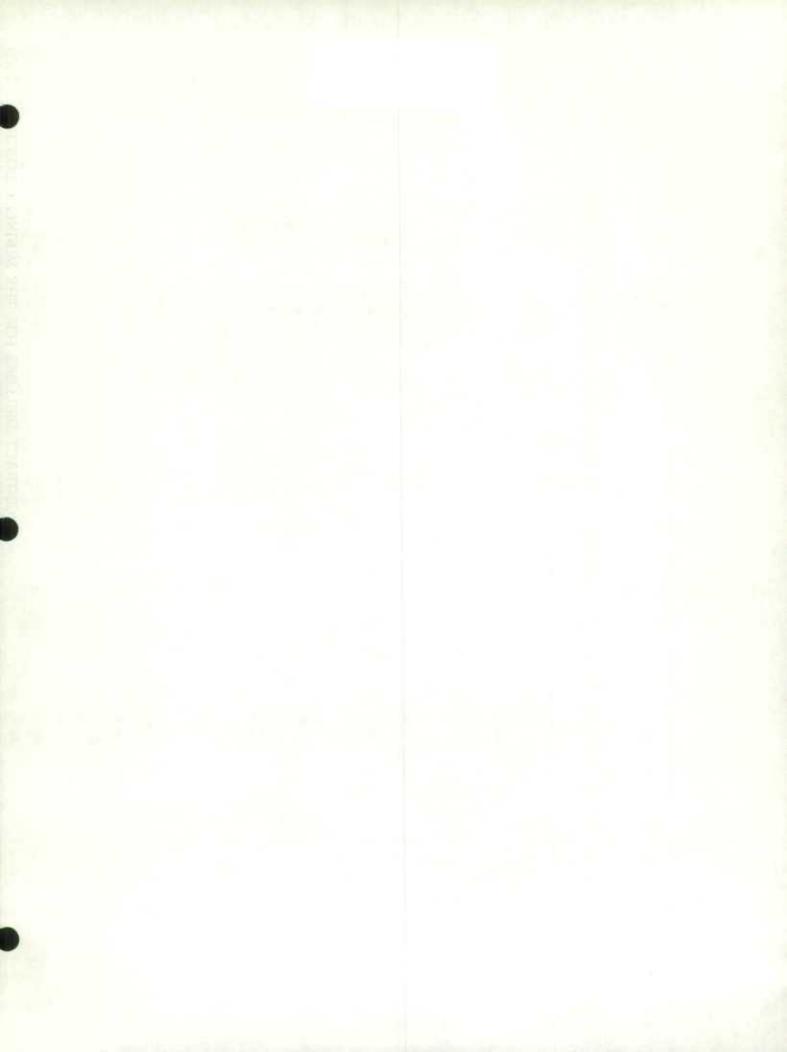
	Number of em	ployees as at I	December 31	Salaries and
	Male	Female	Total	for the year
				\$
. Management:		l		
(a) Working owners and partners	34 128	2 6	36 134	
Totals	162	8	170	2, 210, 822
Professional, technical and administrative:				
(a) Geophysicists	_	_	_	
(b) Geologists (c) Petroleum engineers	2	_	2	
(d) Other engineers	8 4		8	
(e) Other professional personnel	7	3	10	
Sub-totals	21	3	24	232, 506
(f) Specialists and technicians	57	_ 1	57	
(g) Clerical and secretarial	71	112	183	
(h) Other administrative personnel	122	1	123	
Totals	271	116	387	2, 557, 817
Production, field, plant and related workers:				
(a) Wage-earners	4,067	24	4,091	26, 961, 121
Total salaries and wages	4, 500	148	4, 648	31, 729, 760
	Male		Female	
. Production employment statistics1 — Month-end:				
January 31	4,75			54
February 28	4,70			52
March 31 April 30	4,649 2,859		52	
May 31	3,13			17
June 30	3,62			12
July 31	3,738			8
August 31	3,75 3,69'			14
September 30 October 31	4,268			12
November 30	4,508			17
December 31	5,110	3		24
	Hours worked	Hours not	worked	Total
	and paid	but pai	d for	10001
. Man-hour statistics - Quarterly and annual:				
January 1 - March 31	2, 220, 8	06	27, 053	2,247,859
April 1 - June 30	1,433,5		40, 701	1, 474, 240
July 1 — September 30	1,610,9	27	50,044	1,660,971
October 1 — December 31	1,938,2	12	42,511	1,980,723
			1	

<sup>&</sup>lt;sup>1</sup> Include the number of production, etc., employees as at the last pay period of each month whether paid on a monthly, weekly, hourly or piece work basis whose wages are included in 3(a) above. Do not include employees reported in items 1 and 2 above.

