FORTY-FIFTH ANNUAL REPORT

OF THE

ONTARIO DEPARTMENT OF MINES

1936

PART V



HON. PAUL LEDUC, Minister of Mines

T. F. SUTHERLAND, Deputy Minister

FORTY-FIFTH ANNUAL REPORT

OF THE

ONTARIO DEPARTMENT OF MINES

BEING

VOL. XLV, PART V, 1936

Natural Gas in 1935, by R. B. Harkness - - 1-74

Petroleum in 1935, by R. B. Harkness - - 75-79

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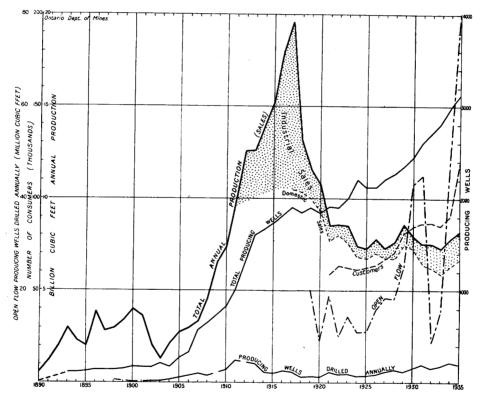
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NATURAL GAS IN 1935

By R. B. Harkness

General

Again the consumption of natural gas in Ontario shows a substantial increase, being 8,185,825 million cubic feet in 1935, as against 7,682,851 million cubic feet in 1934, with a value of \$4,938,004, as against \$4,741,368. This increase was apparently due entirely to an increase in the number of customers, the total now being 119,457, as against 89,990 in 1934, or an increase of over 27 per cent.



Graph of the natural gas industry in Ontario for the past forty-five years.

It will be noted in Table II and in the graph above that these consumers are using a smaller amount each year. The general improvement in appliances has accounted for a certain reduction in the per customer consumption, but the sudden drop in 1935 is difficult to explain, unless, as in London, the increase in consumers throughout the gas-using municipalities came at the end of the year.

The 27 per cent. increase in customers will cause a heavy draught on the reserves in the old gas fields; but fortunately the available supply, as reflected in the open flow of new wells, has shown a large increase in the past two years, 1935 being well above any year on record. It would have been better if this open flow had come from a greater number of new wells, for even with this excellent showing it is evident that exploratory work must be carried on still more vigorously in the future.

In the year 1935 two producing wells were drilled in Dereham township, Oxford county, and they may be considered as a new discovery, although the results obtained leave much to be desired if the discovery is to develop into a



A section of the Union Gas Company's 10-inch pipe line from the Dawn gas field to London. This pipe has been coated with a rust-resisting material and is now ready to be lowered into the trench.

gas field of importance. The gas is sour gas (high in hydrogen sulphide, and similar to a discovery referred to last year'), which renders it unfit for domestic consumption in an area where only sweet gas is distributed. It remains for further development to indicate whether there is a sufficient volume to demand a purification plant in this area.

Exploratory drilling was carried out in Bruce county with indifferent results and in Beverly township, Wentworth county, with negative results. In Chatham township, Kent county, development work is still going forward, but so far with negative results. Further extensions were made to the Declute field in Raleigh township, the Dover field has been extended in Raleigh township, and extensions were made to the Bayham gas field.

¹Ont. Dept. Mines, Vol. XLIV, pt. 5, 1935, p. 11.

TABLE I-NATURAL GAS PRODUCTION BY FIELDS, 1932-1935

County	Field	1932	1933	1934	1935
Kent	Haldimand	275,958 170,671 45,708 365,638 1,453,864 140,612 500	M cu. ft. 4,201,704 252,694 265,061 45,968 346,621 1,524,251 121,578	M cu. ft. 4,093,186 363,344 517,009 51,483 354,274 1,801,160 109,486 500	M cu. ft. 4,161,186 935,446 411,944 116,118 472,993 1,576,323 120,461 400
Welland	Howard and Sarnia	351,616 15,515 60,000	333,619 14,663 60,000	318,409 14,000 60,000	290,119 14,000 60,000
Total produced		7,386,154	7.166,659	7,682,851	8,158,825
Value		\$4,719,297	\$4,523,084	\$4,741,368	\$4,938,084
Imported mixed gas		M cu. ft. 111,727	M cu. ft. 97,075	M cu. ft. 102,667	M cu. ft. 98,848
Total distributed		7,497,881	7,263,734	7,785,518	8,257,673

TABLE II—DOMESTIC CONSUMPTION OF NATURAL GAS, CAPITAL INVESTED, AND WAGES PAID, 1921–1935

Year	Retail rate, cents per M cu. ft.	No. of pay consumers	Total quantity used	Quantity used per consumer	Capital invested in all natural gas operations ¹	No. of men employed	Wages paid
1921	47 47 50 55 56 57 60 60 58 64 62 63 63 63 62 60	58,609 63,229 62,352 61,100 62,338 63,695 66,818 70,259 80,991 84,135 86,050 86,631 84,933 89,990 118,719	M cu. ft. 5,937,316 6,028,947 6,210,459 5,933,595 5,300,424 5,595,521 5,210,315 5,699,553 6,336,873 6,332,519 5,607,744 5,409,154 5,102,340 5,262,631 5,553,902	M cu. ft. 101.3 95.3 99.6 97.1 85.6 87.8 78 71.2 75.2 65.1 62.2 60 58.5 46.8-522	\$17,328,757 17,769,664 25,570,972 24,781,723 26,111,387 30,500,874 31,987,879 36,601,828 35,162,736 36,162,268 42,921,142 45,982,719 51,766,592 41,934,395 42,975,846	632 692 603 727 692 860 1,123 1,209 1,323 1,328 1,241 893 958 931 1,273	\$592,606 539,072 633,365 639,167 625,826 842,305 1,148,339 1,497,999 1,529,367 1,545,648 1,383,286 1,059,643 958,336 1,010,979 1,219,520

 1 This includes capital invested in drilling, producing, and distributing. 2 See page 4.

Analysis of Gas Consumption

Tables III and IV give in detail the analysis of natural gas consumption in all the gas-consuming municipalities in Ontario during 1935. Similar tables have been published since 1921, and these enable a comparison to be made of the quantity of gas used at varying rates over a period of fifteen years.

In general, the steady improvement in the efficiency of appliances and the introduction of automatic appliances has reduced the consumption of natural

gas per consumer, but seasonal changes of temperature and wind velocity, as well as the variation in the price of competitive fuels, has a very considerable effect on the annual quantity of gas used in the homes of Ontario.

An error in the reported number of consumers in the Border Cities in 1934 has been corrected in Table II, and a corresponding correction in the quantity used per consumer shows that there was a decrease from the year before, instead of an increase as indicated in the report of last year. Two numbers are given under quantity used per consumer for the year 1935, the smaller one (46.8) is the average for the figures as given in the table, but as 14,674 consumers in the city of London used gas only in the last three months of the year, the average is not accurate; the second figure (52) is a calculation with the London consumers omitted.

In addition to the capital invested by operating companies in the natural gas industry, as shown in Table II, the consumers have invested in equipment of all kinds at a low valuation \$7,000,000, an investment that is increasing annually.

The rates for natural gas in Ontario, as indicated in the right-hand column of Tables III and IV by letters of the alphabet, are given in detail below. This will afford a much better basis of comparison than the maximum and minimum rates previously shown in these tables. These rates are net rates, but in some cases there is an additional charge for meter rental. Meter rental is either fixed by agreement between the company and the municipality, or by the company under the Public Utilities Act, R.S.O. 1927, Chapter 249, Section 46 (2). It should be noted that further steps in some of the rates in favour of large commercial users have been omitted, strictly domestic rates only being given.

NATURAL GAS RATES, 1935

Classi- fication letter	Season, company, or locality	Classification according to amounts of gas used	Net rate and seasonal discount
A		Up to 10M cu. ft	85c. per M cu. ft. 60c. per M cu. ft.
В	October to April	Over 20M cu. ft	55c. per M cu. ft. 60c. per M cu. ft. 70c. per M cu. ft. 80c. per M cu. ft.
c	October to April	Up to 10M cu. ft From 10M to 20M cu. ft Over 20M cu. ft	50c. per M cu. ft. 55c. per M cu. ft. 65c. per M cu. ft. 75c. per M cu. ft.
D	Į.	Up to 10M cu. ft	40c. per M cu. ft. 45c. per M cu. ft. 55c. per M cu. ft. 65c. per M cu. ft.
E	Į.	Up to 10M cu. ft	60c. per M cu. ft. 65c. per M cu. ft. . 55c. per M cu. ft. 85c. per M cu. ft.
F	Where imported mixed gas is used	Less than 1M cu. ft	\$1.50 \$1.00 per M cu. ft. \$1.30 per M cu. ft. Additional charge for duty \$1.00 per M cu. ft.

NATURAL GAS RATES, 1935—Continued

Classi- fication letter	Season, company, or locality	Classification according to amounts of gas used	Net rate and seasonal discount
G		Minimum bill	80c. 80c. per M cu. ft. 65c. per M cu. ft. 55c. per M cu. ft.
н		Up to 5M cu. ft	\$1.00 per M cu. ft. 90c. per M cu. ft. 60c. per M cu. ft.
I		Up to 5M cu. ft	\$1.00 per M cu. ft. 90c. per M cu. ft. 80c. per M cu. ft. 70c. per M cu. ft. 60c. per M cu. ft.
J	October to April, discount (Up to 200 cu. ft	40c. per hundred cu. ft. 70c. per M cu. ft. 60c. per M cu. ft. 45c. per M cu. ft. 15 per cent. 10 per cent. 10 per cent.
К	October to April, discount May to September, discount	Up to 200 cu. ft From 200 cu. ft. to 5M cu. ft From 5M cu. ft. to 10M cu. ft Over 10M cu. ft On bills under \$5.00 On bills between \$5.00 and \$10.00 On bills under \$5.00	40c per hundred cu. ft. 75c. per M cu. ft. 65c. per M cu. ft. 50c. per M cu. ft. 15 per cent. 10 per cent. 10 per cent.
L	Fonthill-Ridgeville { Gas Co. Dominion Natural Gas Co.	First 400 cu. ft., minimum charge Over 400 cu. ft.	85c. 75c. per M cu. ft. 75c. per M cu. ft.
	Saltfleet township	Up to 15M cu. ft	75c. per M cu. ft. 55c. per M cu. ft. 75c.
N		Up to 1M cu. ft	\$1.00 per M cu. ft. 80c. per M cu. ft. 65c. per M cu. ft. 55c. per M cu. ft.
0	Port Colborne	Up to 5M cu. ft	80c. per M cu. ft. 70c. per M cu. ft. 55c. per M cu. ft. \$2.00 per M cu. ft.
P		200 cu. ft. or less	\$1.00 60c. per M cu. ft.
R	May to October	Up to 10M cu. ft	70c. per M cu. ft. 55c. per M cu. ft. 65c. per M cu. ft. 55c. per M cu. ft.
s		Up to 5M cu. ft	90c. per M cu. ft.

