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DOMINION BUREAU OF STATISTICS — DEPARTMENT OF TRADE AND COMMERCE
CANADA

CONTRACT DRILLING IN THE MINING INDUSTRY
1951



Published by
Authority of the Rt. Hon. C. D. Howe
Minister of Trade and Commerce

Prepared in the Mining, Metallurgical and Chemical Section
Industry and Merchandising Division
Dominion Bureau of Statistics
Ottawa

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I—Mineral Statistics
- Part II—Forestry Statistics—Operations in the Woods
- Part III—Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A—General Review of the Mining Industry, 50¢.
- B—The Gold Mining Industry, 50¢.
- C—The Silver-Lead-Zinc Mining Industry, 25¢.
- D—The Nickel-Copper Mining, Smelting and Refining Industry, 25¢.
- E—The Miscellaneous Metal Mining Industry, 25¢.
- F—The Non-ferrous Smelting and Refining Industry, 25¢.
- G—The Coal Mining Industry, \$1.00.
- H—The Crude Petroleum and Natural Gas Industry, 25¢.
- I—The Asbestos Mining Industry, 25¢.
- J—The Feldspar and Quartz Mining Industry, 25¢.
- K—The Gypsum Industry, 25¢.
- L—The Peat Industry, 25¢.
- M—The Salt Industry, 25¢.
- N—The Talc and Soapstone Industry, 25¢.
- O—The Miscellaneous Non-Metal Mining Industry, 25¢.
- P—The Cement Manufacturing Industry, 25¢.
- Q—The Clay and Clay Products Industry, 25¢.
- R—The Lime Industry, 25¢.
- S—The Sand and Gravel Industry, 25¢.
- T—The Stone Industry, 25¢.
- U—Contract Diamond Drilling in the Mining Industry, 25¢.

CONTRACT DRILLING IN THE MINING INDUSTRY

1951

(Diamond drilling of deposits other than fuels)

During 1951 the footage drilled by contract diamond drilling was 5,091,514 compared with 6,006,747 in 1950. Income received from drilling was \$12,357,329. There were 45 firms operating in this industry in 1951. Drilling was reported in all the provinces except Prince Edward Island. The average number of employees was estimated at

2,431 compared with 1,862 in 1950, and the salaries and wages totalled \$5,996,026 compared with \$4,532,903 in the preceding year.

Equipment owned by the operators included 324 air or steam-driven drills and 502 gasoline-driven drills.

TABLE 1. Contract Diamond Drilling Operations, 1942-1951 (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
	\$	\$		
1942	2,960,364	3,147,532	1,019	1,597,040
1943	2,649,708	3,072,481	896	1,493,944
1944	3,468,797	4,970,247	1,468	2,461,813
1945	5,262,438	8,650,864	2,263	3,906,545
1946	6,260,513	11,786,846	2,829	5,285,695
1947	4,072,622	6,635,476	1,838	3,179,473
1948	4,027,977	5,801,117	1,281	2,723,530
1949	4,777,015	7,570,454	1,415	3,423,124
1950				
Newfoundland	27,939	133,460	40	67,700
Nova Scotia	—	—	—	—
New Brunswick	7,191	12,190	5	5,011
Quebec	2,004,111	3,346,598	583	1,482,823
Ontario	1,975,301	3,909,931	872	2,029,791
Manitoba	174,044	394,156	80	211,479
Saskatchewan	114,929	227,928	47	96,281
Alberta	32,537	131,145	37	106,201
British Columbia	1,468,348	853,041	115	296,094
Northwest Territories	202,347	484,230	83	237,543
Canada	6,006,747	9,492,679	1,862	4,532,903
1951				
Newfoundland	92,861	402,136	57	159,053
Nova Scotia	25,573	115,754	23	33,226
New Brunswick	22,132	64,114	34	22,879
Quebec	2,250,417	4,804,267	807	2,038,344
Ontario	1,946,883	4,862,666	1,131	2,545,608
Manitoba	242,240	456,103	91	296,227
Saskatchewan	132,341	345,623	72	199,957
Alberta	22,750	86,216	27	91,563
British Columbia	235,644	875,203	136	452,829
Northwest Territories	4,563	308,332	44	145,939
Yukon	116,110	36,915	9	10,401
Canada	5,091,514	12,357,329	2,431	5,996,026

TABLE 2. Value of Stones, Readyset and Castset Bits, Purchased by Contractors, 1942-1951

