



CONTRACT DRILLING IN THE MINING INDUSTRY 1960



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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 (Cat. no. 12-501).

During 1960 the footage drilled by contract diamond drilling was 5,521,211 compared with 5,435,971 in 1959. Income received from drilling was \$17,056,676. There were 59 firms reporting

their operations in this industry. Drilling was reported in all provinces and territories. The average number of employees was estimated at 1,912 and the salaries and wages totalled \$7,977,782.

Equipment owned by the operators included 340 air or steam-driven drills, 586 gasoline-driven drills and 47 electric driven drills.

TABLE 1. Contract Diamond Drilling Operations, 1951-60 (Drilling operations conducted by contractors who employed diamond drills only and which were confined chiefly to the testing of metalliferous.deposits)

Year	Footage drilled	Income from drilling	Average number of employees	Total salaries and wages paid
		\$		\$
1951 1952 1953 1954 1955 1956 1957 1958	5, 091, 514 5, 180, 783 5, 258, 870 5, 639, 574 6, 443, 641 7, 840, 670 6, 296, 128 4, 426, 594	12, 357, 329 14, 667, 847 15, 779, 420 15, 932, 481 21, 444, 802 27, 610, 974 21, 221, 593 14, 419, 623	2, 431 2, 345 2, 238 2, 352 2, 840 3, 415 2, 951 1, 717	5, 996, 026 7, 119, 714 7, 110, 188 7, 833, 645 9, 852, 432 12, 644, 217 10, 831, 483 6, 921, 761
1959				
Newfoundland Nova Scotia and P.E.I. New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Northwest Territories Yukon	71, 966 7, 291 67, 518 1, 978, 433 1, 938, 118 655, 315 314, 128 8, 362 257, 839 122, 173 14, 828	363, 913 38, 400 259, 765 5, 813, 201 5, 052, 204 3, 150, 140 1, 232, 790 71, 652 1, 454, 101 355, 715 87, 743	54 10 29 652 579 257 110 22 139 42	206, 707 18, 521 97, 545 2, 560, 359 2, 335, 440 1, 145, 523 536, 145 79, 996 772, 773 174, 830 39, 917
Canada	5, 435, 971	17, 879, 624	1, 902	7,967,756
1960				
Newfoundland Nova Scotia and P.E.I. New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Northwest Territories Yukon	206, 307 4, 650 86, 923 1, 565, 106 2, 271, 650 659, 287 202, 122 21, 363 333, 265 156, 176 14, 362	717, 152 26, 724 341, 650 4, 095, 879 6, 231, 578 2, 691, 944 605, 979 158, 856 1, 682, 297 396, 695 107, 922	111 5 48 508 668 269 62 24 160 47	371, 554 16, 793 137, 950 1, 982, 574 2, 755, 402 1, 187, 414 297, 860 107, 194 868, 208 202, 660 50, 173
Canada	5, 521, 211	17, 056, 676	1, 912	7, 977, 782

TABLE 2. Value of Stones, Readyset and Castset Bits, Purchased by Contractors, 1951-60

Year	Value	Year	Value	
	\$		\$	
951	2,390,351	1956	2,689,302	
952	3,322,289	1957	3,267,887	
953	2,939,143	1958	1,807,398	
954	2,051,999	1959	2,828,106	
955	3,356,757	1960	2,713,923	

TABLE 3. Drilling Completed on Gold Quartz Deposits, 1959 and 1960

	Footage drilled		
	1959	1960	
Diamond drilling for exploration and testing:			
By mining companies with their own personnel and equipment	524,701	415,721	
By diamond drilling contractors ¹	1,271,824	1,610,415	
Other diamond drilling:			
Blast hole diamond drilling:			
By mining companies with their own personnel and equipment	22,570	16,445	
By diamond drilling contractors ¹	12, 139	17,838	
Drilling by percussion or other machines ²	39,609,573	38, 161, 529	

¹ Included in Table 1.

Note: Value of diamonds purchased by gold mining companies in 1960 totalled \$231,368 compared with \$130,738 in in 1959.

TABLE 4. Drilling Completed on Copper-Gold-Silver and Nickel-Copper Deposits, 1959 and 1960

	Footage drilled		
	1959	1960	
Diamond drilling for exploration and testing:			
By mining companies with their own personnel and equipment	117,634	269,841	
By diamond drilling contractors ¹	2,087,794	2, 114, 634	
Other diamond drilling:			
Blast hole diamond drilling:			
By mining companies with their own personnel and equipment	906,950	1,097,624	
By diamond drilling contractors ¹	531,534	677, 325	
Drilling by percussion or other machines ²	39,511,594	45, 762, 605	

¹ Included in Table 1.