TABLE III—GAS CONSUMPTION IN TOWNS AND CITIES, 1935

Town or city	Popu-	No. of consumers		Quan	tity cons	Dist- ance from	Net rate per	
·	lation	Pay	Free	Pay	Free	Industrial	gas field	M cu. ft.
				M cu. ft.	M cu. ft	M. cu. ft.	miles	
Alvinston	650	198	1	10,761	4	484	20	A
Aylmer	1,990	680		26,535			16	70c.
Bartonville	602	128		5,850	l .		19	60c.
Belle River	719	146		10,337		563	29	B
Belmont	317	117	···;·	3,508	300		9	\$1.00
Binbrook	$100 \\ 1,702$	14 583	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	$\begin{array}{c} 216 \\ 52,734 \end{array}$	140	4,002	$\frac{1}{20}$	50c. C
Bothwell	685	136	l i l	9,306	14	1,002	14	A
Brantford	30,611	4,584	$\hat{2}$	212,161	1,231	12,423	140	Ğ
Brigden	433	160		8,452		278	30	B
Burlington	3,562	283		26,095			48	H
Cainsville	324	100		4,411			4	G
Caledonia	1,475	495	· · · ·	35,857		18,054	7	60c.
Canfield	166	60	$\begin{vmatrix} \cdot \cdot \\ i \end{vmatrix}$	4,238	06	906		60c.
Cayuga	693	215 4,033	$\begin{vmatrix} 1\\3 \end{vmatrix}$	$18,361 \\ 374,162$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c} 286 \\ 17,749 \end{array}$	6	60c.
Coatsworth	10,140	23	1	1,314	53	101	$\begin{array}{c c} 22 \\ 4 \end{array}$	J D
Comber	506	136		13,045		3.546	19	Č
Cottam	425	73	2	5,648	156	103	35	60c.
Courtland	348	46		2,663		111	3	60c.
Courtright	338	106	1	5,861	75	609	53	C
Crystal Beach	529	176	• • • •	2,816	· · · · · · ·	<u></u> .	1	F
Delhi	1.269	424	··•	29,578		387	4	60c.
Dorchester	1,469	116 484	$\left \begin{array}{c} 1 \\ 2 \end{array} \right $	6,749 41.449	$\begin{array}{c} 89 \\ 143 \end{array}$	759	95	E C
Dundas	5.032	1,127	$\begin{vmatrix} \frac{7}{2} \end{vmatrix}$	53.834	29	5.154	$\begin{array}{c} 38 \\ 172 \end{array}$	70c.(M.B. ¹
Dundus	0,002	1,12.	-	00,001		0,101	112	\$1.00)
Dunnville	3,632	994	3	90,690	422	11,100	7	60c.
Dutton	798	237	3	19,058	251	732	52	В
Echo Place	732	73	[• • • •]	3,336		· · · · · · · · · · · ·	5	G
Eden	76 1,786	28 458	1	1,384	151	0.051	11	60c.
Fairground	75	15		$\begin{array}{c} 38,072 \\ 454 \end{array}$		2,251	33 1	В 60с.
Fenwick	328	96		5,754			18	75c.
Fingal	169	29		2,105			71	B
Fisherville	162	47		3,388		57	2	50c.
Florence	184	66		3,500			5	J
Fonthill	872	254		6,786			25	Ŀ
Fort Erie	5,366	$1,380 \ 2,227$	$\left egin{array}{c} 2 \ 1 \end{array} \right $	53,184	1,615	7 004	8	F
Grimsby	14,057	275		$89,502 \\ 8,198$	19	7,994	147 10	G 85c.
Grimsby Beach	1,952	60		$\frac{0,190}{2,082}$	1		10	85c.
Hagersville	1,355	409		29,424			14	60c.
Hamilton	153,504	10,236	3	360,703	1,038	583,607	$\hat{47}$	M
Hepworth	380	5	2	100	300		1	75c.
Hespeler	2,798	340		16,543	470	1,152	155	N
Highgate	343 5.104	$\begin{array}{c c} 107 \\ 1,016 \end{array}$	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	8,503	472	0 541	32	R
Inwood	$\frac{5,104}{250}$	83		$\begin{array}{c} 45,547 \\ 3,752 \end{array}$	279	2,541	100 14	G A
Jarvis	531	202		16,191			9	60c.
Kingsville	2,354	633	1	58,573	202	125	30	55c.
Lake Shore		290		4,340			16	F
Lambeth	172	118		8,690			85	K
Leamington	5,004	1,412		134,486		7,193	20	55c.
London	73,880	14,674	3	145,735	438	8,950	55	K
Lynedoch	175	144		2,919	1 604	1 407	$\frac{2}{9}$	60c.
Merritton	$\begin{array}{c} 190 \\ 2,490 \end{array}$	$\frac{144}{456}$		$11,002 \\ 14,955$	1,604	$\begin{array}{c c} 1,437 \\ 3,472 \end{array}$	25	D 75c.
Nelles Corners	86	7		812		0,412	$\begin{array}{c c} 35 & \\ 1 & \end{array}$	19c. 60c.
Niagara Falls	18,193	0 000 1		00 00 4		17,333	11	F
•	-,	,,,,,,,,,,]	,021		11,000		•

TABLE III—GAS CONSUMPTION IN TOWNS AND CITIES, 1935—Continued

Town or city	Popu-				umed	Dist- ance from gas	Net rate per M cu. ft.	
	lation	Pay	Free	Pay	Free	Industrial	field	
Oil Springs	462	125		M cu. ft. 7.156	M cu. ft	M. cu. ft.	miles 2	R
Oil Springs	4.300	888	2	41.640	175	7,787	129	Ĝ
Petrolia	2,715	771	ī	69,563	388	1,214	60	$\check{\mathbf{B}}$
Port Burwell	423	239	1	10,185	42	1,214	3	60c.
Port Colborne and	420	209	1	10,100	12		"	000.
Humberstone	7,860	1,842	4	79,701	319	300	5	O
Port Dover	1.692	570	- 1	41,907	010	329	1	60c.
Port Rowan	692	237		12,606		525	i	60c.
Preston	6.290	911	i	37,869	83	2,704	151	Ğ
Ridgetown	1.914	635	4	55,979	1,964	1,714	28	č
Ridgeway	1,100	227		12,258		1,	l jil	ř
Rodnev	750	232	1	15,581	100	377	40	B
St. Anns	120	24		865			7	85c.
St. Catharines	26,400	5,322	1	219,209	485	31,634	35	70c.
St. George	510	123		3,993		01,001	148	80c.
St. Williams	270	106		4,830		485	ĩ	60c.
Sarnia and Pt. Edward	18,956	5,160	1	307,011	1,688	32,660	$5\overline{5}$	В
Selkirk	196	138	î	9,393	82		i	60c.
Shedden	235	89		5,861		366	63	В
Simcoe	5.200	1.821	2	172,583	892	11,901	20	60c.
Smithville	570	174		7,158			6	75c.
Sombra and Port				,,				
Lambton	420	155		9.805		156	45	С
Stevensville	420	30		1,650	 .	.	1	F
Straffordville	255	92		6,351		308	6	60c.
Thamesville	765	239	2	15,666	33	2,329	13	J
Thorold	4,950	1,049		35,896	. .	765	35	75c.
Tilbury	1,900	547	2	43,926	626	3,883	14	С
Tillsonburg	3,380	1,095	1	80,903	459	94,048	16	63c.
Vienna	225	87	1	4,118	77		1	60c.
Vittoria	205	78		4,121			3	60c.
Wallaceburg	4,460	1,176	1	93,932	337	368,655	19	<u>c</u>
Wallacetown	143	45	1	3,200	36	548	60	B
Waterdown	900	21		1,163			45	I
Waterford	1,213	182		10,671		146	30	P
Welland	10,600	2,898	6	80,017	847	3,160	3	F
West Lorne	775	161	1	11,001	128	348	49	В
Wheatley	755	224		16,336	1	148	12	Ē
Windsor (Border Cities)		19,169	3	1,105,496	7,107	254,897	45	K
Woodstock	11,007	2,072	3	96,433	215	3,337	110	G
Wyoming	505	145	1	8,747	6		65	A
Total		110,204	85	4,999,313	29,415	1,536,752		

¹M.B.—Minimum monthly bill.

TABLE IV—GAS CONSUMPTION IN TOWNSHIPS, 1935

	Popu-		of of of	Quar	ntity const M cu. ft.		Net
County and township	lation	Pay	Free	Pay	Free	Indus- trial	rate per M cu. ft.
ESSEX: Gosfield North Gosfield South Maidstone Mersea Rochester Sandwich East Sandwich South Tilbury North Tilbury West	2,164 2,311 2,976 4,929 2,260 5,376 2,066 1,920 1,554	107 503 71 365 193 10 111 33 18	2 7 2 7 1 2 1	6,868 34,960 5,454 27,160 13,530 765 7,992 2,367 1,298	213 1,436 706 1,226 359 790 	178 35,674 15,766	60c. 60c. B 60c. B B C
LAMBTON: Brooke Dawn Enniskillen Moore Plympton Sarnia Sombra	2,217 2,160 2,725 2,873 2,681 3,156 2,746	24 84 134 328 6	3 7	470 4,374 5,684 17,599 431	2,001	1,322 465 3,090	A D B B B B B B B
KENT: Camden Chatham Dover Harwich Howard Orford Raleigh Romney Tilbury East Zone	2,152 5,832 3,906 5,010 2,813 1,718 4,230 1,456 3,406 859	18 80 419 443 155 21 601 70 236 18	1 10 3 2 28 40 72	624 4,964 35,446 32,493 12,460 2,619 48,949 4,498 17,387 650	156 3,827 691 214 6,914 11,848 21,560	603 6,291 246 1,237	CCDCCCDDD
ELGIN: Aldborough Bayham Dunwich Malahide Southwold Yarmouth	2,708 3,265 2,357 2,714 2,397 5,030	19 74 54 46 109 38	1 18 3 2	733 3,047 3,055 1,473 6,506 686	394 3,122 303 131	391	B 60c. B 70c. B A
MIDDLESEX: North Dorchester Westminster	2,932 6,730	13 225		744 22,484			E K
Norfolk: Charlotteville	2,978 2,493 2,118 1,711 2,968 3,618 2,308	13 48 7 21 30 2 175	5 2 1 4 3 10	886 3,354 690 1,685 2,710 196 15,270	1,012 397 195 626 599 1,491		60c. 60c. 60c. 60c. 60c. 60c.
BRANT: Brantford Burford Onondaga South Dumfries Tuscarora	7,336 3,697 964 2,523 2,654	45 3 44 18 6	9	2,105 141 2,467 710 524	1,250		G G 70c. 80c. (M.B. ¹ 50c. 25c.
Oxford: East Oxford West Oxford	1,957 1,796	6 56		267 2,214			80c. (M.B. 50c. G

TABLE IV—GAS CONSUMPTION IN TOWNSHIPS, 1935—Continued

County and township	Popu-	No. consu			tity consu M cu. ft.	med,	Net rate per
County and township	lation	Pay	Free	Pay	Free	Indus- trial	M cu. ft.
HALDIMAND: Canborough Dunn Moulton North Cayuga Oneida Rainham Seneca Sherbrooke South Cayuga Walpole	840 805 1,590 1,282 1,301 1,608 1,590 350 580 3,145	94 138 160 47 66 160 146 25 56 333	41 10 13 11 8 26 35 7 11 55	5,587 6,248 6,415 3,672 3,494 8,192 9,498 2,271 2,189 19,353	7,230 868 1,959 2,283 1,379 4,222 6,379 762 2,853 8,550	1,224	60c. 60c. 60c. 60c. 60c. 60c. 60c. 60c.
LINCOLN: Caistor	1,260 2,090 5,010 2,905	57 68 9 10	5 7	2,188 1,593 522 590	370 470	155	60c. 60c. 75c. 75c.
WELLAND: Bertie Crowland Humberstone Pelham Stamford Wainfleet Willoughby	2,370 2,690 8,020	174 55 269 61 85 230 28	59 16 29 1 4 19 25	9,336 2,093 12,389 3,538 4,505 4,104 1,512	9,006 1,822 4,334 84 604 3,325 3,750		F F L F 60c. F
WENTWORTH: Ancaster Barton Binbrook East Flamborough Glanford Saltfleet	1,080 3,705	157 266 96 50 130 318	21	16,573 27,237 6,405 3,060 10,587 14,997	3,716	413	70c.(M.B.\$1.00) 60c. 60c. S 60c. M (M.B. 75c.)
WATERLOO: North Dumfries Waterloo		57 13		2,149 296	1		80c. (M.B. 50c.) G
Total		8,515	653	554,589	127,231	71,630	

¹M.B.—Minimum monthly bill.

