The Harkness Files

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Chapter I: Dufferin County

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General Geology.—The geological formations developed in this county consist largely of Laurentian rocks which are very old, hard, crystalline, and otherwise unsuitable for holding oil or gas. In the central part of the county, an area is occupied by rocks of Trenton, Chazy, and similar age, but nothing more than showings of gas can be expected there, since the region has been much faulted and broken. In some localities, in the centre of the county, the depth through the sedimentary rocks to the granitic rocks is at least 1300 feet, and this depth has been penetrated in one well. Showings of gas were found in the water at Caledonia Springs some years ago.

Drilling Operations.—In 1900, or thereabouts two test wells were sunk for petroleum near Ramsays Corners, Carleton county, the drilling being done by means of a diamond drill. Showings of gas were encountered at a depth of 130, 355, and 413 feet in the Utica shales. The gas pressure was estimated at 200 pounds per square inch.

Notwithstanding the unfavourable conditions, there were in 1888, two applications from rival companies to lay pipes and transport natural gas to Ottawa. In 1889, the Premier Gas Company sunk a boring on the north side of Patterson creek near the southern part of the city to a total depth of 1005 feet, but naturally without success. The well was cased 820 feet. Showings of oil were reported at 900. Unfortunately no reliable record was kept, although specimens were collected and preserved, a detailed report of which is given by Brumell[1].

Many years ago an attempt was made to obtain oil by drilling near the village of North Gower but with no better success.

Dufferin County.

No oil or gas of commercial quantity has been found in Dufferin county, and it is believed that neither substance exists in quantity. The formations consist in the northeastern part of the county of Lorraine shales, and in the southwestern part of the Guelph limestones, while intermediate is the Niagara escarpment, topped by the Niagara and Clinton limestones

[1]Brumell, H. P. H., Geol. Survey of Canada, Vol. V, Pt. Q, 1889-91, p. 23.

and bordered below by the Medina shale. The geological sections will therefore range from the Guelph downward, according to whether a well is situated in the eastern or western part of the county.

Below the mountain, 15 miles south of Collingwood, three wells were reported, years ago, to have passed entirely through the Trenton limestone, 590 feet in thickness, and to have penetrated to a depth of 1750 feet.

Dundas County.

No oil or gas exists in quantity in Dundas county, since the conditions are particularly unfavourable. The formations at the surface consist in the northeastern half of the county of Chazy strata, while in the southwestern half they are of Calciferous age. These formations are entirely below any formations known to contain gas.

Durham County.

No oil or gas fields of commercial quantity have ever been found in Durham county, and they presumably do not exist, the reason being that the formations in the extreme south consist of Utica shales, while the remainder of the surface underlying the glacial drift is occupied by Trenton limestone. Hence, only a small patch in the southern part of the county has a sufficient cover to hold any gas which might be contained in the Trenton and this area is too near the outcrop to have any probabilities.

Elgin County.

Description of the fields.—A small pool at Dutton in Dunwich township is the only oil pool ever discovered in Elgin county. Owing to the decline of the gas supply in Welland and Haldimand counties, the gas companies are making vigourous efforts to develop gas territory in Elgin and Norfolk, for supplying the city of Hamilton. Hence, the Welland-Haldi-

Section I: Amaranth (Anderdon) Township

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TABLE X.—OPERATORS LICENSED TO DISTRIBUTE NATURAL GAS, 1923—*Cont.*

License No.	Address
171	
166	
198	
194	Hamilton, Ont.
187	
169	
182	
177	
192	ffalo, N.Y.
186	
201	
176	
199	
168	
189	
180	

TABLE X.—OPERATORS LICENSED TO DISTRIBUTE NATURAL GAS, 1923

39	
40	ffalo, N.Y.
38	milton, Ont.
43	
41	ffalo, N.Y.
44	
42	

Anderdon Twp. lot 7 Con VI.
Sucker Creek Oil & Gas Co - previous to 1907
Drift 60 - 60
Drift
Onondaga gray ls. 90 - 150
Detroit River (Brown dol & ls. 260 - 410
Sylvania white sandstone 30 - 440
Bass Island coarse dol 60 - 500
blue dolomite 167 - 667
Saline gypsum 16 683
Brown dolomite 157 840
blue " 50 890
light grey " 60 950
dolomite trace salt 175 1125
Salt beds underlain by
hard brown dolomite 19 11144

Logs of Wells

The following logs of oil and gas wells drilled in Ontario mainly in 1923, showing changes of formation, depths, and where gas, oil, or water occur, are given as reported by the drillers. These logs are on file in the office of the Natural Gas Commissioner and give lengths of casing used, the rate of flow in the case of water and oil, and the details of plugging dry wells, shooting, etc. Information as to the depths at which casing is set is often helpful when wells are being drilled in the same neighbourhood. All such information is available to bona fide oil or gas operators.

The alphabetic arrangement is by counties, and then by townships.

Canadian Dutch Oil Co Ltd

LOG NO. 1.—INFORMATION BY CANADIAN OIL FIELDS, LIMITED, TORONTO

Lot	Concession	Township	County
32 40 S NWD	V ~~W~~	Amaranth	Dufferin

Dry hole. (Shelburne well) Shelbourne Oil Syndicate 255 College St Toronto Completed September, 1922.

Formation	Thickness Formation	Bottom of formation
Sand, gravel, quick sand	46	46 feet
Blue lime	12	58 "
Yellow lime	80	138 "
Blue lime	27	165 "
White lime	107	272 "
Soapstone	63	335 "
Blue shale	25	360 "
White Medina	15	375 "
Red shale	340	715 "
Limestone	20	735 "
Slate and lime shell	325	1,060 "
Brown shale	150	1,210 "
Blue slate and conglomerate	163	1,373 " Top Trenton
Trenton rock	625	1,998 "
Penetrated rock	802	2,800 "
Dept in Granite 1932	563	3363
~~Total depth~~		~~2,800~~ feet

Show of oil at 1,998 feet.

Casing
46' — 10"
385' — 8"
1382 — 6"
2900+ — 2"

TABLE IX.—OPERATORS LICENSED TO PRODUCE NATURAL GAS DURING 1923

License No.	Name	Address
228	Aldrich Gas & Oil Co	c/o Bruce & Counsel, Hamilton.
214	Azoff Natural Gas Co	Canfield, Ont.
225	Allied Gas & Oil Co., Ltd	Welland, Ont.
215	Bertie Natural Gas Co	Ridgeway, Ont.
241	Bennett, Robt	Dunnville, Ont.
227	Castle Oil & Gas Co	Niagara Falls, Ont.
232	Chippewa Development Co	Chippewa, Ont.
210	Canfield Natural Gas Co	Canfield, Ont.
237	Canboro Gas & Oil Co	Selkirk, Ont.
205	Clover Gas & Oil Co	714 Mutual Life Bldg., Buffalo, N.Y.
206	Coleman, J. A	Wellandport, Ont.
236	Darling Road Co-op. Co	Canfield, Ont.
217	Dominion Natural Gas Co	518 Jackson Bldg., Buffalo, N.Y.
218	Dunn Natural Gas Co	Dunnville, Ont.
216	Duxbury, J. H	Hagersville, Ont.
238	Emerson, Laidlaw & Traughton	Attercliffe Station, Ont.
224	Fisherville Gas Co	Fisherville, Ont.
207	Hamilton Gas & Oil Co	Hamilton, Ont.
223	Industrial Natural Gas Co	Thorold, Ont.
208	King, Ralph	837 King St. East, Hamilton, Ont.
255	Jones, J. S	Port Maitland, Ont.
234	Maple Leaf Gas & Oil Co	14 Brisbane Bldg., Buffalo, N.Y.
209	Medina Natural Gas Co	Chatham, Ont.
222	Midfield Natural Gas Co	9 Maple Ave., Hamilton, Ont.
204	Niece, Hosea & Son	R.R. 2, Lowbanks, Ont.
229	North Shore Gas Co	c/o Bruce & Counsel, Hamilton, Ont.
212	Oil Springs Oil & Gas Co	Oil Springs, Ont.
213	Petrol Oil & Gas Co	York Bldg., Toronto, Ont.
211	Pilkington Bros	Thorold, Ont.
252	Port Colborne-Welland Gas Co	Port Colborne, Ont.
239	Progressive Gas & Oil Co	Imperial Bank Bldg., Hamilton, Ont.
230	Provincial Natural Gas Co	Niagara Falls, Ont.
235	Rosehill Natural Gas Co	Buffalo, N.Y.
253	Smith, R. H	Lowbanks, Ont.
219	Southern Ontario Gas Co	518 Jackson Bldg., Buffalo, N.Y.
221	Sparham, A. F	R.R. No. 1, Caledonia, Ont.
231	Sterling Natural Gas Co	Port Colborne, Ont.
226	Stevensville Gas Co	Stevensville, Ont.
256	Union Natural Gas Co	Chatham, Ont.
220	United Gas Companies	St. Catharines, Ont.
233	Vacuum Oil & Gas Co	409 Lumsden Bldg., Toronto, Ont.

TABLE X.—OPERATORS LICENSED TO DISTRIBUTE NATURAL GAS, 1923

License No.	Name	Address
173	Bertie Natural Gas Co	Ridgeway, Ont.
191	Brantford Gas Co	Brantford, Ont.
170	Central Pipe Line Co	Chatham, Ont.
190	Chatham Gas Company	" "
188	Chippewa Development Co	Chippewa, Ont.
165	Coleman, J. A	Wellandport, Ont.
185	Corp. Town of Leamington	Leamington, Ont.
174	Dominion Natural Gas Co., Ltd	518 Jackson Bldg., Buffalo, N.Y.
175	Dunn Natural Gas Co	Dunnville, Ont.
203	Erie Beach Gas Co	Chatham, Ont.
184	Fisherville Gas Co	Fisherville, Ont.
193	Fonthill-Ridgeville Gas Co	19 King William St., Hamilton, Ont
183	Industrial Natural Gas Co	Thorold, Ont.
179	Ingersoll Gas Light Co	Ingersoll, Ont.
167	King, Ralph	837 King St. East, Hamilton, Ont.
172	Lake Shore Natural Gas Co	Buffalo, N.Y.
178	Manufacturers Gas Co	Hamilton, Ont.
181	Midfield Natural Gas Co	9 Maple Ave., Hamilton, Ont.

Section II: Melancthon Township

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LOG NO. 92; INFORMATION BY JAS. PICKERING, SHELBOURNE.

Lot.	Concession.	Township.	County.
2	3 E ? ? ?	Melancthon.	Dufferin.

Elev 1650

Drilled in 1907.

Formation.	Thickness of Formation.	Total Depth.
Surface	25 Feet	25 Feet
Niagara	115 "	140 "
Dolomite	20 "	160 "
Clinton	50 "	210 "
Blue Clay	100 "	310 "
Red Shale	320 "	630 "
Blue Shale	370 "	1,000 "
Soft Slate	225 "	1,225 "
Utica Shale	75 "	1,300 " +350
Trenton	650 "	1,950 "
Total Depth	1,950 Feet.	

LOG NO. 93; INFORMATION BY KISER & LOUER, TILLSONBURG.

Lot.	Concession.	Township.	County.
33	1	Malahide.	Elgin.

Open flow: 70,000 cu. ft.

Completed, 1921

Formation.	Thickness of Formation.	Total Depth.
Surface	268 Feet	268 Feet
Lime	212 "	480 "
Flint	160 "	640 "
Lime	460 "	1,100 "
Niagara Lime	245 "	1,345 "
Shale	55 "	1,400 "
Clinton	22 "	1,422 "
Red Medina	30 "	1,452 "
White Shale	30 "	1,482 "
White Medina	35 "	1,517 "
Red Shale	5 "	1,522 "
Total Depth	1,522 Feet.	

LOG NO. 94; INFORMATION BY KISER & LOUER, TILLSONBURG.

Lot.	Concession.	Township.	County.
34	1	Malahide.	Elgin.

Open flow: 201,000 cu. ft.
Rock pressure: 585 lbs.

Completed, 1921.

Formation.	Thickness of Formation.	Total Depth.
Surface	280 Feet	280 Feet
Lime	220 "	500 "
Flint	150 "	650 "
Lime	425 "	1,075 "
Niagara Lime	285 "	1,360 "
Shale	54 "	1,414 "
Clinton	25 "	1,439 "
Red Medina	10 "	1,449 "
White Shale	36 "	1,485 "
Total Depth	1,485 Feet.	

Log No. 95; Information by Kiser & Louer, Tillsonburg.

Lot.	Concession.	Township.	County.
35	2	Malahide.	Elgin.

Dry hole. Completed Oct. 21, 1921.

Formation.	Thickness of Formation.	Total Depth.
Surface	277 Feet	277 Feet
Lime	203 "	480 "
Flint	150 "	630 "
Lime	445 "	1,075 "
Niagara	280 "	1,355 "
Shale	60 "	1,415 "
Clinton	16 "	1,431 "
Red Medina	13 "	1,444 "
Total Depth	1,444 Feet.	

Log No. 96; Driller Geo. King, Strathroy.

Lot.	Concession.	Township.	County.
7	5	Adelaide.	Middlesex.

Completed, 1921.

Formation.	Thickness of Formation.	Total Depth.
Surface	142 Feet	142 Feet
Top Rock	20 "	162 "
Soap	30 "	192 "
Black Lime	14 "	206 "
Grey Lime	52 "	258 "
Lime	100 "	358 "
Total Depth	358 Feet.	

Oil at 258 and 300 feet.

Log No. 97; Information by Driller Geo. King, Strathroy.

Lot.	Concession.	Township.	County.
7	5	Adelaide.	Middlesex.

Completed June 15th, 1921

Formation.	Thickness of Formation.	Total Depth.
Surface	145 Feet.	145 Feet
Top Rock	20 "	165 "
Soap	30 "	195 "
Lime	76 "	271 "
Total Depth	271 Feet.	

Gas at 209, 230 and 245 feet.

Log No. 98; Information by Driller Geo. King, Strathroy.

Lot.	Concession.	Township.	County.
7	5	Adelaide.	Middlesex.

Formation.	Thickness of Formation.	Total Depth.
Surface	155 Feet	155 Feet
Top Rock	20 "	175 "
Soap	30 "	205 "
Lime	72 "	277 "
Total Depth	277 Feet.	

Section III: Mono Township

Chapter I: Dufferin County

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W. C. Patterson, Jamestown, N.Y.
Lot 8, S. ½, con. I, S.D.R., Dunn tp.
Completed August 18, 1933.
Dry hole.

Formation	Thickness, ft.
Surface	32
Lime and shale	407
Niagara	214
Shale	54
Clinton	28
Red Medina	38
Shale	65
White Medina	12
Red shale	2
Total depth	852

Fresh water at 35 feet; sulphur water at 440 feet.

W. C. Patterson, Jamestown, N.Y.
Lot 5, con. I, S.D.R., Dunn tp.
Completed July 1, 1933.
Dry hole.

Formation	Thickness, ft.
Surface	8
Flint	30
Lime and shale	394
Niagara	244
Shale	45
Clinton	30
Red Medina	37
Shale	58
White Medina	12
Red shale	3
Total depth	861

Fresh water at 38 feet; sulphur water at 400 feet.

Dufferin County

Hockley Valley Oil Co., Toronto
Lot 12, con. VII, Mono tp.
To December, 1932.
Dry hole.

Formation	Thickness, ft.
Sandy loam	22
Gravel	21
Coarse gravel	18
Quicksand and gravel	114
Clay shale	2
Gravel and sand	26
Hudson River shale	352
Utica brown shale	86
Trenton	659
Sandstone	3
Granite	332
Total depth, December, 1932	1,635

Show of gas at 1,300 feet.
Fresh water at 175 feet; brackish water at 197 feet.
Drilling is being continued.

W. C. Patterson, Jamestown, N.Y. 5553
Lot 7, con. I, S.D.R., Dunn tp.
Completed October 10, 1933.
Open flow: 60,000 cu. ft.
Rock pressure: 415 lbs.

Formation	Thickness, ft.
Surface	29
Lime and shale	421
Niagara	200
Shale	57
Clinton	35
Red Medina	35
Grey shale	62
White Medina	11
Red shale	38
Total depth	888

Fresh water at 30 feet; sulphur water at 450 feet.

W. C. Patterson, Jamestown, N.Y.
Lot 9, S. ½, con. I, S.D.R., Dunn tp.
Completed November 21, 1933.
Dry hole.

Formation	Thickness, ft.
Surface	30
Lime and shale	420
Niagara	200
Shale	55
Clinton	28
Red Medina	35
Shale	62
White Medina	12
Red shale	3
Total depth	845

Fresh water at 40 feet; sulphur water at 190 feet.

Colonial Natural Gas and Oil Co., Hamilton
Lot 12, Earl tract, N.E. corner, Dunn tp.
Completed November 6, 1933.
Open flow: 65,000 cu. ft.
Rock pressure: 265 lbs.

Formation	Thickness, ft.
Surface	6
Limestone and flint	65
Blue shale	120
Brown limestone	199
Niagara lime	210
Grey lime	42
Casing shale	40
Clinton	29
Red Medina	39
Grey shale	60
White Medina	16
Red shale	50
Total depth	876

Sulphur gas at 385 feet; gas at 687, 733 to 737, and 820 feet.
Fresh water at 55, 65, and 75 feet; black water at 550 feet.

Western Ontario Natural Gas Co., Dunnville
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed January 10, 1933.
Dry hole.

Formation	Thickness, ft.
Surface	62
Lime and shale	311
Niagara	225
Shale	55
Clinton	32
Red Medina	42
Grey shale	55
White Medina	18
Red shale	3
Total depth	803

Fresh water at 65 feet; salt water at 450 feet.

Western Ontario Natural Gas Co., Dunnville
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed February 9, 1933.
Open flow: 17,000 cu. ft.
Rock pressure: 260 lbs.

Formation	Thickness, ft.
Surface	70
Lime and shale	310
Niagara	225
Shale	55
Clinton	31
Red Medina	40
Grey shale	53
White Medina	18
Red shale	27
Total depth	829

Fresh water at 60 and 95 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed March 8, 1933.
Open flow: 192,000 cu. ft.
Rock pressure: 315 lbs.

Formation	Thickness, ft.
Surface	83
Lime and shale	269
Niagara	225
Shale	55
Clinton	32
Red Medina	40
Grey shale	53
White Medina	18
Red shale	59
Total depth	834

Fresh water at 90 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed March 30, 1933.
Open flow: 131,000 cu. ft.
Rock pressure: 290 lbs.

Formation	Thickness, ft.
Surface	72
Lime and shale	278
Niagara	225
Shale	55
Clinton	31
Red Medina	40
Grey shale	52
White Medina	18
Red shale	59
Total depth	830

Fresh water at 73 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed May 10, 1933.
Open flow: 70,000 cu. ft.
Rock pressure: 290 lbs.

Formation	Thickness, ft.
Surface	76
Lime and shale	287
Niagara	225
Shale	55
Clinton	32
Red Medina	40
Grey shale	53
White Medina	18
Red shale	36
Total depth	822

Fresh water at 76 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed May 20, 1933.
Open flow: 270,000 cu. ft.
Rock pressure: 290 lbs.

Formation	Thickness, ft.
Surface	78
Lime and shale	272
Niagara	225
Shale	55
Clinton	32
Red Medina	40
Grey shale	53
White Medina	18
Red shale	45
Total depth	818

Fresh water at 80 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed July 7, 1933.
Open flow: 170,000 cu. ft.
Rock pressure: 175 lbs.

Formation	Thickness, ft.
Surface	80
Lime and shale	267
Niagara	225
Shale	55
Clinton	32
Red Medina	40
Grey shale	53
White Medina	18
Red shale	45
Total depth	815

Fresh water at 80 feet; salt water at 450 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
Lot 28, N. ½, Haldimand tract, con. I N., Dunn tp.
Completed September 13, 1933.
Dry hole.

Formation	Thickness, ft.
Surface	78
Lime and shale	265
Niagara	225
Shale	55
Clinton	32
Red Medina	40
Grey shale	53
White Medina	17
Red shale	2
Total depth	767

Fresh water at 80 feet; salt water at 586 feet.

AIKENS GAS SYNDICATE, VINELAND
Centre well, S. side of island in front of lot 17, con. I, Dunn tp.
Completed July 20, 1933.
Open flow: 112,000 cu. ft.
Rock pressure: 380 lbs.

Formation	Thickness, ft.
Surface	60
Lime and shale	281
Niagara	225
Shale	55
Clinton	30
Red Medina	40
Grey shale	53
White Medina	20
Red shale	51
Total depth	815

Gas at 621 feet.

WESTERN ONTARIO NATURAL GAS CO., DUNNVILLE
E. well, S. side of island in front of lot 17, con. I, Dunn tp.
Completed August 18, 1933.
Open flow: 42,000 cu. ft.
Rock pressure: 250 lbs.

Formation	Thickness, ft.
Surface	66
Lime and shale	275
Niagara	225
Shale	55
Clinton	30
Red Medina	40
Grey shale	53
White Medina	20
Red Medina	54
Total depth	818

Section IV: Mulmur Township

Chapter I: Dufferin County

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LOG NO. 46.—INFORMATION BY D. W. ADAIR, EVERETT

Lot	Concession	Township	County
15	4	Mulmur	Dufferin

Completed May 15, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Surface	45 feet	
Red shale	45 "	90
Blue shale	100 "	190
Slate, shale and blue rock (hard)	40 "	230
Total depth	230 feet	

Gas and water at 228 feet.

LOG NO. 47.—INFORMATION BY C. W. FEATHERSTONE, DUNNVILLE

Lot	Concession	Township	County
62	River Range	Oneida	Haldimand

Open flow: 272,000
Rock pressure: 320 lbs.

Completed June 13, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Surface	61 feet	
Lime and shale	189 "	250
Niagara	231 "	481
Shale	31 "	512
Clinton	30 "	542
Red Medina	38 "	580
Blue shale	55 "	635
White Medina	12 "	647
Red shale	55 "	702
Total depth	702 feet	

Gas at 527 and 640 feet.

LOG NO. 48.—INFORMATION BY C. W. FEATHERSTONE, DUNNVILLE

Lot	Concession	Township	County
72	River Range	Oneida	Haldimand

Open flow: Dry.

Completed March 4, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Surface	51 feet	
Lime and shale	197 "	248
Niagara	242 "	490
Shale	30 "	520
Clinton	24 "	544
Red Medina	42 "	586
Blue shale	65 "	651
White Medina	12 "	663
Red shale	10 "	673
Toral depth	673 feet	

LOG NO. 43.—INFORMATION BY T. J. MCCUTCHEON, DUNNVILLE

Lot	Concession	Township	County
13	III L.E.	Moulton	Haldimand

Rock pressure: 308 lbs.

Completed July 15, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Surface	130 feet	
Lime and shale	150 "	280
Brown lime	70 "	350
Niagara lime	230 "	580
Shale	45 "	625
Clinton	30 "	655
Red Medina	45 "	700
Grey shale	57 "	757
White Medina	15 "	772
Red shale	31 "	803
Total depth	803 feet	

Gas at 629 and 767 feet.

LOG NO. 44.—INFORMATION BY T. J. MCCUTCHEON, DUNNVILLE

Lot	Concession	Township	County
9	III L.E.	Moulton	Haldimand

Dry.

Completed Oct. 25, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Clay	118 feet	
Lime and shale	152 "	270
Brown lime	170 "	340
Niagara lime	230 "	570
Shale	46 "	616
Clinton rock	35 "	651
Red Medina	40 "	691
Grey shale	54 "	745
White Medina	12 "	757
Red shale	3 "	760
Total depth	760 feet	

LOG NO. 45.—INFORMATION BY T. J. MCCUTCHEON, DUNNVILLE

Lot	Concession	Township	County
13	III L.E.	Moulton	Haldimand

Rock pressure: 300 lbs.

Completed May 4, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Surface	139 feet	
Lime and shale	121 "	260
Brown lime	105 "	365
Niagara lime	225 "	590
Shale	45 "	635
Clinton	30 "	665
Red Medina	45 "	710
Grey shale	57 "	767
White Medina	12 "	779
Red shale	25 "	804
Total depth	804 feet	

Chapter II: Grey County

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Elevations of Wells in GREY Co

Ont Dept Mines Vol. XXXIV, pt V. 1925 p. 23

Company ~~Township~~	lot	Con	Township	Elev.	
	2	VI	Keppel	731	. . . . .
Shallow lake	8	VII	"	736	. . . .
	38	II N.D	"	722	XXIV pt 2. p. 26.
Ben Allen	31	VIII	"	805	. . . . .
				643	
Walsh	N.E. sec. of Owen Sound			~~711~~	
Ormstead	SE "	"	"	711	

G

Elevations of Wells in Grey Co

Ont. Dept. of Mines Vol. XXXIV pt. V. 1925 p. 23.

~~Location~~ Owner	lot.	Con.	Township	Elev.	
Goodfellow	32	I	Sarawak	712	Vol. XXIV pt II p. 26
Morrison	N.E. 10	III	do.	598	

GREY COUNTY

A well was drilled at the village of Thornbury and a well at Delphi. in 1888, One hundred yards from Fields Hotel

Log of well at Delphi lot 5 Con XXVI Collingwood Twp

Surface red clay	8'	6 000 cu ft of gas at 95'
Utica Black shale	40	
Trenton Black limestone	539	
	587	

The Thornbury well was at Andrews Mill 1888 and was about 550' deep Well filled with water and had a small show of gas. Trenton Limestone

---

Annu Econ Geo hr q. 1932

A small amount of oil has been found in the Trenton formation in Collingwood & St Vincent twps the Trenton is here only covered by drift. The amount of oil found is insignificant

Location of wells are as follows

		Depth
Lot 26 Con VII	Collingwood twp	600
Lot 27 Con VII	do	400
" " "	"	500
" 25 Con VII	"	850

Oil occurred at 80, 100, 375, 400, 450 and 475

Grey Co from Clapp. Mines Branch 1915 Vol II Pt I

In 1888 a small well was sunk at Delphi lot 5 Con XXVI Collingwood Tp. near the shore of Georgian Bay. 6 000 cu ft of gas was reported which is so small for a gas well as to be unworthy of consideration. In the same year a well was drilled in the Village of Thornbury with only a showing. Since that time a number of wells have been drilled in various localities but without success.

