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MINING, METALLURGICAL & CHEMICAL SECTION

CONTRACT DRILLING
IN THE
CANADIAN MINING INDUSTRY
IN
1947



OTTAWA
1949

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Report of the
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CHAPTER

DEPARTMENT OF TRADE AND COMMERCE

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Industry and Manufacturing Statistics

UNITED STATES DEPARTMENT OF COMMERCE

WASHINGTON

CONTRACT BUILDING

IN THE

CANADIAN MINING INDUSTRY

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H. McLeod

CONTRACT DRILLING IN THE CANADIAN MINING INDUSTRY, 1947Section 1Diamond Drilling of Deposits Other Than Fuels

There were 48 firms engaged in contract diamond drilling of Canadian mineral deposits, other than fuels, during 1947, compared with 62 operators in 1946. The income received from drilling operations by these firms totalled \$6,635,476, a decline of 23 per cent from the income of \$8,650,864 in the preceding year. The average number of employees in 1947 was estimated at 1,838 compared with 2,829 in 1946 and the amount of salaries and wages distributed during the year under review totalled \$3,179,473 as against \$5,285,695 in 1946.

The footage drilled in Canada by contractors during 1947 aggregated 4,072,622 feet, a decline of 35 per cent from the previous year's high of 6,260,513 feet. A division of the footage shows 36.7 per cent in Ontario, 34.5 per cent in Quebec, 20.1 per cent in British Columbia and the remainder in the other provinces except Prince Edward Island. The value of borts, ballas, carbons, castset bits, etc., purchased in 1947 by diamond drilling contractors amounted to \$1,418,831 in 1947 compared with \$2,192,615 in 1946.

Equipment owned by the operators in 1947 included 306 steam or air-driven drills, 560 gasoline-driven drills and 3 electric drills.

Table 1 - CONTRACT DIAMOND DRILLING OPERATIONS IN CANADA, 1938-1947 (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
		\$		\$
1938	2,296,773	3,956,564	1,627	1,801,988
1939	2,063,292	3,013,249	2,920	1,615,615
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

This report was prepared by A. R. Deir, Mining Statistician.

Table 1 - CONTRACT DIAMOND DRILLING OPERATIONS IN CANADA, 1938-1947 (Concluded)

Year	Footage drilled	Income from drilling	Average number of employees	Total salaries and wages paid
		\$		\$
<u>1946</u>				
Nova Scotia	10,832	16,427	5	4,840
New Brunswick	2,719	7,419	4	2,585
Quebec	2,554,611	5,131,049	1,232	2,425,842
Ontario	2,541,084	4,809,742	1,162	2,058,747
Manitoba	109,547	239,010	58	91,089
Saskatchewan	40,989	78,893	24	36,397
Alberta	20,419	130,313	25	63,697
British Columbia	741,720	766,594	209	380,085
Yukon	1,700	13,040	13	10,405
Northwest Territories	236,892	594,359	97	212,008
CANADA	6,260,513	11,786,846	2,829	5,285,695
<u>1947</u>				
Nova Scotia	7,322	22,130	9	8,078
New Brunswick	17,222	37,495	11	11,936
Quebec	1,404,277	2,593,954	627	1,169,418
Ontario	1,493,597	2,605,154	836	1,359,526
Manitoba	198,912	421,573	88	195,597
Saskatchewan	76,990	146,425	40	67,711
Alberta	3,325	16,201	17	9,263
British Columbia	819,001	673,967	127	296,647
Yukon .....	...	...	5	13,136
Northwest Territories	51,976	118,577	78	48,161
CANADA	4,072,622	6,635,476	1,838	3,179,473

Table 2 - VALUE OF STONES, READYSET AND CASTSET BITS PURCHASED BY CONTRACTORS, 1938-1947

Year	Value	Year	Value
	\$		\$
1938	649,374	1943	637,070
1939	607,806	1944	810,085
1940	881,085	1945	2,018,768
1941	861,253	1946	2,192,615
1942	634,233	1947	1,418,831