Summary

	M cu. it.
Total distribution to customers	7,318,930
Used by companies for all purposes	51,091
Used by private well-owners	74,000
Leakage in transmission lines	
Leakage in distribution plants	
Leakage in rural lines	
Total amount of gas distributed	8.257.673

Gas Wells and Their Production

In Table V is given a summary of all the phases of the production of natural gas; much of this will be seen in comparison with previous years in the graph on page 1, in which the annual increase in the total of natural gas wells and the open flow of new wells drilled are shown, as far as records are available.

TABLE V-GAS WELLS AND THEIR PRODUCTION, 1935

		No. of	No. of		Wells drilled			Rock	Acres	Rental
County	Township	wells producing	wells abandoned	No. dry	No. producing	Open	Production	lbs. per sq. in.	under lease	paid
:	Gosfield South	26 3			က	M cu. ft.	M cu. ft.	150 250	881	\$446
:	Chatham. Raleigh Romney Tilbury Bast. Dover.	44 141 154 22		3.1	2 1 10	36,000 15 24,779	4,161,021	206 206 206 825	52,911	150,911
Lambton	Dawn. Enuiskillen Moore Sarnia	23 4					403,644 7,156 1,144	654 240 70	18,512 1,000 4,000 5,000	
Middlesex	MosaNorth Dorchester	ကက	: :					570		
:	Dereham	8		:	23	450	:	465	:	
:	Bayham	47	1	: :	6 :	6,917	811,911 {	600 210		
:	Charlotteville Houghton Middleton North Walsingham South Walsingham Townsend Windham	13 48 48 48 17 10 10 64	A	7 - 7	0 0 w	2,235	472,993	218 395 600 315 350 240 241 241		
			*							

112,458		-		089		:			:	\$264,495
300,406				46,500	20					440,686
91 122 123 120 233 90 230 230 248 251	40 72 58	69 106	110 150 58 57 210	82 90	100				:	
1,576,323			290,119	$\left. ight.$ 120,461 $\left.\left.\left.\left. ight. ight. ight. ight.$	400			14,0001	60,000³	8,158,825
324 37 1,012 679 847 600 4,838		196 37	%	112 376	80	30		:	:	80,400
13 21 15 16 16 13 50	5	4-1	1 5	က္	က	r	, :	:	:	196
x 9 2 2 2 x 2 4 1	1	: : : : : : : : : :	1	4 .	4	-				88
00000cc- 0		77		T 4						48
199 51 127 127 74 74 291 186 17 55	1 53 13	64 15	99 26 28 43 43	45 78	73	-	3	69 {	300	3,127
Canborough Dunn Moulton North Cayuga Oneida Sainham Seneca Sherbrooke South Cayuga Walpole	Ancaster Beverly Binbrook Glanford	CaistorGainsborough	Bertie Crowland Humberstone. Wainfleet.	OnondagaTuscarora	Amabel	Keppel	Caledon	HarwichHoward		
Haldimand	Wentworth	Lincoln	Welland	Brant	Bruce	Grey	Pee1	Surface wells	Private wells ²	Total

¹This gas is not metered and therefore must be estimated. The wells are owned privately, and the gas is used for domestic purposes. ²Principally in Haldimand, Norfolk, and Welland counties. ³Estimated.

A comparison of this table with that for 1934 shows the extraordinary results obtained from two wells in the Declute field in Raleigh township. The Dover field is second in average open flow; 2 dry wells to 10 producing wells were drilled in 1935, as compared with 7 dry wells and 1 producing well in 1929, at which time practically all drilling in this field stopped. The tracing of the trend of the Dover fault in the past two years has been the cause of the great increase in producing wells in 1935.

In the Eden field in Bayham township excellent results have been obtained; 9 wells were drilled, none of which were dry. The average open flow is very high for this area, as is the rock pressure, and the field shows considerable promise.

In Middleton township, Norfolk county, two wells at comparatively shallow depth show a very high average open flow, but unfortunately they are not useful for domestic purposes, on account of the high hydrogen sulphide content of the gas; of necessity the total output is being diverted to industrial use.

In Haldimand county and in the adjacent counties, there were fewer wells drilled than in 1934, but the open flow compares favourably with that of last year. It will be found of interest to compare the average open flow of new wells in the different parts of Haldimand county. The rule appears to be that the deeper wells have a higher rock pressure and open flow than the shallower wells in the same formation. The gradation of open flows can be easily followed by referring to this table.

The Haldimand field shows the greatest increase in dry holes. This is to be expected, for since 1929, 1,052 producing wells and 362 dry holes, a total of 1,414 wells, have been drilled within the limits of this old gas field, which includes the adjacent portions of Brant, Wentworth, Lincoln, and Welland counties. If each well were drilled on 25 acres, which is a low estimate, the number of wells would represent 35,350 acres drilled, of which 26,300 acres is productive. Should drilling continue at the present rate, it must extend beyond the limits of the present field.

Fifty-four drilling rigs were in operation in 1935; they drilled 88 dry holes, with a total footage of 84,601 feet, and 201 producing wells, with a total footage of 194,930 feet; in all, 279,531 feet, or 6,320 feet more than in 1934. The acreage under lease shows a decline of about 11,000 acres, but the rental paid shows an increase of \$12,846.

Drilling contractors in the natural gas fields of Ontario have an investment of \$294,623 and employ 184 men, to whom they pay \$129,611 in wages. These figures are included in Table II.

Gas Wells Drilled in 1935

The total number of gas wells drilled, both dry and producing, is only seven less than in 1934, but the proportion of dry holes in 1935 is considerably higher, 31 per cent. in 1935 as against 26 per cent. in 1934. It is to be expected that the proportion of dry holes will increase as the more favourable locations within the gas fields are drilled, and with the absence of new locations within the gas field must come more exploratory drilling.

The greatest activity in drilling is still centred in Walpole township, Haldimand county, although drilling activity has fallen off slightly in 1935. Other centres of activity are in Dover and Raleigh townships, Kent county; Bayham township, Elgin county; and Dawn township, Lambton county, where the success met with last year caused considerable interest.

Exploratory work has been carried out in Norfolk county, in Houghton and South Walsingham townships; in Oxford county, where two producing wells

were drilled in Dereham township, the gas, which is of the sulphur variety, coming from the Guelph formation, as in the sulphur-gas wells in Middleton township referred to in last year's report¹; and in Chatham township, Kent county, where exploratory drilling has been carried on for the past two years with indifferent success.

Additions and Improvements

City of London

The city of London had been served with manufactured gas from 1854, when the coal-gas plant was built, to September, 1935. The City Gas Company was purchased by the Union Gas Company of Canada, Limited, and in August, 1935, they began laying a 10-inch gas transmission line from the Dawn gas field



Welding the section of the pipe line to London that is to be laid under the Thames river.

to the city limits of London, a distance of about 55 miles, where it connected with the mains of the City Gas Company. The pipe line was laid about $2\frac{1}{2}$ feet underground, and the lengths were connected together with "Dresser couplings." The Sydenham and Thames rivers were crossed, but did not present any serious engineering difficulties.

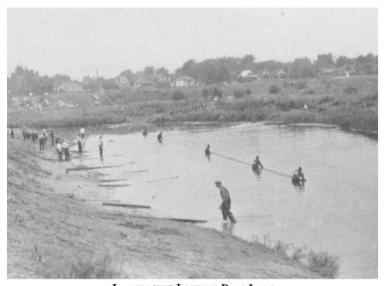
On September 23, natural gas was introduced into the distribution plant, and at the same time about 300 specially trained men began work on a carefully prepared plan of converting the appliances in use from 530 B.t.u. manufactured gas to 1,045 B.t.u. natural gas, taking the city section by section. The work consisted mainly of changing the spuds and pilot-lights and adjusting the air-shutters of the burners. Natural gas requires about ten parts air mixed with the gas as against about five parts air with manufactured gas; in order to use the same burners the opening in the spud should be reduced about 50 per cent. and the air part opened slightly. This change occupied about two weeks' time.

Ont. Dept. Mines, Vol. XLIV, pt. 5, 1935, p. 11.

Demonstration in the use of natural gas had been carried on in different parts of the city for some weeks prior to the change-over, in order to familiarize the public with the proper adjustments of appliances, particularly the proper flame length and its relation to complete combustion. At the same time the gas company inspected every appliance and put it in fit condition to use natural gas; vents and flues were installed where none existed. The result was that the change-over was completed with only one fatality, and this resulted from a water heater installed by some incompetent person without the knowledge of the gas company.

Tilbury Gas Field

The Southern Ontario Gas Company, Limited, completed the necessary changes in their system in the Tilbury gas field for bringing raw gas to their



LAYING THE LONDON PIPE LINE

After all the lengths of pipe are welded together a plug is put in each
end and the section is rolled into the river and floated into position.

purification plant at Glenwood. These included duplication of the 8-inch pressure field lines and the installation of additional compressor capacity. The sulphur content of the raw gas, which is 350 grams per cubic foot, is reduced in the purification plant to approximately 15 grams per cubic foot¹ before it is passed into the transmission lines for distribution. Prior to 1935, unpurified gas was supplied by the Southern Ontario Gas Company, in Romney, Mersea, and Gosfield townships; the consumers in Mersea and Gosfield had been accustomed to a sulphuretted hydrogen gas since 1890, when the old Leamington field supplied this area, and while consumers in the counties east of Kent complained bitterly of this evil-smelling gas, those to the west had become so familiar with the odour that they made no objection. The one great objection to the use of "sulphur" gas is its corrosive action on copper and brass. Most water heaters have copper coils, and the latest stoves and furnaces are equipped with brass

Ont. Dept. Mines, Vol. XXXIV, pt. 5, 1925, pp. 7, 8.

fittings; in order to make these available to customers it became necessary to purify the gas. The citizens of these townships, including the towns of Leamington and Kingsville, may now enjoy modern gas-burning equipment heretofore denied them.

The Southern Ontario Gas Company exercised their rights in Yarmouth township, obtained the year before, and laid four miles of 4-inch high pressure pipe line to the suburbs of the city of St. Thomas in Yarmouth township, where a distribution plant was installed and these residents supplied with natural gas. A long section of the Southern Ontario Company's transmission lines in Dunwich township was repaired.

The Dominion Natural Gas Company, Limited, report having carried out leakage surveys in Port Dover, St. Catharines, Dunnville, Wheatley, Merritton, Dundas, and Simcoe, and along their transmission lines.



LAYING THE LONDON PIPE LINE

A gang of men at each end pull the pipe into place in the ditch and then connect each end to the pipe line with Dresser couplings.

Small extensions have been made in many distribution plants to supply the growing population of towns, and this is reflected in the general increase of gas consumers in the province.