Note: Value of diamonds purchased by copper-gold-silver and nickel-copper mining companies in 1960 totalled \$400,479 compared with \$448,254 in 1959.

² Not complete as records are unavailable at certain mines.

² Not complete as records are unavailable at certain mines.

TABLE 5. Drilling Completed on Silver-Lead-Zinc and Silver-Cobalt Deposits, 1959 and 1960

	Footage drilled		
	1959	1960	
Diamond drilling for exploration and testing: By mining companies with their own personnel and equipment By diamond drilling contractors ¹	67,853 266,307	113,690 265,051	
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors ¹	591, 326	362, 816	
Drilling by percussion or other machines ²	4,751,708	7, 218, 559	

¹ Included in Table 1.

Note: Value of diamonds purchased by silver-lead-zinc and silver-cobalt companies in 1960 amounted to \$41,947 compared with \$133,891 in 1959.

TABLE 6. Drilling Completed on Other Metal-bearing Deposits, 1959 and 1960

	Footage drilled		
	1959	1960	
Diamond drilling for exploration and testing: By mining companies with their own personnel and equipment By diamond drilling contractors ¹	76, 513 859, 184	17,689 370,575	
Char diamond drilling: Slast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors ¹ Drilling by percussion or other machines ²	82,772 239,637 70,260,010	317, 324 48, 692, 826	

¹ Included in Table 1.

Note: Value of diamonds purchased by other metal-mining companies in 1960 amounted to \$30,825 compared with \$147,676 in 1959.

TABLE 7. Drilling Completed on Asbestos Deposits, 1959 and 1960

	Footage drilled		
	1959	1960	
Diamond drilling for exploration and testing: By mining companies with their own personnel and equipment By diamond drilling contractors ¹	26,057 106,350	9,906 120,201	
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors ¹ Drilling by percussion or other machines ²	4,368,119	_ 5,012,850	

Note 1: The total footage of contract drilling recorded in Tables 3 to 7 does not necessarily agree with the corresponding totals shown in Table 1 as drilling data are incomplete or unobtainable from some mining firms.

Note 2: Diamonds purchased by ashestos mining companies were valued at \$18,724 in 1960 and \$884 in 1958.

² Not complete as records are unavailable at certain mines.

² Includes drilling on iron, chromite, titanium and uranium deposits.