Log of well at Delphi lot 5 Con XXVI Collingwood Twp (Brumell, 29)

Red clay	6	8	
Black shale	40	48	Show of gas 6 m cu ft
Trenton	539	587	

Section I: Artemesia Township

Chapter II: Grey County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

LOG NO. 89; INFORMATION BY H. CABLE.

Lot.	Concession.	Township.	County.
Lever Farm. 135	3 U.S.R.	Artemesia.	Grey.

ELW 1395

Drilled in 1917.

Formation.	Thickness of Formation.	Total Depth.
Surface	28 Feet	28 Feet
Niagara Lime	202 "	230 "
Blue Shale	40 "	270 "
Brown or Grey Rock	30 "	300 "
Blue Shale	5 "	305 "
Red Medina	265 "	570 "
Hudson River	400 "	970 "
Utica (brown)	170 "	1140 "
Trenton Lime	40 "	1180 "
Blue Shale and Gypsum	60 "	1240 "
Trenton with Streaks of Shale	35 "	1275 "
Shale and Slate	40 "	1315 "
Gypsum and Conglomerate	25 "	1340 "
Grey Rock	55 "	1395 "
Trenton and Shale	100 "	1495 "
Grey and blue rock	60 "	1555 "
Trenton	185 "	1740 "
Trenton Lime & conglomerate with shale gypsum & Potsdam sand	133	1873
Total Depth	~~1740~~ Feet.	

UNRELIABLE

178

Gas at 1645 and 1,695 feet. Oil at 1,715 feet.

Trenton lime comglomerate with shale gypsum and Potsdam sands to a depth of 1873 feet where Trenton lime ceases to show.

LOG NO. 90; INFORMATION BY W. H. MCDONALD, OSHAWA.

Lot.	Concession.	Township.	County.
24	7	St. Vincent.	Grey.

Completed July, 1921.

s of
on.
et

Total Depth.
10 Feet
50 "
220 "
280 "
956 "
976 "

Artemesia Tp. near Flesherton.
Log from samples by M. Mahony. GSC. Ottawa
No samples 165-165
Cream dolomite 20-185 } Guelph and
Light Grey dolomite 98-283 } Niagara
Brown grey dolomite 77-360
Grey dol. and shale 10-370 Rochester
Brown-grey dolomite 10-380 Manitoulin
Brown-red & grey shale 210-590 Queenston
grey shale 68-658
Grey calc. sandstone 5-663 } Lorraine
Grey sandy lime 5-668
668

eet.

ER, SELKIRK.

County.
Peel.

Completed Sept. 1920.

ss of
ion.
eet

Total Depth.
4 Feet
607 "
785 "
1,390 "
1,422 "
1,425 "

eet.

Lorrain 567 1435
Utica 35 1470
Trenton 395 1865
Orthon 35 1900

LYNDEN GAS CO.

L. Brooks No. 2, lot 11, con. II, Ancaster tp.
Completed August 9, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	156
Shale	14
Niagara	147
Shale	35
Clinton	13
Red Medina	24
Blue shale	65
White Medina	6
Red shale	10
Total depth	470

Show of gas at 352 feet.
Fresh water at 190 and 455 feet; salt water at 460 feet.

LYNDEN GAS CO.

H. Sharp No. 1, lot 13, con II, Ancaster tp.
Completed July 17, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	160
Niagara	161
Shale	40
Clinton	16
Red Medina	20
Blue shale	58
White Medina	11
Red shale	59
Total depth	525

Show of gas at 455 feet.
Salt water at 500 feet.

...KISER & LOUER, TILLSONBURG.

Township.	County.
Walsingham.	Norfolk.

Formation.	Thickness of Formation.	Total Depth.
	313 Feet	313 Feet
	137 "	450 "
	150 "	600 "
	200 "	800 "
	69 "	869 "
	20 "	889 "
	27 "	916 "
	5 "	921 "
	921 Feet.	

...EORGE WILLIAMS, DELHI.

Township.	County.
Middleton.	Norfolk.

Formation.	Thickness of Formation.	Total Depth.
	206 Feet	206 Feet
	140 "	346 "
	52 "	398 "
Sharp Sand	80 "	478 "
Hard Lime	52 "	530 "
Lime and Shale	83 "	613 "
Brown Lime	102 "	715 "
Hard Lime	150 "	865 "
Niagara Lime	257 "	1,122 "
Shale	41 "	1,163 "
Clinton	30 "	1,193 "
Red Medina	5 "	1,198 "
Grey Shale	34 "	1,232 "
Total Depth	1,232 Feet.	

LOG NO. 88; INFORMATION BY WESLEY HAMAKER, PORT DOVER.

Lot.	Concession.	Township.	County.
1	Broken Front.	Woodhouse.	Norfolk.

Rock pressure: 485 lbs. Completed Nov. 7th, 1921.

Formation.	Thickness of Formation.	Total Depth.
Surface	136 Feet	136 Feet
Lime	100 "	236 "
Flint	80 "	316 "
Sand	32 "	348 "
Lime	110 "	458 "
Lime and Shale	80 "	538 "
Lime	110 "	648 "
Shale	60 "	708 "
Niagara	272 "	980 "
Shale	60 "	1,040 "
Clinton	25 "	1,065 "
Red Medina	25 "	1,090 "
Shale	70 "	1,160 "
White Medina	17 "	1,177 "
Red Shale	2 "	1,179 "
Total Depth	1,179 Feet.	

Section II: Collingwood Township

Chapter II: Grey County

The Harkness Files
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Condensed from Brammell Dept Mines Ottawa
Vol V Pt II 27 Q

Oil Shale in Collingwood Twp. lot. 23 Con III

A shale distillation works was built near the road a few miles west of town. There is a 7A bed of bituminous shale which gives 3% crude oil. (Hunt reports GSC 1863 p 784-85) "When ignited in a closed vessel it loses 12.4% volatile combustible matter of which some 3 to 4% are condensible into an oily liquid. Also when rectified yields oil fit for combustible and lubricating oils."

"In 1859 works for obtaining the oil was erected near the town of Collingwood. Twenty four longitudinal cast iron retorts were set in two ranges and heated by wood... The shale broken into fragments was heated for 2 or 3 hours. Eight to 10 charges were distilled in 24 hours. ---- yielded 250 gallons crude oil corresponding to about 3% of the rock. Further distillation obtained more oil but was not economical. Oil from this shale cost was stated to be 14 cents to gallon.

When refined it gave 40 to 50% burning oil and 20 to 25% pitch and waste the remainder (25 to 35%?) heavy oil fitted for lubricating purposes.

After two or three unsuccessful trials and repeated destruction by fire they were at last in 1860 got into successful operation and a ready market was found for the oils"

X

X

Brunell

Grey County

Collingwood Twp

During the month of July 1888 a well was sunk at Delphi lot 5 Con 26 (prop lot 26 Con V) about 6 miles west to Collingwood and close to the shore of Georgian Bay. The boring was commenced in the Utica shales which immediately underly the drift and continued to a dep th of 587 feet

Surface mud clay	8 feet
Black shale (Utica)	42
Blue Limestone (Trenton)	537 feet

"Gas was found at 95 feet from the surface having a daily flow of about 6 hundred thousand cubic feet, a flow considerably in advance of any other in the district. It has however not been utilized notwithstanding the fact that the well is but 100 yds distant from Dilds Hotel a large summer resort."

Well at Thornbury

Simcoe County

Collingwood (Geol. Sur. Can., Vol. V, Part II, pp. 26-27Q):

Well No. 1, lot 16, west side Peel street			
Surface	10	10	140 Gas
Trenton			160 ,,
Limestone	543	553	
Gas was struck in small quantities at 140 and 160 feet.			
Well No. 2, lot 21, east side Oak street			
Soil	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet.			
Well No. 3, about half a mile S.E. of No. 2			
Soil	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood			
Trenton			
Limestone	351	351	150 Gas
Gas met with at 150 feet, about 2,000 cubic feet per day.			

Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q): July 1888 at Delphi on the shore of Georgian Bay 100 yds. from Field's Hotel GREY Co.

Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			

Collingwood tp. Andrews mill

Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q): 1888

Depth of well, 550 feet; small show of gas. Large flow water.

Surface 65' Trenton at 188 ft below surface (Robt. Cherry)

St. Vincent tp., l. 25, con. VII (R. Doran):

Log No. 23.—Information by Robert Cherry, Collingwood

Lot	Concession	Township	County
27	VIII	Collingwood	Grey

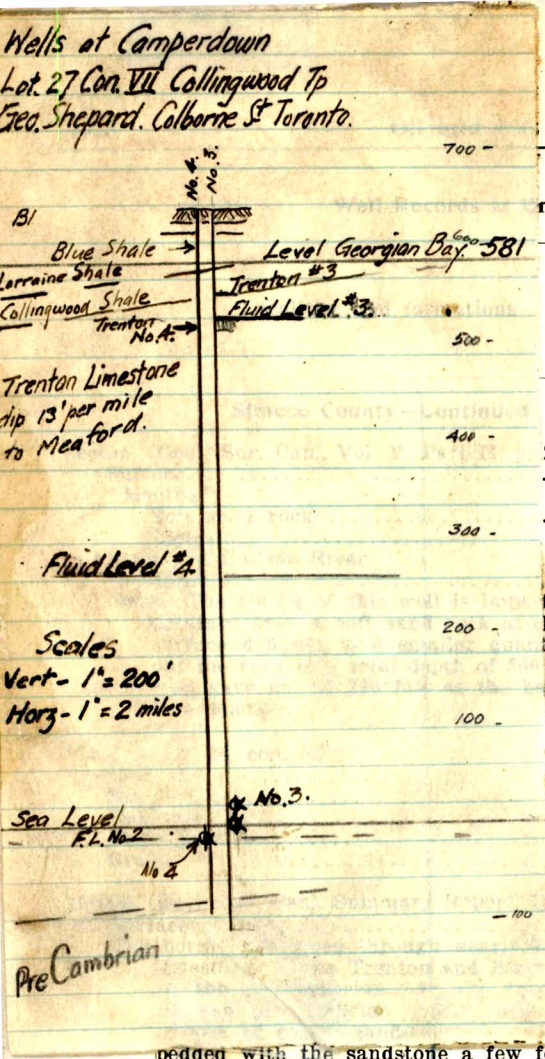
Oil well:
Small.

Completed April 5, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Clay, sand and gravel	12 feet	12
Blue and black shale	98 "	110 ~~100~~
Trenton	20 "	130 ~~120~~
6 in. blue clay at	110 "	240 ~~230~~
6 in. blue clay at	25 "	265 ~~235~~
Trenton (dark grey)	115 "	380 ~~350~~
Trenton (oily)	25 "	405 ~~375~~
Trenton (oily)	25 "	430 ~~400~~
Trenton (oily)	50 "	480 ~~450~~
Hard gray rock	30 "	510 ~~480~~
Trenton (grey, oily)	20 "	530 ~~500~~
Trenton (softer)	50 "	580 ~~550~~
Total depth	580 feet	580

Water at 7 feet. Oil at 80, 100, 375, 400, 450 and 500 feet.

Slate	190	214
Red rock	10	264
Slate	50	284
Limestone	20	344
Slate		364



ntario—Continued

	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
29Q):			
.....	321	321	321 Gas
.....	25	346	
.....	850	1,196	
.....	204	1,400	
fect. Gas was			
he base of the			
ities through-			
feet. Another			
se of the sur-			
.....	162	162	
.....	45	207	
.....	190	397	
.....	12	409	
.....	3	412	
12, p. 300):			
.....	375	375	

)0 feet of the River groups and resting were about se, and inter-

bedded with the sandstone a few feet of reddish and bluish shales.

Peel County

*Brampton:
Depth of well, 1,575 feet.

Grey County

Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):

Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Section III: Keppel Township

Chapter II: Grey County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Grey County

NOTTAWA OIL AND GAS CO., LTD.

A. Barfoot No. 1, lot 11, con. VII, Keppel tp.

Completed March, 1935. *Elev 736*

Producing gas well.

Formation	Thickness, ft.
Surface	11
Brown lime	79
White lime	66
Green shale	14
Red shale	58
Blue shale	60
Blue lime	88
Red shale	136
Hudson formation	490
Utica	56
Trenton formation	621
Potsdam	8
Total depth	1,517

-152

Gas at 1,358 and 1,378 feet.
Salt water at 1,609 feet.

NOTTAWA OIL AND GAS CO., LTD.

A. Cunningham No. 1, Village of Hepworth, Keppel tp.

Completed June 25, 1935.

Dry hole.

Formation	Thickness, ft.
Sand	21
Top lime	191
Green shale	14
Red shale	43
Blue shale	60
Brown lime	44
Blue shale	21
Red shale	68
Grey shale	70
Hudson	477
Utica	33
Trenton	480
Total depth	1,522

Grey County

NOTTAWA OIL AND GAS CO., LTD.

D. Carson No. 1, lot 5, con. VIII, Keppel tp.

Completed March 4, 1936.

Dry hole.

Formation	Thickness, ft.
Surface	39
Top lime	234
Green shale	14
Red shale	43
Blue shale	60
Brown lime	40
Blue shale	20
Red shale	65
Grey shale	70
Hudson shale	475
Utica	30
Trenton	400
Total depth	1,490

Fresh water at 170 feet.

....	1	1,801	
r. Can., Vol. V,			
....	8	8	95 Gas
....	40	48	
) cubic feet per	539	587	

Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q):
Depth of well, 550 feet; small show of gas. *1888*
at Andrews Mill

St. Vincent tp., l. 25, con. VII (B. Doran):

Clay and gravel	18	18
Blue shale	162	180
Dark blue shale	70	250
Black shale	10	260
Grey rock	5	265
Black shale	2	267
Grey rock	2	269
Black shale	2	271
Grey rock	3	274
Black shale	2	276
Grey rock	5	281
Trenton	423	704

lot 32 Con I

*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:

Surface *Elev. 712*	6	6
Rock	29	35
Blue shale	7	42
Red shale	90	132
Middle limestone	17	149
Soap rock	556	705
Black shale	30	735
Trenton limestone	469	1,204

x

*Keppel tp., l. 38, con. II, *NC* north centre diagonal. Furnished by Imperial Oil Co.: *May 3rd 1902* *200' from N line, 300' " W "* *no show*

250 S *800 E*

Surface	14	14
Limestone *Elev. 722*	190	204
Slate	10	214
Red rock	50	264
Slate	20	284
Limestone	60	344
Slate	20	364
Red Rock	*90*	*454*
Slate	*60*	*514*
Red Rock	*45*	*559*
Shale	*473*	*1032*
Trenton	*468*	*1500*

-310

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued			
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	321	321	321 Gas
"Medina"			
Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
*Tiny tp., l. 14, con. XIV:			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
Barrie (Geol. Sur. Can., Summary Report, 1912, p. 300):			
Surface deposits	375	375	
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.			
Peel County			
*Brampton:			
Depth of well, 1,575 feet.			
Grey County			
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Section IV: Osprey Township

Chapter II: Grey County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued			
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	321	321	321 Gas
"Medina"			
Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
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Clay	162	162	
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Boulders	12	409	
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Surface deposits	375	375	
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.			
Peel County			
*Brampton:			
Depth of well, 1,575 feet.			
Grey County			
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109): Comp. Oct. 22nd 1900.			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

X

Casing
10" Line Pipe 25'
8¼ Casing 50'
6¼ " 375

Water
Fresh - 250
Salt 295 & 315

Gas. 1361' - 25 M
Oil - 1650' & 1760 to 65
Small show

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q): Depth of well, 550 feet; small show of gas.			
St. Vincent tp., l. 25, con. VII (B. Doran):			
Clay and gravel	18	18	
Blue shale	162	180	
Dark blue shale	70	250	
Black shale	10	260	
Grey rock	5	265	
Black shale	2	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	3	274	
Black shale	2	276	
Grey rock	5	281	
Trenton	423	704	
*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:			
Surface	6	6	
Rock	29	35	
Blue shale	7	42	
Red shale	90	132	
Middle limestone	17	149	
Soap rock	556	705	
Black shale	30	735	
Trenton limestone	469	1,204	
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface	14	14	
Limestone	190	204	
Slate	10	214	
Red rock	50	264	
Slate	20	284	
Limestone	60	344	
Slate	20	364	
Red rock	90	454	
Slate	60	514	
Red rock	45	559	
Slate	473	1032	
Trenton	468	1500	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q):			
Depth of well, 550 feet; small show of gas.			
St. Vincent tp., l. 25, con. VII (B. Doran):			
Clay and gravel	18	18	
Blue shale	162	180	
Dark blue shale	70	250	
Black shale	10	260	
Grey rock	5	265	
Black shale	2	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	2	274	
Black shale	3	276	
Grey rock	2	281	
Trenton	5	704	
	423		

Log No. 90; Information by W. H. McDonald, Oshawa.

Lot.	Concession.	Township.	County.
24	7	St. Vincent.	Grey.

Completed July, 1921.

Formation.	Thickness of Formation.	Total Depth.
Surface	10 Feet	10 Feet
Collingwood Shale	40 "	50 "
Hudson Shale	170 "	220 "
Utica Shale	60 "	280 "
Trenton	676 "	956 "
Arkose	20 "	976 "
Total Depth	976 Feet.	

Limestone	20	344
Slate		364

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued			
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	321	321	321 Gas
"Medina"			
Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
*Tiny tp., l. 14, con. XIV:			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
Barrie (Geol. Sur. Can., Summary Report, 1912, p. 300):			
Surface deposits	375	375	
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.			
Peel County			
*Brampton:			
Depth of well, 1,575 feet.			
Grey County			
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Section V: St. Vincent Township

Chapter II: Grey County

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Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
See also under Collingwood Twp.			
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Collingwood tp. Andrews mill			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q): 1888			
Depth of well, 550 feet; small show of gas. Large flow water.			
Surface 65 ft Trenton at 188 ft below surface (Robt. Cherry)			
St. Vincent tp., l. 25, con. VII (B. Doran): Well No. 1.			
Clay and gravel	18	18	
Blue shale	162	180	
Dark blue shale	70	250	
Black shale	10	260	
Grey rock	5	265	
Black shale	2	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	2	274	
Black shale	3	276	
Grey rock	2	281	
Trenton	5	704	
	423		
lot 32 Con I			
*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:			
Surface Elev. 712		6	
Rock	6	35	
Blue shale	29	42	
Red shale	7	132	
Middle limestone	90	149	
Soap rock	17	705	
Black shale	556	735	
Trenton limestone	30	1,204	
	469		
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface Elev. 727		14	
Limestone	14	204	
Slate	190	214	
Red rock	10	264	
Slate	50	284	
Limestone	20	344	
Slate		364	
Red Rock	90	454	
slate	60	514	
Red Rock	45	559	
Slate	473	1032	
Trenton	468	1500	

By R.H. McDonald, Ottawa
lot 24 Con VII St Vincent
Comp. July 1921

Surface	10	10
Shale	40	50
Hudson shale	170	220
Utica shale	60	280
Trenton	676	956
Arkose	20	976

Grey County

Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):

Fresh water cased off at 285 with 6¼" casing, salt water at 295 and 315 recased at 375

Surface			
Soil and clay	6	6	1,361 Gas 25 M
Gravel	6	12	1,760 to 1,765 Oil Small
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales		1,160	

See over for remainder of log

Name of Gas or Oil Co. Doran Oil Distr Co — Year

Address — Co. Well No. # 3

Location, County GREY — Tp. St Vincent — Con. 23 — Lot XI — Pt. Lot

Driller W H Donald — Address — Prop. Owner

Date commenced — Date completed — Elev. — Acres

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface	131	
Utica Shale	66	197
Top of Trenton		197
Boom Limestone		740-45

well at pump house Meaford
180 ft to the top of the Trenton

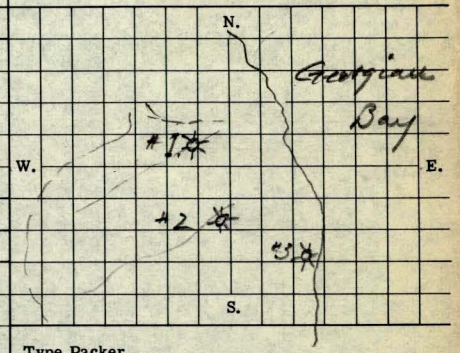
WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION



Type Packer

Size

Set off Bottom — feet

Explosive used — No. qts. or lbs.

Placed between — and — ft. from surface

Initial Oil Yield — bbls./day. Initial Gas Yield — M. cu. ft./day

Rock Pressure — lbs. After being shut in — Days

1st Gas & Oil — 743 — ft. Flow — cu. ft. or bbls./day

2nd " " " — " " — " " " "

3rd " " " — 618 — " " — show of gas " " "

4th " " " — " " — " " " "

5th " " " — " " — " " " "

6th " " " — " " — " " " "

Name of Gas or Oil Co. Doran Oil Development Co Year

Address Co. Well No. #2

Location, County GREY Tp. St Vincent Con. VII Lot 24 Pt. Lot

Driller Address Prop. Owner

Date commenced Date completed Elev. 100 ft above the Bay ? Acres

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface Shale	275	
Trenton Limestone	600	875

WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION

N.

W. E.

S.

Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. Initial Gas Yield M. cu. ft./day

Rock Pressure lbs. After being shut in Days

1st ~~Gas~~ Oil 710 and 758 ft. Flow cu. ft. or bbls./day

2nd " " " " " " " " " "

3rd " " " " " " " " " "

4th " " " " " " " " " "

5th " " " " " " " " " "

6th " " " " " " " " " "

Name of Gas or Oil Co. Doran Oil & Development Co Year

Address Meaford Co. Well No. #1

Location, County GREY Tp. St Vincent Con. VII Lot 25 Pt. Lot

Driller Address Prop. Owner

Date commenced Date completed Elev. 200 / Nabour Bay? Acres

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface shale	271	
Lower Gravels	577	848

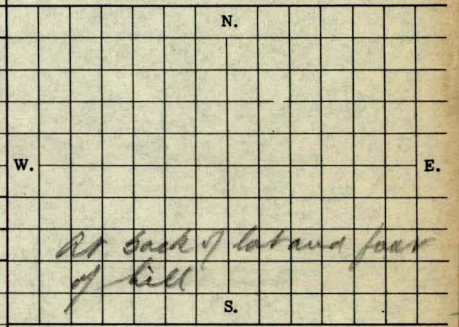
WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION



Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. Initial Gas Yield M. cu. ft./day

Rock Pressure lbs. After being shut in Days

1st Gas ~~or~~ Oil		650	ft. Flow	show	cu. ft. or bbls./day
2nd " " "			" "		" " " "
3rd " " "	oil	810	" "	small	" " " "
4th " " "			" "		" " " "
5th " " "			" "		" " " "
6th " " "			" "		" " " "

Section VI: Sarawak Township

Chapter II: Grey County

The Harkness Files
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Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	

ubic feet per

Wm. L. Forrest
F. McNeil No. 2, lot 28, con. I, Sarawak tp.
Completed October, 1939.
Dry hole.

Formation	Thickness, ft.
Sand	6
Lime	30
Green shale	11
Red and blue shale	97
Red shale	46
Lime	34
Red Medina	68
Blue shale	55
Hudson	382
Utica	19
Trenton	594
Red shale	4
Potsdam	14
Arkose granite	2
Total depth	1,366

Show of gas at 1,266 feet.
Fresh water at 45 feet; salt water at 1,271 and 1,365 feet.

Wm. L. Forrest
E. Hind No. 1, lot 28, con. III, Sarawak tp.
Completed July 8, 1939. Elev 717
Dry hole.

Formation	Thickness, ft.
Red and blue shale	96
Blue shale	56
Lime	34
Red Medina	69
Blue shale	60
Hudson	379
Utica	21
Trenton	577
Red shale	5
Potsdam	15
Arkose	6
Granite	2
Total depth	1,320

Show of oil at 1,095 to 1,105 and 1,228 to 1,233 feet.
Fresh water at 25 and 210 feet; salt water at 1,253 and 1,297 feet.

*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm: lot 32 Con I Elev. 738			
Surface		6	
Rock	6	35	
Blue shale	29	42	
Red shale	7	132	
Middle limestone	90	149	
Soap rock	17	705	
Black shale	556	735	+3
Trenton limestone	30	1,204	
	469		
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface		14	
Limestone	14	204	
Slate	190	214	
Red rock	10	264	
Slate	50	284	
Limestone	20	344	
Slate		364	

Grey County

ANNAN PETROLEUM, LTD.

F. Cavell No. 1, lot 31, con. II, Sarawak tp.

Driller: G. Ramsey. 330N 335E Elev. 749
Completed August 10, 1948.
Dry hole.

Formation	Depth, ft.
Surface	4
Lime	45
Shale and lime	80
Red shale	230
Grey shale	240
Grey lime	250
Grey shale	758
Brown shale	795
Trenton	1,000
Brown and grey lime	1,125
Shale	1,127
Grey lime	1,190

No water encountered.

ANNAN PETROLEUM, LTD.

D. Morris No. 1, lot 29, con. III, Sarawak tp.

Driller: G. Ramsey. SW 1/4
Completed January 30, 1948.
Dry hole.

Formation	Depth, ft.
Surface	20
Red shale and grey lime	132
Red and blue shale	210
Grey shale	665
Black shale	690
Grey lime	985
Grey and brown lime	1,200
Broken shale	1,202
Lime	1,208

Show of oil at 547, 1,063, 1,204, and 1,207 feet.
Fresh water at 112 feet; salt water at 1,207 feet.