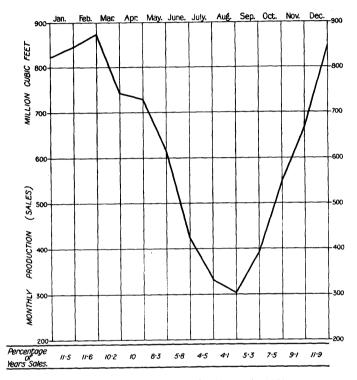
Monthly Demand for Natural Gas

Within the past five years the number of small companies producing natural gas for sale to distributing companies has increased enormously; very few of these are managed by men experienced in natural gas production, and scarcely any by men with knowledge of gas distribution and the fluctuation in daily and monthly demand.

Most transmission pipe lines in Ontario are 8 and 10 inches in diameter. The longest line, from the Tilbury gas field to Hamilton, is 12 inches in diameter for a little less than half of its length. A pressure is maintained on these pipe lines that will deliver a given quantity of gas to the various markets at a predetermined pressure at that market. Most distribution plants are so designed that a pressure of 20 pounds per square inch at the regulators in the distribution plant will give a sufficient supply and pressure to each consumer. If this pressure falls below the minimum, the service is impaired. As regulators in the distribu-

tion plant maintain an even pressure at the consumer's appliance of from 4 to 6 ounces per square inch, raising the pressure on the transmission line above the minimum does not benefit anyone, and would only result in an unnecessary increase in the leakage on the transmission line.

The responsibility for delivering sufficient gas to maintain a pressure of 20 pounds per square inch in the distribution plant rests with the superintendent in the gas field. In winter he must be prepared to increase and in summer to curtail deliveries. The above graph shows this monthly variation. It is impractical to show the daily fluctuations in the demand for gas; but everyone is familiar with the sudden changes in temperature, as between a warm day



Load curve of natural gas distributed in 1935.

followed by a cold, windy night, that cause a sudden demand for more and more gas. Under such circumstances, no matter whether it is night or day or how thick may be the blizzard, the men in the gas field must find their way to perhaps one hundred gas wells and open them into the gas line to supply the sudden demand. In natural gas practice, there is no excuse to offer the public should the supply of gas fail to meet the demand. It is the responsibility of the gas companies to have a sufficient reserve at all times, and it is therefore evident that some wells must always be held in reserve. If all wells must be turned on to meet a "peak" demand, it is a warning to the distributing company that they are facing a shortage of gas and that steps must be taken immediately to find new sources of supply.

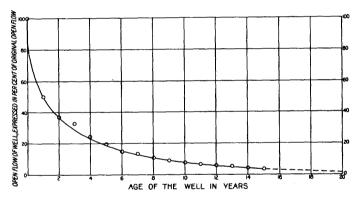
The table below indicates the relation between open flow, rock pressure, and delivery from an average well into a pipe line against winter maximum and summer minimum pressures, as shown. These are actual figures for the year

1935 and differ slightly from those of other years. It is the writer's opinion, however, that these are representative figures and reflect average conditions, with the exception of Lambton county, where the Dawn gas field is shut in most of the year, which is the cause of the low delivery.

DAILY DELIVERIES FROM GAS WELLS	1035	WEIIS	CAS	EDUM	IVEDIES	DAILA DEI

County	No. of wells measured	Average rock pressure	Average open flow per day	Pro- duction per day per well	Percentage open flow delivered to pipe line	Field line pressure
Kent Lambton Elgin . Norfolk . Greater Haldimand Brant .		lbs. per sq. in. 223 418 234 260 170 95	cu. ft. 390,000 1,656,000 100,000 36,000 21,800 12,400	cu. ft. 39,650 26,256 7,400 2,850 2,515 3,268	per cent. 10 1.5 7.5 8 11.5 26	lbs. per sq. in. 50 to 125 50 to 200 50 to 75 50 to 100 10 to 30

It would appear that approximately 10 per cent. of the daily open flow of a well in an old gas field is delivered into the pipe line carrying from 75 to 100 pounds pressure. The controlling feature in the delivery of gas from a well to a pipe line is the differential between the rock pressure and the pipe line pressure. Next in importance is the open flow. No matter how great the open flow of a



THE RELATION OF THE OPEN FLOW OF A GAS WELL TO THE YEARS THAT IT IS OPERATED

This graph has been compiled from the actual records of over 500 wells in the Haldimand gas field. It may be taken to represent to some extent the decline in production of an average natural gas well. (Copied from chart by H. R. Davis, Buffalo.)

gas well may be, it will deliver nothing into the pipe line unless the pressure of gas in the rock (rock pressure) is greater than the pressure of gas in the transmission line.

A study of the daily deliveries and the graph of monthly sales (production), will give some information as to the delivery that might be expected from a well answering the specifications in the table; by applying the percentages that the month's sales bear to the year's sales (see bottom of the graph), the average daily sales for any month may be approximated.

The question most often asked by investors in natural gas and inexperienced operators is, "How many years will a well continue to produce gas?" question cannot be answered definitely. The thickness of the gas sand (producing horizon), the porosity, the ratio of rock pressure to pipe-line pressure, the open flow, and water encroachment, are all variables that affect the life of a well. Excessive cost of operation may make one well unprofitable, while a well with an equal delivery and a low operating cost may be kept in operation years longer. The table of daily deliveries on page 17 would indicate that a gas well in the Haldimand field, where $11\frac{1}{2}$ per cent. of the open flow is delivered into the pipe line, must last much longer than a well in the Brant county (Onondaga) gas field, where 26 per cent. of the open flow is delivered. In addition a well with an initial open flow so small that it is on the borderline between a profitable or unprofitable well, would soon pass into the ranks of unprofitable wells; but, as in the case of the table of daily deliveries, the results shown in the graph on page 17 are averages for the Haldimand gas field. A well at about the half-way point in its life, having an open flow of 21,800 cubic feet per day, should approximate the deliveries shown in this table.

Another matter that is not made clear to the investor in small natural gas projects is that the money he receives each year is not only the return on his investment (interest) but also the return of his investment (amortization). A commercial well must produce enough gas to repay the capital invested in the gas well and to pay a rate of interest commensurate with the risk involved. The ratio of dry holes to producing wells in 1935 is 88 to 196. Interest rates are about $4\frac{1}{2}$ per cent. on sound securities, and applying this ratio gives a rate of about 10 per cent. on investments in natural gas ventures where production only is involved. This is probably a loose calculation as it is based on the numbers of wells and not the profits obtained from these producing wells as against losses in dry holes; on such a basis, this rate would undoubtedly be less. With regard to amortization: After ten years the cost of operation and repairs is likely to increase and incidental expenses to multiply; it has consequently been found expedient to return the money, or amortize the cost of wells in from five to six years.

There are not sufficient wells where the production is metered independently to compare the annual production with the decline in open flow. The only complete record of a gas field over any considerable number of years is in the Tilbury gas field, and for the years the record was published extraordinary conditions in the gas field nullified the results for purposes of such a comparison; but in general there is a parallelism between the decline in annual open flow and production, and good management would dictate that book-keeping should be brought into line with existing conditions.

Leakage

Leakage has again increased and is undoubtedly much too high in distributing plants and on transmission lines. Tables VI, VII, and VIII show the progressive reduction of leakage from 1922 to about 1932, and the increase from 1932 to 1935. As stated in the report of last year, this increase in leakage appears to have followed a decrease in the number of employees; it is hoped that the increase in employees in 1935 will be reflected in a decrease in leakage in the year 1936.

Ont. Dept. Mines, Vol. XLIV, pt. 5, 1935, p. 13.

¹Ont. Dept. Mines, Vol. XXXIII, pt. 5, 1924, pp. 26, 27.

²Ont. Dept. Mines, Vol. XXXV, pt. 5, 1926, p. 2, paragraph 3; Vol. XXXVI, pt. 4, 1927, p. 2, paragraph 2.

Of the places mentioned in last year's report, an improvement is noted in all but Dunnville, Sarnia, and Simcoe; in these the leakage has increased. Increases in leakage are also noted in Galt and South London.

TABLE VI-LEAKAGE IN DISTRIBUTION PLANTS IN ONTARIO, 1922-1935

Year	No. of	Equivalent miles of	Leal	kage	No. of	Leakage	Average pressure,	Percent- age of
Year	plants	3-inch pipe	Actual	Allowable	consumers	per consumer	ounces per sq. in.	leakage
			M cu. ft.	M cu. ft.		cu. ft.		
1922	17	461.87	251,845	92,374	24,839	10,139	5.31	11.41
1923	17	478.33	172,953	95,666	23,445	7,375	5.3	8.39
1924	31	734.53	226,758	146,906	36,099	6,281	5.65	6.15
1925	32	804.3	544,260	160,860	39,701	13,709	5.19	12.73
1926	37	808.39	305,921	161,778	40,190	7,611	5.35	7.13
1927	39	840.87	333,141	168,174	44,150	7,545	4.84	8.15
1928	42	873.97	346,717	174,794	47,428	7,310	4.9	7.53
1929	42	912.28	369,360	182,456	54,801	6,740	4.66	7.11
1930	48	1.247.84	288,367	249,568	54,372	5,304	4.71	5.62
1931	42	753.96	197.876	150,792	40,185	7,325	4.5	6.76
1932	42	1.347.05	267,439	269,410	55,439	7.810	4.5	6.18
1933	48	1.248.84	228,045	249,768	54,850	7,397	4.6	6.13
1934	47	1,259.47	349,673	251,894	55,963	6,250	4.5	8
1935	47	1,483.34	352,062	296,668	76,693	5,790	4.5	7.93

TABLE VII—LEAKAGE IN TRANSMISSION LINES IN ONTARIO, 1922–1935

Year	No. of lines	Size of pipe lines	Equivalent miles of 3-inch pipe	Actual leakage	Average pressure on pipe lines	Percentage of leakage
1922	8 7 7 7 7 7 8	6- to 12-inch 4- to 12-inch 4- to 12-inch 4- to 18-inch 4- to 18-inch 4- to 18-inch 6- to 18-inch 6- to 18-inch 6- to 18-inch 4- to 18-inch	1,396. 2 1,397. 4 1,402. 1 1,403. 3 1,519. 04 1,589. 63 1,700. 19 1,692. 64 1,720. 05 1,752. 05 1,752. 05 1,684. 25	M cu. ft. 955,746 432,728 534,324 573,144 394,805 578,962 413,619 323,509 240,509 274,367 368,738 446,159	1bs. per sq. in. 12–120 5–120 12–120 25–100 25–100 25–100 25–100 25–80 20–80 20–80	16.6 8.17 8.01 10.45 6.86 8.78 7.09 6.21 4.49 5.35 6.76 8.3

TABLE VIII—LEAKAGE ON RURAL LINES IN ONTARIO, 1922-1935

**	No. of	No. of	Equivalent	Leal		No. of	Leakage	Percent-
Year	town- ships	lines	feet of 3-inch pipe	Actual	Allowable	consumers	per consumer	age of leakage
				M cu. ft.	M cu. ft.		cu. ft.	
1922	6	24	68,276	11,346	2,586	239	47,472	30.6
1923	11	102	585,655	69,476	22,184	2,114	32,864	14.33
1924	12	91	680,620	80,739	25,780	2,155	37,465	20.50
1925	14	81	502,631	64,285	19,039	1,748	36,776	23.03
1926	14	90	420,284	41,482	15,920	2,071	20,030	14.14
1927	15	90	558,295	51,692	21,147	2,275	22,721	17.98
1928	14	86	560,605	33,954	21,235	2,171	15,639	11.65
1929	11	76	545,486	17,313	20,663	1,886	9,180	7.09
1930	12	74	546,918	15,881	20,717	2,124	7,476	6.97
1931	14		574,831	13,530	21,774	2,116	9,588	6.66
1932	13		551,154	9,106	20,876	1,981	9,272	4.96
1933	14		553,936	10,824	20,981	2,016	8,158	6.1
1934	14		487.454	16,347	18,459	1,666	8,928	10.98
1935	14		555 795	15,431	21,046	1,885	8,186	9.81

