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CONTRACT DRILLING IN THE MINING INDUSTRY
1949



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

NOTICE

It has been the practice of the Bureau of Statistics, since 1920, to issue an annual printed report on the Mineral Production of Canada. This report was comprised to a large extent of the data which had already been issued in bulletin form as statistics for each industry were completed. The final report was necessarily late in being issued, and its main use was for library purposes and for historical research. It also had the advantage of having complete statistics of the Canadian Mining Industry for a year in one volume.

Such a procedure necessitated the preparation of new manuscript, duplication of proof-reading, and extra costs in type-setting and printing. In order to avoid this extra cost, a system has been devised whereby libraries and other similar organizations may file the separate reports in a ring binder as issued, and if they so desire, may have them bound in a volume when the series for the year is complete.

The reports have been paged in such a manner that when bound they will correspond to the chapters of the annual printed report hitherto issued, but which will now be discontinued.

The following reports will constitute the complete volume on Mineral Statistics of Canada:

- A General Review of the Mining Industry
- B The Gold Mining Industry
- C The Silver-Lead-Zinc Mining Industry
- D The Nickel-Copper Mining, Smelting and Refining Industry
- E The Miscellaneous Metal Mining Industry
- F The Non-ferrous Smelting and Refining Industry
- G The Coal Mining Industry
- H The Natural Gas and Crude Petroleum Industry
- I The Asbestos Mining Industry
- J The Feldspar and Quartz Mining Industry
- K The Gypsum Industry
- L The Peat Industry
- M The Salt Industry
- N The Talc and Soapstone Industry
- O The Miscellaneous Industrial or Non-metallic Minerals Mining Industry
- P The Cement Manufacturing Industry
- Q The Clay and Clay Products Industry
- R The Lime Industry
- S The Sand and Gravel Industry
- T The Stone Industry
- U Contract Diamond Drilling in the Mining Industry
- V Appendix — Explanatory notes on the method of computing the quantities and values of the Mineral Production of Canada

CONTRACT DRILLING IN THE MINING INDUSTRY

1949

SECTION I

Diamond Drilling of Deposits Other Than Fuels

Drilling activity during 1949 was greater than in 1948. There were 41 firms engaged in contract diamond drilling of Canadian mineral deposits, other than fuels, compared with 38 operators in 1948. Income received from drilling totalled \$7,570,454, an increase of 30 per cent from the income of \$5,801,117 in the preceding year. The average number of employees was estimated at 1415 compared with 1281

in 1948 and the salaries and wages paid was \$3,423,124 compared with \$2,723,530 in the preceding year.

Equipment owned by the operators included 352 air or steam-driven drills, 431 gasoline-driven drills and 3 electric drills.

TABLE 1. Contract Diamond Drilling Operations, 1940-1949 (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
		\$		\$
1940.....	2,422,948	3,021,629	1,350	1,575,786
1941.....	2,793,420	3,122,487	1,455	1,535,609
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				
Nova Scotia.....	6,961	9,120	2	2,317
New Brunswick.....	2,604	22,728	9	9,162
Quebec.....	1,115,550	1,793,611	362	805,702
Ontario.....	1,314,308	2,289,161	569	1,169,356
Manitoba.....	196,899	361,674	90	186,572
Saskatchewan.....	132,893	228,338	34	95,517
Alberta.....	39,705	168,498	63	85,404
British Columbia.....	1,131,745	748,771	116	279,661
Yukon.....	6,000	22,563	8	15,767
Northwest Territories.....	81,312	156,653	28	74,072
Canada.....	4,027,977	5,801,117	1,281	2,723,530
 1949				
Newfoundland.....	52,990	247,631	37	90,885
Nova Scotia.....	17,645	38,663	15	10,380
New Brunswick.....	1,380	17,754	8	6,561
Quebec.....	1,369,852	2,154,980	390	950,454
Ontario.....	1,650,338	2,734,168	553	1,262,688
Manitoba.....	232,366	538,564	110	260,733
Saskatchewan.....	102,305	211,786	53	87,028
Alberta.....	58,321	349,680	66	177,869
British Columbia.....	1,104,007	891,378	111	352,773
Yukon.....	—	—	—	—
Northwest Territories.....	187,811	385,850	72	223,753
Canada.....	4,777,015	7,570,454	1,415	3,423,124

TABLE 2. Value of Stones, Readyset and Castset Bits Purchased by Contractors, 1940-1949

Year	Value	Year	Value
	\$		\$
1940.....	881,085	1945.....	2,018,768
1941.....	861,253	1946.....	2,192,615
1942.....	634,233	1947.....	1,418,831
1943.....	637,070	1948.....	1,212,312
1944.....	810,085	1949.....	1,379,793

TABLE 3. Drilling Completed on Auriferous Quartz Deposits (Gold Mines) 1948 and 1949

	Footage drilled	
	1948	1949
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment.....	667,469	647,821
By diamond drilling contractors ¹	1,513,394	1,459,401
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment.....	215,772	270,014
By diamond drilling contractors ¹	435,563	545,799
Drilling by percussion or other machines ²	32,187,104	34,480,521

1. Included in Table 1.

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

Value of diamonds purchased by gold mining companies in 1949 totalled \$288,459 compared with \$306,078 in 1948.