Table 3 - DRILLING COMPLETED ON AURIFEROUS QUARTZ DEPOSITS (GOLD MINES) IN CANADA, 1946 and 1947

	Footage Drilled	
	1946	1947
Diamond drilling for exploration and testing -		
By mining companies with their own personnel and equipment	571,794	755,121
By diamond drilling contractors (✓)	4,412,958	2,521,825

Contract

- 3 -

Table 3 - DRILLING COMPLETED ON AURIFEROUS QUARTZ DEPOSITS (GOLD MINES) IN CANADA, 1946 and 1947 (Concluded)

	Footage Drilled	
	1946	1947
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	161,363	209,599
By diamond drilling contractors (✓)	466,153	293,965
Drilling by percussion or other machines (x)	18,156,746	24,354,773

(✓) Included in Table 1.

(x) Not complete as records are unavailable at certain mines.

Value of diamonds purchased by gold mining companies in 1947 totalled \$337,187 compared with \$345,909 in 1946.

Table 4 - DRILLING COMPLETED ON COPPER-GOLD-SILVER AND NICKEL-COPPER DEPOSITS IN CANADA, 1946 and 1947

	Footage Drilled	
	1946	1947
Diamond drilling for exploration and testing -		
By mining companies with their own personnel and equipment	158,434	102,849
By diamond drilling contractors (✓)	632,857	632,227
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	857,409	1,046,819
By diamond drilling contractors (✓) .....	...	...
Drilling by percussion or other machines (x)	9,448,740	14,195,598

(✓) Included in Table 1.

(x) Not complete as records are unavailable at certain mines.

Value of diamonds purchased by copper-gold-silver and nickel-copper mining companies in 1947 totalled \$339,434 compared with \$253,419 in 1946.

Table 5 - DRILLING COMPLETED ON SILVER-LEAD-ZINC AND SILVER-COBALT DEPOSITS IN CANADA, 1946 and 1947

	Footage Drilled	
	1946	1947
Diamond drilling for exploration and testing -		
By mining companies with their own personnel and equipment	20,724	33,977
By diamond drilling contractors (✓)	87,532	205,178
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	381,434	385,889
By diamond drilling contractors (✓)	6,537	16,828
Drilling by percussion or other machines (x)	565,751	936,764

(✓) Included in Table 1.

(x) Not complete as records are unavailable at certain mines.

Value of diamonds purchased by silver-lead-zinc and silver-cobalt companies in 1947 amounted to \$31,376.

Table 6 - DRILLING COMPLETED ON OTHER METAL-BEARING DEPOSITS, 1946 and 1947

	Footage Drilled (x)	
	1946	1947
Diamond drilling for exploration and testing -		
By mining companies with their own personnel and equipment	1,587	27,192
By diamond drilling contractors (f)	28,465	52,165
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	49,563	5,125
By diamond drilling contractors (f) .....	...	26,099
Drilling by percussion or other machines ...	70,185	461,105

(f) Included in Table 1.

(x) Includes drilling on iron, chromite, molybdenite and mercury deposits; exclusive of drilling on pitchblende deposits.

Table 7 - DRILLING COMPLETED ON ASBESTOS DEPOSITS, 1946 and 1947

	Footage Drilled	
	1946	1947
Diamond drilling for exploration and testing -		
By mining companies with their own personnel and equipment	845	39,870
By diamond drilling contractors (f)	40,880	114,086
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	40,109	30,596
By diamond drilling contractors (f)	3,650	7,128
Drilling by percussion or other machines (x)	3,450,249	3,755,551

(f) Included in Table 1.

(x) Not complete as data are not reported by some firms.

Diamonds purchased by asbestos mining companies in 1947 cost \$58,613 compared with \$29,980 in 1946.