Ontario—Continued

	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
. 29Q):			
.....	321	321	321 Gas
.....	25	346	
.....	850	1,196	
.....	204	1,400	
rfect. Gas was the base of the ntities through- 0 feet. Another ase of the sur-			
.....	162	162	
.....	45	207	
.....	190	397	
.....	12	409	
.....	3	412	

Barrie (Geol. Sur. Can., Summary Report, 1912, p. 300):

Surface deposits	375	375	

The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.

Peel County

*Brampton:
Depth of well, 1,575 feet.

Grey County

Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):

Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Section VII: Sydenham Township

Chapter II: Grey County

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GREY. CO

ANNAN PETROLEUM, LTD.

J. B. Duggan No. 1, lot 32, con. II, Sydenham tp.

Driller: G. Ramsey.
Completed July 6, 1948.
Dry hole.

Formation	Depth, ft.
Surface	25
Red and grey shale	180
Blue lime	195
Grey shale	643
Black shale	645
Brown lime	790
Grey lime	810
Brown lime	1,113
Grey lime	1,161

Show of gas at 100 feet.
Fresh water at 180 feet; salt water at 1,161 feet.

ANNAN PETROLEUM, LTD.

S. Reilly No. 1, lot 23, con. C, Sydenham tp.

Driller: G. Ramsey.
Completed May 1, 1948.
Dry hole.

Formation	Depth, ft.
Surface	12
Red shale	25
Grey lime	50
Red shale	85
Lime shell	110
Lime and shale	130
Grey shale	200
Grey lime	230
Grey shale	591
Black shale	600
Black, brown, and grey lime	860
Grey shale	870
Brown and grey lime	1,009
Grey shale	1,011
Brown and grey lime	1,160

Show of oil at 670 feet.
Show of gas at 990 feet.
Fresh water at 25 and 90 feet; salt water at 1,156 to 1,160 feet.

Chapter III: Halton County

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Halton County.

General Statement.—No oil or gas fields of commercial importance have ever been found in Halton county. In 1912 there was some excitement at Milton, but it was not based on reason.

History of developments.—Although without commercial importance, various tests have been sunk in the county at different times, starting many years ago, when a well was drilled near Milton on lot 10, concession I, Trafalgar township, to a depth of 606 feet without results. Showings of oil were obtained at 500 to 700 feet in a very close-grained rock. The showings improved on shooting the well. During 1911 to 1912 several wells, drilled in the vicinity of Burlington and Port Nelson, encountered showings of gas and a previous well at the Queens Hotel in Burlington had encountered a rock pressure of 60 to 70 pounds per square inch, which was soon exhausted. A dry hole was also drilled one-fourth mile from the coast in the same vicinity. In April, 1912, a test was drilled on the Scott farm at Milton, and had a showing of light amber oil at the time the tools were lost. Finding it impossible to recover the tools, a second well was drilled near by and produced one and one-half barrels of light coloured oil per day, reported by Mr. Peat to be 59° and very high in paraffin. Following the drilling of this well, a number of test wells were sunk at Milton, but hope of finding a productive field was in vain and the locality is now abandoned. The first well after the one causing the excitement in the Milton field was completed in the early part of 1912 on the Howden farm in the western part of lot 2, concession V, Esquesing township; the only indication of oil was a small showing in the Trenton. The well was drilled to the granite, which was reached at a depth of 1711 feet. The oil in the first test at Milton is reported to be 58° gravity and to be rich in paraffin. Another well is said to have found a very light showing of oil in the Lorraine shale at a depth of about 575 feet.

Formations penetrated.—The formations underlying the glacial drift in the eastern half of Halton county consist of Medina rocks, while in the western half of the county they are of Clinton,

Niagara, and Guelph age. It is unfortunate that good records are not numerous, but there is a record of a shallow well near Milton which reported 200 feet of Medina red shale underlying 67 feet of surface materials, and under the red shale occurs 159 feet of bluish Lorraine shale.

Hastings County.

Hastings county will not contain any oil or gas fields, since conditions are unfavourable. The entire northern two-thirds of the county is underlain by formations of Laurentian age, in which neither oil nor gas exists in quantity, and the strata farther south consist of Trenton and associated limestones, which, being without cover, will never prove productive. Some small showings of natural gas are reported in wells in the southern part of this county, but are of no consequence.

Huron County.

General statement.—No oil or gas fields have ever been found in Huron county, and it is improbable that they exist, since the geological conditions are not favourable. There have, however, been a great many wells drilled in this county for salt, and many of them were commercially successful for that purpose. They are described herein, being of some value in leading to a knowledge of geological conditions which exist in the same formations in counties farther south.

History of drilling.—The drilling in Huron county was started previous to 1865. Much drilling for salt has been done, and consequently it is impossible to give anything like a complete list of the wells drilled and this is not essential in a report on oil and gas, in a county where the substances were not found. In the immediate vicinity of Goderich many salt wells have been drilled, but it is not important to mention these individually, except to give one or two logs for reference in studying the stratigraphy in connexion with oil deposits farther south. The salt industry has been well described in various reports of the Canadian Geological Survey, according to which the principal drilling

Section I: Esquesing Township

Chapter III: Halton County

The Harkness Files
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Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Oxford County—Continued			
*Beachville. Furnished by W. R. Rogers. South half l. 18, con. II, North Oxford tp., one mile west of village:			
Surface deposits	8	8	
Corniferous			
Limestone, grey, blue and light brown	232	240	
Onondaga			
Dark coloured limestone or dolomite, gypsum and blue shales	500	740	
Guelph and Niagara			
Dolomite, grey, light, brown and blue	226	966	
Niagara			
Soft blue shales	34	1,000	
Clinton			
Light brown dolomite	25	1,025	
Medina			
Blue to greenish and soft shale	65	1,090	
Calcareous sandstone	35	1,125	
Red shales	440	1,565	
Hudson River			
Blue shales	610	2,175	
Utica			
Black bituminous shales	85	2,260	
Trenton			
Limestone, light brown to whitish	529	2,789	
Granite at 2,789.			
Top of well 893 feet above sea level.			
Halton County			
Milton, Trafalgar tp., l. 10, con. I (Geol. Sur. Can., Vol. V, Part II, p. 30Q):			
Soil	47	47	
Red shale	200	247	
Blue shale	159	406	
Trafalgar tp., new survey, east half l. 15, con. I (W. I. Dick, County Crown Attorney, Milton, Ont.).			
Red Medina	285	285	1,447 Oil
Hudson River shale	795	1,080	
Utica shale	120	1,200	
Trenton	265	1,465	
Esquesing tp., west half l. 2, con. II (W. I. Dick, County Crown Attorney, Milton, Ont.):			
Gravel	40	40	
Medina sand	166	206	
Hudson shale	728	934	
Utica shale	114	1,048	
Nassagaweya tp., east half of l. 3, con. VII (R. Boyd):			
Sand and gravel	73	73	368 Gas
Red Medina shale	217	290	
White Medina shale	69	359	
"Sand"	9	368	
Another well was drilled about 1,000 feet west of this well; the record of it is as follows:			
Sand and gravel	63	63	1,710 Gas
Red Medina shale	240	303	1,725 ,,
White Medina shale	15	318	5,000 cu.
Hudson shale	835	1153	ft. daily
Trenton	667	1820	
State	5	1825	
Precambrian Red granite or gneiss	30	1855	
coarse grained mica schist	45	1900	

Well Records in C

TONY SEYNUCK - No. 3
A. McDonald No. 1
Esquesing Tp., Lot 15, Con. V.
Co-ordinates: 1150' S., 165' E.
Elevation: 930' + 2'.
Driller: A. Dawson.
Completed: October 8, 1954.
Result: Producing gas well.
Reported flow: 99 M.C.F./day; W.H.P. 700 lbs.

Localities and formation	Formation	Thickness feet	Depth feet	
Halton County—Continue				
Hudson shale				
Trenton				
Slate	5	1,825		
Pre-Cambrian				
Red granite or gneiss	30	1,855		
Coarse-grained mica schist	45	1,900		
Wentworth County				
Hamilton, off Clyde Avenue West (Ont. Bur. Mines, Vol. XV, Part I, p. 112):				
Medina, Hudson River, Utica.				
Red, blue and black shales	1,250	1,250		
Trenton				
Limestone	710	1,960		
Bottom of well in pre-Cambrian at 1,960 feet.				
Top of well 290 feet above sea level.				
Flamborough East tp., l. 8, con. VIII (Geol. Sur. Can., Vol. V, Part II, p. 30Q):	.....	465	340	Oil
NOTE.—The drilling was begun in either the base of the Guelph or summit of the Niagara formation, the whole of which, with the underlying Clinton, was probably traversed. The boring at 465 feet was in the Medina formation. Small quantity of oil is said to have been obtained at 340 feet.				
Barton tp., l. 17, con. V (Geol. Sur. Can., Vol. V, Part II, p. 31Q):				
Surface	14	14		
Niagara and Clinton				
Limestone	70	84		
Sandstone	7	91		
Medina				
Red shale	634	725		
Hudson River and Utica, with probably the lower part of Medina				
Blue shale	593	1,318		
Top of well 300 feet above Lake Ontario.				
Hamilton, Royal Hotel (Geol. Sur. Can., Vol. V, Part II, p. 31Q):				
Depth of well	.....	1,000		
No record of well is available.				
Dundas, in the valley below the railway station (Geol. Sur. Can., Vol. V, Part II, p. 31Q):				
Surface	80	80		
Red shale	400	480		
Blue shale	550	1,030		
Black shale	400	1,430		
Limestone	220	1,650		
The rocks penetrated include the Medina, Hudson River and Utica and Trenton formations. Small quantities of gas were met with at various points.				
Barton tp., lot 11, con. VII (Geol. Sur. Can., Vol. V, Part II, p. 32Q):				
Niagara and Clinton				
Limestone with a little shale	250	250	700	Oil
White sandstone	5	255	780	"

Name of Gas or Oil Co. Anthony Gas & Oil Explor Ltd. Year 1955

Address Co. Well No. 4

Location, County HALTON Tp. Esquesing Con. IV Lot 16 Pt. Lot W ½

Driller A Dawson Address Selkirk Prop. Owner Moore Est

Date commenced Date completed Elev. 983+2 Acres 100

DRILLERS LOG (Formation)	Thickness	TOTAL
Esquesing TD		
W ½ lot 2 Con II		
Gravel	40	40
Medina sand	166	206
Hudson shale	728	934
Utica shale	114	1048
~~[illegible]~~		
← From Knight OBM 1915		
Tony Semick #3		
4 McDonald #1		
Esquesing lot 15 Con V		
1150 S. 165 E Elev 932		
Comp Oct 8th 54 / 99 mcut 700 psi.		
Surface	42	42
Red shale	382	424
Grey & black shale	808	1232
Trenton	624	1856
Arkose	21	1877
Pre Cambrian	33	1910
Water: fresh 57, 187		
Gas at 600', 1800'–1814'		
	TD	1974

WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION

N. / S. / W. / E.

675 N

1300 E

Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. Initial Gas Yield 332 M. cu. ft./day

Rock Pressure 377 lbs. After being shut in Days

1st Gas or Oil ft. Flow cu. ft. or bbls./day

2nd " " " " " " " " "

3rd " " " 3 pays " " " " " "

4th " " " " " " " " "

5th " " " 1950? bellin... " " " " " "

6th " " " " " " " " "

Name of Gas or Oil Co. Tony Senuck - Anthony Gas & Oil ~~Syndt~~ Exploration Ltd #3 Year 1954

Address Acton Ont Co. Well No. B #A

Location, County HALTON Tp. Esquesing Con. V Lot 15 Pt. Lot 14 1/2

Driller Hoover Bros Address Prop. Owner A. McDonald #2?

Date commenced Date completed 24 Febry 54 Elev. 913+2 Est Acres 100

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface	35	
Queenston	343	378
Iroquois - Dundas	718	1096
Blue Mountain - Collingwood	87	1183
Trenton	722	1805
Basal	21	1826

Tony Senuck #3 A McDonald Farm No. 1.
1150 S 165 E Elev: 930+2 Comp Oct 8th 1954
99 Mcuft RP. 700psi Dawson Driller

Surface	42	#2
Red Shale	382	424
Grey & black shale	808	1232
Trenton	624	1856
Arkose	21	1877
Pre Cambrian	33	1910
Water	Gas	
Fresh 528 187	600	
	1809-1814	

WATER RECORD

Kind	Depth	Ft. Rises
Fresh	41	25
"	163	145
"	197	180

CASING RECORD

Length	Diam.	Weight
36	10	
338	7	cemented

SKETCH OF LOCATION

N. 1100 S. W. 125 W ℄ E.

Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. ~~Initial~~ Final Gas Yield 188 M. cu. ft./day

Rock Pressure 480 lbs. After being shut in Days

1st Gas or Oil 1774-79 ft. Flow 188 M cu. ft. or bbls./day

2nd " " " " " " " " " "

3rd " " " " " " " " " "

4th " " " " " " " " " "

5th " " " " " " " " " "

6th " " " " " " " " " "

Section II: Nassagaweya Township

Chapter III: Halton County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

NASSAGAWEYA TOWNSHIP
HALTON COUNTY

Company : T. Seynuck, Acton, Ontario

Location : Lot 30, con. VII, Nassagaweya township

Driller : Morgan Crewson, Acton to about 3000'
Tony Seynuck, thereafter.

600 S 670 W

Started : September 1st, 1928

Completed: February 28, 1929 (2,445')

Elev. : 1,110 feet. 1000 + 2

This log may not be too accurate

Formations			Depth	Total
Surface			38	38
Hard lime	-	Lockport	47	85
Soapstone	-	Rochester	10	95
Red shale		Cabot Head	10	105
Soap & blue shale		Cabot Head	28	133
Hard lime		Manitoulin	17	150
do crystalline		Manitoulin	15	165
do do		Manitoulin	13	178
Red shale			472	650
Hudson River, blue			750	1340
Utica shale, blue			110	1450
Trenton lime		Elev +337	520	1970
White sticky lime			10	1980
Very hard lime, then softer and some gas			6	1986
Pre-Cambrian			2230	to 2420
Mica schist				
Grey granite				2445
		Nov 24/31 -		3724
		Aug.13/32 -		4050
		July 30/35 -		4200

Fresh water at 60 feet; sulphur water at 160 feet.

500' of 5 5/8" casing
38' of 8"

1450
1113
337

4200
1980
1780

(SEE OTHER SIDE)

Show of gas at 1,980 feet.

Tony Seynuck states that he had pockets of gas every few feet from 1975 to 3900 feet, and at 4190 feet he had a big pocket of gas.

Mr. McDonald of Sudbury Diamond Drilling Company says one of the drillers said they were in granite from 3100 feet.

Aug. 13/32 - 4050 feet.
Tony Seynuck brought in samples claiming to have oil. Both Dept. Mines and self recognize it as Creosote. R.B.H.

From F.G. Clapp Mines Branch Ottawa Vol II # 291 p 149

First well drilled near Milton on lot 10 Con I Trafalgar

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Oxford County—Continued			
*Beachville. Furnished by W. R. Rogers. South half l. 18, con. II, North Oxford tp., one mile west of village:			
Surface deposits	8	8	
Corniferous			
Limestone, grey, blue and light brown	232	240	
Onondaga			
Dark coloured limestone or dolomite, gypsum and blue shales	500	740	
Guelph and Niagara			
Dolomite, grey, light, brown and blue	226	966	
Niagara			
Soft blue shales	34	1,000	
Clinton			
Light brown dolomite	25	1,025	
Medina			
Blue to greenish and soft shale	65	1,090	
Calcareous sandstone	35	1,125	
Red shales	440	1,565	
Hudson River			
Blue shales			
	728	934	
	114	1,048	
Nassagaweya tp., east half of l. 3, con. VII (R. Boyd):			
Sand and gravel	73	73	368 Gas
Red Medina shale	217	290	
White Medina shale	69	359	
"Sand"	9	368	
Another well was drilled about 1,000 feet west of this well; the record of it is as follows: lot 3 Con VIII ?			
Sand and gravel	63	63	1,710 Gas
Red Medina shale	240	303	1,725 ,,
White Medina shale	15	318	5,000 cu.
Hudson River Shale	835	1153	ft. daily
Trenton	667	1820	
State	5	1825	
Precambrian	75	1900	

Rockwood Oil & Gas Co
W½ lot 12 Con III Nassagaweya Tp. HALTON Co.
Status Well Drilled 1918 Elev. 1013.

Campbellville	20	?	
Surface			
Lookport	160	180	Very dark brown lime 1610
Medina-Cataract	60	240	Reported drilled by Grant @ 2160
Queenston	500	740	
White Medina	10	750	Depth gain 2150
Pink shale	10	760	
Grey shale	660	1420	
Utica Black Shale	110	1530	
Utica Brown shale	34	1564	
Trenton		1564	Elev 551
Very dark brown lime		1610	
Reported drilled to Granite		at 2150 or 2160	

Mr Dick of Milton says that a well was drilled prior to 1922 at Nassagaweya tp lot 12 Con IV, prob Con III as above

See F.G. Clapp Vol II page 109 See Knight p 30

Well Records in

Localities and formatio

Halton County—Contin

Hudson shale .....
Trenton .....
Slate .....
Pre-Cambrian
Red granite or gneiss .....
Coarse-grained mica schist ....

Wentworth County

TONY SEYNUCK- No. 2
T. Seynuck No. 2
Nassagaweya Tp., Lot 30, Con. VII.

Co-ordinates: 600' S., 670' W.
Elevation: 1009' + 2'.
Driller: A. E. Hoover Estate.
Completed: July 13, 1954.
Result: Dry hole.

Formation	Thickness feet	Depth feet
Surface	24	24
Niagara	28	52
Shale	10	62
Red Medina	13	75
Grey shale	62	137
White Medina	12	149
Red shale	459	608
Hudson river	707	1,315
Utica Shale	79	1,394
Trenton	635	2,029
White quartz	83	2,112

Trenton Elev. 383

Water	Gas
Fresh at 29'	Show at 1,960'
Brackish at 144'	

Halton County

BEVERLY IRON SYNDICATE
Milton Brick Co. No. 1, lot 1, con. VII, Nassagaweya tp.
Completed June 14, 1943. 2605 1300 W
Dry hole.

Formation	Thickness, ft.
Queenston	427
Hudson River	733
Utica	113
Trenton	643
Pre-Cambrian[1]	1,094
Total depth	3,010

Show of gas at 1,860 to 1,864 feet.
Fresh water at 108 and 130 to 220 feet.
[1] Footage 1,967 to 3,010 by diamond-drill.

(Geol. Sur. Can.,

..... 465 340 Oil

either the base of Niagara formation, underlying Clinton, boring at 465 feet Small quantity of ed at 340 feet.

Barton tp., l. 17, con. V (Geol. Sur. Can., Vol. V, Part II, p. 31Q):

Surface	14	14
Niagara and Clinton		
Limestone	70	84
Sandstone	7	91
Medina		
Red shale	634	725
Hudson River and Utica, with probably the lower part of Medina		
Blue shale	593	1,318

Top of well 300 feet above Lake Ontario.

Hamilton, Royal Hotel (Geol. Sur. Can., Vol. V, Part II, p. 31Q):

Depth of well 1,000

No record of well is available.

Dundas, in the valley below the railway station (Geol. Sur. Can., Vol. V, Part II, p. 31Q):

Surface	80	80
Red shale	400	480
Blue shale	550	1,030
Black shale	400	1,430
Limestone	220	1,650

The rocks penetrated include the Medina, Hudson River and Utica and Trenton formations. Small quantities of gas were met with at various points.

Barton tp., lot 11, con. VII (Geol. Sur. Can., Vol. V, Part II, p. 32Q):

Niagara and Clinton			
Limestone with a little shale	250	250	700 Oil
White sandstone	5	255	780 "

Section III: Nelson Township

Chapter III: Halton County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Halton County

F. A. Ogletree, Sarnia

Lot 7, con. III, Nelson tp.

Completed December, 1929.
Dry hole.

Formation	Thickness, ft.	
Clay	3	
Hudson River shale	887	890
Utica shale	170	1060
Trenton	665	1725
Arkose	15	1740
Total depth	1,740	

Gas at 225, 250, 450, and 485 feet.
Water at 42, 1,070, and 1,725 feet.

From Clapp Mines Branch Ottawa # 291 p 149

"During 1911-1912 several wells drilled in the vicinity of Burlington & Port Nelson encountered gas & a previous well at the Queens Hotel in Burlington had encountered a Rock Pressure of 60 to 70 psi which was soon exhausted."

"A dry hole was also drilled ¼ mile from the Lake in the same vicinity."

R.B.M. was at the Queens Hotel in the early 1930's and the well was still flowing some gas.

Ajax Oil and Gas Co., Ltd., Toronto

Lot 3, con. IV, Dover W. tp.

Completed November 27, 1929.

Formation	Thickness, ft.
Surface	78
Soapstone	192
Big lime	165
Water sands and gypsum	440
Hard lime, white	225
Salina and shale breaks	400
Guelph	200
Niagara	155
Shale break	150
White Medina	30
Big red shale	350
Hudson River	260
Utica	142
T[illegible]	362

ACME GAS AND OIL CO., LTD., TORONTO
Lot 14, E. pt., con. I, Howard tp.
Completed November 15, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	76
Huron	15
Hamilton	233
Onondaga	79
Total depth	403

UNION NATURAL GAS CO., CHATHAM
Lot 4, T.L.R., Howard tp.
Completed August 14, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	190
Huron black shale	85
Hamilton lime and shale	226
Onondaga, Detroit River, Salina, Guelph and Niagara	1,614
Rochester	30
Clinton	20
Cabot Head	80
Manitoulin	62
Queenston	10
Total depth	2,317

Gas at 200 feet.
Water at 705 feet.

UNION NATURAL GAS CO., CHATHAM
Lot 7, con. XI, Howard tp.
Completed June 15, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	330
Hamilton shale and lime	222
Onondaga, Detroit River, Salina, Guelph and Niagara	1,323
Total depth	1,875

UNION NATURAL GAS CO., CHATHAM
Lot 4, con. XI, Howard tp.
Completed May 1, 1929.

Formation	Thickness, ft.
Surface	195
Hamilton lime and shale	342
Onondaga, Detroit River, Salina, Guelph and Niagara	1,593
Rochester	40
Cabot Head	130
Manitoulin	25
Queenston	5
Total depth	2,330

Gas at 603 feet.
Water at 2,115 feet.

ACME GAS AND OIL CO., LTD., TORONTO
Lot 18, con. I, Howard tp.
Completed November 29, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	41
Gravel	34
Hardpan	7
Top lime	38
Upper soap	108
Lime streaks	14
Upper soap	34
Middle lime	12
Lower soap	25
Dark streak of shale	7
Onondaga lime	141
Oriskany sandstone	5
Total depth	466

ACME GAS AND OIL CO., LTD., TORONTO
Lot 6, con. XV, Orford tp.
Completed December 9, 1929.
Dry hole.

Formation	Thickness ft.
Sand	9
Gravel	5
Clay	16
Hardpan	18
Boulders	5
Hardpan	15
Grey shale	32
Upper soap	155
Middle lime	12
Lower lime	24
Dark streak	7
Lower lime	125
Big lime	22
Oriskany sandstone	8
Total depth	453

UNION NATURAL GAS CO., CHATHAM
Lot 148, N.T.R., Raleigh tp.
Completed November 28, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	193
Soap, Hamilton	127
Onondaga, Detroit River	670
Salina	654
Total depth	1,644

Salt water at 1,620 to 1,625 feet.

UNION NATURAL GAS CO., CHATHAM
Lot 145, N.T.R., Raleigh tp.
Completed November 25, 1929.

Formation	Thickness, ft.
Surface	200
Hamilton shale	74
Onondaga, Detroit River, Salina	1,316
Total depth	1,590

Gas at 1,561 feet.
Salt water at 1,580 to 1,590 feet.

UNION NATURAL GAS CO., CHATHAM
Lot 147, N.T.R., Raleigh tp.
Completed October 11, 1929.

Formation	Thickness, ft.
Surface	195
Hamilton shale	75
Onondaga, Detroit River, Salina	1,295
Total depth	1,565

Gas at 1,561 feet.
Water at 710 feet.

Section IV: Trafalgar Township

Chapter III: Halton County

The Harkness Files
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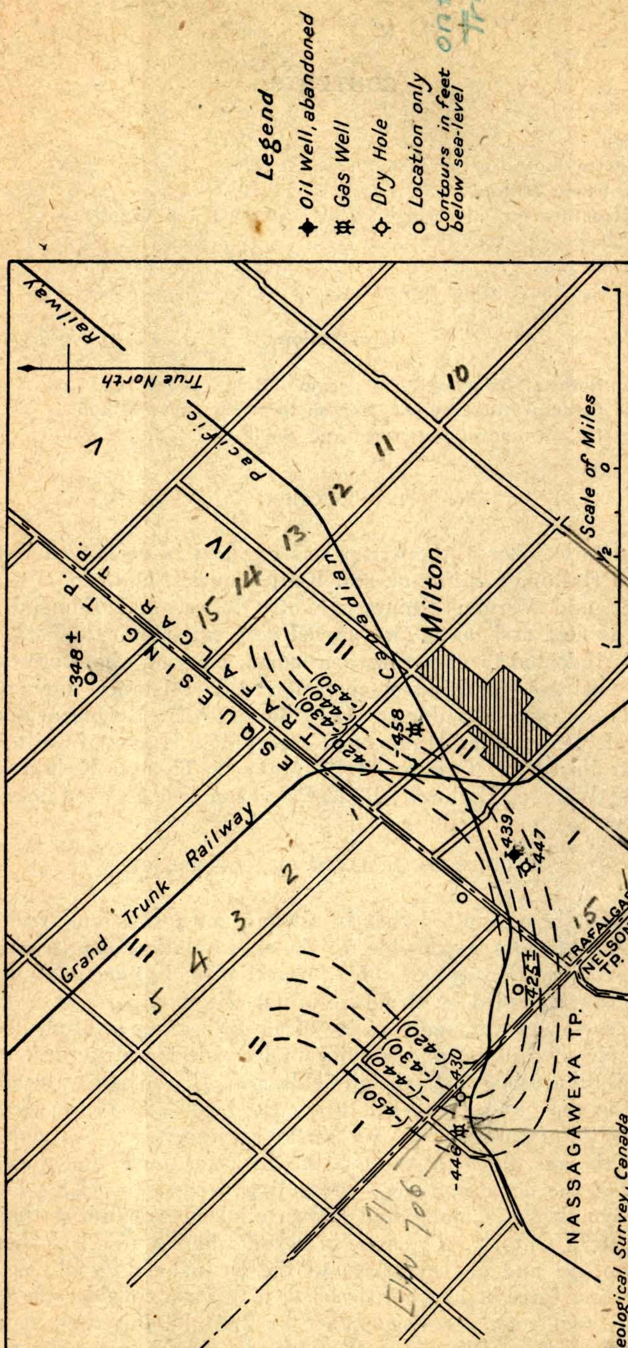

Figure 5. Structure diagram of the Trenton formation near Milton, Ont.