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

Directory, 1960 List of Diamond Drilling Contractors, 1960

Name of firm	Head office address
Albert, R. Diamond Drilling.	R.R. 2, Val d'Or, Québec
Anderson Diamond Drill Contractor	306 Patricia Blvd., Timmins, Ontario
Arno Diamond Drilling Co. Ltd.	Box 426, Timmins, Ontario
Arsenault, A. Diamond Drilling Ltd.	Box 167, Squamish, British Columbia
Atlantic Drillers & Explorers Ltd.	Tilt Cove, Green Bay, Newfoundland
Baderski, Frank, & Son	464 Algonquin Blvd. E., Timmins, Ontario
Baker, L.J., Diamond Drilling Co. Ltd.	Box 218, Val d'Or, Quebec
Barron, R. Diamond Drilling	Haileybury, Ontario
Boyles Bros. Drilling (Alberta) Ltd.	10210 - 111 Street, Edmonton, Alberta
Boyles Bros, Drilling Co. Ltd.	1651 Franklin St., Vancouver British Columbia
Boyles Bros. Drilling (Eastern) Ltd.	142 N. Cumberland St., Port Arthur, Ontario
Boyles Bros. (Quebec) Ltd.	Noranda, Quebec
Boyles-Selby Joint Venture	Grand Rapids, Manitoba
Bradley Bros. Ltd.	Noranda, Quebec
Bradville Drilling & Exploration Ltd	Box 475, Kirkland Lake, Ontario
Brochu Diamond Drilling	116 Highland Rd., North Bay, Ontario R.R. 2. Armdale — Halifax Co., N.S.
Brown & Hall	352 Howey Drive, Sudbury, Ontario
Burton, Archie S.	907-1st St. S., Kenora, Ontario
Byberg Diamond Drilling Cameron Drilling Co. Ltd.	491 First Ave., Malartic, Quebec
Canadian Longyear Ltd.	Drawer 330, North Bay, Ontario
	81 Fecteau St., Thetford Mines, Quebec
Chenette Drilling Reg'd	North Cobalt, Ontario
Cloutier Bros. Diamond Drilling	181 Eglinton Ave. E., Toronto, Ontario
Connors, T., Diamond Drilling Co. Ltd.	Drawer 250, Rouyn, Quebec
Deeg & Ottman Drilling Co. Ltd.	1000 Commercial Dr., Vancouver, British Columbia
DeMorest Drillers Ltd.	55 Yonge St. Toronto, Ontario
Dion, L., Diamond Drill Contractor	Box 724, Madsen, Ontario
	Box 206, Chibougamau, Quebec
Dixon, R.N.	Kilmar, Quebec
Downing, Geo. (Estate)	Box 369, Kenora, Ontario
Fathom Drilling Ltd.	Madsen, Ontario
	Sullivan, Quebec
Fournier Diamond Drilling Reg'd Gisler, Peter, Diamond Drilling Co. Ltd.	
	19 Regina Ave., Kenora, Ontario
Globe Drilling & Exploration Co. Goyette Diamond Drilling Co. Ltd.	1010-6th Ave., Val d'Or, Quebec
Gravel, William	31 Racine West, Chicoutimi
Griffith Bros. Diamond Drilling Ltd.	Bissett, Manitoba
Groleau Bros. Diamond Drilling Co. Ltd.	44 Taschereau St. E., Rouyn, Quebec
Harvey Kendrick Development Ltd.	Uranium City, Saskatchewan
Heath & Sherwood Drilling Ltd.	Box 998, Kirland Lake, Ontario
Inspiration Mining & Development Co. Ltd	170 Regina St., North Bay, Ontario
Joy Manufacturing Co. (Can.) Ltd.	175 Beverly St., Galt, Ontario
Labine Bros. Ltd.	Cochenour, Ontario
Larson, B.E.	Box 360, Bathurst, New Brunswick
La Rocque, T.E., Diamond Drilling Co. Ltd.	10 Frontenac St., Val d'Or, Quebec
Lebel, J.B. Ltee.	Box 280, Senneterre, Quebec
Logan Bros. Diamond Drilling	R.R. No. 2, Truro, Nova Scotia Box 367, Dryden, Ontario
Lantz Diamond Drilling Co.	Chaput Hughes, Ontario
Martin, Thos.	866 King Edward, Winnipeg, Manitoba
Midwest Diamond Drilling Co. Ltd. Morissette Diamond Drilling Ltd.	Box 550, Haileybury, Ontario
Mutch Diamond Drilling Co. Ltd.	786 Edgewood Rd, North, Vancouver, British Columbia
National Diamond Drilling Co. Ltd.	Box 508, Rossland, British Columbia
Niemetz & Caron Diamond Drilling	Haileybury, Ontario
Norwescon Development Ltd.	Box 769, Red Lake, Ontario
Pacific Diamond Drilling Co. Ltd.	367 East 2nd Ave., Vancouver, British Columbia
Patricia Diamond Drilling Co. Ltd.	McKenzie Island, Ontario
Pilon, J.L., Limited	Box 626, North Bay, Ontario
Portelance Diamond Drilling Co. Ltd.	2135 Blvd. Levesque. Duvernay, Quebec
Priority Drilling Limited	33-25 Melinda St., Toronto, Ontario
Rabb Diamond Drilling Co. Ltd.	Cardiff, Ontario
Rouyn Diamond Drilling & Dev. Co. Ltd.	122 Taschereau St. E., Rouyn, Quebec
Rowan, Angus Contract Diamond Drilling	99 Elm St. N., Timmins, Ontario
Roy, Aime	St. Ubald, Quebec
St. Lambert Drilling Co. Ltd.	Box 243, Thetford Mines, Quebec
St. Lawrence Drilling Co. Ltd.	585 Cormier St., Sherbrooke, Quebec
St. Louis Bergeron Diamond Drilling Co. Ltd.	Box 848, New Liskeard, Ontario
Sheridan, J.P.	121 Richmond St. W., Toronto, Ontario
Sprague & Henwood Inc.	221 West Olive St., Scranton, Pennsylvania, U.S.A.
Talbot, Claude Diamond Drilling Contracteur	Chibougamau, Quebec
Terr Exploration & Drilling Ltd.	Gunnar, Saskatchewan
Trans-Canada Diamond Drilling & Development Corp.	27 de la Fabrique, Thetiord Mines, Quebro
Wallace Drilling Company	Box 37, Uranium City, Saskatchewan
Wilson Contract Diamond Drilling	Box 277, Noranda, Quebec

SECTION II

Contract Drilling for Fuels

This report includes similation 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 drilling for these minerals was reported by 94 contractors. The total reported footage was 13,770,531 feet and the income from operations amounted to \$75,240,796 compared, respectively, with 13,345,500 feet and \$63,815,776 in 1959. Rotary drilling amounted to 13,538,783 feet and 231,746 feet were done by cable drills.