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, 1947

The data for 1947, as shown in Table 1, were compiled from returns made by the following firms:

Name of Firm	Head Office Address
Allard Bros.	Val d'Or, Quebec
Albert, E.	Box 134, Val d'Or, Quebec
Anderson, Anton	20 Patricia Blvd., Timmins, Ontario
Andercheck, John M.	61 Third Ave., Timmins, Ontario
Arno Diamond Drilling Co. Ltd.	249 Algonquin Blvd. E., Timmins, Ontario
Baderski, Frank & Son	464 Algonquin Blvd. E., Timmins, Ontario
Baker, L. J.	Box 520, Val d'Or, Quebec
Bergeron Diamond Drilling Co.	Box 386, Timmins, Ontario
Bilodeau, Chartrand, Girard	Senneterre, Quebec
Boyles Bros. Drilling Co. Ltd.	1291 Parker St., Vancouver, British Columbia
Brochu, W. C.	Room 2, Richardson Bldg., Timmins, Ontario
Bourgeois, Larry	57 Laurier St., Bourlamaque, Quebec
Burby, Herbert	New Liskeard, Ontario
Burton, Archie S.	352 Howey Crescent, Sudbury, 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
Cerberian Mineral Explorers Ltd.	Box 369 Noranda, Quebec
Craig Bros.	100 Fourth St., Kirkland Lake, Ontario
Conrad Douville	50 Falardeau St., Thetford Mines, Quebec
Demorest Drilling Ltd.	Noranda, Quebec
Developers of Canada Reg'd.	Box 78, Val d'Or, Quebec
Eco Exploration Co. Ltd.	711 McArthur Bldg., Winnipeg, Manitoba
Geraldton Diamond Drilling Co.	Geraldton, Ontario
Globe Drilling & Exploration Co.	Kenora, Ontario
Groleau Bros.	40 Taschereau E., Rouyn, Quebec
Grondin, M.	Box 2013, Val d'Or, Quebec
Golden Diamond Drilling Contractors	14 Government Rd. E., Kirkland Lake, Ont.
Heath & Sherwood	6 Duncan Ave., Kirkland Lake, Ontario
Hudson Diamond Drilling Co. Ltd.	Noranda, Quebec
Houle-Truneau	Bourlamaque, Quebec
Inspiration Mining & Development Co. Ltd.	184 Bay St., Toronto, Ontario
Jones & Bradley Ltd.	Drawer 1050, Noranda, Quebec
Keyes Construction Co. Ltd.	260 Industrial Ave., Vancouver, British Columbia
Kirk, J. B.	Nakina, Ontario
Kuntz, H. J.	Box 300, Malartic, Quebec
Labine Bros.	McKenzie Island, Quebec
LaRocque, T. E.	10 Frontenac St., Val d'Or, Quebec
Lee & Euler	Box 123, Red Lake, Ontario
Lipasti, E.	Larder Lake, Ontario
Matheson Drilling & Exploration	Matheson, Ontario
Mikelait, J. A.	Box 127, Rouyn, 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

DIRECTORY, 1947 (Concluded)

<u>Name of Firm</u>	<u>Head Office Address</u>
McIsaac Drilling, R. M.	35 Church St., Flin Flon, Manitoba
National Diamond Drilling Co. Ltd.	Box 508, Rossland, British Columbia
Niemetz Bros.	Red Lake, Ontario
Ontario Diamond Drilling Co. Ltd.	203 Mackey Bldg., Sudbury, Ontario
Pearson, A. H.	369 - 7th Ave., Noranda, Quebec
Poulson & Newman	26 Rowan Ave., Kirkland Lake, Ontario
Robinson Contracting Co. Ltd.	804-850 Hastings St. W., Vancouver, British Columbia
Rowan, Angus	74½ Fifth Ave., Timmins, Ontario
Scarboro, George	46 Carlin Ave., Timmins, Ontario
Smith & Travers Co. Ltd.	208 Walnut St., Sudbury, Ontario
Sudbury Diamond Drilling Co. Ltd.	184 Bay St., Toronto, Ontario
Territories Exploration & Drilling	Box 149, Yellowknife, Northwest Territories
Thompson Drilling & Mining Development Co. Ltd.	4 North Ave., Flin Flon, Manitoba
Timmins Diamond Drilling Development Co. Ltd.	174 Maple St. N., Timmins, Ontario
Traynor Diamond Drilling Co. Ltd.	15 Toronto St., Toronto, Ontario
Tremblay, Paul E.	Rouyn, Quebec
Transbec Mining Co.	Box 40, Amos, Quebec
Tripact Diamond Drilling Co.	14 Grierson Rd., Kirkland Lake, Ontario
Wilson, A.	16 B Ave., Noranda, Quebec
Zagozewski, Joseph	McKenzie Island, Ontario