In 1866 or earlier well in lot 10 Con I 406 feet deep.

Mr Tronson of Milton Heights. is using gas from this well in one stove.

In 1912 Brandons O&G Co. had 2 wells at Milton

OIL PROSPECTS OF SOUTHWESTERN ONTARIO.

By M. Y. Williams.

CONTENTS.

Illustrations.

INTRODUCTION.

From June 4 to October 5, the writer was engaged in geological work relating to oil prospecting in Halton, Wellington, and Kent counties, Ontario.

Harold Bush and Vernon Kniewasser of Ottawa, and Edmond Normand of Montreal, acted as field assistants, and proved very satisfactory.

The writer is indebted to numerous gentlemen, most of whom are connected with the oil and gas business, for kind co-operation and assistance during the summer. Acknowledgments are especially due to H. F. Slater, A.M. McQueen, and E. P. Rowe of Toronto; W. I. Dick, Wm. Hume, and George S. Hume of Milton; Dr. C. O. Fairbank of Petrolia; F. J. Carman, John McLeod, Thomas Knight, Alex. Sussex, A. Elliott, and N. Wade of Bothwell; R. L. Pattinson and F. W. James, of Chatham.

FACTORS CONTROLLING OIL OCCURRENCE.

It is now generally recognized that in oil and gas formations, rock porosity and structure are the two factors responsible for the accumulation of oil and gas into pools of economic importance. Porous parts of a formation tend to accumulate the dispersed fluids and where gravity aided by structure is not effective, porosity is the controlling factor. In most cases, however, the porosity of an oil-bearing stratum does not change materially from place to place, and gravity under suitable structural conditions has determined the oil occurrences. In the oil fields, gas, oil, and salt water generally occur together, gas being the lightest and salt water the heaviest. If the three are present in a dome-shaped bed of porous rock overlain by an impervious bed, as a result of the action of gravity the gas will be at the top, the oil lower down, and the salt water will occupy the sides of the dome and the surrounding depressions. This has been shown to be the actual condition in many well known oil fields, including the Devonian oil fields of southwestern Ontario. In cases, however, where water is lacking in the oil-bearing formation, oil and gas gravitate to the basins and synclines and although lacking the impelling force of hydrostatic head, may form considerable accumulations.

The variability of rock porosity cannot be foretold, but rock structure can be determined in many cases, either from the attitude of rock outcrops, or from records of wells drilled in the vicinity.

The result of the work of the past season, as it bears upon the oil development of the region visited, follows.

See. Clapp. Vol II page 149

OIL PROSPECT NEAR MILTON.

A number of wells have been bored into the Trenton formation in the vicinity of Milton, one of which has produced some oil and two of which are producing small quantities of gas for domestic purposes. Records of these wells were finally obtained, and having taken surface levels an approximate contour diagram of the top of the Trenton formation was constructed (see Figure 5). The following logs are of some of the wells drilled west of Milton.

Log of Well, Brandon Brick-yard, East Half Lot 15, Concession I, Trafalgar Township, (new survey). (W. I. Dick, County Crown Attorney, Milton, Ont.)[1]

about 75 yards from the pit where Red Medina shale is being dug for the works (C.W. Knight. Ont. Bur. Mines Vol XXI Pt. I p. 35)

	Thickness. Feet.	Depth. Feet.
Surface	8	8
Queenston (Red Medina) shale	277	285
Richmond and Lorraine (Hudson River) shale	795	1,080
Utica (including Collingwood) shale	120	1,200
Trenton	265	1,465
Oil was struck at	....	1,443

or 247 feet in the Trenton. Well was shot and flow deminished at once.

Knight says (Ont Bur Mines 1912 p 35) well pumps 4 or 5 bbl. day

Another version of the record of this well is given by M. Crewson who was one of the drillers.

	Thickness. Feet.	Depth. Feet.
Surface	8	8
Queenston shale (Red Medina)	275	283
Richmond and Lorraine (Hudson River)	753	1,036
Utica shale (including Collingwood)	109	1,145
Trenton	322	1,467
Oil at	....	1,447

or 302 feet in the Trenton.

The following logs were furnished by M. Crewson.

Log of Well, Brandon Brick-yard, about 500 feet Southwest of the Last, East Half Lot 14, Concession I, Trafalgar township.

E 1/2 lot 14 Con I Trafalgar

	Thickness. Feet.	Depth. Feet.
Surface	5	5
Queenston (Red Medina) shale	305	310
Richmond and Lorraine (Hudson River)	753	1,063
Utica (including Collingwood) shale	109	1,172
Trenton limestone	640	1,812
"Potsdam" sandstone	5	1,817
Granite	3	1,820

A little gas at depth of 300 feet which was all gone on the second day.

Log of Greenles Bros. Well, Just North of Canadian Pacific Railway Station, Milton.

lot 14 Con II ??

	Thickness. Feet.	Depth. Feet.
Soil, sand, and gravel	58	58
Queenston (Red Medina) shale	177	235
Richmond and Lorraine (Hudson River)	750	985
Utica (including Collingwood)	115	1,100
Trenton limestone	600	1,700

Red granite at bottom.

Flow of gas at 1610-1620 feet, which is supplying three families for domestic use.

Unfortunately no record was obtainable of a well drilled on Mr. McCannell's farm near the Esquesing-Trafalgar boundary, on concession II, Esquesing. All that is known of this well is that it stopped at the Trenton.

From the records of the other deep wells, and by estimating the depth to the Trenton from the base of the Queenston (Red Medina) shale, as obtained from a drill-

[1] Ont. Bureau of Mines, 24th Ann. Rept., pt. II, p. 39. Modified by the author.

core at the brick-yard on lot 1, concession 1, Esquesing township, the accompanying structure diagram of a limited area of the Trenton has been drawn (Figure 5). This indicates a dome or terrace with its probable apex about 1¼ miles northwest of the centre of Milton, and not far from the McCannell well which did not penetrate the Trenton. In view of the fact that no water has been reported from the Trenton formation, it is probable that such accumulations of oil and gas as occur have been produced by gravitation toward basin structures. This theory is supported by the fact that the two gas producing wells are located on structure lower than that at the "oil well" of the Brandon brick-yard. However, the wells drilled on lower structure to the south and west of the "oil well" produced neither gas nor oil. If further explorations are to be carried on, it would seem advisable to drill away from the indicated dome.

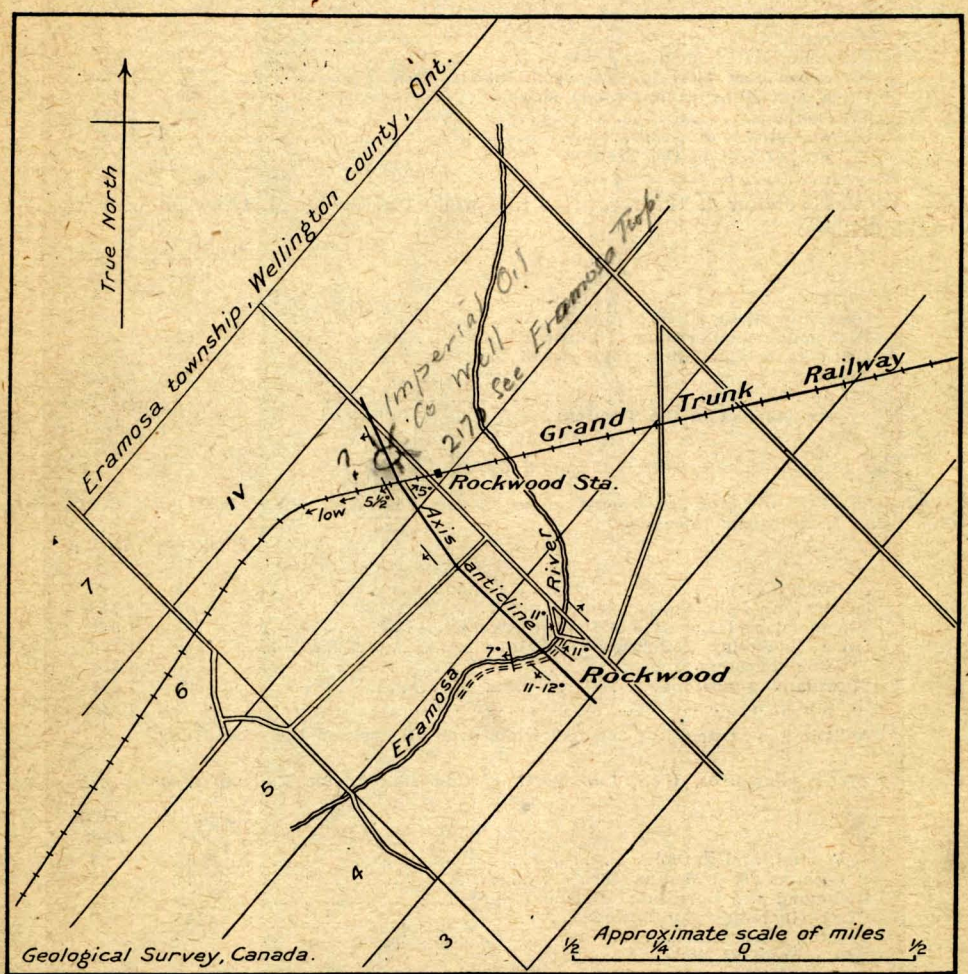

Figure 6. Sketch map of Rockwood and vicinity, showing anticline at top of Niagara.

Factors relating to the probable occurrence of a commercial oil pool near Milton should be carefully considered. Gas was obtained in the Greenles well north of Milton at 1,610 to 1,620 feet from the surface, or 510-520 feet in the Trenton, and actually at a lower elevation than the oil horizon of the Brandon brick-yard. This is an indication, either that there are different oil and gas horizons or that the porosity of the Trenton is variable, and that the formation is "pockety." As already stated, in most

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Oxford County—Continued			
Beachville. Furnished by W. R. Rogers. South half l. 18, con. II, North Oxford tp., one mile west of village:			
Surface deposits	8	8	
Corniferous			
Limestone, grey, blue and light brown	232	240	
Onondaga			
Dark coloured limestone or dolomite, gypsum and blue shales	500	740	
Guelph and Niagara			
Dolomite, grey, light, brown and blue	226	966	
Niagara			
Soft blue shales	34	1,000	
Clinton			
Light brown dolomite	25	1,025	
Medina			
Blue to greenish and soft shale	65	1,090	
Calcareous sandstone	35	1,125	
Red shales	440	1,565	
Hudson River			
Blue shales	610	2,175	
Utica			
Black bituminous shales	85	2,260	
Trenton			
Limestone, light brown to whitish	529	2,789	
Granite at 2,789.			
Top of well 893 feet above sea level.			
Halton County			
First well in Halton County			
Milton, Trafalgar tp., l. 10, con. I (Geol. Sur. Can., Vol. V, Part II, p. 30Q): drilled in 1860? prob 1866 See Hunt			
Soil	47	47	
Red shale	200	247	
Blue shale	159	406	
Trafalgar tp., new survey, east half l. 15, con. I (W. I. Dick, County Crown Attorney, Milton, Ont.).			
Red Medina	285	285	1,447 Oil
Hudson River shale	795	1,080	
Utica shale	120	1,200	
Trenton	265	1,465	
Esquesing tp., west half l. 2, con. II (W. I. Dick, County Crown Attorney, Milton, Ont.):			
Gravel	40	40	
Medina sand	166	206	
Hudson shale	728	934	
Utica shale	114	1,048	
Nassagaweya tp., east half of l. 3, con. VII (R. Boyd):			
Sand and gravel	73	73	368 Gas
Red Medina shale	217	290	
White Medina shale	69	359	
"Sand"	9	368	
Another well was drilled about 1,000 feet west of this well; the record of it is as follows:			
Sand and gravel	63	63	1,710 Gas
Red Medina shale	240	303	1,725 ,,
White Medina shale	15	318	5,000 cu. ft. daily

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Halton County—Continued			
Hudson shale	835	1,153	
Trenton	667	1,820	
Slate	5	1,825	
Pre-Cambrian			
Red granite or gneiss	30	1,855	
Coarse-grained mica schist	45	1,900	
Wentworth County			
Hamilton, off Clyde Avenue West (Ont. Bur. Mines, Vol. XV, Part I, p. 112):			
Medina, Hudson River, Utica.			
Red, blue and black shales	1,250	1,250	
Trenton			
Limestone	710	1,960	
Bottom of well in pre-Cambrian at 1,960 feet.			
Top of well 290 feet above sea level.			
Flamborough East tp., l. 8, con. VIII (Geol. Sur. Can., Vol. V, Part II, p. 30Q):	.....	465	340 Oil
NOTE.—The drilling was begun in either the base of the Guelph or summit of the Niagara formation, the whole of which, with the underlying Clinton, was probably traversed. The boring at 465 feet was in the Medina formation. Small quantity of oil is said to have been obtained at 340 feet.			
Barton tp., l. 17, con. V (Geol. Sur. Can., Vol. V, Part II, p. 31Q):			
Surface	14	14	
Niagara and Clinton			
Limestone	70	84	
Sandstone	7	91	
Medina			
Red shale	634	725	
Hudson River and Utica, with probably the lower part of Medina			
Blue shale	593	1,318	
Top of well 300 feet above Lake Ontario.			
Hamilton, Royal Hotel (Geol. Sur. Can., Vol. V, Part II, p. 31Q):			
Depth of well	.....	1,000	
No record of well is available.			
Dundas, in the valley below the railway station (Geol. Sur. Can., Vol. V, Part II, p. 31Q):			
Surface	80	80	
Red shale	400	480	
Blue shale	550	1,030	
Black shale	400	1,430	
Limestone	220	1,650	
The rocks penetrated include the Medina, Hudson River and Utica and Trenton formations. Small quantities of gas were met with at various points.			
Barton tp., lot 11, con. VII (Geol. Sur. Can., Vol. V, Part II, p. 32Q):			
Niagara and Clinton			
Limestone with a little shale	250	250	700 Oil
White sandstone	5	255	780 "

Chapter IV: Peel County

The Harkness Files
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PEEL CO.

Several years ago four wells were drilled near Cooksville on the Gordon Romageau, John Price and Shephard farms respectively. These have been abandoned. In Aug 1913 a gas well was obtained on the Romageau farm.

The fourth well in this County was drilled on the Shephard farm near the Hydro Elect power sta. to a depth of 1350'. No logs available but the well is presumed to have penetrated through the Lorraine to the Potsdam. The log by Thos E. Bull is as follows.

Log of well on Shephard farm at Cooksville HEPC power station

Surface	5	5	
Lorraine shale grey	555	560	Gas @ 300 psi @ 1205
Utica brown shale	150	710	
Trenton limestone	600	1310	
Potsdam sandstone	45	1355 ~~1205~~	

- Two other wells were drilled at Cooksville by Mr Bull

R.P. No. 1. - 300 psi ~~No. 2. - 200 psi~~ Open flow 350 mcf

R.P. No. 2. 200 psi Open flow 100 mcf

The village of Cooksville has been piped for gas but never used. Recently a well said to have a flow of 1000 mcf has been found ???

ALBION TWP

Pat Sullivan
E½ lot 17 Con I
Comp June 15th 1925 Dry

Surface	550
Blue shale	250
Limestone	300
	1100

Section I: Caledon Township

Chapter IV: Peel County

The Harkness Files
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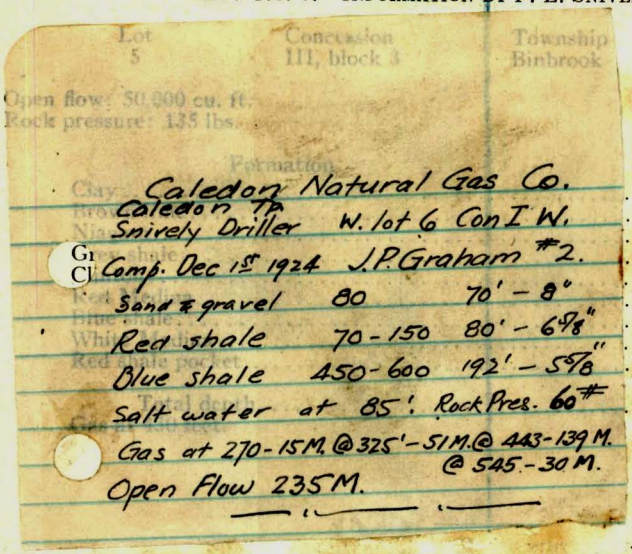
LOG NO. 3.—INFORMATION BY F. L. SNIVELY, HAMILTON



County
Wentworth

Completed March 21, 1922.

	Thickness of Formation	Total Depth (feet)
	80 feet	
	70 "	150
	115 "	265
	40 "	305
	30 "	335
	35 "	370
	55 "	425
	10 "	435
	30 "	465
	465 feet	

LOG NO. 4—INFORMATION BY A. MCARTHUR, DUNNVILLE, ONT.

Dover Oil Co.

Lot	Concession	Township	County
5	I—W.C.R.	Caledon	Peel

Geo Henry Form. #1

Open flow: 300,000 cu. ft. Driller Snively
Rock Pressure: 60 lbs.

Completed June 2, 1922.

Formation	Thickness of Formation	Total Depth (feet)
Gravel (Casing)	39 feet	
Red shale 50' - 5"	76 "	115
Hudson River 200' - 6 1/4"	590 "	705
Utica	175 "	880
Trenton	55 "	935
Total depth	935 feet	

Gas at 204, 284, 330, 375, 555 and 935 feet.
Open Flow Aug 1924 - 200 M.
" " Nov 1924 — 190 M.

LOG NO. 5—INFORMATION BY F. L. SNIVELY, HAMILTON, ONT.

Dover Oil Co.

Lot	Concession	Township	County
6	I—W.C.R.	Caledon	Peel

J. Graham #1. Elev. ~~897~~ 904

Open flow: 475,000 cu. ft, Driller Snively
Rock pressure: 62 lbs.

Completed Aug. 15, 1922.
Deepened Dec 1st 1924

Gas blew down in few days. Well dead.

Formation	Thickness of Formation	Total Depth (feet)
Gravel, river sand and quicksand	141 feet	
Lime	20 "	161
Grey shale with lime shells	~~459~~ ~~474~~ "	620 ~~635~~
Utica black shale	155	775
Total depth. Hard shale	85 ~~635~~ feet	860
Gas at 460, 480 and 533 feet. Trenton	490	1350
???	95	1445
Grey Granite	4	1449

Gas at 460 - 20 M
" " 480 - 91 M
" - 553 - 364 M
Salt water 178'

Peel County

UNIVERSITY OF TORONTO, TORONTO
Lot 4, con. I W., Caledon tp.
Completed February 22, 1927. *Geo Henry #3.*
Open flow: 15,000 cu. ft. *Driller McKillop*
Rock pressure: 37 lbs.

Formation	Thickness, ft.
Gravel	30
Gravel and sand	11
Red shale	78
Hudson River	487
Total depth	606

Gas at 176, 336, 352, and 550 feet.
Show 15M small

. McLISTER, DUNNVILLE

ownship	County
anboro	Haldimand

Completed Feb. 7, 1922.

Formation	Thickness of Formation	Total Depth (feet)
	57 feet	
	153 "	210
	200 "	410
	50 "	460
	41 "	501
	30 "	531
	38 "	569
	60 "	629
	12 "	641
	35 "	676
	676 feet	

UNIVERSITY OF TORONTO, TORONTO
Lot 4, con. I W., Caledon tp.
Completed August 1, 1927. *Geo Henry #4*
Open flow: 40,000 cu. ft. *McKillop driller*
Rock pressure: 37 lbs.

Formation		Thickness, ft.
Surface	*39' - 8"*	10
Sand and gravel	*209 - 6 1/4"*	15 *- 25*
Queenston red shale		105 *-130*
Dundas blue shale		475 *- 605*
Total depth		605

Gas at 235, 340, 370, 440, and 590 feet. *Fresh water @ 70 and 115*
show 40M show show

McCUTCHEON, DUNNVILLE

wnship,	County
anboro	Haldimand

Dry

Completed June 20, 1922.

There is another well on N.W. corner East half lot 4 Con I W Caledon twp on the Kidd farm. Log about the same as #2 Henry. Surface much deeper as there was no red shale. Open flow about 50M

Formation	Thickness of Formation	Total Depth (feet)
Surface	100 feet	
Lime and shale	103 "	203
Niagara	220 "	423
Shale	50 "	473
Clinton	30 "	503
Red Medina	45 "	548
Grey shale	55 "	603
White Medina	12 "	615
Red shale	5 "	620
Total depth	620 feet	

Anglo Sudbury Mines Ltd began a well on W½ lot. 3. Con I/East [illegible] Giffen farm
surface 270 ft quicksand
Red Shale 50 "
not completed

LOG No. 8—INFORMATION BY T. J. McCUTCHEON, DUNNVILLE

Lot	Concession	Township	County
9	II	Canboro	Haldimand

Open flow: 68,000 cu. ft.

Completed May 26, 1922

Formation	Thickness of Formation	Total Depth (feet)
Surface	94 feet	
Lime and shale	107 "	201
Niagara	225 "	426
Shale	50 "	476
Clinton	30 "	506
Red Medina	45 "	551
Grey shale	55 "	606
White Medina	16 "	622
Red shale	50 "	672
Total depth	672 feet	

Gas at 531 and 616 feet.

Log No. 101.—Dominion Natural Gas Co., Brantford
Lot 8, con A, Walsingham S. tp.

Completed November 24, 1925.
Open flow: 36,000 cu. ft.
Rock pressure: 490 lbs.

Formation	Thickness, ft.
Surface	315
Lime	175
Flint	110
Sharp sand	45
Lime and shale	355
Niagara lime	255
Shale	69
Clinton	20
Red Medina	50
Grey shale	64
White Medina	8
Red shale	2
Total depth	1,468

Gas at 1,259 feet.

Log No. 102.—Dominion Natural Gas Co., Brantford
Lots 14, 15, con. A, Walsingham S. tp.

Completed August 26, 1925.
Open flow: 83,000 cu. ft.
Rock pressure: 368 lbs.

Formation	Thickness, ft.
Surface	274
Lime	176
Flint	110
Sharp sand	40
Lime and shale	375
Niagara lime	241
Rochester shale	57
Clinton	20
Red Medina	29
Grey shale	33
Total depth	1,355

Gas at 1,287 feet.

Log No. 103.—Dominion Natural Gas Co., Brantford
Lot 17, con. VI, Woodhouse tp.

Completed June 23, 1925.
Dry hole.

Formation	Thickness, ft.
Surface	63
Flint	78
Lime and shale	400
Niagara	293
Grey shale	34
Clinton	25
Red Medina	35
Grey shale	62
White Medina	10
Big red shale	2
Total depth	1,002

Peel County

500 E 350 S

Log No. 104.—Patrick Sullivan, Toronto
Lot 17 E. ½, con. I, Albion tp. No Fresh
Wm Baker Farm. Salt water-590
Completed June 15, 1925. rises 500'
Dry hole.
450' - 8"
500' - 6"
550' - 4"

Formation	Thickness, ft.
Surface	550
Blue shale	250
Limestone	300
Total depth	1,100

another log.
3 N.G.
Surface — — 530
Blue Shale — — — 170 - 700
Black shale — — — 100 - 800
Trenton — — — 400 - 1200

Welland County

Log No. 105.—Provincial Natural Gas Co., Niagara Falls
Lot 21, con. I, Cassidy's Point, Humberstone tp.

Completed October 3, 1925.
Open flow: 25,000 cu. ft.
Rock pressure: 60 lbs.

Formation	Thickness, ft.
Salina and Lockport	683
Rochester	42
Clinton	17
Cabot Head shale	3
Red Medina	65
Manitoulin	47
Whirlpool	11
Queenston	47
Total depth	915

Gas in White Medina.

Log No. 106.—Sterling Natural Gas Co., Port Colborne
Lot 33, con. I, Humberstone tp.

Completed August 21, 1925.
Open flow: 35,000 cu. ft.
Rock pressure: 375 lbs.

Formation	Thickness, ft.
Surface	10
Flint	50
Brown lime	60
Lime and shale	320
Niagara	225
Shale	50
Clinton	30
Red Medina	43
Grey shale	55
White Medina	18
Red shale	51
Total depth	912

Gas at 715 and 851 feet.

Log No. 107.—Sterling Natural Gas Co., Port Colborne
Lot 32, con. I, Humberstone tp.

Completed December 28, 1925.
Open flow: 10,000 cu. ft.
Rock pressure: 295 lbs.