TABLE IX—LEAKAGE IN DISTRIBUTION PLANTS, 1935

Pressure distribu- tion plants,	ounces per sq. in.		9	9	22	4	rc	4	ıc	ıc.	9	, rc	4	, rc	4	4	ıc	4	ū	4	4	4	4	œ	9	4	4	4	9	4	2	20	4	4		4
Leakage per	consumer	cu. ft.	6,719	12,145	1,721	3,372	5.850	5.295	3.076	1.258	1,131	6,467	11,308	4.802	5.048	9,364	1.566	8,114	6,775	4,513	6,738	2,183	5,817	17,808	2,034	3.212	2,049	4,629	15,212	5,733	7,833	8,475	5,857	1,870	6,723	16,093
Average No. of	consumers		146	117	584	4,586	160	173	4.036	136	2,52	107	117	486	1.129	266	459	96	254	2,228	409	1,018	634	1,412	14,674	146	2,500	068	772	240	7.5	639	5,323	123	5,161	118
Leakage for year	Allowable	M cu. ft.	885	1,200	2,590	18,850	922	1.114	16,268	702	1 066	777	572	2.456	2,536	2,774	2,306	302	1,066	6,828	1,476	4,164	2,698	5,094	41,472	516	4,582	2,984	3,272	292	404	3,576	11,832	422	18,346	222,1
Leakage	Actual	M cu. ft.	981	1,421	1,015	15,457	936	916	12.415	171	285	692	1 323	2,334	5.700	9,336	719	279	1.721	10,055	2,756	2,223	3,688	25,145	29,850	469	5,123	4,120	11,744	1,376	564	5,416	31,178	230	34,699	1,899
Volume	aenverea	M cu. ft.	10,899	3,508	84,063	229,212	8.740	7.746	396,118	16.588	8,854	6.535	7,620	42,351	58.981	90,422	58,473	5,907	6,786	96,892	29,424	46,565	61,275	141,679	155,123	14,043	46,379	44,365	71,166	5,803	3,916	60,357	310,449	3,992	322,616	8,322
Volume	received	M cu. ft.	11,880	4,929	85,078	244,669	9,676	8.662	408,533	16,759	9,139	7.227	8,943	44,685	64.681	99,758	59,192	6,686	8,507	106,947	32,180	48,788	64,963	166,824	184,973	14,512	51,502	48,485	82,910	7,179	4,480	65,773	341,627	4,222	357,315	10,221
Equivalent miles of 3-inch pipe	in distribu- tion plants		4.41	9	12.95	94.25	300	5.57	81.34	5	33	38	2.5	12.28	12.68	13.87	11.53	1.51	5.33	34.14	7.38	20.82	13.49	25.47	207.36	2.58	22.91	14.92	16.36	3.84	2.02	17.88	59.16	2.11	91. 73	6.11
Company			Union Gas Co	Ontario Salt Co	Union Gas Co	Dom. Nat. Gas Co	Union Gas Co.				Union Gas Co.						Union Gas Co.				Dom. Nat. Gas Co		South. Ont. Gas Co	Leamington Corp	City Gas Co		Dom. Nat. Gas Co		Union Gas Co	Dom. Nat. Gas Co					**	South. Ont. Gas Co
Cities and towns			Belle River	Belmont	:	Brantford	Brigden	Cainsville	Chatham	Comber	Cortinua				Dundas	Dunnville	Essex	Fenwick		:	lle	:	e		: : : : : : : : : : : : : : : : : : : :	Merlin	Mt. Hamilton	: : : : : : : : : : : : : : : : : : : :		1	:	- :	:			Shedden-Fingal

4	2	4	4	4	, rc	4	4	9	4	4	4	4	
8,368	8,976	20,727	9.761	3,330	1,721	5.036	2,295	5,401	2,158	5,209	3,836	5,797	
1,823	83	224	60	1 049	549	1.096	88	1,177	247	224	19,169	2,075	78,090
5.938	524	1 774	278	9.674	1,846	4.698	208	5,024	762	692	96,672	069'6	296,668
15.255	745	4 643	808	3 404	045	5.520	202	6,357	533	1,167	73,537	12,030	352,062
188.815	6.043	18 025	6.780	20,100	48,449	83 990	1.343	99.640	8.086	16.479	1,357,916	99,944	4,440,882
204.070	6.788	93,568	7,678	10,00	40,387	89,510	1.545	105,997	8.619	17,646	1.431,453	111,974	4,792,944
29.69	2 62	20	130	12.27	10.01	23.49	15	25.12	3.81	3.46	483.36	48.45	1,483.34
Simon Nat Gas Co	Combra	County I am down	South London South One. Gas Co	Stranordville Dom. Nat. Gas Co	Thorold	Tilloury Clillon Gas Co	Vienna Vienna Not Cos Co	Wallacehurg IInion Gas Co	West Hamilton South Out Gas Co	Wheatley South Out Gas Co	Windson (Border Cities) IInion Cas Co	WoodstockDom. Nat. Gas Co	Total

TABLE X—LEAKAGE IN TRANSMISSION LINES, 1935

MADA	ADDITION TOWNS TOWNS TO THE TANK THE TA	and the same of th	121	,		
Transmission lines	Size of pipe line	Equivalent miles of 3-in. pipe	Volume	Volume delivered	Actual leakage	Average pressure on pipe lines
Dundas to Hamilton. Gas field to Sarnia and Petrolia Leamington to Hamilton. Gas field to Windsor. Gas field to Ridgetown. Gas field to Hamilton. Gas field to Hamilton. Dunnville to St. Catharines.	6-, 8-, 10-, 12-inch 8-, 10-, 12-inch 8-, 10-, 12-, 18-inch 4-, 6-inch 8-inch 8-inch 8-inch 8-inch 8-inch 8-inch	8.08 380.57 710.05 356.7 81.56 32 58.28 57.01	M cu. ft. 135,240 1,653,970 1,629,562 1,629,509 226,359 36,575 136,272 384,898	M cu. ft. 135,232 1,353,744 1,359,744 1,591,750 197,838 35,072 123,750 361,826	M cu. ft. 8 72,556 269,818 38,159 28,521 1,503 12,522 23,072	lbs. per sq. in. 20 40-80 75 75 30-80 25-80 30-50 30-50 50
Total		1,684.25	5,832,785	5,386,626	446,159	

TABLE XI-LEAKAGE ON RURAL LINES, 1935

	Equivalent feet	17.1	1	Leakage	Leakage for year	Average	Leakage	Average pressure on pipe lines	ressure on lines
Township	of 3-inch pipe in all rural lines	volume received	volume delivered	Actual	Allowable	No. of consumers	per	Low	High pressure
		M cu. ft.	M cu. ft.	M cu. ft.	M cu. ft.		cu. ft.	ozs.	lbs.
Chatham	4,656	2,543	2,340	203	176	39	5,205	9	က
Dawn	13,581	2,760	2,663	26	514	28	3,464	œ	
Dover	102,857	32,311	29,767	2,544	3,896	330	2,709	9	6
Enniskillen	10,173	2.415	2,219	196	385	40	4,900	ı.	
Harwich	102,851	30,293	26,765	3,528	3,895	438	8,055	9	ស
Howard	18,905	7,085	6,529	556	716	88	6,318	9	က
Moore	11,214	2,103	2,065	38	425	56	678	9	
Raleigh	144,391	37,593	34,735	2,858	5,469	374	7,641	9	9
Raleigh (Blake system)	32,319	6,027	3,551	2,476	1,224	87	28,459	4	
Rochester	34,983	13,573	13,027	546	1,325	142	3,845	2	12
Sandwich, East	2,386	738	643	95	06	13	7,308	9	r.c
Sandwich, South	21,799	7,120	6,797	323	825	09	5,383	9	9
Sombra	2,052	577	475	102	28	10	10,200	9	
Tilbury, East	53,558	27,716	25,847	1,869	2,028	180	10,383	9	2
Total	555,725	172,854	157,423	15,431	21,046	1,885			

Licenses Issued in 1935

The Natural Gas Conservation Act, R.S.O., 1927, The Well Drillers' Act, R.S.O., 1927, and the Regulations made under these Acts require that the several operations carried out shall be done under license. Tables XII to XVI show a list of those to whom licenses were issued during 1935.

The licenses required under the above Acts and the cost of each are as follows:

To To	Lease and Prospect for Natural Gas. Drill or Bore for Natural Gas or Oil.	\$5.00 5.00
To	Produce Natural Gas	10.00
To	Distribute Natural Gas	10.00
To	Operate Natural Gas Pipe-Lines	10.00

TABLE XII—OPERATORS LICENSED TO LEASE AND PROSPECT FOR NATURAL GAS, 1935

License No.	Name	Address
778	Acme Gas and Oil Co., Ltd	Toronto, Ont.
322	Adams, L. W	Espanola, Ont.
811	Aetna Oil Co., Ltd.	Windsor, Ont.
773	Ajax Oil and Gas Co., Ltd	Toronto, Ont.
307	Benner, K. W	Fisherville, Ont.
323	Bryson, George	Petrolia. Ont.
798	Carrothers, Irwin	Kerwood, Ont.
806	Colbert, Norman C	Hagersville, Ont.
751	Coste, L. A.	Chatham, Ont.
812	Craft, Fred W	Detroit, Mich.
791	Daly, C. A.	Tupperville, Ont.
781	Domestic Gas Syndicate	Toronto, Ont.
756	Dominion Natural Gas Co., Ltd	Buffalo, N.Y.
816	Draymond, Francis R	Chatham, Ont.
808	Dufferin Natural Gas Syndicate	Shelburne, Ont.
803	Elliot, George A	Toronto, Ont.
790	Fisher, C. W	Chatham, Ont.
800	Fitzpatrick, P. H.	Detroit, Mich.
809	Gardiner, Alex	Sarnia, Ont.
782	Gaul, Henry J.	Stratford, Ont.
760	Gray, Ira	Merlin, Ont.
766	Grimsby Natural Gas Co., Ltd	Grimsby, Ont.
769	Haldimand Natural Gas Syndicate	Stevensville, Ont.
762	Heal, A. A.	Petrolia, Ont.
786	High Grade Natural Gas Co., Ltd	Chatham, Ont.
755	Holmes, A. B	Toronto, Ont.
779	Hoover, A. E.	Selkirk, Ont.
759	Howard, W. C.	Leamington, Ont.
771	House, Charles C.	Stevensville, Ont.
804	Hulse, J. W.	Buffalo, N.Y.
824	Jansen, H.	Buffalo, N.Y.
758	James, F. L	Toronto, Ont.
761	Jasperson, Bon	Kingsville, Ont.
813	Lewis, James R.	Williamsville, N.Y
805	Liley and Winkler	Detroit, Mich.
765	Lymburner Bros. and Webber	Dunnville, Ont.
820	Marshant, F	Newbury, Ont.
310	Massey, Harold	Windsor, Ont.
314	Massey Oil and Gas Co., Ltd.,	Windsor, Ont.
319	McCarter, Charles S	Jarvis, Ont.
774	McCutcheon, Thomas J	Dunnville, Ont.
879	McGuigan, Virgil G.	Cedar Springs, On
794	McKillop, Wm	Hepworth, Ont.
785	Medina Natural Gas Co., Ltd.	Chatham, Ont.