Section II

Contract Drilling for Fuels

In 1947 there were 62 contractors who reported drilling for petroleum, natural gas or for other fuels. The footage drilled totalled 1,253,794 and the income from operations amounted to \$7,484,243 compared respectively with 570,948 and \$2,536,175 in 1946. Of the footage drilled during the year there were 284,313 feet by cable type drills, 2,419 feet by diamond drills and 967,062 feet by rotary drills. Employees engaged in this work in 1947 numbered 1,020 to whom \$2,063,629 were paid in salaries and wages.

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

Table 8 - DRILLING CONDUCTED DURING 1946 and 1947 BY CONTRACTORS FOR PETROLEUM, NATURAL GAS, AND FOR OTHER PURPOSES NOT INCLUDED IN SECTION I OF THIS REPORT

Province	Footage Drilled For Petroleum			Footage Drilled For Gas			Footage Drilled For Other Purposes			Gross income from drilling \$	Average number of em- ployees No.	Total salaries and wages paid \$
	Type of Drill			Type of Drill			Type of Drill					
	Cable	Diamond	Rotary	Cable	Diamond	Rotary	Cable	Diamond	Rotary			
	(feet)			(feet)			(feet)					
<u>1946</u>												
Nova Scotia.	...	...	...	...	...	...	10,911	...	...	56,981	12	13,147
Quebec (x) ..	...	...	...	...	...	...	...	...	...	...	...	...
Ontario	18,233	...	...	212,609	...	...	16,033	...	...	469,080	114	154,432
Manitoba ...	...	...	...	1,306	...	...	...	...	...	11,282	2	2,741
Saskatchewan	...	...	80,929	...	...	18,295	9,570	...	...	234,929	70	95,544
Alberta	469	...	174,431	2,925	4,500	17,545	2,293	...	900	1,763,903	287	553,955
CANADA ..	18,701	...	255,350	216,840	4,500	35,840	38,807	...	900	2,536,175	485	819,819
<u>1947</u>												
Nova Scotia.	...	...	...	...	...	...	10,739	...	...	65,165	15	14,933
Quebec	10,230	...	...	...	...	...	...	...	...	25,059	11	10,499
Ontario	51,917	...	...	182,117	...	...	18,248	...	...	505,773	136	172,930
Manitoba ...	...	...	...	...	...	...	2,038	...	...	15,799	3	6,128
Saskatchewan	...	...	127,628	...	...	5,900	7,505	...	8,246	692,111	152	320,917
Alberta	1,000	1,229	763,050	...	...	14,963	519	1,190	44,510	6,136,872	698	1,527,927
British Columbia..	...	...	2,705	...	...	...	...	...	...	43,464	5	10,295
CANADA ..	63,147	1,229	893,383	182,117	...	20,863	39,049	1,190	52,816	7,484,243	1,020	2,063,629

(x) Included with Nova Scotia.