Formation	Thickness, ft.
Surface	11
Flint	50
Brown lime	60
Lime and shale	321
Niagara	225
Shale	50
Clinton	30
Red Medina	45
Grey shale	56
White Medina	18
Red shale	52
Total depth	918

Gas at 717 feet.

Log No. 108.—Sterling Natural Gas Co., Port Colborne
Lot 32, con. I, Humberstone tp.

Completed October 26, 1925.
Dry hole.

Formation	Thickness, ft.
Surface	8
Flint	60
Brown lime	50
Lime and shale	327
Niagara	230
Shale	50
Clinton	30
Red Medina	45
Grey shale	64
White Medina	4
Red shale	3
Total depth	871

Log No. 109.—Sterling Natural Gas Co., Port Colborne
Lot 1, con. I, Wainfleet tp.

Completed June 2, 1925.
Open flow: 30,000 cu. ft.
Rock pressure: 295 lbs.

Formation	Thickness, ft.
Surface	20
Flint	50
Brown lime	65
Lime and shale	300
Niagara	225
Shale	55
Clinton	30
Red Medina	45
Grey shale	55
White Medina	20
Red shale	2
Total depth	867

Gas at 730 and 847 feet

Log No. 110.—Sterling Natural Gas Co., Port Colborne
Lot 1, con. I, Wainfleet tp.

Completed March 28, 1925.
Open flow: 30,000 cu. ft.
Rock pressure: 375 lbs.

Formation	Thickness, ft.
Surface	9
Flint	90
Brown lime	50
Lime and shale	296
Niagara	230
Shale	50
Clinton	30
Red Medina	40
Grey shale	53
White Medina	18
Red shale	46
Total depth	912

Gas at 740 and 862 feet.

Wentworth County

Log No. 111.—Premier Development Co., Toronto
Lots 20, 21, con. IV, Ancaster tp.

Completed September, 1925.

Formation	Thickness, ft.
Clay	95
Grey lime	85
Brown lime	35
Niagara	90
Grey shale	45
Clinton	5
Blue shale and Red Medina	20
Blue shale	65
White Medina	15
Red shale	570
Utica shale	85
Black shale	5
Hudson River	590
Black shale	145
Hudson River	30
Trenton	35
Total depth	1,915

Section II: Chinguacousy Township

Chapter IV: Peel County

The Harkness Files
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Well in town of Brampton
700ft N.W. from C.P.R. Station.
M.E. HAYDEN. Brampton
J.W. McCutcheon Driller Contractor
Thos. Coy Driller
J. Jeans Property Owner
Dec 1909 to Jany 1910.
Elev. 723. Show of Gas.

Surface	55 - 55
Grey Calc. shale.	345 - 400
Grey shale	450 - 850
Black shale	100 - 950
Trenton Limestone	450-1400
Show of gas.	1460

Total depth (Arkose?) 1575

Gas at 300' and 1460
Fresh water @ 45 rises 6' from surface
Salty " @ 200'
Casing 415' of 4 5/8
Log from Borings Divn who have 30 samples.

INFO. A E Hoover driller
lot 16 Con I NOS. Toronto Twp
Sept 1910 Elev.

Surface	4	4
Hudson River	603	607
Utica	178	785
Trenton	605	1390
Arkose?	32	1422
Granite	3	1425
	1425	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued			
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	321	321	321 Gas
"Medina"			
Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
*Tiny tp., l. 14, con. XIV:			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
arrie (Geol. Sur. Can., Summary Report, 1912, p. 300):			
Surface deposits	375	375	
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.			
Chinguacousy Tp. Town of Brampton Depth of Well 1575			
Peel County			
*Br			
CAMPBELL'S CROSS OIL SYNDICATE Lot 25, con. I E., Chinguacousy tp. Completed September 27, 1934. Dry hole.			
Osp — Formation: Surface 100; Red shale 50; Hudson shale 720; Utica shale 75; Trenton 595; Potsdam 10; Granite 182; Total depth 1,732. Show of gas at 555 feet. Fresh water at 103 feet; mineral water at 1,732 feet.		ır. Mines),	
	6	6	1,361 Gas
	6	12	1,760 to 1,765 Oil
	170, white 170 to 195, nd a little		
	183	195	
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales		1,160	

Well was drilled in the 60's on the farm of Prof Walker's father E½ lot 3 Con V. East Chinguacousy Tp no details

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q):			
Depth of well, 550 feet; small show of gas.			
St. Vincent tp., l. 25, con. VII (B. Doran):			
Clay and gravel	18	18	
Blue shale	162	180	
Dark blue shale	70	250	
Black shale	10	260	
Grey rock	5	265	
Black shale	2	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	3	274	
Black shale	2	276	
Grey rock	5	281	
Trenton	423	704	
*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:			
Surface	6	6	
Rock	29	35	
Blue shale	7	42	
Red shale	90	132	
Middle limestone	17	149	
Soap rock	556	705	
Black shale	30	735	
Trenton limestone	469	1,204	
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface	14	14	
Limestone	190	204	
Slate	10	214	
Red rock	50	264	
Slate	20	284	
Limestone		344	
Slate		364	

Name of Gas or Oil Co. R L Killins — Year 1924

Address Dunnville — Co. Well No. 2

Location, County PEEL — Tp. TORONTO — Con. III N — Lot 12 — Pt. Lot W 1/2

Driller Palenko Bros — Address — Prop. Owner G H Wilson

Date commenced — Date completed 17 Aug 24 — Elev. 580 ± 1 — Acres 100

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface	45	45
Grey Shale	695	740
Black "	125	865
Brown & grey lime	225	1090
Brown & grey shaly lime	380	1470
Sandstone coloured	45	1575
Anhydrite	20	1535
Granite	1	1536

WATER RECORD

Kind	Depth	Ft. Rises
Fresh	14	-
"	65	51

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION

~~506 N 456 E~~ N

2622 N of S Road

568' E

W. E.

S.

Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. Initial Gas Yield M. cu. ft./day

Rock Pressure dry lbs. After being shut in Days

1st Gas or Oil ft. Flow cu. ft. or bbls./day

2nd " " " " " " " " " "

3rd " " " " " " " " " "

4th " " " " " " " " " "

5th " " " " " " " " " "

6th " " " " " " " " " "

Chapter V: Simcoe County

The Harkness Files
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SIMCOE CO.

Prince Edward County.

No oil or gas in commercial quantity will be found in Prince Edward county, since it is occupied at the surface entirely by limestones of Trenton age, underlying the glacial drift, and since these formations have no suitable cover, they can contain only small and unimportant showings of gas.

Rainy River District.

This district, like other districts of northwestern Ontario, is entirely unfavourable for oil or gas, since it lies in a portion of the Province where the rocks are of Laurentian and Huronian age and are unsuitable for containing oil or gas.

Renfrew County.

Conditions in Renfrew county are not at all favourable for oil or gas, and it is quite certain that neither of these substances exists in quantity. The geological formations consist for the most part of Laurentian rocks, except in a few isolated localities, where the Chazy formation and limestones of Birdseye or Black River age exist.

Russell County.

No oil or gas pools exist in Russell county, since the geological conditions are very unfavourable. The formations in the west-central part of the county consist of Lorraine shales, surrounded by outcrops of Utica in certain places. Trenton limestone, with its associated Birdseye and Black River limestones occupy most of the remainder of the county. There are, however, small areas of Chazy rocks in the extreme north and south. Underlying conditions are somewhat complicated and wells would pass through rocks of various types, none of which are expected to be productive.

Notwithstanding the unfavourable conditions in this county, the Standard Oil Company drilled three holes in Cumberland

F.C. CLAPP MINES BRANCH 1915
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township some years ago in the triangular area some five miles in extent, along the line of the Grand Trunk railway which runs to Montreal. It was naturally desired to find a supply of natural gas for Ottawa. The entire series of sedimentary rocks was penetrated as deep as the Potsdam formation, when drilling was discontinued on account of the great hardness of the sandstone encountered. Other borings did not reach below the upper part of the Trenton. Very small showings of natural gas were found.

Simcoe County.

General statement.—No oil or gas fields of commercial value have ever been found in Simcoe county, although a large amount of drilling has been done for salt, as well as for water and gas. Some light wells exist in the vicinity of Collingwood, but they are only sufficient in volume for supplying one or two residences.

History of developments.—While oil shale does not belong within the province of this report, it seems pertinent to mention that some attempt was made, commencing in 1859, for distilling oil from shale. In the year mentioned, works for shale were erected near Collingwood in Simcoe county, and seemed to have been for a time successful. The Utica shale was used, being quarried on lot 23, concession III, Collingwood township in Grey county.

Drilling for oil in Simcoe county was started as far back as 1888 when a well was sunk on lot 16, on the west side of Peel street, Collingwood, to a depth of 553 feet. Showings of gas were found, and other wells were subsequently drilled in Collingwood and its immediate vicinity, the depths ranging from 350 to 550 feet, but none of them obtained more than a showing.

At Collingwood and vicinity about a dozen wells have been drilled for oil and gas at various times since 1887. The deepest well in the town is presumed to be the well of E. R. Carpenter near the corner of Third and Oak streets, which was the second well drilled and was 541 feet deep, striking granite at 540 feet. A little gas was encountered at 144 feet from the surface. This well and another owned by Mr. Car-

Barrie artesian wells have been sunk to 276 feet
water rises 20' above Lake Simcoe No gas

Bradford surface reported 330'

penter measured rock pressures of 18 to 45 pounds at the time the wells were drilled, the figures being taken from a diary kept by Mr. Carpenter. The volume, after being in use for two years, is reported to have measured 750 cubic feet in 24 hours, being exceeded by only one well in the town, which registered 756 cubic feet in 24 hours.

Several wells in the town have been abandoned, but some of them are still in use for lighting houses, and in one individual instance, the gas is used in a cook stove. The gas was insufficient for the fireplace or furnace, however. Other wells in Collingwood are situated at the office of the Collingwood Bulletin, at the Globe hotel, and at several residences.

The gas wells at Collingwood are not mentioned as being of any commercial importance, but for the reason that they are of some scientific interest, because the gas comes from the Trenton limestone, which is very productive on the Cincinnati anticline in Ohio and Indiana. Other small gas wells are reported at Delphi and at Craigleigh. An interesting feature of the Collingwood wells is that their flow is affected by the barometric pressure, and the volume is so small in all cases that this can be observed where it would not be possible in the case of more voluminous wells.

At an even earlier date than those at Collingwood, the Lilley well was sunk in the northern part of Beeton, Tecumseh township, to a depth of 1400 feet, but this well—like others—only resulted in showings. Occasionally seepages of gas in the vicinity were presumably responsible for the wells drilled in early days. In some cases water wells sunk in the surface clay at Beeton to a moderate depth had been rendered useless by the influx of gas. Other shallow wells were drilled in 1909 and 1910 near the village to the underlying granite, this being found at 540 feet in E. R. Carpenter's well at Collingwood, and 300 feet at Orillia, but it was not reached by the deep 1400-foot well at Beeton.

Possibilities for the future.—Since slight showings of gas are rather widely distributed throughout certain parts of Simcoe county, it might be supposed that there would be a chance of developing some field of importance in this county. It is be-

Well drilled 3/4 mile West of Barrie in 1910. Elev. 41' above Lake Simcoe
About 760' above Sea Level

Dry Hole.

Sandy Loam	30	30
Sand & boulders	50'	80
Clay hard no rock or grit	20	100
Gravel and sand	40	140
Clay	15	155
Fine sand or silt	45	200
Coarse sand & gravel	30	230
no information	85	315
Boulder clay	30	345
White shale ??	30	375
Trenton Limestone (nearly)	200	575 ?
Arkose coarse sand stone with beds of red & blue shale	20	595 ?

~~Another record gives Surface 280 feet~~

liev ... very
cou ... ntity
is se ... y no
possi ...

conc ... gical
the ... s in
lime ... nton
and ... hern
med ... ter-
Rive ... lack
with ... ated

... con-
ditions are entirely unfavourable for oil or gas. The surface formations are mainly of Huronian and Laurentian age.

Thunder Bay District.

Thunder Bay district lies in a portion of Ontario which is mainly occupied by formations of Laurentian, Huronian, Nipigon, and Animikie age, which are entirely unfavourable for containing oil or gas, and where it is useless to drill for oil or gas. A very small area in the extreme northeastern corner of the district is reported on some reconnaissance maps to consist of Silurian rocks; but no oil or gas should be expected in quantity there.

Victoria County.

This county is one of the unfavourable ones, since the formations at the surface consist mainly of limestones of Trenton age, but at the northern end of the county is a small area where

Section I: Adjala Township

Chapter V: Simcoe County

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SIMCOE

WELLINGTON INDUSTRIAL SECURITIES, LTD.

A. Breedon No. 2, lot 21, con. III, Adjala tp.

Driller: Demaray and Nichols.
Completed September 24, 1949.
Dry hole.

Formation	Depth, ft.
Surface	180
Grey and blue shale	295
Black shale	365
Trenton	970
Granite	973

Show of gas at 218 feet.
Show of oil at 787 feet.
Fresh water at 70 and 180 feet; salt water at 478, 562 to 567, and 618 feet.

WELLINGTON INDUSTRIAL SECURITIES, LTD.

E. Skeels No. 1, lot 20, con. III, Adjala tp.

Driller: Demaray and Nichols.
Completed August 16, 1949.
Dry hole.

Formation	Depth, ft.
Surface	225
Blue shale	297
Black shale	374
Trenton lime	971
Granite	973

Fresh water 180 to 190 feet; salt water at 583

GEORGE HEROUX IN TRUST[1]

D. Smith No. 1, lot 11, con. III, Essa tp.

Elevation: 750+2 ft.
Driller: E. Hirons.
Drilled: 1949.
Result: dry hole.

Formation	Depth ft.
Surface	400
Sherman Fall limestone	525
Rockland-Hull limestone	575
Leray limestone	595
Lowville limestone	665
Pamelia limestone	700
Precambrian granite	2,000

Show of gas at 710 ft.
Show of oil at 460, 680, 800, 915, and 1,178 ft.
Fresh water at 110, 210, and 290 ft.

[1]This well, begun in 1949, was not completed until 1950. Because of incomplete records the log has not been available for publication until the present volume.

Section II: Gwilimbury Township

Chapter V: Simcoe County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

See Tecumseth Tp.

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued Lilley Well	1882 or 1883		
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	321	321	321 Gas
"Medina"			
Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
*Tiny tp., l. 14, con. XIV:			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
Barrie (Geol. Sur. Can., Summary Report, 1912, p. 300):			
Surface deposits	375	375	Surface
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.	200 20	575 595	Trenton Arkose
2 miles north of Edgar on the Orillia Barrie Highway			
Peel County	377 feet water in sand. Not bedrock		
*Brampton:			
Depth of well, 1,575 feet.			
BRADFORD **Grey County** Surface reported 330'			
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales		1,060	
Utica			
Black shales		1,160	

Artesian wells have been sunk to 276'. water rises 20' above Lake Simcoe no gas

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County Elev. from G.S.C. Vol. IV. p. 76.5. Statistics 1889.			
Collingwood (Geol. Sur. Can., Vol. V, Part I, pp. 26-27Q): 1888			
Well No. 1, lot 16, west side Peel street Elev. 600			
Surface	10	10	140 Gas
Trenton			160 ,,
Limestone to Granite	543	553	
Gas was struck in small quantities at 140 and 160 feet.			
Well No. 2, lot 21, east side Oak street Elev. 600'			
Soil	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet.			
Well No. 3, about half a mile S.E. of No. 2 Elev 600'			
Soil	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood Elev 590' #4 ?			
Trenton			
Limestone	351	351	150 Gas
Gas met with at 150 feet, about 2,000 cubic feet per day.			
Orillia (Geol. Sur. Can., Vol. V, Part II, p. 28Q):			
Surface deposits	170	170	
Trenton			
Limestone	130	300	
Numerous wells have been sunk in the town of Barrie to depths of 250 to 276 feet. Gas was not noticed. (Geol. Sur. Can., Vol. V, Part II, p. 28Q.)	Artesian water rises 20' above Lake Simcoe		

Simcoe County

M. Stobie

J. F. Hambly No. 1, lot 21, con. X, West Gwillimbury tp.

Completed December 20, 1945.
Dry hole.

Formation	Depth, ft.
Surface	180
Trenton	779
Granite	780

Small show of gas at 312 feet.
Small show of oil at 550 feet.
Fresh water at 40, 90, and 178 feet.

Malcolm Stobie

B. Roberts No. 1, lot 18, con. XI, West Gwillimbury tp.

Completed July 26, 1945.
Dry hole.

1500 N 800 E

Formation	Depth, ft.
Surface	247
Trenton	920

Show of gas at 860 feet.
Fresh water at 40, 100, and 237 feet.

.....	2	209
.....	2	271
.....	2	274
.....	3	276
.....	2	281
.....	5	704
	423	
Sound;		
.....		6
.....	6	35
	29	42
.....	7	132
.....	90	149
.....	17	705
.....	556	735
.....	30	1,204
	469	
nished		
.....		14
.....	14	204
	190	214
.....	10	264
.....	50	284
.....	20	344
		364
Slate		

Simcoe County

M. Stobie
J. F. Hambly No. 1, lot 19, con. XI,
West Gwillimbury tp.
Completed April 30, 1946.
Dry hole.

1874 N & 15 W

Formation	Depth, ft.
Surface	160
Trenton	230
Grey lime	430
Brown and grey lime	730
Grey lime	840

Fresh water at 40 and 220 feet.

Section III: Nottawasaga Township

Chapter V: Simcoe County

The Harkness Files
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Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

SIMCOE. CO.

Collingwood Town — Nottawasaga Tp.

Geo Surv Can Vol. V. Pt II p. 26-27 & 29

Well No. 1. west side Peel St

Surface	10	
Trenton lime	543	553

Gas at 140 and 160

Well No. 2. east side Oak St lot. 21.

Surface	2	
Trenton lime	540	542

gas at 160 4 Mcuft no water

Well No. 3. about ½ mile S.E. of No. 2.

Surface	4	
Trenton lime	460	464

Gas at 175. no water

Well in rear of Hurontario flour mill. Eastern part of Collingwood.
McDonalds Flour Mills

Trenton lime 351'

Gas 2 mcuft at 150'

lot 26 Con V. Collingwood Twp

Surface	8	
Utica blackshale	40	48
Trenton limestone	539	587

6 Mcuft gas at 95 ft.

Thornbury Collingwood Twp
Andrews mill. 1888
Geo Sur Can Vol V Pt II p 30 Q

Depth of well 550 ft.
small show gas large flow water
Robt Cherry says. Surface 65 ft.
Trenton at 188 ft. This would give
Black shale 123 ft.

Name of Gas or Oil Co. J T Burton — Year 1955

Address 388 - 6 Church St Minico — Co. Well No. 1

Location, County Simcoe — Tp. Nottawasaga — Con. XII — Lot 33 — Pt. Lot W½ N½

Driller Patterson & Culver — Address Dunnville — Prop. Owner R. Currie #3

Date commenced 10 March — Date completed Apr 13th 55 — Elev. 830+2 — Acres

DRILLERS LOG (Formation)	Thickness	TOTAL
Total Depth		895'
T.D.		895

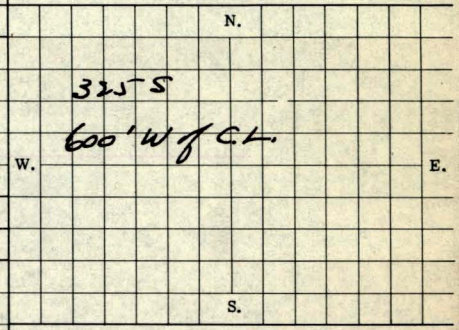
WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION



Type Packer

Size

Set off Bottom feet

Explosive used No. qts. or lbs.

Placed between and ft. from surface

Initial Oil Yield bbls./day. Initial Gas Yield M. cu. ft./day

Rock Pressure lbs. After being shut in Days

1st Gas or Oil ft. Flow Dry cu. ft. or bbls./day

2nd " " " " " " " " " "

3rd " " " " " " " " " "

4th " " " " " " " " " "

5th " " " " " " " " " "

6th " " " " " " " " " "

Name of Gas or Oil Co. _____ Year _____

Address _____ Co. Well No. _____

Location, County SIMCOE Tp. NOTTAWASAGA Con. _____ Lot _____ Pt. Lot _____

Driller Rob't Cheney Address Collingwood Prop. Owner 1/2 mile west of Duntroon

Date commenced _____ Date completed _____ Elev. _____ Acres _____

DRILLERS LOG (Formation)	Thickness	TOTAL
Quicksand	100	
Black shale	60 ft	
Top of Dunkton		207
Total Depth		207

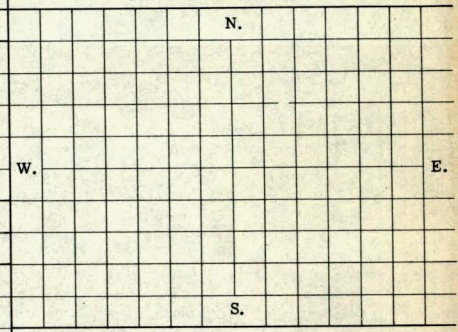
WATER RECORD

Kind	Depth	Ft. Rises

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION



Type Packer _____

Size _____

Set off Bottom _____ feet

Explosive used _____ No. qts. or lbs. _____

Placed between _____ and _____ ft. from surface

Initial Oil Yield _____ bbls./day. Initial Gas Yield _____ M. cu. ft./day

Rock Pressure _____ lbs. After being shut in _____ Days

1st Gas or Oil _____ ft. Flow _____ cu. ft. or bbls./day

2nd " " " _____ " " _____ " " " "

3rd " " " _____ " " _____ " " " "

4th " " " _____ " " _____ " " " "

5th " " " _____ " " _____ " " " "

6th " " " _____ " " _____ " " " "

X

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed June 6, 1928.
Open flow: 17,000 cu. ft.
Rock pressure: 400 lbs.

Formation	Thickness, ft.
Surface	129
Brown and grey lime	129
Flint and lime	92
Lime	40
Shale	395
Niagara	215
Grey shale (Rochester)	64
Clinton	20
Red Medina sand	18
Grey sand	10
Shale (Cabot Head)	81
White Medina	8
Queenston	40
Total depth	1,241

Gas at 1,198 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, gore, Woodhouse tp.

Completed July 17, 1928.
Open flow: 37,000 cu. ft.

Formation	Thickness, ft.
Surface	125
Brown and grey lime	130
Flint	115
Lime	30
Shale	375
Niagara	218
Shale	58
Clinton	23
Red Medina	21
Shale	82
White Medina	8
Red shale	42
Total depth	1,227

Gas at 1,177 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 3, con. III, Woodhouse tp.

Completed September 27, 1928.
Open flow: 4,000 cu. ft.

Formation	Thickness, ft.
Surface	135
Grey and brown lime	85
Flint	120
Lime and shale	395
Niagara	228
Shale	52
Clinton	42
Red Medina	10
Blue shale	76
White Medina	12
Red shale	4
Total depth	1,159

Gas at 1,027 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 2, con. III, Woodhouse tp.

Completed November 17, 1928.
Open flow: 26,000 cu. ft.
Rock pressure: 500 lbs.

Formation	Thickness, ft.
Surface	157
Grey and brown lime	80
Flint	123
Mixed limestone and slate	395
Niagara lime	225
Shale	64
Clinton sand	42
Red Medina sand	8
Blue shale	68
White Medina sand	9
Red shale	3
Total depth	1,174

Gas at 1,059 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed October 24, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	147
Lime	118
Flint	115
Lime	40
Mixed shale	380
Niagara lime	205
Shale	66
Clinton sand	23
Red Medina sand	15
Blue shale	91
White Medina sand	8
Red shale	6
Total depth	1,214

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed September 5, 1928.
Open flow: 134,000 cu. ft.
Rock pressure: 550 lbs.

Formation	Thickness, ft.
Surface	166
Lime	119
Flint	115
Lime	40
Mixed shale	370
Niagara lime	220
Shale	62
Clinton sand	22
Red Medina	15
Blue shale	85
White Medina	12
Red shale	40
Total depth	1,266

Simcoe County

ROBERT CHERRY, COLLINGWOOD
Opposite lot 39, con. V, Georgian Bay shore, Nottawasaga tp.

Completed December, 1928.
Open flow: 200,000 cu. ft.

Formation	Thickness, ft.
Surface	1
Hard grey lime	69
Soft grey shale and lime	18
Hard dark-grey lime	72
Soft lime and shale	65
Hard grey lime	17
Blue shale	1
Hard lime	9
Soft lime	1
Hard lime	17
Very hard lime	18
Soft lime, 1 inch.	
Very hard lime	4
Soft shale	1
Hard white lime	22
Soft shale	12
Hard lime	35
Coarse white sandstone	1
Fine red sandstone	1
Total depth	364

Show of gas at 22, 72, and 214 feet.
Large flow at 315 feet.
Strong flow of salt water at 364 feet.

JACK PERDUE

R. Currie No. 1, lot 33, con. XII, Nottawasaga tp.
Completed November 1, 1940.
Producing gas well.
Rock pressure: 485 lbs.

Formation	Thickness, ft.
Surface	207
Blue shale	58
Black shale	20
Trenton	598
Total depth	883

Gas at 292, 418, 566, and 870 feet.
Oil at 830 feet.
Fresh water at 125 and 175 feet.

Dry hole.