TABLE 4. Drilling Completed on Copper-Gold-Silver and Nickel-Copper Deposits, 1948 and 1949

	Footage drilled	
	1948	1949
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment.....	158,188	172,101
By diamond drilling contractors ¹	525,735	607,306
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	1,393,647	1,999,735
By diamond drilling contractors ¹	532	61,419
Drilling by percussion or other machines ²	18,288,918	22,869,021

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 1949 totalled \$647,435 compared with \$340,930 in 1948.

TABLE 5. Drilling Completed on Silver-Lead-Zinc and Silver-Cobalt Deposits, 1948 and 1949

	Footage drilled	
	1948	1949
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment.....	123,626	138,970
By diamond drilling contractors ¹	155,081	317,908
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment.....	689,726	607,184
By diamond drilling contractors ¹	1,319	22,857
Drilling by percussion or other machines ²	1,593,219	3,526,023

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 1949 amounted to \$123,884.

TABLE 6. Drilling Completed on Other Metal-Bearing Deposits, 1948 and 1949

	Footage drilled	
	1948	1949
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment.....	19,677	5,857
By diamond drilling contractors ¹	62,209	36,108
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	—	—
By diamond drilling contractors ¹	15,056	126,597
Drilling by percussion or other machines ²	575,745	2,918,385

1. Included in Table 1.

2. Includes drilling on iron, chromite, molybdenite and mercury deposits; exclusive of drilling on pitchblende deposits.

TABLE 7. Drilling Completed on Asbestos Deposits, 1948 and 1949

	Footage drilled	
	1948	1949
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	59,157	68,189
By diamond drilling contractors ¹	89,409	179,069
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	17,133	5,163
By diamond drilling contractors ¹	—	—
Drilling by percussion or other machines ²	4,133,078	2,896,751

1. Included in Table 1.

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

Diamonds purchased by asbestos mining companies in 1949 cost \$18,179 compared with \$30,640 in 1948.

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.

Directory, 1949

The data for 1949, as shown in Table 1, were compiled from returns made by the following firms:

Name of firm	Head office address
Acme Diamond Drilling Ltd.	112 Yonge St., Toronto, Ontario
Allard Bros.	1120 2nd Ave., Val d'Or, Quebec
Anderson, Anton	20 Patricia Blvd., Timmins, Ontario
Andercheck, John M.	61 Third Ave., Timmins, Ontario
Arno Diamond Drilling Co. Ltd.	106 Laidlaw St., Timmins, Ontario
Baderski, Frank & Son	464 Algonquin Blvd. E., Timmins, Ontario
Baker, L.J.	Box 520, 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
Burton, Archie S.	352 Howey Crescent, Sudbury, Ontario
Bradville Drilling & Exploration Ltd.	12 Government Rd. W., Kirkland Lake, Ontario
Canadian Longyear Ltd.	Box 399, North Bay, Ontario
Chenette Drilling	Coleraine, Quebec
Connors, T., Diamond Drilling Co. Ltd.	744 West Hastings St., Vancouver, British Columbia
Continental Diamond Drilling Co. Ltd.	82 Perreault St. W., Rouyn, Quebec
Cerberian Mineral Explorers Ltd.	135 - 7th St., Noranda, Quebec
Demorest Drilling Ltd.	188 - 4th Ave., Noranda, Quebec
Eco Exploration Co. Ltd.	705 Childs Building, Winnipeg, Manitoba
Geraldton Diamond Drilling Co.	Box 137, Geraldton, Ontario
Groleau Bros.	40 Taschereau E., Rouyn, Quebec
Griffith Bros. Diamond Drilling	Bissett, Manitoba

Directory, 1949 - Concluded

The data for 1949, as shown in Table 1, were compiled from returns made by the following firms:

Name of firm	Head office address
Heath & Sherwood.....	6 Duncan Ave., Kirkland Lake, Ontario
Hinton, A.H. Drilling Co. Ltd.	Red Lake, Ontario
Hudson Diamond Drilling Co. Ltd.	209 First Ave., Noranda, Quebec
Inspiration Mining & Development Co. Ltd.	184 Bay St., Toronto, Ontario
Jones & Bradley Ltd.	Drawer 1050, Noranda, Quebec
Kuntz, H.J.	Box 300, Malartic, Quebec
Labine Bros.	McKenzie Island, Quebec
LaRocque, T.E.	10 Frontenac St., Val d'Or, Quebec
Lipasti, E.	Larder Lake, Ontario
Mikelait, J.A.	Box 127, Rouyn, Quebec
Morissette Diamond Drilling Ltd.	Box 440, Halleybury, 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 Drilling, R.M.	35 Church St., Flin Flon, Manitoba
National Diamond Drilling Co. Ltd.	Box 508, Rossland, British Columbia
Pacific Diamond Drilling Co. Ltd.	367 East 2nd Ave., Vancouver, British Columbia
Patricia Diamond Drilling Co. Ltd.	McKenzie Island, Ontario
Robinson Contracting Co. Ltd.	804 - 850 Hastings St. W., Vancouver, British Columbia
Rowan, Angus	119 Elm St. N., Timmins, Ontario
Smith & Travers Co. Ltd.	208 Walnut St., Sudbury, Ontario
Subterra Exploration Co. Ltd.	175 Main St. E., North Bay, Ontario
Sprague & Henwood, Inc.	221 W. Olive St., Scranton, Penna.
Wilson, A.	16 B Ave., Noranda, Quebec

SECTION II

Contract Drilling For Fuels

Drilling for petroleum or natural gas directly or exploratory drilling for these minerals was reported by 84 contractors. The total reported footage was 3,536,088 feet and the income from the operations amounted to \$23,719,531 compared, respectively, with 2,154,208 feet and \$15,643,817 in 1948. Rotary type drills were used for a footage of 3,209,109

cable type for 326,226 feet and a small amount was done by diamond drill. There were 2039 persons employed to whom \$6,293,749 was distributed in salaries and wages.

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

TABLE 8. Drilling Conducted During 1948 and 1949 by Contractors for Petroleum, Natural Gas, and for Other Purposes not Included in Section I of this Report

Province	Footage drilled			Footage drilled			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	Diamond	Rotary	Cable	Diamond	Rotary						
	(feet)			(feet)			(feet)			\$	No.	\$			
1948															
Nova Scotia.....	-	-	-	-	-	-	11,205	-	-	62,742	12	18,233			
Ontario.....	61,151	-	-	227,557	-	-	17,013	-	-	677,641	140	261,807			
Manitoba.....	-	-	-	-	-	-	3,474	-	-	23,787	4	8,351			
Saskatchewan.....	-	-	100,939	-	-	3,900	4,906	-	-	436,957	92	136,946			
Alberta.....	-	-	1,548,406	-	-	24,011	-	-	135,960	14,303,428	1,330	3,501,443			
British Columbia...	-	-	15,686	-	-	-	-	-	-	139,262	20	30,050			
Canada	61,151	-	1,665,031	227,557	-	27,911	36,598	-	135,960	15,643,817	1,598	3,956,630			
1949															
Nova Scotia.....	-	-	-	-	-	-	11,562	-	-	66,313	12	14,016			
Ontario.....	70,187	-	-	221,117	-	-	11,785	-	-	707,120	147	272,044			
Manitoba.....	-	-	-	-	-	-	3,863	-	-	31,875	5	9,419			
Saskatchewan.....	-	-	79,901	-	-	-	7,712	-	5,903	517,125	138	85,962			
Alberta.....	-	-	2,330,753	-	-	29,851	-	753	755,608	22,351,956	1,715	5,896,604			
British Columbia...	-	-	1,893	-	-	-	-	-	5,200	45,142	22	15,704			
Canada	70,187	-	2,412,547	221,117	-	29,851	34,922	753	766,711	23,719,531	2,039	6,293,749			