Year	Value	Year	Value
	\$		\$
1942	634,233	1947	1,418,831
1943	637,070	1948	1,212,312
1944	810,085	1949	1,379,793
1945	2,018,768	1950	1,640,194
1946	2,192,615	1951	1,625,634

TABLE 3. Drilling Completed on Auriferous Quartz Deposits (Gold Mines) 1950 and 1951

	Footage drilled	
	1950	1951
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	525,482	902,947
By diamond drilling contractors ¹	2,261,988	1,405,308
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	272,281	238,769
By diamond drilling contractors ¹	580,514	378,330
Drilling by percussion or other machines ²	36,580,081	32,746,954

1. Included in Table 1.

2. Not complete as records are unavailable at certain mines.

Value of diamonds purchased by gold mining companies in 1951 totalled \$235,904 compared with \$323,005 in 1950.

TABLE 4. Drilling Completed on Copper-Gold-Silver and Nickel-Copper Deposits, 1950 and 1951

	Footage drilled	
	1950	1951
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	233,302	183,894
By diamond drilling contractors ¹	591,958	899,603
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	3,167,452	2,974,527
By diamond drilling contractors ¹	88,001	91,023
Drilling by percussion or other machines ²	24,223,523	23,863,754

1. Included in Table 1.

2. Not complete as records are unavailable at certain mines.

Value of diamonds purchased by copper-gold-silver and nickel-copper mining companies in 1951 totalled \$1,271,196 compared with \$1,185,394 in 1950.

TABLE 5. Drilling Completed on Silver-Lead-Zinc and Silver-Cobalt Deposits, 1950 and 1951

	Footage drilled	
	1950	1951
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	31,984	74,319
By diamond drilling contractors ¹	467,301	722,796
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	926,447	704,753
By diamond drilling contractors ¹	80	8,200
Drilling by percussion or other machines ²	4,225,080	7,599,907

1. Included in Table 1.

2. Not complete as records are unavailable at certain mines.

Value of diamonds purchased by silver-lead-zinc and silver-cobalt companies in 1951 amounted to \$218,103

TABLE 6. Drilling Completed on Other Metal-Bearing Deposits, 1950 and 1951

	Footage drilled	
	1950	1951
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	—	46,238
By diamond drilling contractors ¹	113,128	210,301
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	—	—
By diamond drilling contractors ¹	159,854	98,526
Drilling by percussion or other machines ²	2,402,468	2,449,596

1. Included in Table 1.

2. Includes drilling on iron, chromite and titanium deposits. Does not include drilling on pitchblende deposits.

TABLE 7. Drilling Completed on Asbestos Deposits, 1950 and 1951

	Footage drilled	
	1950	1951
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	15,039	36,793
By diamond drilling contractors ¹	99,143	150,066
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	127,903	115,476
By diamond drilling contractors ¹	—	30,900
Drilling by percussion or other machines ²	4,337,967	3,412,332

1. Included in Table 1.

2. Not complete as data are not reported by some firms.

Diamonds purchased by asbestos mining companies in 1951 cost \$81,832 compared with \$50,316 in 1950.

Note. 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.

MINERAL STATISTICS OF CANADA

Directory, 1951

The data for 1951, as shown in Table 1, were compiled from returns made by the following firms:

Name of firm	Head office address
Allard Bros.	1120 2nd Ave., Val d'Or, Quebec
Anderson, Anton	20 Patricia Blvd., Timmins, Ontario
Andercheck, John M.	127 Third Ave., Timmins, Ontario
Arno Diamond Drilling Co. Ltd.	Box 426, Timmins, Ontario
Atkin, Percy L.	Box 3, Madsen, Ontario
Avery, Roy W.	Larder Lake, Ontario
Baderski, Frank, & Son	464 Algonquin Blvd. E., Timmins, Ontario
Baker, L.J.	Box 218, Val d'Or, Quebec
Boyles Bros. Drilling (Alberta) Ltd.	10210 - 111 Street, Edmonton, Alberta
Boyles Bros. Drilling Co. Ltd.	1291 Parker St., Vancouver, British Columbia
Boyles Bros. Drilling (Eastern) Ltd.	c/o 1291 Parker St., Vancouver, British Columbia
Bradley Bros. Ltd.	Noranda, Quebec
Bradville Drilling & Exploration Ltd.	12 Government Rd. W., Kirkland Lake, Ontario
Bourgeois, Larry	Box 133, Bourlamaque, Quebec
Burton, Archie S.	352 Howey Crescent, Sudbury, Ontario
Canadian Longyear Ltd.	Box 399, North Bay, Ontario
Connors, T., Diamond Drilling Co. Ltd.	744 West Hastings St., Vancouver, British Columbia
Continental Diamond Drilling Co. Ltd.	82 Perreault St. W., Rouyn, Quebec
Chenette Drilling	Coleraine, Quebec
Demorest Drilling Ltd.	Box 190, Noranda, Quebec
Douville, Conrad	991A Notre Dame St. N., Thetford Mines, Quebec
Edwards, Jack H.	Box 369, Kenora, Ontario
Eco Exploration Co. Ltd.	705 Childs Building, Winnipeg, Manitoba
Ford, Leonard W.	Madsen, Ontario
Geraldton Diamond Drilling Co.	Box 137, Geraldton, Ontario
Goyette Diamond Drilling Reg'd.	Val d'Or, Quebec
Groleau Bros.	44 Taschereau E., Rouyn, Quebec
Griffith Bros. Diamond Drilling	Bissett, Manitoba
Heath & Sherwood	6 Duncan Ave., Kirkland Lake, Ontario
Hudson Diamond Drilling Co. Ltd.	209 First Ave., Noranda, Quebec
Inspiration Mining & Development Co. Ltd.	170 Regina St., North Bay, Ontario
Kendrick & Duggan	Sioux Lookout, Ontario
Kuntz, H.J.	Box 300, Malartic, Quebec
Labine Bros.	Cochenour, Ontario
Larson, B.E.	Val d'Or, Quebec
La Rocque, T.E.	10 Frontenac St., Val d'Or, Quebec
Lipasti, E.	Larder Lake, Ontario
Mikelait, J.A.	Evan, Quebec
Morissette Diamond Drilling Ltd.	Box 440, Haileybury, Ontario
McCall Diamond Drilling Co.	Box B, Geraldton, Ontario
Midwest Diamond Drilling Co. Ltd.	Flin Flon, Manitoba
McGinn, J.R.	5 Elgin St., Sudbury, Ontario
McIsaac, R.M.	35 Church St., Flin Flon, Manitoba
National Diamond Drilling Co. Ltd.	Box 508, Rossland, British Columbia
Odette & Francoeurs	Val d'Or, Quebec
Pacific Diamond Drilling Co. Ltd.	367 East 2nd Ave., Vancouver, British Columbia
Paulson, John	26 Rowan Ave., Kirkland Lake, Ontario
Portelance Diamond Drilling	472 Murdock Ave., Noranda, Quebec
Patricia Diamond Drilling Co. Ltd.	McKenzie Island, Ontario
Plants Diamond Drilling Co.	129 Powell Ave., South Porcupine
Renaud Diamond Drilling Reg'd.	252 Murdock Ave., Noranda, Quebec
Rowan, Angus	119 Elm St. N., Timmins, Ontario
Smith & Travers Co. Ltd.	208 Walnut St., Sudbury, Ontario
Subterra Exploration Co. Ltd.	Box 425, North Bay, Ontario
Sprague & Henwood, Inc.	Box 446, Scranton, Pa., U.S.A.
Wilson, A.	16 B Ave., Noranda, Quebec

SECTION II

Contract Drilling for Fuels

Drilling for petroleum or natural gas direct, or exploratory drilling for these minerals, was reported by 101 contractors. The total reported footage was 6,237,230 feet and the income from the operations amounted to \$42,988,013 compared, respectively, with 3,790,455 feet and \$23,429,058 in 1950. Rotary type drills were used for a total of 5,318,736 feet, cable type drills for 918,048 feet and diamond drills for a very small footage. The firms owned 180 rotary drills, 79 cable drills and 1 diamond drill.

Supplies used during the year included, 10,072 tons of drilling mud (bentonite, Pembina clay, etc.) valued at \$657,742, 1,422 tons of barite valued at \$88,030 and 32,930 gallons of acid valued at \$22,484.