Formation	Thickness, ft.
Surface	58
Guelph lime	95
Lockport	215
Clinton	2
Medina-Cataract	58
Manitoulin	25
Whirlpool—Richmond (Queenston) red shale	450
Lower Richmond and Dundas grey shale	665
Utica and Collingwood grey and black shale	113
Trenton and Black River grey limestone and shale	645
Arkose	38
Pre-Cambrian granite	20
	2,384
Deepened: Granite	286
Total depth	2,670

Wentworth County

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 10, con. V, Glanford tp.
Completed May 23, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	104
Niagara	211
Shale.	
Clinton	12
Shale	35
White Medina	10
Queenston	12
Total depth	384

PRETTY RIVER VALLEY OIL AND GAS CO., LTD.
J. A. Currie No. 1, lot 34, con. XII, Nottawasaga tp.
Completed June 30, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	240
Gravel and shale	75
Trenton	595
Shale and lime	20
Potsdam	11
Granite	1
Total depth	942

Fresh water at 30, 70, and 190 feet.

PRETTY RIVER VALLEY OIL AND GAS CO., LTD.
J. A. Currie No. 2, lot 34, con. XII, Nottawasaga tp.
Completed October 20, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	160
Gravel and shale	130
Trenton	640
Total depth	930

Fresh water at 35, 75, and 200 feet.

PRETTY RIVER VALLEY OIL AND GAS CO., LTD.
J. M. Currie No. 1, lot 33, con. XII, Nottawasaga tp.
Completed August 1, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	205
Shale	45
Trenton	625
Total depth	875

Fresh water at 4 and 70 feet.

PRETTY RIVER VALLEY OIL AND GAS CO., LTD.
R. M. Currie No. 2, lot 33, con. XII, Nottawasaga tp.
Completed September 20, 1941.
Dry hole.

Formation	Thickness, ft.
Surface	225
Black shale	100
Trenton	579
Total depth	904

Fresh water at 12 and 90 feet.

Nottawasaga twp. Collingwood. 1888.

	No. 1. lot 16 W. side Pool St Elev 600	No. 2 lot 21. east side Oak St. Elev 600	No. 3. Half mile SE of No. 2. Elev 600	No 4 In rear of Nurserie's flour mill east end of Collingwood Elev 590
Soil.	10	2	4	—
Trenton	543	540	460	351
Granite	553	542	464	—
Gas at	140 & 160	160	175	150
Quantity cu ft	—	4000		2000
	well shot but filled with water and no casing	no water no casing		

Simcoe County

W. R. McMaster and Son

E. Morrison No. 1, lot 15, con. VII, Nottawasaga tp.

Completed July 15, 1943. EIW 1033'

Dry hole. 500S 350W

Formation	Thickness, ft.
Surface	215
Grey shale	160
Black shale	72
Trenton	418
Total depth	865

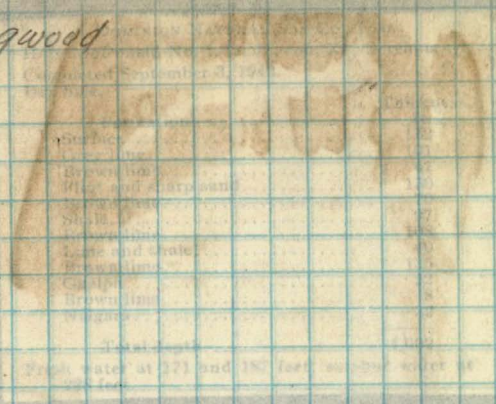
Show of gas at 421, 584 to 587, 620 to 624, and 735 to 737 feet.

Fresh water at 167 and 197 to 215 feet; salt water at 865 feet.

~~J T Burton~~ ~~R Currie #3 lot 33 Con XII 325'S 600'W~~

Elev. 830 ± 5 ~~Completed Apr 13th 55~~ ~~Depth~~ 895' Dry

Oil Shale at Collingwood
lot 23 Con III



Section IV: Tecumseth Township

Chapter V: Simcoe County

The Harkness Files
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Tecumseth tp

Lot 5, con. III Tottenham well on west side of reservoir tank.

Elevation 830'

Gravel	20
Coarse sand	40
Blue sand	60
Blue clay	180
Quick sand	310
Shale clay	350
Black slate stone	450
Trenton	1,042
Total depth	1,100

Dry hole.

Salt water in shale near top of Trenton

Some gas in slate burned 3 ft. above pipe

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Simcoe County—Continued			
Tecumseth Tp. north part of Beeton.			
Beeton (Geol. Sur. Can., Vol. V, Part II, p. 29Q): Lillywell 1882-83.			
Surface	321	321	321 Gas
"~~Medina~~"			Gas from soft sand rock at the base of surface deposits
Dundas { Soft sand rock ... ~~overlying Trenton~~	25	346	
{ ~~Limestone~~ Shale	204 ~~850~~	~~1,196~~ 550	
~~Utica and Hudson River~~			
Trenton ~~Shale~~ & Limestone	850 ~~204~~	1,400	

Obviously incorrect — probable corrections if at all reliable.

NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.

Beeton Jones well at ry. station (Jones Brick yard) (1885) 190 ft. surface gas at base in 3 ft. gravel still flowing in 1929.

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
*Tiny tp., l. 14, con. XIV:			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
Barrie (Geol. Sur. Can., Summary Report, 1912, p. 300):			
Surface deposits	375	375	
The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.	200	575	Trenton
	20	575	Arkose
	-	-	Granite

Village of Tottenham — Drilled by Hilliard Robertson about 192[illegible]. Log by Tom Bates, 168 Gladstone Ave Toronto.

Gravel	20		
Coarse sand	20	40	Saltwater in shale near top of Trenton
Blue sand	20	60	
Blue clay	120	180	
Quick sand	130	310	some gas in slate burned 2' above pipe.
Blue Clay	40	350	
Black slate stone	100	450	
Trenton	592	1042	

Well 1100 ± deep

Peel County

*Brampton:
Depth of well, 1,575 feet.

Grey County

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 } Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q):			
Depth of well, 550 feet; small show of gas.			
St. Vincent tp., l. 25, con. VII (B. Doran):			
Clay and gravel		18	
Blue shale	18	180	
Dark blue shale	162	250	
Black shale	70	260	
Grey rock	10	265	
Black shale	5	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	2	274	
Black shale	3	276	
Grey rock	2	281	
Trenton	5	704	
	423		
*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:			
Surface		6	
Rock	6	35	
Blue shale	29	42	
Red shale	7	132	
Middle limestone	90	149	
Soap rock	17	705	
Black shale	556	735	
Trenton limestone	30	1,204	
	469		
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface		14	
Limestone	14	204	
Slate	190	214	
Red rock	10	264	
Slate	50	284	
Limestone	20	344	
Slate		364	

Section V: Tiny Township

Chapter V: Simcoe County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
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Surface	321	321	321 Gas
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Soft sand rock	25	346	
Limestone	850	1,196	
Utica and Hudson River			
Shale	204	1,400	
NOTE.—The record of this well is imperfect. Gas was obtained from a soft sand rock at the base of the surface deposits, and smaller quantities throughout the rock to a total depth of 500 feet. Another well gave gas at 190 feet at the base of the surface deposits.			
*Tiny tp., l. 14, con. XIV: John. Evans owner Thos B. Keeling driller			
Clay	162	162	
Sand	45	207	
Hard clay	190	397	
Boulders	12	409	
Gravel	3	412	
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The boring continued through nearly 200 feet of the limestones of the Trenton and Black River groups to the pre-Cambrian. At the base and resting on the pre-Cambrian gneiss there were about 20 feet of coarse sandstone or arkose, and interbedded with the sandstone a few feet of reddish and bluish shales.	Trenton 200 Arkose 20	575 595	
Peel County			
*Brampton:			
Depth of well, 1,575 feet.			
Grey County			
Osprey tp., S.E. corner, l. 10, con. XI (Ont. Bur. Mines), 15th Report, Part I, p. 109):			
Surface			
Soil and clay	6	6	1,361 Gas
Gravel	6	12	1,760 to 1,765 Oil
Guelph and Niagara			
Limestone with mud seams; from 130 to 170, white crystalline porous limestone; from 170 to 195, grey limestone, with spathic iron and a little shale	183	195	
Niagara			
Grey blue shales	32	227	
Clinton			
Dark grey, hard limestone	48	275	
Medina			
Red shales	255	530	
Hudson River			
Blue shales and lime shales	530	1,060	
Utica			
Black shales	100	1,160	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Grey County—Continued			
Trenton			
Limestone and shales intermixed in small layers.	30	1,190	
Solid, compact, dark grey limestone, mostly shaly.	563	1,753	
Calciferous			
White calcareous sandstone	12	1,765	
Purple micaceous iron shales	10	1,775	
Grey granite arkose or coarse sandstone	10	1,785	
Red " " "	15	1,800	
Pre-Cambrian			
Granite	1	1,801	
Derrick floor 1,550 feet above sea level.			
Collingwood tp., l. 26, con. V (Geol. Sur. Can., Vol. V, Part II, p. 29Q):			
Surface	8	8	95 Gas
Utica			
Black shale	40	48	
Trenton			
Limestone	539	587	
Gas met at 95 feet; daily flow of 6,000 cubic feet per day.			
Thornbury (Geol. Sur. Can., Vol. V, Part II, p. 30Q):			
Depth of well, 550 feet; small show of gas.			
St. Vincent tp., l. 25, con. VII (B. Doran):			
Clay and gravel	18	18	
Blue shale	162	180	
Dark blue shale	70	250	
Black shale	10	260	
Grey rock	5	265	
Black shale	2	267	
Grey rock	2	269	
Black shale	2	271	
Grey rock	3	274	
Black shale	2	276	
Grey rock	5	281	
Trenton	423	704	
*Northwest corner Sarawak tp., north of Owen Sound; on Goodfellow's farm:			
Surface	6	6	
Rock	29	35	
Blue shale	7	42	
Red shale	90	132	
Middle limestone	17	149	
Soap rock	556	705	
Black shale	30	735	
Trenton limestone	469	1,204	
*Keppel tp., l. 38, con. II, north centre diagonal. Furnished by Imperial Oil Co.:			
Surface	14	14	
Limestone	190	204	
Slate	10	214	
Red rock	50	264	
Slate	20	284	
Limestone		344	
Slate		364	

Chapter VI: Toronto/York

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Clapp 1915

YORK CO.

History of drilling.—Considerable drilling has been done, notwithstanding the unfavourable conditions. Testing began as far back as 1866 or 1867, when a well was sunk at Highland creek in Scarboro township to a depth of 434 feet, but without success. In 1882, a well was sunk for water to a depth of 1,200 feet, in the yard of Coplin's brewery on Parliament street, Toronto, likewise without success. In 1888 to 1891 an attempt was made by the Ontario Bolt Company to obtain gas by drilling to a total depth of 1,261 feet. In 1889 a well was sunk by the government at Mimico in Etobicoke township in search of water, reaching a depth of 1,060 feet, and finding a showing of gas, but without other success.

About 25 years ago a well at the Massey-Harris works, corner of King street and Strachan avenue, was drilled by what was then the Massey Manufacturing Company. The reported depth was about 1,200 feet, and showings of gas were found. A number of other wells with showings have been reported at various times in Toronto and vicinity.

In the early part of 1913 a well was reported to have produced gas on the Van Sickler property at 252 Dupont street, Toronto. The total depth of the well was 1,107 feet, and the flame is reported to have been 12 feet in height before the gas suddenly disappeared, proving that only a pocket had been struck.

Rosebank, a suburb a few miles east of Toronto, has become suddenly active in the gas world. Three high flowing gas wells are reported to have been discovered. The owner of them is a Mr. William Cowan who owns most of the cottages in the suburb.

Formations penetrated.—The geological formations underlying the glacial drift in York county consist at the extreme north end of Trenton limestone. Farther south and occupying a belt one-third of the distance from the north end of the county, is the Utica shale, south of which the Lorraine outcrops over more than half the county, extending to its southeastern corner. The general dip of the formations is from northeast to southwest.

The rocks penetrated in drilling are principally those from the Lorraine shale downward, including the Utica, Trenton

Jarvis Record Aug 24th 1910 Brampton Despatch

There is great excitement at Malton, six miles from here over a strike of natural gas made on Tuesday on the farm of Henry Brocklebank adjacent to the village. The flow is gradually increasing and the drillers believe that the vein and not a pocket has been struck, and that the discovery will be of permanent value. Every night now the villagers have an illumination

Well at Highland Creek
Surface blue clay 48'
Black shale 200
Limestone 434
small show of gas
Ontario Bolt Works Swansea

Copeland's Brewery Toronto
Parliament St (in the yard)
Surface 40'
Limestone 150
Shale 405
Limestone 585 no gas or oil
Arkose 20
1200

and associated limestones. It is unfortunate that few good well records exist, but we have several which are worth mentioning. The best available log appears to be that of the Ontario Bolt Company, drilled between 1888 and 1891 in York township on the east side of the Humber river, three-fourths of a mile from Lake Ontario, penetrating 16 feet into the crystalline rocks. The log of this well is as follows:—

ONTARIO BOLT WORKS SWANSEA 1888-89

Log of well in York township[1]. ¾ mile from Lake shore ¼ mile North of Bolt Works

Elev. 347

Material	*Formation*		*Top Feet*	*Bottom Feet*	
Sand	Pleistocene		0	65	
Quicksand			65	80	
Hardpan		107	80	107	
Grey shale	Lorraine and Utica	440 − 107	107	547	
Black shale		40	547	587	
Grey shale		56	587	643	Salt water at 700'
Limestone		107	643	750	
Soapstone	Trenton	5	750	755	
Limestone		480	755	1235	
Fossil rock		10	1235	1245	
Crystalline rocks		16	1245	1261	
	Total depth			1261	

Another fair well record, not so deep, was sunk in 1889 at Mimico in Etobicoke township by the Ontario government, and reached to the total depth of 1,060 feet. The log is as follows:—

Log of well in Etobicoke township[2].

Material	*Formation*	*Top Feet*	*Bottom Feet*
Surface	Pleistocene	0	7
Blue shale	Lorraine and Utica	7	500
Brown shale		500	723
Limestone	Trenton	723	1060
	Total depth		1060
Shows of gas		425, 575 and	1052
Water			25
Casing			100

Granite is reported in the well of the Massey-Harris Company at a depth of about 1,200 feet.

Statistics of Petroleum and Natural Gas Production in Ontario.

The following table gives the production of crude petroleum of Ontario by districts, for the last five years, as reported by the Deputy Minister of Mines[3].

[1]Brumell, H. P. H., Geol. Survey Canada, Vol. V, Pt. Q, 1889-91, p. 25.
[2]Brumell, H. P. H., Geol. Survey Canada, Vol. V, Pt. Q, 1889-91, p. 24.
[3]Twenty-second Annual Report, Bureau of Mines, Vol. XXII, Part I, 1913.

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York Twp, lot 11 Con III			
York County—Continued			
Surface	38	38	
Hudson River Utica shales	440	478	
Trenton			
Limestone, hard	300	778	
" soft, with shale	185	963	
" hard	146	1,109	
"Arkose" beds	10	1,119	
Pre-Cambrian	641		
Granite	8	1,127	
*Cooksville:			
Depth of well, 1,010 feet.			
Gas in small quantity.			
Mimico (Geol. Sur. Can., Vol. V, Part II, p. 26Q):			
Surface	7	7	425 Gas
Hudson River and Utica			575 ,,
Blue shale	493	500	1,052 ,,
Brown shale	223	723	
Trenton			
Limestone	337	1,060	
Small quantities of gas were obtained at 425, 575 and 1,052 feet.			
Simcoe County			
Collingwood (Geol. Sur. Can., Vol. V, Part II, pp. 26-27Q):			
Well No. 1, lot 16, west side Peel street			
Surface	10	10	140 Gas
Trenton			160 ,,
Limestone	543	553	
Gas was struck in small quantities at 140 and 160 feet.			
Well No. 2, lot 21, east side Oak street			
Soil	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet.			
Well No. 3, about half a mile S.E. of No. 2			
Soil	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood			
Trenton			
Limestone	351	351	150 Gas
Gas met with at 150 feet, about 2,000 cubic feet per day.			
Orillia (Geol. Sur. Can., Vol. V, Part II, p. 28Q):			
Surface deposits	170	170	
Trenton			
Limestone	130	300	
Numerous wells have been sunk in the town of Barrie to depths of 250 to 276 feet. Gas was not noticed. (Geol. Sur. Can., Vol. V, Part II, p. 28Q.)			

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York County			
Highland Creek (Geol. Sur. Can., Vol. V, Part II, p. 24Q):			
Surface deposits (blue clay)	48	48	434 Gas
Hudson River and Utica Shale	200	248	
Trenton Limestone	434	682	
Gas reported in the Trenton.			
Copeland's brewery, Parliament street, Toronto (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface	40	40	
Hudson River Limestone	150	190	
Hudson River and Utica Shale	405	595	
Trenton Limestone	585	1,180	
Arkose	20	1,200	
Pre-Cambrian Granite			
***Vaughan tp., l. 33, con. I:**			
Surface	641	641	
Shale, grey, hard	85	726	
Limestone, grey, hard	119	845	
Shale, black, hard	96	941	
Limestone, grey, soft	90	1,031	
Limestone, dark grey, hard	159	1,190	
Shale, soft	8	1,198	
Granite, red	2	1,200	
Swansea, Toronto (Ontario Bolt Works, east side Humber river) (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface			
Sand	65	65	
Quicksand	15	80	
Hardpan	27	107	
Hudson River and Utica			
Grey shale	440	547	
Black shale	40	587	
Grey shale	56	643	
Trenton			
Limestone	107	750	
"Soapstone"	5	755	
Limestone	480	1,235	
"Fossil rock"	10	1,245	
Pre-Cambrian			
Crystalline limestone	16	1,261	
Top of well 347 feet above tide.			
New Toronto, west side of Seventh street (Geol. Sur. Can., Vol. VI, p. 109S):			
Surface deposits	5	5	780 Gas
Shale, black	640	645	885 „
Limestone	595	1,240	1,089 „
Sandstone and arkose	72	1,312	
York township, l. 11, con. III:			
Surface deposits	38	38	
Hudson River and Utica Shale	440	478	

Toronto Twp. Cooksville. Shephard Farm near Hydro Sta.

Clopp. log. from Thos. E. Bull. PEEL CO

Surface Sand.	5 — 5	
Lorraine shale	555 - 560	Gas at 1205
Utica - brown shale	150 - 710	300 lbs. pressure
Trenton limestone	600 - 1310	
Sandstone	45 - 1355	

Mr. Bull drilled two other wells at Cooksville which gave gas in the Trenton. #2 — 350 M. cu. ft.
#3 — 100 M. cu. ft.

Highland Creek (Geol. Sur. Can., Vol. V, Part II, p. 24Q):			
Surface deposits (blue clay) 1887	48	48	434 Gas
Hudson River and Utica Shale	200	248	
Trenton Limestone	434	682	
Gas reported in the Trenton.			
Copeland's brewery, Parliament street, Toronto (Geol. Sur. Can., Vol. V, Part II, p. 25Q): 1882			
Surface	40	40	
Hudson River Limestone	150	190	no gas or oil.
Hudson River and Utica Shale	405	595	not good water
Trenton Limestone	585	1,180	
Arkose	20	1,200	
Pre-Cambrian Granite			
*Vaughan tp., l. 33, con. I:			
Surface	641	641	
Shale, grey, hard	85	726	
Limestone, grey, hard	119	845	
Shale, black, hard	96	941	
Limestone, grey, soft	90	1,031	
Limestone, dark grey, hard	159	1,190	
Shale, soft	8	1,198	
Granite, red	2	1,200	
Swansea, Toronto (Ontario Bolt Works, east side Humber river) (Geol. Sur. Can., Vol. V, Part II, p. 25Q): 1888-89			Elev. 347
Surface 3/4 mile N. of the lake & same north of Bolt Works			
Sand	65	65	
Quicksand	15	80	
Hardpan	27	107	
Hudson River and Utica Grey shale	440	547	
Black shale	40	587	
Grey shale	56	643	dry.
Trenton Limestone	107	750	
"Soapstone"	5	755	
Limestone	480	1,235	
"Fossil rock"	10	1,245	
Pre-Cambrian Crystalline limestone	16	1,261	
Top of well 347 feet above tide.			
Etobicoke Tp			
New Toronto, west side of Seventh street (Geol. Sur. Can., 1892-93 Vol. VI, p. 109S): between 7th & 8th Streets & 700' N. of Birmingham St. McDonald's Tin Works. This well was uncovered while excavating in July 1927. Gas was in evidence. Well filled in with clay. See letter from Mathers & Haldenby Aug 17th 1927.			
Surface deposits	5	5	780 Gas
Shale, black	640	645	885 " } 50 M.
Limestone	595	1,240	1,089 " Shot. }
Sandstone and arkose ..... Water at 75' and 353'. Salt water heavy flow at 1250	72	1,312	Casing 364'
York township, l. 11, con. III:			
Surface deposits	38	38	
Hudson River and Utica Shale	440	478	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York County—Continued			
Trenton			
Limestone, hard	300	778	
" soft, with shale	185	963	
" hard	146	1,109	
"Arkose" beds	10	1,119	
Pre-Cambrian			
Granite	8	1,127	
*Cooksville: Toronto tp. Depth of well, 1,010 feet. Drilled by R. Roumegon in 1909. Gas in small quantity.			
Mimico (Geol. Sur. Can., Vol. V, Part II, p. 26Q): 1889			
Surface	7	7	425 Gas
			575 "
Hudson River and Utica			1,052 "
Blue shale	493	500	
Brown shale Utica	223	723	
Trenton			
Limestone	337	1,060	water at 25 ft.
Small quantities of gas were obtained at 425, 575 and 1,052 feet.			
Simcoe County			
Nottawasaga tp.			
Collingwood (Geol. Sur. Can., Vol. V, Part II, pp. 26-27Q):			
Well No. 1, lot 16, west side Peel street 1888.			
Surface	10	10	140 Gas
			160 "
Trenton no casing.			
Limestone	543	553	
Gas was struck in small quantities at 140 and 160 feet. well shot but filled with water	Granite		
Well No. 2, lot 21, east side Oak street			
Soil ..... no casing.	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet. no water			
Well No. 3, about half a mile S.E. of No. 2			
Soil ... no. casing.	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood			
Trenton			
Limestone	351	351	150 Gas
Gas met with at 150 feet, about 2,000 cubic feet per day.			
Orillia (Geol. Sur. Can., Vol. V, Part II, p. 28Q):			
Surface deposits	170	170	no gas.
Trenton			
Limestone	130	300	small water.
	Granite		
Numerous wells have been sunk in the town of Barrie to depths of 250 to 276 feet. Gas was not noticed. (Geol. Sur. Can., Vol. V, Part II, p. 28Q.)			

York (East?) Tp. lot 11. Con III
Taylor Bros Paper Mill. Elev. 297

Surface	38	Small gas
Hudson River / Utica Shale	440	at 750
Trenton - hard lime	300	
" soft with shale	185	
" hard lime	146	
Arkose beds	10	
Granite	8	
	1127	

Log by W.F. Tasker

York - W½ lot 13 Con III West (Vaughan Twp)
R.I. Henderson. Elev 694 Driller Snively
Commenced Dec. 1924. Dry hole 246' W CNR

Surface	233	
Lorraine Blue shale	467	Downsview well
Utica	65	
Trenton	605	
Arkose	15	
Precambrian	+	
	1385	

Lake Simcoe Ice Co.
110 Dupont St Toronto.
Driller Bert Hoffman Humber Bay
July 1925

Clay	15	Fresh water
Quicksand	40	at 80 feet
Sand & Gravel	46	
Dundas Shale	301	

Town of North Toronto, at Pumping Sta Sherwood Park. Comp. Feb. 10th 1910

Silt & Quick Sand	12'
Blue clay	42'
Sand & gas	2'
Sharp sand	15'
Clay (some moisture)	16'
Sand	28'
Shale	14½'
Total	129½

Elev. (from Militia map.) 450 or 460
Open flow of 2 wells — 35,500 cu ft

~~Taylor Bros paper mill~~
Foundation Test at Hoggs Hollow Bridge are filed with York County Engr

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Thickness of Surface.

Barrie	280 ft
Richmond Hill	400 ft
Newmarket	265 ft
Bradford	330 ft
Thornhill 2 miles west	650 ft.

G.S.C. Vol. VII. 1894. p. 90.S.

The New Toronto Oil Refining Co. continued operations into the beginning of the year 1893 and completed 7 wells none productive 3 had shows of gas. One drilled near Islington found mineral water which is bottled and sold by Obico Mineral Water Co of Toronto. See New Toronto Depth 1312.