Directory 1949

The data shown in Table 8 were compiled from returns made by the following firms

Name of Firm	Head Office Address
NOVA SCOTIA:	
Kennedy, O.V.....	Bridgetown
ONTARIO:	
Ashton, J.L.....	550 King St. W., Chatham
Carter & Kidd.....	Box 51, Wallaceburg
Culver, Marvin.....	R.R. 2, Selkirk
Culver, Orley	Stevensville
Davidson, L. & Son	Wingham
Dawson, Mary.....	R.R. 2, Selkirk
Demaray, C.	Kerrwood
Dennis, Gordon A.....	Selkirk
Dominion Petroleum Co. Ltd.....	Glencoe
Donald, T.	Hagersville
Ehde & Meier.....	Thamesville
Emerson & Rose	Wainfleet
Emerson, H.L.	R.R. 1, Dunnville
Garringer, Wm.	Dunnville
Harris, Wm.	R.R. 1, Welland
Heal, A.A.	Box 264, Watford
Held, Karl F.	R.R. 2, Fisherville
Hodgson, Ray.....	Cayuga
House, C.C.	Stevensville
Hussey, W.J.	Petrolia
Irving, D.	64 Culver St., Simcoe
Kiser Bros.....	Chatham
Lymburner Bros & Webber.....	Dunnville
Lyons, S. & Son.....	R.R. 5, Simcoe
Mandley, Roy	Dunnville
McCutcheon, T.O.	225 Broad St. E., Dunnville
McKillop, Wm.	389 Charlton Ave. W., Hamilton
McMaster, R. & Sons.....	Caledonia
Nagel, E.	Stevensville
Nauman, H.V.	Fisherville
Nauman, J.R.	Fisherville
Nauman, W.R.	Selkirk
Patterson & Culver.....	Dunnville
Rawlings, G.H.	Chatham
Renwick, S.	Bright
Roth, Harvey.....	R.R. 9, Dunnville
Shank, E.	R.R. 2, Selkirk
Stewart, Elgin	R.R. 3, Jarvis
Stover & Rawlings.....	19 Beatty St., Chatham
Stubble & Stubble.....	Merlin
Stubble, H.H.	225 Grand Ave., Chatham
Warren, G.	Box 187, Tillsonburg
Werner, David.....	Fisherville
Wilson-Sullivan Development Co.	112 S. Christina St., Sarnia

Directory 1949 — Con.

The data shown in Table 8 were compiled from returns made by the following firms

Name of Firm	Head Office Address
MANITOBA:	
Coyle, D.J.	796 McDermott Ave., Winnipeg
SASKATCHEWAN:	
Barlow Bros.....	Lloydminster
Creelman, R.E.	1113 Ave "B" North, Saskatoon
Mowatt & Bott	Lloydminster
Shaw Petroleums Ltd	Lloydminster
Withers, C.H. Drilling Contractors Ltd.	Lloydminster
ALBERTA:	
Althen Drilling Co. Ltd.....	412 Grain Exchange Bldg., Calgary
Arrow Drilling Co.....	328 A - 8th Ave. W., Calgary
Associated Noble Corporation.....	207 Stanolind Bldg., Tulsa 3, Oklahoma, U.S.A.
Beacon Drilling Co.....	210 Bank of Nova Scotia Bldg., Edmonton
Brinkerhoff Drilling Co. Ltd	606 Lancaster Bldg., Calgary
Bush, Orren D.	15-231-8th Ave. W., Calgary
Canada West Drilling Co. Ltd	314 Alberta Corner, Calgary
Can-Tex Drilling Co. Ltd.....	815 Lancaster Bldg., Calgary
Canuck Drilling Co. Ltd	914 McLeod Bldg., Edmonton
Cavalcade Petroleums Ltd	436 Lougheed Bldg., Calgary
Combination Drilling Contractors.....	Forestburg
Commonwealth Drilling Co. Ltd.....	4 Clarence Block, Calgary
Culbert Drillers Ltd.....	Black Diamond
Drilling Contractors Ltd	400 Lancaster Bldg., Calgary
Eason & Co. T.T.	10237-98th St., Edmonton
Fortune Oil Corp. Ltd	408 Lancaster Bldg., Calgary
General Petroleums Ltd.....	509-8th Ave. W., Calgary
Hanna Bros.....	Lloydminster
Lodestar Drilling Co. Ltd	412 Lancaster Bldg., Calgary
Loffland Bros Co. of Canada.....	Box 1649, Tulsa, Oklahoma, U.S.A.
Medhurst, R.P. & Sons	Foremost
Midwest Drilling Co. Ltd	303 Lancaster Bldg., Calgary
National Petroleum Corp. Ltd	401 Leeson-Lineham Bldg., Calgary
Northway Drilling Ltd	Box 609, Edmonton
Northwest Seismic Surveys Ltd	112 Thomson Bldg., Edmonton
O'Meara Canada Drilling Co. Ltd.....	8420-109th St., Edmonton
Parker Drilling Co. of Canada.....	419 National Bank of Tulsa Bldg., Tulsa, Oklahoma, U.S.A.
Randolph Drilling Co. Ltd.....	340-7th Ave. W., Calgary
Regent Drilling Co. Ltd.....	Box 421, Edmonton
Sparky Oils Ltd	609A - 7th Ave. W., Calgary
Sterling Drilling Co. Ltd.....	412 Leeson Lineham Bldg., Calgary
Stewart Drilling Co. Ltd	116 Alberta Block, Edmonton
Trinity Canadian Drilling Co.....	Sheldon Bldg., Calgary
Union Drilling & Development Co. Ltd.....	403 Lancaster Bldg., Calgary
Young Drilling Co. Ltd	303 Toronto General Trusts Bldg., Calgary

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