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

TABLE 8. Drilling Conducted During 1950 and 1951, by Contractors, for Petroleum, Natural Gas and Other Purposes not Included in Section 1 of this Report

Province	Footage drilled								Gross income from drilling	Average number of employees	Total salaries and wages paid			
	For petroleum			For gas		For other purposes								
	Type of drill		Type of drill		Type of drill									
	Cable	Diamond	Rotary	Cable	Rotary	Cable	Diamond	Rotary						
1950									\$		\$			
Nova Scotia	—	—	—	—	—	10,876	—	—	65,973	12	15,177			
Ontario	73,076	—	—	197,928	—	15,421	—	—	649,180	113	231,030			
Manitoba.....	—	—	—	—	—	3,635	—	1,809	46,159	7	13,526			
Saskatchewan	—	—	102,722	—	—	6,768	—	21,498	374,029	146	283,852			
Alberta	304	—	2,958,552	—	27,624	—	2,132	352,732	21,509,280	1,952	6,688,587			
British Columbia.....	—	—	15,378	—	—	—	—	—	284,437	24	106,419			
Canada	73,380	—	3,076,632	197,928	27,624	36,700	2,132	376,039	23,429,058	2,254	7,338,591			
1951														
Nova Scotia	—	—	—	—	—	9,308	—	—	65,544	11	23,219			
Quebec	6,540	—	—	—	—	—	—	—	30,379	6	6,631			
Ontario	32,978	—	—	237,238	—	10,280	—	—	749,075	108	248,379			
Manitoba.....	—	—	12,287	—	—	1,869	—	—	124,838	21	56,056			
Saskatchewan	—	446	226,766	92,082	4,737	4,221	—	—	2,301,176	330	792,969			
Alberta	—	—	4,261,432	491,932	159,422	1,595	—	306,768	38,224,928	3,036	11,531,511			
British Columbia.....	—	—	30,125	30,005	—	—	—	313,282	1,429,382	106	385,483			
Northwest Territories	—	—	3,917	—	—	—	—	—	62,691	2	6,000			
Canada	39,518	446	4,534,527	851,257	164,159	27,273	—	620,050	42,988,013	3,620	13,050,248			

List of Contract Drillers, 1951

Name of firm	Head office address
Nova Scotia:	
Kennedy, O.V.	Bridgetown, Nova Scotia
Quebec:	
Balmer, George	Battery Park Hotel, Gaspé, Quebec
Higginsbotham, L.	Battery Park Hotel, Gaspé, Quebec
Ontario:	
Ashton, J.L.	550 King St. W., Chatham
Carter, C.M.	Box 51, Wallaceburg
Culver, Marvin, & Son	R.R. 2, Selkirk
Culver, Orley	Stevensville
Davidson, L.	Wingham
Demaray & Nichols	Kerrwood
Dominion Petroleum Co. Ltd.	Glencoe
Donald, T.G.	Hagersville
Ehde & Meier	Thamesville
Emerson & Rose	Wainfleet
Emerson, H.L.	R.R. 1, Dunnville
Garringer, Wm.	Dunnville
Heai, A.A.	Box 264, Watford
Held, Karl F., & Son	Fort Erie
House, C.C.	Stevensville
Hussey, W.J.	Petrolia
Irving, Donald	64 Culver St., Simcoe
Kiser, Wayne G., & Son	111 Victoria Ave., Chatham
Lymburner Bros. & Webber	Dunnville
Lyons, S., & Son	R.R. 5, Simcoe
Mandley, Roy, & Son	Dunnville
McKillop, Wm.	389 Charlton Ave. W., Hamilton
McMaster, R., & Sons	Caledonia
McPherson, R.L.	851 Tuscarora St., Windsor
Nagel, Elmer	Stevensville
Nauman, H.V.	Fisherville
Nauman, J.R.	Fisherville
Patterson & Culver	Dunnville
Renwick, S.	Bright
Roth, Harvey	R.R. 9, Dunnville
Shank, E.	R.R. 2, Selkirk
Stewart, Elgin	R.R. 3, Jarvis
Stubble, H.H.	225 Grand Ave., Chatham
Stubble & Stubble	Merlin
Warren, Gordon	Box 187, Tillsonburg
Werner, David	Fisherville
Wilson Sullivan Development Co.	104 S. Christina St., Sarnia
Manitoba:	
Coyle, D.J.	796 McDermott Ave., Winnipeg
Saskatchewan:	
Border Drilling Company Limited	Lloydminster, Saskatchewan
Creeiman, R.E., & Sons	1113 Ave. B N, Saskatoon
Mowat & Babb Limited	10444-82nd Ave., Edmonton, Alberta
Palmer Drilling Company	405 Leader Post Bldg., Regina
Alberta:	
Althen Drilling Company Limited	402-3 Maclean Blk., Calgary
American Northland Oil Company	8035-102nd St., Edmonton
Arrow Drilling Company Canada Branch	301 Leeson-Lineham Bldg., Calgary
Brinkerhoff Drilling Company Limited	1001 Barron Bldg., Calgary
Burgren Exploration & Drilling Co. Ltd.	11146-86th St., Edmonton
Canadian Drilling Co. Ltd.	407-8 Alexandra Bldg., Edmonton
Can-Tex Drilling Co. Ltd.	309 Lancaster Bldg., Calgary
Cambridge Corporation Limited	205 Alberta Blk., Calgary
Carroll-Williams Drilling Co. Ltd.	Lloydminster, Saskatchewan
Combination Drilling Contractors	Forestburg