Toronto Tp. Clarkston. Elev. 266.
18 miles west of Toronto. On Lake shore.
PEEL CO
Surface 4 - 4
Shale (Hudson Rv.) 650 - 654
Shale (Utica) 150 - 804
Limestone (Trenton) 657 - 1461
Granite (Archaen) 11 - 1472
?

nued

	Thickness Feet	Depth Feet	Depth at which oil or gas occurred

Toronto twp. Lot. 16 Con. I N.D.S. Cooksville June-Sept 1922
Sir Wm Mackenzie
F.C. Annesley 43 Victoria St Toronto.
A.E. Hoover Selkirk driller. R.H. Henderson
Surface 4 Water at 80' and 340'
Hudson River 603. 607 Gas at 1422' - 500 cu ft.
Utica 178 785 casing not pulled.
Trenton 605 1390
Arkose 32 1422
Granite 3 1425
1425
PEEL CO

434 Gas

*Vaughan tp., l. 33, con. I:			
Surface	641	641	
Shale, grey, hard	85	726	
Limestone, grey, hard	119	845	
Shale, black, hard	96	941	
Limestone, grey, soft	90	1,031	
Limestone, dark grey, hard	159	1,190	
Shale, soft	8	1,198	
Granite, red	2	1,200	
Swansea, Toronto (Ontario Bolt Works, east side Humber river) (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface			
Sand	65	65	
Quicksand	15	80	
Hardpan	27	107	
Hudson River and Utica			
Grey shale	440	547	
Black shale	40	587	
Grey shale	56	643	
Trenton			
Limestone	107	750	
"Soapstone"	5	755	
Limestone	480	1,235	
"Fossil rock"	10	1,245	
Pre-Cambrian			
Crystalline limestone	16	1,261	
Top of well 347 feet above tide.			
New Toronto, west side of Seventh street (Geol. Sur. Can., Vol. VI, p. 109S):			
Surface deposits	5	5	780 Gas
Shale, black	640	645	885 ,,
Limestone	595	1,240	1,089 ,,
Sandstone and arkose	72	1,312	
York township, l. 11, con. III:			
Surface deposits	38	38	
Hudson River and Utica			
Shale	440	478	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York County—Continued			
Trenton			
Limestone, hard	300	778	
" soft, with shale	185	963	
" hard	146	1,109	
"Arkose" beds	10	1,119	
Pre-Cambrian			
Granite	8	1,127	
*Cooksville:			
Depth of well, 1,010 feet.			
Gas in small quantity.			
Mimico (Geol. Sur. Can., Vol. V, Part II, p. 26Q):			
Surface	7	7	425 Gas
			575 ,,
Hudson River and Utica			1,052 ,,
Blue shale	493	500	
Brown shale	223	723	
Trenton			
Limestone	337	1,060	
Small quantities of gas were obtained at 425, 575 and 1,052 feet.			
Simcoe County			
Collingwood (Geol. Sur. Can., Vol. V, Part II, pp. 26-27Q):			
Well No. 1, lot 16, west side Peel street			
Surface	10	10	140 Gas
			160 ,,
Trenton			
Limestone	543	553	
Gas was struck in small quantities at 140 and 160 feet.			
Well No. 2, lot 21, east side Oak street			
Soil	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet.			
Well No. 3, about half a mile S.E. of No. 2			
Soil	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood			
Trenton			
Limestone	351	351	150 Ga
Gas met with at 150 feet, about 2,000 cubic feet per day.			
Orillia (Geol. Sur. Can., Vol. V, Part II, p. 28Q):			
Surface deposits	170	170	
Trenton			
Limestone	130	300	
Numerous wells have been sunk in the town of Barrie to depths of 250 to 276 feet. Gas was not noticed. (Geol. Sur. Can., Vol. V, Part II, p. 28Q.)			

Section I: East Gwilimbury Township

Chapter VI: Toronto/York

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York County

5050 N 170 W

SUNDERLAND OILS, LTD.

W. Nelson No. 1, lot 29, con. VII,
East Gwillimbury tp.

Completed December 3, 1943.
Dry hole.

E/W 753.6

Formation	Thickness, ft.
Surface	115
Trenton	545
Arkose	422
Total depth	1,082

Fresh water at 115 feet; salt water at 739 and 773 feet.

2
lot 12 VII ?

SUNDERLAND OILS, LTD.

J. Sedore No. 1, lot 11, con. VIII,
North Gwillimbury tp.

Completed June 19, 1943.
Dry hole.

E/W 737

Formation	Thickness, ft.
Surface	85
Trenton	506
Arkose	23
Pre-Cambrian	7
Total depth	621

York County

MALCOLM STOBIE

G. Dean No. 1, lot 113, con. I E.,
East Gwillimbury tp.

Completed January 5, 1945.
Dry hole.

Formation	Depth, ft.
Surface	202
Trenton	830
Granite	835

Show of gas at 645 feet.
Show of oil at 830 feet.
Fresh water at 40, 66, and 100 feet.

Section II: Markham Township

Chapter VI: Toronto/York

The Harkness Files
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Vaughan
~~Markham~~ Tp. Page Oil & Gas Co Mem. 81.
Wright Bros Cont Drilled 1908

Gr sand boulders	641		8 Casing	475'
Gr shale hard	85	726	4½ "	680
Gr Hard lo	119	845		
Bl hard sh	96	941		
Gr soft lo	90	1031		
Gr gr hard ls	159	1190		
soft sh	8	1198		
Granite	2	1200		

flowing water @ 780 Big water 1200 ft

R. BOND

H. Coakwell No. 1, lot 4, con. IX, Markham tp.

Driller: D. Hatton.
Completed January 28, 1949.
Dry hole.

Formation	Depth, ft.
Surface	203
Blue shale	265
Brown shale	375
Trenton	945
Green sandy shale	955
Red and green shale	960
Granite	1,010

Show of gas at 213, 305, 583, 738, and 780 feet.
Fresh water at 58, 81, 93, and 193 feet.

Section III: Scarborough Township

Chapter VI: Toronto/York

The Harkness Files
Volume V
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Well Records in Ontario—Continued

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Highland Creek (Geol. Sur. Can., Vol. V, Part II, p. 24Q):			
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Hudson River and Utica			
Shale	200	248	
Trenton			
Limestone	434	682	
Gas reported in the Trenton.			
Copeland's brewery, Parliament street, Toronto (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface	40	40	
Hudson River			
Limestone	150	190	
Hudson River and Utica			
Shale	405	595	
Trenton			
Limestone	585	1,180	
Arkose	20	1,200	
Pre-Cambrian			
Granite			
*Vaughan tp., l. 33, con. I:			
Surface	641	641	
Shale, grey, hard	85	726	
Limestone, grey, hard	119	845	
Shale, black, hard	96	941	
Limestone, grey, soft	90	1,031	
Limestone, dark grey, hard	159	1,190	
Shale, soft	8	1,198	
Granite, red	2	1,200	
Swansea, Toronto (Ontario Bolt Works, east side Humber river) (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface			
Sand	65	65	
Quicksand	15	80	
Hardpan	27	107	
Hudson River and Utica			
Grey shale	440	547	
Black shale	40	587	
Grey shale	56	643	
Trenton			
Limestone	107	750	
"Soapstone"	5	755	
Limestone	480	1,235	
"Fossil rock"	10	1,245	
Pre-Cambrian			
Crystalline limestone	16	1,261	
Top of well 347 feet above tide.			
New Toronto, west side of Seventh street (Geol. Sur. Can., Vol. VI, p. 109S):			
Surface deposits	5	5	780 Gas
Shale, black	640	645	885 "
Limestone	595	1,240	1,089 "
Sandstone and arkose	72	1,312	
York township, l. 11, con. III:			
Surface deposits	38	38	
Hudson River and Utica			
Shale	440	478	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York County—Continued			
Trenton			
Limestone, hard	300	778	
" soft, with shale	185	963	
" hard	146	1,109	
"Arkose" beds	10	1,119	
Pre-Cambrian			
Granite	8	1,127	
*Cooksville:			
Depth of well, 1,010 feet.			
Gas in small quantity.			
Mimico (Geol. Sur. Can., Vol. V, Part II, p. 26Q): 8 miles West			
Surface	7	7	425 Gas
Hudson River and Utica			575 "
Blue shale	493	500	1,052 "
Brown shale	223	723	
Trenton			
Limestone	337	1,060	
Small quantities of gas were obtained at 425, 575 and 1,052 feet.			
Simcoe County			
Collingwood (Geol. Sur. Can., Vol. V, Part II, pp. 26-27Q):			
Well No. 1, lot 16, west side Peel street			
Surface	10	10	140 Gas
Trenton			160 "
Limestone	543	553	
Gas was struck in small quantities at 140 and 160 feet.			
Well No. 2, lot 21, east side Oak street			
Soil	2	2	160 Gas
Trenton			
Limestone	540	542	
Gas at 160 feet, daily flow of 4,000 cubic feet.			
Well No. 3, about half a mile S.E. of No. 2			
Soil	4	4	175 Gas
Trenton			
Limestone	460	464	
Gas met with at 175 feet.			
Well in rear of the Hurontario flour mill in eastern part of Collingwood			
Trenton			
Limestone	351	351	150 (
Gas met with at 150 feet, about 2,000 cubic feet per day.			
Orillia (Geol. Sur. Can., Vol. V, Part II, p. 28Q):			
Surface deposits	170	170	
Trenton			
Limestone	130	300	
Numerous wells have been sunk in the town of Barrie to depths of 250 to 276 feet. Gas was not noticed. (Geol. Sur. Can., Vol. V, Part II, p. 28Q.)			

Section IV: Pickering Township

Chapter VI: Toronto/York

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

PICKERING TOWNSHIP
ONTARIO COUNTY

S.S. Rice, Streetsville, Ontario.

Col. Bishop, Yardley House, Toronto.

Location: 4 miles west of Brooklin : 2 miles south of No. 7 Highway, on old Lynd farm.

This scales as lot 3 or 4 Con IV Pickering

Clay	40 feet
Boulders	15
Hard sand (little water caving)	15
Black shale	35
	105

lot 30 Range II S Pickering Tp

On the North side of the road along the Lake Shore and on the East side of small stream is a well that has been drilled into or through the Trenton. It gives a little gas and much "mineral water" which flows at times

Section V: Vaughn Township

Chapter VI: Toronto/York

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
York County			
Highland Creek (Geol. Sur. Can., Vol. V, Part II, p. 24Q):			
Surface deposits (blue clay)	48	48	434 Gas
Hudson River and Utica			
Shale	200	248	
Trenton			
Limestone	434	682	
Gas reported in the Trenton.			
Copeland's brewery, Parliament street, Toronto (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface	40	40	
Hudson River			
Limestone	150	190	
Hudson River and Utica			
Shale	405	595	
Trenton			
Limestone	585	1,180	
Arkose	20	1,200	
Pre-Cambrian			
Granite			
*Vaughan tp., l. 33, con. I:			
Surface	641	641	
Shale, grey, hard	85	726	
Limestone, grey, hard	119	845	
Shale, black, hard	96	941	
Limestone, grey, soft	90	1,031	
Limestone, dark grey, hard	159	1,190	
Shale, soft	8	1,198	
Granite, red	2	1,200	
Richmond Hill Surface thickness		400 ft +	
Swansea, Toronto (Ontario Bolt Works, east side Humber river) (Geol. Sur. Can., Vol. V, Part II, p. 25Q):			
Surface			
Sand	65	65	
Quicksand	15	80	
Hardpan	27	107	
Hudson River and Utica			
Grey shale	440	547	
Black shale	40	587	
Grey shale	56	643	
Trenton			
Limestone	107	750	
"Soapstone"	5	755	
Limestone	480	1,235	
"Fossil rock"	10	1,245	
Pre-Cambrian			
Crystalline limestone	16	1,261	
Top of well 347 feet above tide.			
New Toronto, west side of Seventh street (Geol. Sur. Can., Vol. VI, p. 109S):			
Surface deposits	5	5	780 Gas
Shale, black	640	645	885 "
Limestone	595	1,240	1,089 "
Sandstone and arkose	72	1,312	
East York township, l. 11, con. III: - 3/4 of a mile S.W. of Thorncliffe Race Track on the property of the Don Valley Paper Co.			
Surface deposits	38	38	
Hudson River and Utica			
Shale	440	478	

York County

R. I. HENDERSON, TORONTO
Commenced Dec 1927 Lot 11, con. III, Vaughan tp.
Completed 1926. John Ash Farm
Dry hole.
Published 1931 Rep't.

Formation	Thickness, ft.	
Surface	198	
Brown soapstone	70	
Grey shale	143	411
Utica black shale	109	520
Trenton	15 580	1100 1115
Pre-Cambrian (Arkose)	3,540	
Total depth	4,640	

Gas at 210 feet.
Fresh water at 200 feet; salt water at 2,700 to 2,800 feet.

Casing Approx.
200' - 8"
500' - 6 5/8

Water
Fresh flowing 200
Salt 2700-2800
Salt ? 4640 ?

300	778	
185	963	
146	1,109	
10	1,119	
8	1,127	
7	7	425 Gas

Vaughan Tp. lot 13 Con. III
Sir Donald Mann - Kiser Driller.
Drilled 1932.

Surface	290 -	
Lorraine Grey shale	80 -	370
Utica	190 -	560
Trenton lime	570 -	1130
Pre Trenton lime & sand	30 -	1160
Arkose	13 -	1173
Pre Cambrian		2900+

Vaughan Tp. lot 33. Con. I.
Frank Ogletree. Page Estate
Drilled 1932 - 1600' S.E. of old Page well

Surface. sand	232	
sandy clay	328	
Boulders	40 -	600
Utica shale	35	635
Trenton lime	500	1135
Granite		

Cased to Trenton with 6"
Salt water on top of Granite which flowed at first then settled 40 feet below surface.

Section VI: Whitechurch Township

Chapter VI: Toronto/York

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Mr John H.C. Durham reports that a well was drilled behind the High School in Newmarket between 1900 and 1910. (Prospect Street) Messrs Howard Cane & Chas Denne were in the Syndicate. Driller Joseph Harvey Petrolia Depth to Granite 1000ft ± Some gas in the Trenton. Samples were sent to T.W. Gibson Parl. Bldgs Toronto

W. C. PATTERSON, JAMESTOWN, N.Y.

Lot 15, con. V, Crowland tp.

Completed November 29, 1929.
Dry hole.

Formation	Thickness, ft.
Surface	117
Lime and shale	82
Niagara	230
Shale	55
Clinton rock	33
Red Medina	59
Grey shale	28
White Medina	20
Red shale	2
Total depth	626

York County

JOHN H. C. DURHAM, BOND LAKE

Lot 64, con. I, Whitchurch tp.

Completed 1926.
Dry hole.

Formation	Thickness, ft.
Surface	570
Hard clay	15
Black clay	15
Clay	10
Shaly clay	20
Clay	30
Collingwood	40
Trenton	580
Arkose	12
Granite.	
Total depth	1,292

Water at 80, 112, and 1,145 feet.

Newmarket Surface reported 265' in water wells

Surface Gas

Several surface gas fields in this province have been producing gas for a number of years at Beeton, Tecumseth township; at the southern outskirts of the city of Sarnia; and in the district between the towns of Ridgetown and Blenheim, Howard and Harwich townships. Surface gas has also been observed, but not utilized extensively, north of the city of Toronto at the town of Richmond Hill; at Sherwood Park, North Toronto; in the brickyard on Greenwood Avenue, Toronto; south of Danforth Avenue at the C.N.R. crossing; in lot 30, concession II, in the northern part of Pickering township, just south of the C.N.R.–C.P.R. crossing; at St. Augustine Seminary, lot 25, concession B, Scarborough township, a few miles east of Toronto; at the city of Chatham; and in Russell county along the Ottawa river.

This surface gas is quite a different gas from that found in the sedimentary rocks. It is practically a pure methane and nitrogen, whereas the rock gases carry higher hydrocarbons than methane.[1] The surface gases carry only a trace of helium, while the rock gases carry up to 0.80 per cent. helium.[2] The surface gases run high in carbon dioxide, while the rock gases rarely have any, or, if they have, less than three-tenths of 1 per cent. The sample of gas from Caledon township is the outstanding exception to this. It is identical with the surface gas in all but the helium content in which it excels any of them in richness.[3]

[1]G. R. Mickle, "The Chemical Composition of Natural Gas Found in Ontario," Ont. Dept. Mines, Vol. XXIII, pt. 1, 1914, p. 267; R. B. Harkness, Ont. Dept. Mines, Vol. XXXII, pt. 5, 1924, p. 13.

[2]Ont. Dept. Mines, Vol. XXXV, pt. 5, 1926, pp. 11-15.

[3]A recent analysis from a well near Bronte gave 1 per cent. helium in a gas from the same horizon as the gas in the eastern part of Caledon township.

This gas horizon is, however, only a hundred feet above the top of the Utica shales and may have its origin in these bituminous shales. These surface gases are, in most instances, found where there are a hundred feet or more of heavy clays over a gravel bed, which, in turn, rests on the bed rock; in almost every case, this underlying rock is a bituminous shale. This, in Kent and Lambton, is the Huron black shale, and in the district between Beeton village and Toronto and also in Russell county is the Utica shale. The Utica shale and probably the Collingwood shale are exposed between Beeton and Toronto by the deep wide trench cut by the ancient river joining the east end of Georgian bay through the central parts of Simcoe and York counties to Lake Ontario at Toronto. Judging from the depth of the surface south of Cherrywood and from the fact that the bottom of the ancient river valley at Bond lake, Whitchurch township, is found to be deep in the Collingwood shales at about sea level and within thirty feet of the top of the Trenton limestone, it is possible that an embayment in the ancient Lake Iroquois[1] or a tributary river valley might also be in the Utica. This, of course, is at best a deduction based on the fact that the river channel at Bond lake and Richmond Hill must drain into Lake Ontario and that the course of the channel would be along the Don river; but the recent work on the waterworks tunnel on the lake front at Toronto has shown that this great channel does not enter Lake Ontario between Scarborough and the Humber, although I am informed, by the engineer in charge that two channels 400 feet wide, cut to a depth of 88 feet above sea level, were noted at the Don river and at Woodbine avenue. These might be a part of the delta mouth of such a river, and its main mouth might be immediately to the east of Scarborough. These channels do not reach the Utica shales, but it is possible that the main channel may. The surface gases at and near Toronto come from the interglacial gravels (Toronto formation) a hundred feet or more below the surface, with an unknown thickness of clays and till lying below and resting on the Dundas (or Utica?) shale.

The origin of this surface gas is a matter of speculation. Mickle[2] suggests that this is a marsh gas derived from the decomposition of vegetable matter. This may easily be the case, as Coleman[3] finds in the Scarborough beds the remains of mosses and swamp plants and beetles, which are lacustrine deposits of laminated clays, including, in some places, the interglacial gravels and, in others, covering the lower boulder clay, which is, in most cases, a thin deposit resting on the bituminous Utica or Collingwood shales. The case against this is that any gas from these vegetable or animal remains must find its way down to the gravel bed and displace the water therein, while gas from these bituminous shales would, in the ordinary course of events, move upward. Of course, we have no certain knowledge that gas is generated in these black shales, but we do know that oil and gas can be and were distilled from the Collingwood shales in 1859.[4] Evidence of sufficient heat during or since the ice age is certainly lacking, as is also the evidence that marsh gas is confined and stored, or that decomposition of vegetable matter goes on after it is buried under water and silt.

The origin of the gas in the interglacial gravels at Toronto, which may be separated from the Utica shales by three hundred feet or more, would seem to be inexplicable by the bituminous shale theory. In the Toronto area the ancient river channel previously mentioned cuts the Dundas shale at the horizon

[1]A. P. Coleman, "Toronto and Vicinity," Ont. Bur. Mines, Twelfth Internat. Geol. Cong., Guide Book No. 6, 1913.
[2]G. R. Mickle, op. cit.
[3]A. P. Coleman, op. cit.
[4]W. E. Logan, Geol. Surv. Can., Rept. Prog. from Its Commencement to 1863, pp. 784, 785.

Chapter VII: Wellington County

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MARYBOROUGH
PEEL
ARTHUR
WEST LUTHER
NICHOL
PILKINGTON
WEST GARAFRAXA
GUELPH
ERAMOSA
Wyandote
Lebanon
Tralee
Rothsay
Moorefield
Bosworth
Riverbank
Hollen
Drayton
Stirton
Dorking
Conestogo
Glen Allan
Goldstone
Parker
Winfield
Macton
Yatton
Alma
Olivet
Kenilworth
Derrynane
Arthur
Gordonville
Damascus
Mount View
Green Park
Canadian
Metz
Dracon
Cumnock
Salem
Pentland Cors.
Elora
Fergus
Belwood
Belwood L.
Craigsholme
Canadian
Inverhaugh
Ponsonby
Ennotville
Shiloh
Ariss
National
Marden
Speedside
Oustic
River
Speed
Everton
Eramosa
Mosborough
C. N. R.
Guelph
Eden Mills
Rockwood
Canadian
Crewsons Cors.
Ospringe
Arkell
Aikensville


Mount Forest
Palmerston
Harriston
Clifford
Cotswold
Teviotdale
Drew
Minto
Wallace


Hillsburgh
Binkham
Erin
Brisbane


Puslinch
Morriston
Crieff
Morriss

GSC Vol V Pt II p 43Q

WELLINGTON Co Brummell 1890

About 1888 John Frazier drilled a well at Erin to a depth of 800 feet without success. Previous to 1866 a well was drilled at Edens Mills lot 1 Con I Eramosa township to 509. Nothing but salt water

Erin Well 1888 by John Frazier

Niagara limestone		95		Elev 1038
Rochester shale		100	195	
Medina	blue shale & sand	25	220	no gas or oil
	Red shale	480	700	
	Blue shale	100	800	

From Caley

County	Township	Surface Elevation	Depth of Well	Thickness of Drift	Thickness of Sediments	Elev PreCambrian	Remark
Wellington 1900	lot 5 Peel Con III	1218	2573	35	2491	-1308	48' in Granite
do 1916 or 1917	lot 6 Eramosa Con IV	1197	2180	170	2010	-973	penetrated 10 ft PreCamb. ~~not reached~~
do 1928 1929	lot 7 Puslinch Con IV	1038	2670	58	2309	-1329	303' in PreCamb
do 1933	lot 7 Puslinch Con IV	1038	2531	52	2308	-1322	171' in Granite
do 1900	lot 6 Pilkington Con V	1299	2385	103	2282+		PreCamb not reached
do 1865	Lot 1 Con I Eramosa	1265	509				
1899	#1		1300				
1899	Guelph #2		1800				
1903	Guelph		1562	15			
1954	7 XI Luther West	1605+3	2165	36	2114	-506	
1931	Minto 19/20 X	1255	950	70			Into Queenston
1946	Peel 16 A		735				
1888	Erin	1038	800				

Section I: Eramosa Township

Chapter VII:Wellington County

The Harkness Files
Volume V
Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Niaga			
Sl	30	802	
Clinto			
Li	29	831	
Medin			
R	367	1,198	
Hudso			
D	572	1,770	
Utica			
D	47	1,817	
Trent			
L	705	2,522	
Calci			
V	51	2,573	
F			

Top of well 1,245 feet above sea level.

Wellington County

H. Bramblecombe and Dougal Manderson, Harriston

Lots 19 and 20, con. X, Minto tp.
Completed March 13, 1931.

Formation	Thickness, ft.
Surface	70
Salina	480
Guelph and Lockport	145
Cataract Medina	90
Queenston	165
Total depth	950

Gas at 402 feet.
Fresh water at 120 to 210 feet; sulphur at 540 to 700 feet.

Erin (Geol. Sur. Can., Vol. V, Part II, p. 43Q):

Niagara			
Limestone	95	95	
Clinton			
Shale	100	195	
Medina			
Blue shale and sand	25	220	
Red shale	480	700	
Hudson River			
Blue shale	100	800	

Top of well 1,038 feet above tide.

Eden Mills, l. 1, con. I, Eramosa tp. (Geol. Sur. Can., Vol. V, Part II, p. 43Q):

Limestone and shales	159	159	
"Red strata" (Medina)	350	509	

Erin (Geol. Sur. Can., Vol. V, Part II, p. 43Q):

Niagara			
Limestone			
Clinton			
Shale			
Medina			
Blue shale and sand			
Red shale			
Hudson River			
Blue shale			

Top of well 1,038 feet above tide.

Depth of well 2,386 feet. Trenton limestone was met with at 2,360 feet.

Dublin (Geol. Sur. Can., Vol. V, Part II, p. 60Q):
Depth of well 1,396 feet; surface deposits 75 feet; limestone 520 feet thick occurred below the surface deposits. At 600 feet gypso-saliferous marls were met with, after passing through which the Niagara limestone was reached.

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Perth County—Continued			
Mitchell (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 2,008 feet; after passing through shales belonging to the base of the Onondaga formation, the Niagara limestone was reached, and at 1,570 feet, red shale 300 feet thick, belonging to the Medina formation.			
Listowel (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 1,200 feet.			
St. Marys (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 700 feet, at which point small traces of petroleum were said to have been observed. The bore was begun on the Corniferous limestone; specimens between 100 and 500 feet were magnesian limestone.			
Middlesex County			
Glencoe (Geol. Sur. Can., Vol. V, Part II, p. 51Q):			
Surface	134	134	
Hamilton	100	234	
Limestone	162	396	
"Soapstone"	80	476	
Limestone, white			
Corniferous and Onondaga, probably 200 feet of Corniferous			
Limestone	486	962	
Onondaga			
Sandstone	38	1,000	
Hard limestone	260	1,260	
Gypsum	5	1,265	
"Hard rock"	15	1,280	
Gypsum	3	1,283	
"Hard rock"	7	1,290	
Salt and shale	104	1,394	
"Hard rock"	116	1,510	
The term "hard rock" means dolomite, and "soapstone" shale.			
Metcalfe tp., l. 24, con. XIII (Geol. Sur. Can., Vol. V, Part II, p. 52Q):			
Clay	48	48	
Portage			
Black shale	75	123	
Hamilton			
"Soapstone," etc.	273	396	
Corniferous			
Limestone	104	500	
Mosa tp., l. 5, con. VII (Geol. Sur. Can., Vol. V, Part II, p. 52Q):			
Clay	50	50	
Portage			
Black shale	10	60	
Hamilton			
"Soapstone," etc.	230	290	
Corniferous			
Limestone	262	552	

ERAMOSA TOWNSHIP

Rockwood well WELLINGTON Co.

Company: Imperial Oil Company, Limited

Location: Lot 6, concession IV, Eramosa tp.

same well as below. Drillers Log

Surface	170	170
Niagara	50	220
Cabot Head	60	280
Manitoulin	10	290
Whirlpool	10	300
Queenston	410	710
Richmond	690	1400
Utica	120	1520
Trenton	650	2170

There is gas still being used from this well for cooking in the house.

For Geological Report see G.S.C. Summ. Rept., Part E, 1917, page 23 E, by M.Y. Williams.