TABLE XII—OPERATORS LICENSED TO LEASE AND PROSPECT FOR NATURAL GAS, 1935— ${\it Continued}$

License No.	Name	Address
754	Neath, Charles	Chatham. Ont.
821	Nichols, N. J	Strathroy, Ont.
780	Patterson, W. C	Jamestown, N.Y.
796	Patterson, F. L	Detroit, Mich.
871	Perdue, Jack	Chatham, Ont.
776	Rawlings, George H	Chatham, Ont.
777	Reicheld, Fred W	Jarvis, Ont.
775	Reicheld, O. E	Fisherville, Ont.
783	River Valley Natural Gas Syndicate	Toronto, Ont.
793	Roberts, J. R	Windsor, Ont.
795	Rockton Oil and Gas Syndicate	Dundas, Ont.
802	Rodgers, Alex	Tillsonburg, Ont.
752	Sadlier, L	Chatham, Ont.
801	Savage, Louis	Detroit, Mich.
772	Schollenberger, Christian	Wallacetown, Ont.
797	Schollenberger, Theresa	Wallacetown, Ont.
753	Scullard, Fred B	Chatham, Ont.
815	Sibbitt, Robert A	Ottawa, Ont.
767	Smith, E. W	Toronto, Ont.
788	Smith, Harry B	Windsor, Ont.
789	Smith, Luke	Oakville, Ont.
757	Smith, Robert H	Lowbanks, Ont.
784	Stanley, W. E	Toronto, Ont.
817	Stewart, Elgin Russell	Jarvis, Ont.
764	Sullivan, George F	Sarnia, Ont.
799	Waller, C. W	Toronto, Ont.
770	Welland County Gas Syndicate	Stevensville, Ont.
818	Wood, D. H	Port Huron, Mich.
768	Woodhouse, Henry	Toronto, Ont.

TABLE XIII—OPERATORS LICENSED TO DRILL OR BORE FOR NATURAL GAS, 1935

No.	Name	Address
663	Ajax Oil and Gas Co., Ltd	Toronto, Ont.
669	Allen, A. J	Dunnville, Ont.
648	British Petroleum Co., Ltd.	Hamilton, Ont.
610	Culver, W. H., Jr	Dunnville, Ont.
611	Culver, W. H., Ir	Dunnville, Ont:
612	Culver, W. H., Jr	Dunnville, Ont.
683	Cole, W. J	Petrolia, Ont.
613	Dawson, Ralph	Merlin, Ont.
677	Demaray, Clarence	Kerwood, Ont.
740	Emerson, Harry L	Dunnville, Ont.
679	Gough, N. E	Toronto, Ont.
658	Gregory, Geo. F	Petrolia, Ont.
659	Gregory, Geo. F	Petrolia, Ont.
617	Heal, Andrew A	Petrolia, Ont.
650	High Grade Natural Gas Co., Ltd	Chatham, Ont
652	Hockley Valley Oil Co., Ltd	Windsor, Ont.
608	Holmes, A. B	Toronto, Ont.
645	Hoover, A. E	Selkirk, Ont.
646	Hoover, A. E	Selkirk, Ont.
647	Hoover, A. E	Selkirk, Ont.
682	Hoover, A. E	Selkirk, Ont.

TABLE XIII—OPERATORS LICENSED TO DRILL OR BORE FOR NATURAL GAS, 1935—Continued

License No.	Name	Address
633	House, Charles C	Stevensville, Ont.
665	Howlett, Fred W., and Sons.	Petrolia, Ont.
661	Hussey, W. J.	Petrolia, Ont.
639	Jackson, Percy I	Dunnville, Ont.
640	Jackson, Percy L.	Dunnville, Ont.
641	Jackson, Percy L.	Dunnville, Ont.
642	Jackson, Percy L	Dunnville, Ont.
643	Jackson, Percy L.	Dunnville, Ont.
644	Jackson, Percy L	Dunnville, Ont.
616	Jasperson, Bon	Kingsville, Ont.
670	Kells, Ernest E	Petrolia, Ont.
637	Kiser Bros.	Chatham, Ont.
638	Kiser Bros	Chatham, Ont.
629	Lauer, D. G	Tillsonburg, Ont.
630	Lauer, D. G	Tillsonburg, Ont.
673	Lewis, James R	Williamsville, Ont.
738	Lincoln Gas Co., Ltd	Toronto, Ont.
624	Lymburner Bros. and Webber	Dunnville, Ont.
680	Marshant, F	Newbury, Ont.
631	McCutcheon, Thomas J	Dunnville, Ont.
632	McCutcheon, Thomas J	Dunnville, Ont.
678	McCutcheon, Thomas J	Dunnville, Ont.
676	McGaffey, Roy	Bothwell, Ont.
625	McKechnie, S	Dunnville, Ont.
626	McKechnie, S	Dunnville, Ont.
627	McKechnie, S	Dunnville, Ont.
628	McKechnie, S	Dunnville, Ont.
651	McKillop, Wm	Hepworth, Ont.
744	McLister, J. J	Dunnville, Ont.
671	McMaster, R., and Son	Echo Place, Ont.
657	McNinch, S. E	Canborough, Ont.
681	McRitchie, J. A	Bothwell, Ont.
605	Nicholls, Jack	Pelee Island, Ont.
606	Pelee Island Petroleum Syndicate, Inc	Detroit, Mich.
666	Pelee Island Petroleum Syndicate, Inc	Detroit, Mich.
609	Perkins, J. E.	Dunnville, Ont.
742	Port Colborne-Welland Natural Gas and Oil Co., Ltd.	Port Colborne, Ont.
672	Rawson, W. J	Petrolia, Ont.
675	Ricker, Arthur	Canborough, Ont.
660	Rockton Oil and Gas Syndicate	Dundas, Ont.
674 653	Sibbitt, Robert A	Ottawa, Ont.
	Simpson, C. A	Simcoe, Ont.
615	Smith, Robert H	Lowbanks, Ont.
$\begin{array}{c} 662 \\ 634 \end{array}$	Stewart, Elgin	Jarvis, Ont.
	Stover, F. H., and Son	Chatham, Ont.
635	Stover, F. H., and Son	Chatham, Ont.
607 664	Stubble, H. H.	Merlin, Ont.
	Stubble, H. H	Merlin, Ont.
748 604	Sundy, Basil K of Canada I td	Tillsonburg, Ont.
$\begin{array}{c} 604 \\ 649 \end{array}$	Union Gas Company of Canada, Ltd	Chatham, Ont.
	Walker, Geoffrey C	Port Franks, Ont.
614	Walter Gas Syndicate	Buffalo, N.Y.
667	Wardell, Jacob L	Cayuga, Ont.
$\begin{array}{c} 621 \\ 622 \end{array}$	Willits, G. E. and D. E.	Bothwell, Ont.
$\begin{array}{c} 622 \\ 623 \end{array}$	Willits, G. E. and D. E.	Bothwell, Ont.
636	Willits, G. E. and D. E.	Bothwell, Ont.
บงช	Wright, David	Sarnia, Ont.

TABLE XIV—OPERATORS LICENSED TO PRODUCE NATURAL GAS, 1935

License No.	Name	Address
774	Acme Gas and Oil Co., Ltd	Toronto, Ont.
765	Ajax Oil and Gas Co., Ltd	Toronto, Ont.
925	Aloka Oil Co., Ltd	Toronto, Ont.
751 706	Amity Gas and Oil Co., Ltd	Lowbanks, Ont.
786 789	Aragain Gold and Natural Gas SyndicateBeacon Natural Gas Syndicate	Toronto, Ont. Waterloo, Ont.
770	Broadway Gas Syndicate	Jarvis, Ont.
906	Buck, C. S.	Port Rowan, Ont.
801	Burchell Natural Gas Syndicate	Brussels, Ont.
743	Canadian Natural Gas Syndicate	Simcoe, Ont.
899	Canfield Gas Syndicate	Detroit, Mich.
736	Canfield Natural Gas Co., Ltd	Canfield, Ont.
787	Central Pipe Line Co., Ltd	Chatham, Ont.
760 770	Central Seneca Gas Syndicate	Cayuga, Ont.
779 889	Colonial Natural Gas and Oil Co., Ltd	Hamilton, Ont. Hamilton, Ont.
781	Continental Gas Corporation, Ltd	Toronto, Ont.
742	Dawson, Ralph	Merlin, Ont.
928	Delhi Gas Syndicate	Cayuga, Ont.
778	Domestic Gas Syndicate	Toronto, Ont.
741	Dominion Natural Gas Co., Ltd	Buffalo, N.Y.
875	Emerald Gas Syndicate	Toronto, Ont.
877	Emerson, Harry L	Dunnville, Ont.
795	Empire Natural Gas, Ltd	Toronto, Ont.
887 914	Erie Gas, Ltd	Toronto, Ont. Detroit, Mich.
879	Esmond Avery and Associates Syndicate	Fisherville, Ont.
908	Firelite Gas and Oil Co., Ltd	Toronto, Ont.
935	Gasfinders and Producers, Ltd	Toronto, Ont.
800	Gas Producers Syndicate	Chatham, Ont.
754	Gifford, Arthur, and Son	Cayuga, Ont.
897	Glenny, Daniel	Dunnville, Ont.
737	Grand River Gas and Oil Syndicate	Canfield, Ont.
869 755	Grand River Natural Gas and Oil Syndicate	Cayuga, Ont. Grimsby, Ont.
757	Grimsby Natural Gas Co., Ltd	Cayuga, Ont.
762	Haldimand Natural Gas Syndicate	Stevensville, Ont.
916	Hartzell, Stone, Thurber, Hartzell and Avery,	Stevens vine, size
	Minnicog Gas Co	Detroit, Mich.
788	Highbank Oil, Ltd	Chatham, Ont.
748	Hope Gas Syndicate	St. Catharines, Ont.
764	House and Harris	Stevensville, Ont.
799	Ideal Gas Syndicate	Fisherville, Ont.
775 747	Industrial Natural Gas Co., Ltd	Port Rollinson, Ont. Kingsville, Ont.
863	Kelly Gas and Oil Syndicate	Toronto, Ont.
932	Knight, J. W	Detroit, Mich.
933	Ladd, C. H	Detroit, Mich.
753	Lincoln Gas Co., Ltd	Toronto, Ont.
834	Lindsay, W. B., Estate	Edmonton, Alta.
752	Lymburner Bros. and Webber	Dunnville, Ont.
885	Lynn Valley Gas and Oil, Ltd	Waterloo, Ont.
929 867	McKechnie and Hussey	Dunnville, Ont. Toronto, Ont.
803	Middleton-Norfolk Gas Co., Ltd.	Stratford, Ont.
749	Midwal Oil and Gas Co., Ltd	Fisherville, Ont.
883	Mohawk Gas and Oil Syndicate	Hamilton, Ont.
847	Monarch Gas and Oil Syndicate	Fisherville, Ont.
912	Mutual Natural Gas Syndicate	Toronto, Ont.
895	National Gas Syndicate	Dunnville, Ont.
791	Niagara Natural Gas Co., Ltd.	Buffalo, N.Y.
871	Niece, Hosea, and Son	Lowbanks, Ont. Hamilton. Ont.
768 734	Norhal Gas and Oil, Ltd	North Cavuga, Ont.
910	North Cayuga Gas Syndicate	Toronto. Ont.
010	2.000mm on and out out full full full full full full full fu	