DIRECTORY, 1947

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

<u>Name of Firm</u>	<u>Head Office Address</u>
<u>Nova Scotia</u> -	
Kennedy, O. V.	Bridgetown
<u>Quebec</u> -	
Boileau, E.	1080 Osborne St., Montreal
<u>Ontario</u> -	
Ashton, J. L.	550 King St. W., Chatham
Carter & Kidd	Box 51, Wallaceburg
Culver, Marvin & Son	R. R. 2, Selkirk
Culver & Havill	Stevensville
Davidson, Fred L.	Wingham
Demaray, C.	Kerrwood
Dennis, G.	R. R. 2, Selkirk
Dolphin, N. P.	Saulsbury St., Strathroy
Dominion Petroleum Co. Ltd.	Glencoe
Donald, T. G.	Hagersville
Elk Development Syndicate	Box 82, Bradford, Pa., U.S.A.
Emerson, H. L.	R. R. 1, Dunnville
Emerson & Rose	Wainfleet
Evans, Harry	Tillsonburg
Garringer, W.	Dunnville
Harris, W.	Welland
Heal, A. A.	Box 264, Watford
Held, Karl F.	R. R. 2, Fisherville
Holmes, D. A.	Petrolia
Holmes, E. B.	Bothwell
Hodgson, Roy	Cayuga
Hoover & Donald	Hagersville
House, C. C.	Stevensville
Hussey, W. J.	Petrolia
Irving, D.	64 Culver St., Simcoe
Jackson, P. L. & Co.	211 George St., Dunnville
Kiser Bros.	Hicks Bldg., Chatham
Lymburner Bros. & Webber	Dunnville
Lyons, S. & Son	R. R. 5, Simcoe
Mandley, R.	Dunnville
McKillop, Wm. & Son	Box 102, Hamilton
McLister, J. J.	Dunnville
McMaster, Robt.	Box 655, Caledonia
Nagel, Elmer	Stevensville
Nauman Bros.	Fisherville
Patterson & Culver	Box 93, Dunnville
Patterson Gas Co. Ltd.	Jamestown, N.Y., U.S.A.
Perkins, J. E.	Dunnville
Renwick, S.	Bright
Ricker, Arthur	Canboro
Shank Bros.	R. R. 2, Selkirk
Stewart, E.	R. R. 3, Jarvis

DIRECTORY, 1947
(Concluded)

<u>Name of Firm</u>	<u>Head Office Address</u>
<u>Ontario (Concluded) -</u>	
Stubble, H. H.	225 Grand Ave. E., Chatham
Stubble & Stubble	Merlin
Swayze & Nauman	R. R. 5, Simcoe
Swent, W. N.	Selkirk
Warren, G.	R. R. 1, Canboro
Werner, D. E.	Fisherville
Wilson-Sullivan Development Co.	112 S. Christina St., Sarnia
Windover, Wm.	R. R. 2, Sarnia
<u>Manitoba -</u>	
Coyle, D. J.	796 McDermot Ave., Winnipeg
<u>Saskatchewan -</u>	
Barlow Bros. Ltd.	Box 268 Lloydminster
Clark Drill	Waterous
Creelman, R. E. & Son	1113 Ave. B. North, Saskatoon
Northern Development Co. Ltd. (N.P.L.)	Lloydminster
Shaw Petroleums Ltd.	Lloydminster
Withers, Drilling Co. Ltd., C. H.	Lloydminster
<u>Alberta -</u>	
Bush, O. D.	231 - 8th Ave. West, Calgary
Canokla Drillers Ltd.	1010 Security Bldg., Windsor, Ontario
Can-Tex Drilling Co. Ltd.	617 Lancaster Bldg., Calgary
Commonwealth Drilling Co. Ltd.	4 Clarence Block, Calgary
Culbert & Hayden	Black Diamond
Drilling Contractors Ltd.	902 Lancaster Bldg., Calgary
G & C Drilling Co.	Millarville
General Petroleums Ltd.	509 - 8th Ave. West, Calgary
Hanson, H. E.	502 Lancaster Bldg., Calgary
Kortmeyer, F.	Black Diamond
Machinery Depot Ltd.	1029 - 10th Ave. West, Calgary
McAllister, R. W.	527 - 1st Ave. West, Calgary
National Petroleum Corp. Ltd.	401 Leeson-Lineham Bldg., Calgary
Newell & Chandler Ltd.	203 Wilson Electric Bldg., Calgary
Parker Drilling Co. of Canada	418 National Bank Bldg., Tulsa, Okla. U.S.A.
Regent Drilling Co. Ltd.	Vermilion
Roxana Oils Co. Ltd.	408 Lancaster Bldg., Calgary
Union Drilling & Development Co. Ltd.	403 Lancaster Bldg., Calgary
Valley Oil Operators Ltd.	301 Lancaster Bldg., Calgary
Young Drilling Co. Ltd.	303 Toronto General Trusts Bldg., Calgary

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