ROCKWOOD OIL & GAS Co
150' N. CNRy 1000' W of East Road. Elev. 1197

Eramosa Twp lot 6. Con IV

Surface ?		180	180
Lockport	Lt Grey coarse xyln dol.	30	210
	grey xyln dol much pyrite	10	220
Cabot Head	red & gn-gy shale & limey sh.	40	260
Manitoulin	Grey xyln dol & some green-gy shale	20	280
Whirlpool	grey to white med grained sandst	20	300
Queenston	red shale green mottlings	440	740
Meaford? Dundas?	gy & gn gy shale some xyln ls bands	140	880
	no samples	70	950
	grey shale occas! lime bands	430	1380
Billings	Dark grey shale	40	1420 1460
	dark grey to black bitum shale	90	1510
Trenton and older	grey brown xyln ls some dark sh part	210	1720
	grey limy sh! little xyln ls. gn l/sh.	70	1790
	Grey shaly ls. Some greeny grey shale	100	1890
	grey finely xyln lime	40	1930
	grey limy shale 630	40	1970
	grey shaly lime	30	2000
	brown-gy xyln lime with little ls at 2030, 60, 70 -	60	2060
	brown gy fine xyln ls	80	2140
Basal Beds	greenish fine sandstone little lime & shale	30	2170
Precambrian	Angular & semi rounded qtz green schist, biolite	10	2180

Small gas. Dry Hole

2170.
11.97
.998

Section II: Guelph Township

Chapter VII:Wellington County

The Harkness Files
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Dufferin - Grey - Halton - Peel - Simcoe - Toronto/York - Wellington

Ont Bur Mines 10th Rept 1900 p. 21

A strike of gas is reported from lot 1 Con X in the Township of Amabel, where the Trenton formation at a depth of 1402 ft is said to have shown a gas pressure of 425 # A company called the Grey & Bruce Oil & Gas Co. — is developing the field ——.

Ont Bur Mines 11th Rept 1901 p. 45

Mr E P Rowe states — Gas was found in the Trenton in all cases (4 wells) at 350' in the Trenton. The Rock Pressure = 425 # Pressure declined very little after one years use in Hepworth.

Guelph

Kingsville Reporter Feb 24th 99. Mr John Carmody has been awarded the contract to drill a well in the town of Guelph. His backers are Brantford men.

" May 12th Drilling at 1300 ft

" May 19th Guelph well finished a dry hole at 1650

" June 16th Carmody has a contract for a 2nd well at Guelph

Aug 4th now drilling at 1200 ft

Thamesville Herald Sept 1st Guelph well drilling at 1600 ft

Kingsville Reporter Sept 8th Guelph well dry at 1800 ft

H. S. NI[redacted]LIN, B.A.SC.
REG'D. P[redacted]OF. ENGINEER, ONT.
WATERWORKS ENGINEER

CITY OF GUELPH

OFFICE OF
WATERWORKS ENGINEER
YORK ROAD PUMPING STATION
29 WATERWORKS PLACE

FILE NO.
TELEPHONE 710

January 9th., I957.

Mr. R.B.Harkness,
Port Rowan,Ont.

Dear Sir:-

Your letter of Jan. Ist. addressed to the City Engineer,Guelph, was handed to me.

I have checked with the Guelph Daily Mercury. Believe it or not all their files previous to I927 were discarded by a former manager and given to a junk dealer. This sounds incredible but it is true.

From their Centennial Issue in I927 we found some description of a well drilled on the Lamprey farmn, near Guelph, in I899. I enclose a copy of this item taken from the Guelph Evening Mercury and Advertiser of July 20th.,I927. This no doubt is of interest but does not give the information you seek.

This is the only information I can find on any of the three wells mentioned in your letter.I have consulted a number of old timers,etc. but still have no information as to the location of the Lamprey farm. However I intend to keep asking and will advise you if further information is found.

Yours very truly,

H.S.Nicklin,
Waterworks Engineer.

N.

From The Guelph Evening Mercury and Advertises, July 20, 1927.
Centennial Number.

" Early in 1899 a local business man, believing that the Trenton formation on the Lamprey Farm, near Guelph, bore indication of oil, a syndicate was formed and drilling was commenced. After going down some 1650 feet, it was decided to discontinue operations. This was done. A few days later, however, some of those who had invested their money in the undertaking, decided to make another test before they abandoned the project. Sufficient capital was raised to enable the promoters to "shoot" the well, in order, if possible, to secure a production. This operation took place on September 5, 1899. Mr. J.S. McDermid, representative of Mr. R.I. Bradley, nitroglycerine manufacturer, Petrolia, and Mr. George Johnston arrived in the city with the charge for shooting the well, after a two and a half days perilous drive to Guelph from Petrolia with a load of explosive. The preparatory operations consisted in removing the drill and all loose objects near the well. A tin about eight feet long and three inches in diameter was then suspended in the mouth of the well and into it was poured forth pounds of nitroglycerine. This was carefully lowered to the bottom, and was followed by three other tins containing explosive fluid. In lowering a fifth the rope accidently slipped off the pulley and with the slight jar, broke in the well, causing a premature explosion, about 700 feet below the earth's surface. The rope broke when the nitroglycerine was down 300 feet, and the explosiom was caused by the friction created by the tin touching the side of the well in the drop. Mr. McDermid, feeling the rope slacken, supposed what had occurred and shouted to the crowd around, including many ladies who were watching the pperation, to run. Coaxing was totally unnecessary on his part. The crowd got over as much ground as was possible in the time at their disposal. A few seconds after the accident a heavy water spout was shooting over 100 feet into the air. A fuse was prepared and dropped into the hole, the earth gave a tremble, followed by a smothered noise and shattered rock was thrown 100 feet into the air. But there was no oil, nor were there any traces of that commodity found when a sand pump was lowered into the hole."

From The Guelph Evening Mercury and Advertiser, July 20,1927.
Centennial Number.

" Early in 1899 a local business man,believing that the Trenton formation on the Dempsey farm,near Guelph,bore indication of oil,a syndicate was formed and drilling was commenced.After going down some 1650 feet,it was decided to discontinue operations.This was done.A few days later,however,some of those who had invested their money in the undertaking,decided to make another test before they abandoned the project.Sufficient capital was raised to enable the promoters to "shoot" the well,in order,if possible,to secure a production.This operation took place on September 5,1899.Mr. T.S.McDermid,representative of Mr. H.I.Pratley, nitroglycerine manufacturer,Perrolia,and Mr. George Johnston arrived in the city with the charge for shooting the well,after a two and a half days perilous drive to Guelph from Petrolia with a load of explosive. The preparatory operations consisted in removing the drill and all loose objects near the well. A tin about eight feet long and three inches in diameter was then suspended in the mouth of the well and into it was poured forth pounds of nitroglycerine. This was carefully lowered to the bottom,and was followed by three other tins containing explosive fluid. In lowering a fifth the rope accidently slipped off the pulley and with the slight jar,broke in the well,causing a premature explosion,about 700 feet below the earth's surface.The rope broke when the nitroglycerine was down 300 feet,and the explosion was caused by the friction created by the tin touching the side of the well in the drop.Mr. McDermid,feeling the rope slacken,supposed what had occurred and shouted to the crowd around,including many ladies who were watching the operation,to run.Coaxing was totally unnecessary on his part.The crowd got over as much ground as was possible in the time at their disposal.A few seconds after the accident a heavy water spout was shooting over 100 feet into the air. A fuse was prepared and dropped into the hole,the earth gave a tremble,followed by a smothered noise and shattered rock was thrown 100 feet into the air.But there was no oil,nor were there any traces of that commodity found when a sand pump was lowered into the hole."

Ont. Bur. Mines 1903. p150 12th Report.

Well at Guelph.

Drift	15	15
Blue slate	50	65
Niagara & Guelph	100	165
Grey slate	5	170
Red slate	5	175
Grey "	10	185
Blue "	2	187
Clinton	10	197
Blue slate	20	217
Hard limestone	7	224
Blue slate	9	233
Medina shale	12	245
Blue shale	7	252
Red Medina	400	652
Hudson River	500	1152
Utica	300	1452
Trenton	110	1562

Anthony Gas & Oil Exploration #6
A. Koens, #1 Guelph TB lot 7 Con III ED.
1816'S - 168'E Elev 1148+2
McKillop Driller. Comp Aug 27 h 55

Surface		97	97
Guelph-Lockport		199	296
Rochester		7	303
Clinton		7	310
Medina		72	387
Queenston		431	818
Meaford Dundas		690	1508
Utica		89	1597
Trenton & lower		642	2239
Basal Beds		13	2252
Pre-Cambrian		51	2303

Dry Hole

Waters	Gas
Fresh 95	Show 2125
Sulphur 381	

Elev Trenton -447
Trenton Thickness 655

1597
1150
447

1597
529

Section III: Luther Township

Chapter VII:Wellington County

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LUTHER WEST TWP.

Louis Rose #1 P

R. Howse #1 lot 7 - Con XI

350'N 350E Elev. 1605+3

Nov. 16th 54 J Ashton Drilling Dry Hole

Surface	36	36
Guelph-Lockport	395	431
Clinton	7	438
Cabot Head	69	507
Manitoulin	11	518
Whirlpool	8	526
Queenston	324	850
Meaford-Dundas	586	1436
Billings	62	1498
Trenton	628	2126
Basal Beds	24	2150
Precambrian	6	2156

2150
36
2114

Water Gas shows

37 to 423 516-522 2055-2060

Section IV: Minto Township

Chapter VII:Wellington County

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Anr Bur Mines 20th Rep Pt I p. 42

Name of Gas or Oil Co. ______ Year ______

Address ______ near Vienna ______ Co. Well No. ______

Location, County ELGIN Tp. Bayham Con. ______ Lot ______ Pt. Lot ______

Driller Wm Lauffer Address ______ Prop. Owner ______

Date commenced Oct 5th 1910 Date completed Dec. 15th 1910 Elev. ______ Acres ______

DRILLERS LOG (Formation)	Thickness	TOTAL
Surface	193	
Black shale	5	198
Flint (very hard)	280	478
Lime (very hard)	447	925
Niagara (very hard)	290	1215
Dark shale (soft)	70	1285
Clinton	22	1307
White medina	23	1330
Red medina very soft	45	1375

WATER RECORD

Kind	Depth	Ft. Rises
Sulfur	230	
Salt	725	
"	1095	

CASING RECORD

Length	Diam.	Weight

SKETCH OF LOCATION

N. W. E. S.

Type Packer ______

Size ______

Set off Bottom ______ feet

Explosive used ______ No. qts. or lbs. ______

Placed between ______ and ______ ft. from surface

Initial Oil Yield ______ bbls./day. Initial Gas Yield ______ M. cu. ft./day

Rock Pressure ______ lbs. After being shut in ______ Days

1st ~~Gas or~~ Oil 230 ft. Flow sulphur cu. ft. or bbls./day

2nd gas 1307 " " ______ " " " "

3rd " " " ______ " " ______ " " " "

4th " " " ______ " " ______ " " " "

5th " " " ______ " " ______ " " " "

6th " " " ______ " " ______ " " " "

H. Brimblecombe ¾ Douglas Monderson
Comp. March 13th 1931. Elev. 1255

Minto Twp lot 19 & 20 Con X
100' N of S. Rd. - 2200' E of Road Intersection

Surface	70	
Saling	480	550
Guelph & Lockport	145	695
Medina Cataract	90	785
Queenston	165	950

Show Gas at 402 Abandoned
Fresh water 180 ~~to~~ 210
Sulfur water 540 to 700

Section V: Peel Township

Chapter VII:Wellington County

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1600' N of S. Rd. Imperial Oil Co. or Ohio Oil Co.
3600' W of E. Rd. Elev. 1218

Near Glen Allen. Geo. Ernst Farm

Peel tp. Lots, Con. III (Ont. Bur. Mines, Vol. XV, Pt 1, p 110)

	Thickness ft.	Depth ft.	
	Comp Aug 22nd 1900		
Surface deposits			
Gravel with pieces of limestone	35	35	
Onondaga			
Dolomite & limestone	517	552	Gas at ~~2,550~~ 2,506 ft.
Guelph & Niagara			
Dolomite & limestone	220	772	

Drilled by Ohio Oil Co. Aug 22nd 1900 W H Smith driller

Niagara		
Shales	30	802
Clinton		
Limestone	29	831
Medina		
Red shales	367	1,198
Hudson River		
Drab and blue shales	572	1,770
Utica		
Dark shales	47	1,817
Trenton		
Limestone	705	2,522
Calciferous		
Very hard, pink sandstone	51	2,573

Hole ended probably in granite.

Top of well ~~1,245~~ 1218 feet above sea level. (Clark says 1215) barometer

Paris Town. – 1965

Surface	10	10
Salina – thin beds limestone with shale & gypsum	146	156
Guelph – dolomite	99	255

Copied under Dumfries South Tp.

1600' N of S Rd
3600' W of E. Rd.

Imperial Oil Co

Peel Tp. Wellington County Elev 1218

lot 5 Con III Geo Ernst Farm

June 22nd 1900 to Aug 22nd 1900

Drillers W H Smith & W James.

Surface		35 ft	Casing		
Lime	730 to 768		55' – 10"		
Shale	765 to 795		370' – 8¼	25	220
Lime	795 to 825		780' – 6¼	480	700
Red Rock	825 to 1188		Water	100	800
Shale	1188 to 1818		Flow 145	159	159
Trenton	1818 to 2176		Oil 275	350	509
Granite	2176 – 2373.		big flow	143	143
				1,159	1,302
				1,044	2,346
				40	2,386

Well abandoned with tools in the hole

Depth of well 1,396 feet; surface deposits 75 feet; limestone 520 feet thick occurred below the surface deposits. At 600 feet gypso-saliferous marls were met with, after passing through which the Niagara limestone was reached.

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Perth County—Continued			
Mitchell (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 2,008 feet; after passing through shales belonging to the base of the Onondaga formation, the Niagara limestone was reached, and at 1,570 feet, red shale 300 feet thick, belonging to the Medina formation.			
Listowel (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 1,200 feet.			
St. Marys (Geol. Sur. Can., Vol. V, Part II, p. 60Q): Depth of well 700 feet, at which point small traces of petroleum were said to have been observed. The bore was begun on the Corniferous limestone; specimens between 100 and 500 feet were magnesian limestone.			
Middlesex County			
Glencoe (Geol. Sur. Can., Vol. V, Part II, p. 51Q):			
Surface	134	134	
Hamilton	100	234	
Limestone	162	396	
"Soapstone"	80	476	
Limestone, white			
Corniferous and Onondaga, probably 200 feet of Corniferous			
Limestone	486	962	
Onondaga			
Sandstone	38	1,000	
Hard limestone	260	1,260	
Gypsum	5	1,265	
"Hard rock"	15	1,280	
Gypsum	3	1,283	
"Hard rock"	7	1,290	
Salt and shale	104	1,394	
"Hard rock"	116	1,510	
The term "hard rock" means dolomite, and "soapstone" shale.			
Metcalfe tp., l. 24, con. XIII (Geol. Sur. Can., Vol. V, Part II, p. 52Q):			
Clay	48	48	
Portage	75	123	
Black shale			
Hamilton	273	396	
"Soapstone," etc.			
Corniferous	104	500	
Limestone			
Mosa tp., l. 5, con. VII (Geol. Sur. Can., Vol. V, Part II, p. 52Q):			
Clay	50	50	
Portage	10	60	
Black shale			
Hamilton	230	290	
"Soapstone," etc.			
Corniferous	262	552	
Limestone			

Wellington County

E. R. Wilson and Associates

G. Snow No. 1, lot 16, con. A, Peel tp.

Completed May 18, 1946.
Dry hole.

Formation	Depth, ft.
Surface	302
Shale and lime	385
Grey lime	395
Brown lime	421
Grey lime and black streaks	440
Grey and brown lime	578
Hard white lime	605
Very hard white lime (crevicy)	625
Soft blue shale and layers of drab limestone	705
Red shale	735

Show of gas at 245, 470, and 380 feet.
Fresh water at 50 and 240 feet.

3

Section VI: Pilkington Township

Chapter VII:Wellington County

The Harkness Files
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Well Records in Ontario—Continued

	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
3300'S'ly of NE Road 130 E of NY Rd. Elev. 1299 Imperial Oil Co Pilkington Twp. Wellington County lot 6 Con V. J. Stickney farm Rept 11th 1900 & Oct 31st 1900 Muller Smith & James			
Surface 105' 61. Coarse	130	130	1698
Rock & gravel 67 - 105 61' - 10 4	40	170	1299
Lime 79 184 105' - 8 1/4	17	187	-391
Yellow Lime 331 515 595' - 6 1/4	20	207	
Light 55 570	340	547	
Red Rock 3 573 Wat[illegible] bene to	114	661	
Break (shale?) 27 600 Elev. 1375 Knight 1305' Rom Clark	459	1,120	
Lime 40 640			
Red Rock 295 1035	187	187	
Slate 265 1600	320	507	
Black shale 90 1690	40	547	
Trenton 700 2390 2334	200	747	
Show O gas at 644 ft in Trenton	180	927	
	160	1,087	
	170	1,257	

Elev Trenton -391

Be

Same well as above

Wellington County IMPERIAL OIL Co

near Alma. J. Stickney Farm Elev. 1299

(Ont Bur Mines 1905 p. 24 gives depth as 2930

Pilkington tp., l. 6, con. V (Ont. Bur. Mines, Vol. XV, Part I, p. 110): Oct. 31st 1900

Surface deposits	103	103	2,335 Gas enough for 2 stoves
Onondaga			
Dolomite and limestone	252	355	
Guelph and Niagara			Big flow sulphur water - 140
Light coloured and yellow limestone and dolomite.	215	570	
Shales, red 1st 5 feet	30	600	
Clinton			
Hard limestone	42	642	
Medina			
Red shale	393	1,035	
Hudson River			
Light blue shale	565	1,600	
Utica			
Black shales	85	1,685	
Trenton			
Limestone	695	2,380	
Calciferous			
Arkose sandstone	5	2,385	

~~Top of well 1,375~~ 1299 feet above sea level.

Peel tp., l. 5, con. III (Ont. Bur. Mines, Vol. XV, Part I, p. 110):

Surface deposits			2,506 Gas
Gravel with pieces of limestone	35	35	
Onondaga			
Dolomite and limestone	517	552	
Guelph and Niagara			
Dolomite and limestone	220	772	

Well Records in Ontario—Continued

Localities and formations	Thickness Feet	Depth Feet	Depth at which oil or gas occurred
Brant County—Continued			
Brantford, two miles southeast of Bow Park farm, Well No. 4 (Ont. Bur. Mines, Vol. XIV, Part I, p. 107):			
Surface	72	72	420 Gas
Onondaga, Guelph and Niagara			530 ,,
Limestone, etc.	293	365	542 Oil
Niagara			
Black shales	50	415	
Clinton			
Dolomite	15	430	
Medina			
Red shales	45	475	
Blue shales	30	505	
Grey sand (hard)	20	525	
White sandstone	7	532	
Red shales	92	624	
Brantford (Ont. Bur. Mines, Vol. XV, Part I, p. 112):			
Surface deposits	45	45	A little Gas
Onondaga, Guelph and Niagara, Clinton			on top of
Limestones, dolomites and shales	370	415	Trenton
Medina			
Red sandstone, red and blue shales and white sandstone	100	515	
Medina, Hudson River, Utica			
Red, blue and black shales	1,435	1,950	
Trenton			
Limestone	210	2,160	
Top of well about 730 feet above sea level.			
Brantford, Bow Park farm, Well No. 7 (Ont. Bur. Mines, Vol. XIV, Part I, p. 107):			
Surface	45	45	479 Small
Onondaga, Guelph and Niagara			flow of Gas
Limestone	276	321	
Niagara			
Black shales	45	366	
Clinton			
Dolomite	15	381	
Medina			
Red shales	30	411	
Blue shales	35	446	
Grey sand	25	471	
White sandstone	10	481	
Red shales	135	616	
Other wells drilled on Bow Park farm present somewhat similar logs.			
Onondaga tp., l. 5, con. I (W. J. Aikens):			
Surface	72	72	Small flow
Limestone and shale	71	143	of Gas in
Niagara limestone	205	348	Clinton
Shale	30	378	
Clinton limestone	25	403	
Red Medina	35	438	
Grey shale	50	488	
White Medina	12	500	
Red shale	600	1,100	
Grey shale	675	1,775	
Utica black shale	125	1,900	
Trenton limestone	695	2,595	
Potsdam sand	30	2,625	
Granite			

Section VII: Puslinch Township

Chapter VII:Wellington County

The Harkness Files
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Wellington County

BOLLERT G. AND P. FIELD SYNDICATE, KITCHENER
5½ Lot 7, con. IV, Puslinch tp. Elev 1038
Completed June 25, 1928. R.P. 215
Deepened January 31, 1929.
Dry hole. Gas at 2526 Est 20 M.

Formation	Thickness, ft.
Surface	58
Guelph, buff	95
Lockport	215
Clinton	2
Medina-Cataract	58
Manitoulin	25
Whirlpool—Richmond (Queenston) red shale	450
Lower Richmond and Dundas grey shale	665
Utica and Collingwood grey and black shale	113
Trenton and Black River grey limestone and shale	645
Arkose	38
Pre-Cambrian granite	20
	2,384
Deepened:	
Granite	286
Total depth	2,670

Plugs at 1905 and 2377

Wentworth County

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 10, con. V, Glanford tp.
Completed May 23, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	104
Niagara	211
Shale.	
Clinton	12
Shale	35
White Medina	10
Queenston	12
Total depth	384

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 6, con. VI, Glanford tp.
Completed July 26, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	83
Niagara and lime	205
Shale	23
Clinton	4
Total depth	315

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 12, con. VI, Glanford tp.
Completed June 19, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	128
Niagara	172
Rochester	48
Clinton	28
Red Medina	23
Shale	58
Whirlpool	12
Queenston	1
Total depth	470

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 10, con. IV, Glanford tp.
Completed July 6, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	60
Niagara and lime	195
Shale	40
Clinton	15
Red Medina	3
Total depth	313

Aloka Oil Co. Toronto
5½ lot 7 Con IV Puslinch
Completed July 25th 1933
Dry Hole Elev. 1038'

Formation	~~52~~	
Surface	~~303~~	52
Guelph & Lockport	~~27~~	303
Rochester shale	~~3~~	24
Clinton	~~5~~	3
" shale	~~13~~	5
Cabot Head shale	~~115~~	13
Manitoulin Dolomite	~~447~~	~~845~~
Big Red shale	~~675~~	447
" Grey shale	~~1200~~	675
Utica Shale	~~647~~	120
Trenton	~~20~~	647
Arkose		23
Granite		171
		2531

Show of gas at 2357
Fresh water at 60, ~~80~~ 240
Salt " " ~~408~~ and ~~448~~

well missing

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed June 6, 1928.
Open flow: 17,000 cu. ft.
Rock pressure: 400 lbs.

Formation	Thickness, ft.
Surface	129
Brown and grey lime	129
Flint and lime	92
Lime	40
Shale	395
Niagara	215
Grey shale (Rochester)	64
Clinton	20
Red Medina sand	18
Grey sand	10
Shale (Cabot Head)	81
White Medina	8
Queenston	40
Total depth	1,241

Gas at 1,198 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, gore, Woodhouse tp.

Completed July 17, 1928.
Open flow: 37,000 cu. ft.

Formation	Thickness, ft.
Surface	125
Brown and grey lime	130
Flint	115
Lime	30
Shale	375
Niagara	218
Shale	58
Clinton	23
Red Medina	21
Shale	82
White Medina	8
Red shale	42
Total depth	1,227

Gas at 1,177 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 3, con. III, Woodhouse tp.

Completed September 27, 1928.
Open flow: 4,000 cu. ft.

Formation	Thickness, ft.
Surface	135
Grey and brown lime	85
Flint	120
Lime and shale	395
Niagara	228
Shale	52
Clinton	42
Red Medina	10
Blue shale	76
White Medina	12
Red shale	4
Total depth	1,159

Gas at 1,027 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 2, con. III, Woodhouse tp.

Completed November 17, 1928.
Open flow: 26,000 cu. ft.
Rock pressure: 500 lbs.

Formation	Thickness, ft.
Surface	157
Grey and brown lime	80
Flint	123
Mixed limestone and slate	395
Niagara lime	225
Shale	64
Clinton sand	42
Red Medina sand	8
Blue shale	68
White Medina sand	9
Red shale	3
Total depth	1,174

Gas at 1,059 feet.

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed October 24, 1928.
Dry hole.

Formation	Thickness, ft.
Surface	147
Lime	118
Flint	115
Lime	40
Mixed shale	380
Niagara lime	205
Shale	66
Clinton sand	23
Red Medina sand	15
Blue shale	91
White Medina sand	8
Red shale	6
Total depth	1,214

DOMINION NATURAL GAS CO., BUFFALO, N.Y.
Lot 1, B.F., Woodhouse tp.

Completed September 5, 1928.
Open flow: 134,000 cu. ft.
Rock pressure: 550 lbs.

Formation	Thickness, ft.
Surface	166
Lime	119
Flint	115
Lime	40
Mixed shale	370
Niagara lime	220
Shale	62
Clinton sand	22
Red Medina	15
Blue shale	85
White Medina	12
Red shale	40
Total depth	1,266

Simcoe County

ROBERT CHERRY, COLLINGWOOD
Opposite lot 39, con. V, Georgian Bay shore, Nottawasaga tp.

Completed December, 1928.
Open flow: 200,000 cu. ft.

Formation	Thickness, ft.
Surface	1
Hard grey lime	69
Soft grey shale and lime	18
Hard dark-grey lime	72
Soft lime and shale	65
Hard grey lime	17
Blue shale	1
Hard lime	9
Soft lime	1
Hard lime	17
Very hard lime	18
Soft lime, 1 inch.	
Very hard lime	4
Soft shale	1
Hard white lime	22
Soft shale	12
Hard lime	35
Coarse white sandstone	1
Fine red sandstone	1
Total depth	364

Show of gas at 22, 72, and 214 feet.
Large flow at 315 feet.
Strong flow of salt water at 364 feet.