TABLE XIV-OPERATORS LICENSED TO PRODUCE NATURAL GAS, 1935-Continued

License No.	Name	Address
900	Olga Gas, Ltd	Toronto, Ont.
776	Patterson, W. C.	Jamestown, N.Y.
738	Petrol Oil and Gas Co., Ltd	Toronto, Ont.
893	Port Colborne-Welland Natural Gas and Cil Co., Ltd.	Port Colborne, Ont.
931	Premier Oils. Ltd	Toronto, Ont.
		Toronto, Ont.
904	Prairie Gas and Oil Co., Ltd	Toronto, Ont.
756	Provincial Natural Gas and Fuel Co. of Ontario,	Fort Erie North, Ont.
758	Rainham Gas Syndicate	Cayuga, Ont.
769	Reicheld, Fred W	Jarvis, Ont.
918	Ricker, Arthur	Canborough, Ont.
861	Riley, J. V	Simcoe, Ont.
773	Rowe, E. P.	Toronto, Ont.
750	Salina Gas Co., Ltd	Chatham, Ont.
923	Samia Gas Co., Ltd	Sarnia, Ont.
761	Selected Natural Gas and Oil Syndicate	Toronto, Ont.
882	Security Oil and Gas Co., Ltd	Windsor, Ont.
767	Sherbrooke Gas Syndicate	Lowbanks, Ont.
745	Smith. Robert H	Lowbanks, Ont.
746	Southern Ontario Gas Co., Ltd	Buffalo, N.Y.
855	Springvale Gas and Oil Co., Ltd	Hagersville, Ont.
771	Standard Gas and Oil Syndicate	Fisherville, Ont.
884	Sterling Gas Co., Ltd	Guelph, Ont.
739	Stevensville Natural Gas and Fuel Co	Stevensville, Ont.
802	Stewart, Elgin Russell	Jarvis, Ont.
880	Stover and Rawlings	Chatham, Ont.
920	Stromwell Syndicate	Tillsonburg, Ont.
766	Superior Gas Syndicate	Fisherville, Ont.
772	Sweets Corners Gas Syndicate	Fisherville, Ont.
891	Tillsonburg Natural Gas and Oil Co., Ltd	Toronto, Ont.
735	Union Gas Co. of Canada, Ltd	Chatham, Ont.
902	Vacuum Gas and Oil Co., Ltd	Toronto, Ont.
759	Walpole Gas Syndicate	Cayuga, Ont.
763	Welland County Gas Syndicate	Stevensville, Ont.
865	Western Ontario Natural Gas Co., Ltd	Dunnville, Ont.
744	Walter Gas Syndicate, Ltd	Buffalo, N.Y.
740	Yager, J. J	Selkirk, Ont.
796	York Natural Gas Syndicate	Toronto, Ont.

TABLE XV-OPERATORS LICENSED TO DISTRIBUTE NATURAL GAS, 1935

License No.	Name	Address
466 464 474 465 491 487 497 472 467 469 492 471 470 494 468 462 463	Brantford Gas Co. Canfield Natural Gas Co., Ltd. Central Pipe Line Co., Ltd. Dominion Natural Gas Co., Ltd. Fisherville Gas Co. Fonthill-Ridgeville Gas Co., Ltd. Leamington, Town of. Lincoln Gas Co., Ltd. Manufacturers Natural Gas Co., Ltd. Oil Springs Oil and Gas Co., Ltd. Port Colborne-Welland Natural Gas and Oil Co., Ltd. Provincial Natural Gas and Fuel Co. of Ontario, Ltd. Southern Ontario Gas Co., Ltd. Springvale Gas and Oil Co., Ltd. United Gas Co. of Canada, Ltd. Union Gas Co. of Canada, Ltd. Windsor Gas Co., Ltd.	Buffalo, N.Y. Canfield, Ont. Chatham, Ont. Buffalo, N.Y. Fisherville, Ont. Portland, Ind. Leamington, Ont. Toronto, Ont. Buffalo, N.Y. Oil Springs, Ont. Port Colborne, Ont. Fort Erie North, Ont. Buffalo, N.Y. Hagersville, Ont. Hamilton, Ont. Chatham, Ont. Windsor, Ont.

TABLE XVI-OPERATORS LICENSED TO OPERATE PIPE LINES, 1935

License No.	Name	Address
102 100 101 99	Central Pipe Line Co., Ltd	Chatham, Ont. Buffalo, N.Y. Buffalo, N.Y. Chatham, Ont.

Logs of Wells

The logs of oil and gas wells drilled in Ontario in 1935, as given by the drillers, are shown on the pages following. It will be noted that the production of gas wells is not given. This decision is the result of protests from several companies who were doing exploratory work and who felt that the publication of the results of this work would adversely affect them. All information concerning water and gas horizons are given, which should be sufficient to indicate the sources of oil and gas to those familiar with the gas fields of the province.

Samples of drill-cuttings from representative wells throughout the province are available to the public.

ABBREVIATIONS

B.F	. Broken front.
Con	. Concession.
E	
E. ½	
E. 1/4	
E.D	
E.F.C	Fast of Fairchild Creek
E.S.C.R.	Fast of Stoney Creek Road
F.C.	Front concession
N	
N. ½	
N.E	
N.E. ½	. Northeast half.
N.E. 14	. Northeast quarter.
N.F.Ŕ	. North of Forks Road.
N.R	. Niagara River Survey.
N.T.R	. North of Talbot Road.
N.W	. Northwest.
N.W. 1/4	
Pt	
R.R	
S	
S. ½	
S.E. ½	
S.E. 1/4	Southeast quarter.
S.F.R	South of Porks Road.
S.R.R	
S.T.R	
S.W. 1/4	Southwest quarter.
Tp	
W. 1/2	
W.F.C	. West of Fairchild creek.

Brant County

DARROCH AND YOUNG H. Hamilton No. 1, lot 18, con. III, W.F.C., Onondaga tp.

Completed June 18, 1935. Producing gas well. Rock pressure: 146 lbs.

	Thickness.
Formation	ft.
Surface	111
Shale	. 39
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
White Medina	. 10
Red shale	
Total depth	. 608

Gas at 456 and 583 feet. Fresh water at 100 and 114 feet.

PORT COLBORNE-WELLAND NATURAL GAS AND OIL Co., LTD.

A. Allen No. 1, lot 23, con. III, E.F.C., Onondaga tp. Completed June 27, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	51
Lime and shale	
Niagara	
Rochester shale	
Clinton	
Red Medina	
Grey shale	
White Medina	
Red shale	
Total depth	525

Fresh water at 48 feet; sulphur water at 165 feet.

PORT COLBORNE-WELLAND NATURAL GAS AND OIL CO., LTD.

J. Douglas and Son No. 2, lot 81, R.R., Onondaga tp. Completed January 5, 1935.
Producing gas well.
Rock pressure: 185 lbs.

 Red Medina
 27

 Grey shale
 45

 Wey shale
 12

 Red shale
 74

 Total depth
 594

Gas at 519 feet. Fresh water at 60 feet; sulphur water at 120 feet.

PORT COLBORNE-WELLAND NATURAL GAS AND OIL CO., LTD.

J. Douglas and Son No. 3, lot 79, R.R., Onondaga tp. Completed June 5, 1935. Dry hole.

Thickness.

	1 mckness
Formation	ft.
Surface	53
Lime and shale	
Niagara	249
Rochester shale	
Clinton	
Red Medina	
Grey shale	50
White Medina	12
Red shale	3
Total depth	490

Fresh water at 50 feet; sulphur water at 130 feet.

PORT COLBORNE-WELLAND NATURAL GAS AND OIL Co., LTD.

J. A. Douglas No. 2, lot 77, R.R., Onondaga tp. Completed July 19, 1935. Dry hole.

y noie.		Thickness,
Formation		ft.
Surface	 	
Lime and shale	 	44
Niagara	 	261
Rochester shale		
Clinton		
Red Medina		
Grey shale		
White Medina		
Red shale		
Total depth	 	521

Fresh water at 65 feet; sulphur water at 350 feet.

Port Colborne-Welland Natural Gas and Oil Co., Ltd.
W. Douglas No. 1, lot 75, R.R., Onondaga tp.

W. Douglas No. 1, lot 75, R.R., Onondaga tp. Completed August 22, 1935. Dry hole.

₹	Thickness
Formation	ft.
Surface	62
Lime and shale	53
Niagara	240
Rochester shale	57
Clinton	27
Red Medina	
Grey shale	50
White Medina	
Red shale	4
Total depth	532

Fresh water at 60 feet; sulphur water at 115 feet.

PORT COLBORNE-WELLAND NATURAL GAS AND OIL CO., LTD.

W. A. Douglas No. 1, lot 76, R.R., Onondaga tp. Completed August 3, 1935. Producing gas well. Rock pressure: 200 lbs.

Formation ft. Surface 61 Lime and shale 44 Niagara 256 Rochester shale 39 Clinton 30 Red Medina 26 Grey shale 52 White Medina 13 Red shale 75	on product are the	Thickness,
Lime and shale. 44 Niagara. 256 Rochester shale. 39 Clinton. 30 Red Medina. 26 Grey shale. 52 White Medina. 13	Formation	
Niagara 256 Rochester shale 39 Clinton 30 Red Medina 26 Grey shale 52 White Medina 13	Surface	61
Rochester shale 39 Clinton 30 Red Medina 26 Grey shale 52 White Medina 13	Lime and shale	
Rochester shale 39 Clinton 30 Red Medina 26 Grey shale 52 White Medina 13	Niagara	
Red Medina 26 Grey shale 52 White Medina 13		39
Grey shale 52 White Medina 13	Clinton	
Grey shale 52 White Medina 13	Red Medina	26
White Medina		52
Red shale		13
	Red shale	75

PORT COLBORNE-WELLAND NATURAL GAS AND OIL Co., LTD.

O. Ferris No. 1, lot 82, R.R., Onondaga tp. Completed October 8, 1935. Producing gas well. Rock pressure: 185 lbs.

•	Thickness,
Formation	ft.
Surface	30
Lime and shale	
Niagara	
Rochester shale	
Clinton	
Red Medina	
Grev shale	
White Medina	
Red shale	
Ica samo	
Total depth	565

Gas at 495 feet. Fresh water at 70 feet; sulphur water at 180 feet.

602

Thickness

Port Colborne-Welland Natural Gas and Oil Co., Ltd.

G. Vanderlip No. 1, lot 64, R.R., Onondaga tp. Completed September 20, 1935. Dry hole.

y	hole.	
	*	Thickness,
	Formation	ft.
	Surface	75
	Lime and shale	20
	Niagara	240
	Rochester shale	47
	Clinton	27
	Red Medina	23
	Grey shale	58
	White Medina	8
	Red shale	3
	Total depth	501

AJAX OIL AND GAS CO., LTD. L. Bomberry No. 1, lot 18, con. VI, Tuscarora tp. Completed June 29, 1935. Producing gas well. Rock pressure: 182 lbs.

	Thickness,
Formation	ft.
Surface	39
Salina	49
Guelph and Niagara	290
Rochester	53
Clinton	33
Red Medina	18
Cabot Head	
White Medina	
Red shale	

Gas at 433, 548, and 550 feet. Fresh water at 48 feet; sulphur water at 76 feet.

Total depth.....