#### List of Contract Drillers, 1965

Name	Head office address
Ontario:	
Bernard Bros. Drilling	
Chevalier & Tremblay Demary & Nichols	
Earl, Sydney	
Haldmond Gas & Oil Ltd.	
Hollis IV Ltd.	
Irving Drilling Co.	
Jackson, P.L. Co.	
James Drilling Ltd.	
Lyons, Sam, & Son McKillop & Sons	
McPherson, R.L. Drilling Ltd.	
Montgomery Bros.	
Patterson, L.G. Drilling Co. Ltd.	Wallaceburg
Place Gas & Oil Co. Ltd.	605, 80 Richmond St. W., Toronto
Rose, Wm. & Sons	
Shaw, W.	
Stubble & Stubble	
askatche wan:	1104 NOUL MISSION, Mr. I ICESEM, McCingan, C.S.A.
Border Drilling Co. Ltd.	Box 350, Lloydminster
lberta:	
A & S Drilling Co.	601 McLeod Bldg., Edmonton
Antilope Drilling Co. Ltd.	107 Petroleum Bldg., Calgary
Argus Drilling Ltd.	4th floor, 640-8th Ave. S.W., Calgary
Arrow Drilling Company Limited	
Bawden, Peter Drilling Ltd.	
Beiwyn Drilling Ltd.	
Horn Drilling Ltd.	
Brickerhoff Drilling Company Ltd.	220 Bentall Bldg., Calgary
Brown Drilling Ltd.	
Cuctus Drilling Corp. Ltd.	
Canamerican Drilling Corp. Ltd. Cambridge Oil Exploration Ltd.	
Can-Tex Drilling & Exploration Ltd.	
Carroll Drilling Co. Ltd.	
Cascade Drilling Company Ltd.	
Chipmunk Drilling Co. Ltd.	
Commonwealth Drilling Co. Ltd.	
Coultis Drilling Ltd.  Double A. Drilling Co. Ltd.	
Duke Drilling Co. Ltd.	
Dyna Drilling (1965) Ltd.	201 211 1 0 W 0 1
General Petroleum Drilling Co. Ltd.	3604 - 8th St. S.E., Calgary
Glacier Drilling Co.	
Gustavson Drilling Co. Ltd.	
Hi-Lower Drilling Co. Ltd.  Jennings Drilling Co. Ltd.	
Kenyons Drilling & Servicing (1962) Ltd.	9635-63rd Ave., Edmonton
King, Carl B. Drilling Co.	1517 Denver Club Bldg. Denver, Colorado, U.S.A.
L.B.N. Drilling Co. Ltd.	66 Thornlee Crescent, Calgary
Loffland Brothers Company of Canada	717-7th Ave S.W., Calgary
Lohmann-Johnson Drilling Co. Ltd.	
M & R Drilling Co. Ltd.	114-310-9th Ave. S.W., Calgary
McLaren, Guthrie Drilling Ltd. Mundt Drilling Co. Ltd.	14610-119th Ave., Edmonton   Ste. E. 6810-104 St., Edmonton
Parker Drilling Co. of Canada Limited	440 Bentall Bldg., Calgary
Precision Drilling Co. Ltd.	1147-17th Ave. S.W., Calgary
Reading & Bates Drilling Co. Ltd.	3rd floor, Royal Bank Bldg., Calgary
Regent Drilling Co. Ltd.	12912 - 125th Ave., Edmonton
Rine Drilling Co. of Canada Ltd.	
Ryland Drilling Ltd. S&T Drilling Co. Ltd.	The state of the s
Sedco Exploration Ltd.	0.15 40 1 1
Simmons Drilling Ltd.	need need to control of the control
Smeegic Surveys Ltd.	290 Bentall Bldg., Calgary
Thomson Drilling Ltd.	635-6th Ave. S.W., Calgary
Tri-City Drilling Co. Ltd.	14305 - 120 Ave., Edmonton
Trimble, W.C. Ltd.	
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