The firms owned 352 rotary drills and 46 cable drills.

Supplies used during the year included 15,131 tons of bentonite, Pembina clay, etc., valued at \$842,331 625 tons of barite valued at \$49,023; drilling bits, cables and lubricants valued at \$75,896,665; general repairs to rig, \$8,729,325 and casing pipe was valued at \$401,300. Data on supplies are incomplete as many items are furnished to the contractor drillers by the well owners.

Drilling done by oil companies with their own equipment is not included in this report.

TABLE 8. Drilling Conducted During 1951-1960 by Contractors, for Petroleum, Natural Gas and Other Purposes not Included in Section I of this Report

			Foor	tage drilled					Gross num- income ber and		Aver-	
Province	For	petroleum	F	or gas	For	other p	urposes					
Flovince	Type of drill		Type of drill		Type of drill			from drilling	of em- ploy-	wages paid		
	Cable	Rotary	Cable	Rotary	Cable	Dia- mond	Rotary		ees			
								\$		\$		
1651	39, 518	4, 534, 527	851, 257	164, 159	27, 273	446	620,050	42, 988, 013	3, 620	13, 050, 248		
1952	57, 727	6, 733, 597		323,420	37,096	_		61, 216, 235				
1953	46,501	8, 152, 919	253,769	337, 353	325,621	_		59, 663, 492		19, 849, 469		
1954	74, 680	7, 701, 239	366, 479			_		58, 823, 980				
1955	77,780	10, 352, 166	233, 896	873, 272	42,377	_		68, 348, 596				
1956	76, 351	13, 277, 362	240, 275	387,311	60,037	_		93, 256, 768				
1957		10, 475, 312		409,370	18,469	_	1, 241, 387	75, 632, 962	5, 468	25, 744, 889		
1958	84, 460	11, 554, 278	351,851	709,353	10, 140	-	734, 463	69, 344, 898	5, 261	24, 079, 834		
1959												
New Brunswick Quebec Ontario Manifoba Sas katchewan Alberta British Columbia Northwest Territories Yukon	17,543 27,643 86,740	1,400 24,044 109,527 1,679,05 6,465,580 368,377 8,981	154, 027	2,357 101,620 828,197 147,168 2,890 5,000	2,304		10,486 410,513 2,352,018 494,257 8,240	72, 340 113, 352 1, 609, 814 556, 668 6, 440, 951 48, 740, 415 5, 989, 515 207, 721 85, 000	18 156 33 605 3, 367 531 7	27, 236 48, 358 630, 548 155, 462 2, 489, 965 15, 837, 77 2, 140, 478 23, 887 68, 908		
Canada	131, 926	8, 656, 968	154, 027	1, 087, 232	31, 766	7.567	3, 276, 014	63, 815, 776	4, 734	21, 422, 814		
1960												
New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta Orltish Columbia Corthwest Territories	13, 117 10, 022 76, 053	23, 156 156, 361 1, 415, 646 7, 646, 440 394, 832 54, 634	99, 271	596 236, 683 681, 225 173, 154 8, 723 8, 004	21,802 1,500 505 9,478		19, 266 5, 200 355, 016 1, 578, 462 597, 839 134, 164 49, 382	31, 689 34, 551 1,303, 429 644, 498 4, 536, 088 56, 995, 583 8, 957, 960 1,334, 094 402, 904	4 8 122 49 512 3,451 613 72 29	9, 652 22, 964 539, 877 177, 632 2, 204, 914 17, 080, 996 2, 699, 174 240, 572 180, 994		
Canada	99, 192	9, 691, 069	99 271	1, 108, 385	22 208		2, 739, 329	75, 240, 796	4 960	99 150 776		