List of Contract Drillers, 1951 — concluded

List of firm	Head office address
Alberta — Concluded	
Commonwealth Drilling Co. Ltd.	# 4 Clarence Blk., Calgary
Culbert Drillers Ltd.	Black Diamond
Devon Drilling Co. Ltd.	Wetaskiwin
Dominion Drilling Co. Ltd.	2 Barron Bldg., Calgary
Downey, R.J.	Box 1603, Vermilion
Carthworn Drilling Co. Ltd.	436 Lougheed Bldg., Calgary
Eason, T.T., & Co. Ltd.	10318-82nd Ave., Edmonton
Futurity Drilling & Development Co. Ltd.	200 Greyhound Bldg., Calgary
General Petroleums of Canada Ltd.	509-8th Ave. W., Calgary
Glenwood Drilling Ltd.	6 Selkirk Hotel Bldg., Edmonton
Gustavson Drilling Co. Ltd.	8621-109th St., Edmonton
Hanson Pipe Pulling Contractors Limited	109 Bank of Commerce Bldg., Calgary
Hon Drilling Limited	1004 Barron Bldg., Calgary
Kortmeyer, Fred	Black Diamond
Lea Park Drillers Limited	302-1st Ave. N., Saskatoon, Saskatchewan
Lloydminster Petroleum Drillers	152-1st Ave. S., Saskatoon, Saskatchewan
Lodestar Drilling Co. Ltd.	208 Alberta Block, Calgary
Loffland Brothers Company of Canada	Box 1649, Tulsa, Oklahoma, U.S.A.
Loggie Drilling Ltd.	10439-82nd Ave., Edmonton
Machinery Depot Limited	1025-33 Tenth Ave. W., Calgary
Marta Drilling & Development Co. Ltd. (N.P.L.)	8534-109th St., Edmonton
McIntyre & Webster Limited	500 Agency Bldg., Edmonton
McIvor Drilling Co. Ltd.	400 Lancaster Bldg., Calgary
Medhurst, R.P., & Sons	208 Burns Bldg., Calgary
Merlin Drilling Ltd.	6 Selkirk Hotel Bldg., Edmonton
Mountain Drilling Co. Ltd.	516 Burns Bldg., Calgary
National Petroleum Corporation Limited	401 Leeson-Lineham Bldg., Calgary
Northwest Seismic Surveys Ltd.	413-10th St. N.W., Calgary
Oil Producers Limited	227 Tegler Bldg., Edmonton
Parker Drilling Company of Canada	418 National Bank of Tulsa Bldg., Tulsa, Oklahoma, U.S.A.
Paul Guthrie Development Limited	10460-111th St., Edmonton
Precision Drilling Co. Ltd.	208 Burns Bldg., Calgary
Redding & Bates Drilling Co. Ltd.	202 Barron Bldg., Calgary
Redding Drilling Limited	12 Easton Bldg., Edmonton
Regent Drilling Company Limited	Box 421, Edmonton
Scandia Drilling Co. Ltd.	111 A Clarke Bldg., Edmonton
Shaw Petroleum Company Limited	Box 159, Lloydminster, Alberta
Stewart Drilling Company Limited	101 Alberta Blk., Edmonton
Trident Drilling Co. Ltd.	803-8th St. W., Calgary
Trinidad Leaseholds (Canada) Ltd.	184 Bay St., Toronto, Ontario
Trinity Canadian Drilling Company	5 Sheldon Bldg., Calgary
Wakefield, Earl F.	307 Union National Bank Bldg., Wichita, Kansas, U.S.A.
Widney Oil Well Drilling & Service Corp. Ltd.	407 Lancaster Bldg., Calgary
Wilderman Drilling Ltd.	1322 Crescent Rd., Calgary
Young Drilling Co. Ltd.	906 Lancaster Bldg., Calgary

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