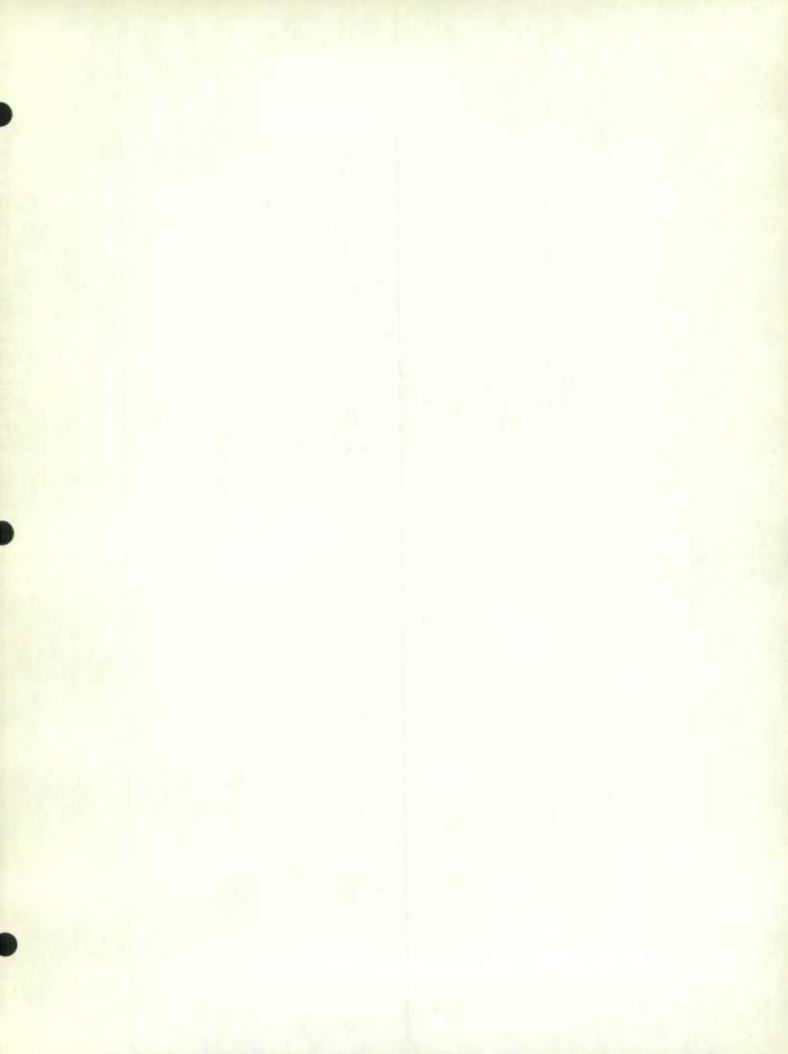
List of Contract Drillers, 1960

Name of firm	Head office address		
Quebec:			
Associated Developments Ltd.	1610 Sherbrooke St. W. Montecel		
St. Lawrence Drilling Co. Ltd.			
	4) 400000000000000000000000000000000000		
Ontario:	The second is second in		
Culver, M., & Son	R.R. 2, Selkirk		
Davidson, G.			
Earl, Sydney Emerson & Rose			
Emerson, H.L.			
Haskell, Bert			
Heal, A.A.	Box 264, Watford		
Irving, Donald			
Kiser, Wayne, & Son			
Lather, R.V. Lyons, S., & Son			
Mandley Drilling Contractors			
McPherson, R.L. Drilling Ltd.	88 Thompson Blvd., Riverside		
Nauman, J.R.	Fisherville		
Schweyer, George			
Smelser, Ivan & Son Stevenson Drilling Co. Ltd.	Jarvis Thamesville		
Stewart, Elgin	R.R. 3. Jarvis		
Stubble & Stubble	Merlin		
Stubble, H.H. & Son	225 Grand Ave., Chatham		
Underwater Gas Developers Ltd.			
Union Rotary Drillers (Canada) Limited	1104 N. Mission St., Mt. Pleasant, Michigan, U.S.A.		
lanitoba:			
Coyle, D.J.	799 Gateway Rd., Winnipeg 5		
	Top Classific, Hillipse, o		
Saskatchewan:			
Border Drilling Co. Ltd.	Lloydminster		
Carroll Drilling Co. Ltd.			
Hub City Drilling Co.	321-21st Ave. E., Saskatoon		
Porter Drilling Ltd.	201A Brent Bldg., Regina		
Alberta:			
Accurate Exploration Ltd.	2201 10th Aug C W Colcory		
Andco Drilling Ltd.			
Anderson, Cliff Drilling	Airdrie		
Arrow Drilling Company Limited	309-7th Ave. W., Calgary		
Badger Drilling Co. Ltd.	530A-6th Ave. W., Calgary		
Bawdon, Peter, Drilling Ltd.			
Bennett & Nowak Drilling Co. Ltd. Berwyn Drilling Ltd.	1315 - 1st St. W., Calgary 5603 - 102A Avenue, Edmonton		
Big Indian Drilling Co. Ltd.	1318-9th Ave. S.E., Calgary		
Bishop Drilling	Claresholm		
Brinkerhoff Drilling Company Ltd.			
Brown Drilling Ltd.	10509-81st Ave., Edmonton		
Cactus Drilling Corp. Ltd. Canamerican Drilling Corp. Ltd.			
Cambridge Corporation Ltd.	320-7th Ave. W., Calgary 237-7th Ave. W., Calgary		
Can-Tex Drilling & Exploration Ltd.			
Cascade Drilling Company Ltd.	635-6th Ave. S.W., Calgary		
Central Del Rio Oils Ltd.			
Chipmunk Drilling Co. Ltd.			
Commonwealth Drilling Co. Ltd. Coralta Drilling Ltd.	706 - 7th Ave. S.W., Calgary		
Coultis Drilling Ltd.	Box 4104, Edmonton 1724 Suffolk St., Calgary		
Double A. Drilling Co. Ltd.	201A - 709 - 8th Ave. W., Calgary		
Duke Drilling Co. Ltd.	505 - 2398th. Ave. S.W., Calgary		
Farwell Drilling Co.	214A - 8th Ave. S.E., Calgary		
Foothills Drilling Ltd.	Box 28, Calgary		
Gardner Bros. Drilling Co.	1718 Davis, Bldg., Dallas 1, Texas, U.S.A. 10040 - 106th St., Edmonton		
Garrity & Baker Drilling Co. Ltd.	THE PROPERTY OF THE PARTY OF TH		
Garrity & Baker Drilling Co. Ltd. Glacier Drilling Co.			
Garrity & Baker Drilling Co. Ltd. Glacier Drilling Co. Gustavson Drilling Co. Ltd.	Box 117, Coleman 203 Empire Bldg., Calgary		

List of Contract Drillers, 1960 - Concluded

Name of firm	Head office address
Alberta — Concluded:	
Hall, M.R. Drilling Ltd.	1743-36th Ave. S.W., Calgary
Hasco Seismic Ltd.	
Hewgley Drilling Co. of Can. Ltd.	
Hunter Drilling Limited	
Independent Drilling & Exploration Ltd.	
Jennings Drilling Co. (Alberta) Ltd.	
Kuntz, H.M. & Associates Ltd.	
L. & J. Drilling Ltd.	
Loffland Brothers Company of Canada	
Lohmann-Johnson Drilling Co. Ltd.	
Merit Drilling Co.	
Parker Drilling Co. of Canada Limited	444-7th Ave. S.W., Calgary
Pennant Drilling Company Ltd.	415 Petroleum Club Block, Denver, Colorado, U.S.A.
Petrolia Drilling Ltd.	
Portable Drilling Ltd.	
Precision Drilling Co. Ltd.	1147-17th Ave. S.W., Calgary
R. & J. Drilling Co. Ltd.	
Reading & Bates Drilling Co. Ltd.	
Regent Drilling Company Limited	12912-125th Ave., Edmonton
Rennick Drilling Co. Ltd.	3822 - 2nd St. N.W., Calgary
Rine Drilling Co. of Canada Ltd.	
Ryland Drilling Limited	
S. & T. Drilling Co. Ltd.	
Sedco Exploration Ltd	915-42nd Ave., S.E., Calgary
Seisform Drilling Ltd.	
Seismograph Service Corp. of Canada	
Strategic Surveys Ltd.	1303 Colborne Crescent, Calgary
Trail Drilling Ltd.	Airdrie
Tri-City Drilling Co. Ltd.	
Trinity Canadian Drilling Co.	
Ward, G.H. Drilling Co. Ltd.	2718-83 Ave. S.E., Calgary
Wardean Drilling Ltd.	
Warnke Bros. Ltd. Young Exploration Co. of Canada	
roung Exploration Co. of Canada	Box 5000, Oktanoma City, Oktanoma, 5.5.A.
British Columbia:	
Western Water Wells & Hamelin Drilling Ltd.	Box 748, Langley





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