AJAX OIL AND GAS CO., LTD. L. Bomberry No. 2, lot 18, con. VI, Tuscarora tp. Completed July 26, 1935. Producing gas well. Rock pressure: 174 lbs.

	Thickness
Formation	ft.
Surface	39
Salina	
Guelph and Niagara	292
Rochester	
Clinton	31
Red Medina	
Cabot Head	
White Medina	
Red shale	

Gas at 422, 536, and 540 feet. Sulphur water at 73 feet.

AJAX OIL AND GAS CO., LTD. S. and R. Bomberry No. 3, lot 20, con. VI, Tuscarora tp.

Completed August 23, 1935. Producing gas well. Rock pressure: 180 lbs.

-	Thicknes
Formation	ft.
Surface	50
Salina	60
Guelph and Niagara	265
Rochester	
Clinton	31
Red Medina	22
Cabot Head	56
White Medina	
Red shale	

Total depth......545 Gas at 427, 455, and 543 feet. Sulphur water at 84 feet.

AJAX OIL AND GAS CO., LTD. E. Franklin and G. Doxtater No. 1, lot 15, con. VI, Tuscarora tp. Completed September 23, 1935.

Producing gas well. Rock pressure: 221 lbs.

ck pressure: 221 tos.	
	Thickness,
Formation	ft.
Surface	55
Salina	
Guelph and Niagara	
Rochester	
Clinton	
Red Medina	
Cabot Head	
White Medina	
Red shale	
2102 0201011111111111111111111111111111	
M	604

AJAX OIL AND GAS CO., LTD.

E. Franklin and G. Doxtater No. 2, lot 15, con. VI, Tuscarora tp.

Completed October 19, 1935. Producing gas well. Rock pressure: 220 lbs.

ek pressure: 220 lbs.	Thickness.
Formation	ft.
Surface	
Salina	47
Guelph and Niagara	289
Rochester	
Clinton	30
Red Medina	16
Cabot Head	
White Medina	12
Red shale	

Total depth....

Gas at 430, 448, 541, and 546 feet. Sulphur water at 87 feet.

PETROL OIL AND GAS CO., LTD. F. Loft No. 1, lot 1, con. VI, Tuscarora tp. Completed December 28, 1935. Producing gas well. Rock pressure: 225 lbs.

	I mickness,
Formation	ft.
Surface	
Salina	126
Guelph and Niagara	246
Rochester	
Clinton	13
Red Medina	35
Cabot Head	58
White Medina	10
Queenston	50
·-	
Total depth	645

Gas at 485 and 590 feet. Sulphur water at 210 feet.

Bruce County

NOTTAWA OIL AND GAS CO., LTD. Binns No. 1, lot 1, con. IX, Amabel tp. Completed November 1, 1935. Producing gas well.

Mucing gas well.	
Auteing gus weii.	Thickness.
Formation	ft.
Sand	21
Brown lime	
White lime	
Green shale	
Red shale	
Blue shale	
Lime	
Blue shale	19
Red shale	160
Hudson	477
Utica	37
Trenton	
Potsdam	3
Basil sandy beds	35
•	

Gas at 1,423 and 1,430 feet.

NOTTAWA OIL AND GAS CO., LTD. G. Cupsky No. 1, lot 1, con. IX, Amabel tp. Completed June 1, 1935. Producing gas well.

	I bickness,
Formation	ft.
Sand	11
Brown lime	49
White and brown lime	80
White lime	50
Green shale	
Red shale	55
Blue shale	50
Lime	40
Red and blue shale	178
Hudson	487
Utica	37
Trenton	445
Total depth	1,487

Gas at 1,407, 1,412, and 1,422 feet.

NOTTAWA OIL AND GAS CO., LTD. P. Doubt No. 1, lot 6, con. VIII, Amabel tp. Completed November 16, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	40
Dolomite	45
Brown lime	37
White lime	114
Green shale	10
Red shale	50
Blue shale	55
Brown lime	26
Red and green shale	55
Red and blue shale	158
Hudson shale	475
Utica formation	27
Trenton lime	605
Potsdam	22
Broken granite	9

Fresh water at 40 feet.

NOTTAWA OIL AND GAS CO., LTD. J. Goetz No. 1, lot 1, con. IX, Amabel tp. Completed August, 1935. Dry hole.

-		Thickness,
	Formation	ft.
	Surface	16
	Brown lime	124
	White lime	55
	Green shale	16
	Red shale	47
	Blue shale	60
	Lime	32
	Blue shale	30
	Red and blue shale	148
	Hudson	490
	Utica	34
	Trenton	398
	Total depth	1,450

Gas at 1,426 feet. NOTTAWA OIL AND GAS CO., LTD.

Completed October 19, 1935. Dry hole.

	Thickness
Formation	ft.
Surface	31
Hard lime	41
Brown lime	93
White lime	50
Green shale	12
Red shale	47
Blue shale	66
White lime	45
Red and blue shale	155
Hudson	470
Utica	52
Trenton	414
 	

Hillis No. 1, lot 4, con. VII, Amabel tp.

Total depth..... 1,476 Show of gas at 1,435 feet.

NOTTAWA OIL AND GAS Co., LTD. R. Kinch No. 1, lot 6, con. IX, Amabel tp. Completed August 23, 1935. Dry hole.

Formation ft. Sand 3 Top lime 205 Green shale 14 Red shale 35 Blue shale 63 Brown lime 20 Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382 Total depth 1,432		Thickness
Top lime 205 Green shale 14 Red shale 35 Blue shale 63 Brown lime 20 Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382		
Green shale 14 Red shale 35 Blue shale 63 Brown lime 20 Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382	Sand	
Green shale 14 Red shale 35 Blue shale 63 Brown lime 20 Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382	Top lime	205
Red shale. 35 Blue shale. 63 Brown lime. 20 Red shale. 65 Blue shale. 65 Grey shale. 70 Hudson. 475 Utica. 35 Trenton. 382		
Brown lime 20 Red shale 65 65 65 65 65 67 67 67		35
Brown lime 20 Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382	Blue shale	63
Red shale 65 Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382		
Blue shale 65 Grey shale 70 Hudson 475 Utica 35 Trenton 382		
Grey shale 70 Hudson 475 Utica 35 Trenton 382		
Hudson 475 Utica 35 Trenton 382		
Utica		
Trenton 382		
Total depth		
	Total depth	1,432

Fresh water at 55, 125, and 190 feet.

NOTTAWA OIL AND GAS Co., LTD. C. W. Sinclair No. 1, lot 3, con. IX, Amabel tp. Completed November 7, 1935. Producing gas well. Rock pressure: 150 lbs.

Rock pressure: 150 lbs.	Thickness.
Formation	ft.
Sand	21
Top lime	192
Green shale	. 14
Red shale	43
Blue shale	60
Brown lime	
Blue shale	. 21
Red shale	. 68
Grev shale	. 75
Hudson	475
Utica	. 33
Trenton	394
Total depth	1,440
Gas at 1,409 feet.	
Fresh water at 70 feet.	

Carleton County

R. A. SIBBITT

Davidson No. 1, lot 9, con. II, Gloucester tp. Completed October 2, 1935. Dry hole.

Dry hole.	Thickness,
Formation	ft.
Surface	62
Grey dolomite (Beekmantown)	188
Light-grey sandstone	40
Grey sandstone (Potsdam)	180
Pre-Cambrian feldspar and mica schist	20
Total depth	490
Fresh water at 52, 79, and 245 feet.	

Elgin County

DARKE, VASS, ET AL

J. McIntyre No. 1, lot 2, B.F., Aldborough tp. Completed March 22, 1935. Small producing oil well. Thickness

	I IIICKIICSS,
Formation	ft.
Clay	. 68
Hardpan	144
Soap	
Lime	11
Soap	18
Dark lime	
Hard soap	
Brown lime	
Grev lime	4 1 7
Grey nine	

Total depth..... 420 Oil at 224, 273, 345 to 355, 385 to 390, and 408 to 410 feet.

DARKE.	VASS.	RT AL.	

J. McIntyre No. 2, lot 2, B.F., Aldborough tp. Completed May 28, 1935. Well plugged and abandoned.

	Thickness.
Formation	ft.
Gravel	8
Clay	14
Hardpan	152
Lime	11
Soap	20
Dark lime	9
Grey lime	
Total depth	405

Trace of oil at 235 to 240, 250 to 260, and 300 to 330

CANADIAN NATURAL GAS SYNDICATE
S. Williams No. 1, lot 25, N. ½, con. VIII, Bayham tp.
Completed July 31, 1935.
Producing gas well.
Rock pressure: 560 lbs.

Formation	ft
Surface	223
Lime and shale	175
Flint	130
Lime and shale	388
Niagara	312
Shale	51
Clinton	
Red Medina	
Shale	30
Total depth	1,354
Gas at 1,298 feet. Sulphur water at 225 feet.	

CANADIAN NATURAL GAS SYNDICATE
C. E. Wilson No. 2, lot 23, con. VIII, Bayham tpCompleted December 16, 1935.
Producing gas well.
Rock pressure: 600 lbs.

	I nickness,
Formation	ft.
Surface	
Lime and shale	188
Flint	125
Lime and shale	372
Guelph lime	40
Niagara lime	267
Rochester shale	49
Clinton sand	27
Red Medina'sand	
Blue shale	29

CANFIELD NATURAL GAS SYNDICATE
C. E. Wilson No. 1, lot 23, con. VIII, Bayham tp.
Completed October 26, 1935.
Producing gas well.
Rock pressure: 600 lbs.

•		Thickness.
Formation		ft.
Surface		20
Sand and gravel		228
Lime and shale.		187
Flint		125
Lime and shale.		372
Guelph lime		43
Niagara lime		270
Rochester shale.	• • • • • • • • • • • • • • • • • • • •	50
Red Medina san	d	7
Red shale	• • • • • • • • • • • • • • • • • • •	20

R. L. PATTINSON

N. H. Gray No. 2, lot 27, con. IX, Bayham tp. Completed October 25, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	91
Clay	67
Brown lime	178
Flint	
Brown lime	49
Slate, lime, and gypsum	100
Grey lime	65
Lime and gypsum	210
Niagara lime	7
Total depth	863

Sulphur water at 856 feet. Show of gas at 163, 856, and 863 feet.

R. L. PATTINSON

S. Williams No. 2, lot 25, con. VIII, Bayham tp. Completed December 14, 1935. Producing gas well. Rock pressure: 560 lbs.

-	Thickness.
Formation	ft.
Surface	170
Clay	30
Gravel	20
Grey lime	14
Brown lime	185
Flint	100
Brown lime	80
Lime and gypsum	345
Niagara	285
Shale	50
Clinton	13
Thorold sand	19
Red shale	32
_	

E. P. Rowe

L. Alton No. 1, lot 26, con. VIII, Bayham tp. Completed April 8, 1935. Producing gas well. Rock pressure: 560 lbs.

ck pressure. 500 ms.	****
Formation	Thickness,
Clay	30
Quicksand	150
Clay	30
Gravel	12
Brown lime	178
FlintBrown lime	120 60
Shale and gypsum	355
Niagara	295
Shale	50
Clinton	15
Thorold sand	10
Red shale	25
Total depth	1.330

Gas at 1,295 feet. Fresh water at 215 feet; sulphur water at 360 and 960 feet.

E. P. Rows

L. Alton No. 2, lot 26, con. VIII, Bayham tp. Completed March 25, 1935. Producing gas well. Rock pressure: 550 lbs.

•	Thickness.
Formation	ft.
Quicksand	185
Člay	10
Gravel	10
Brown lime	190
Flint	125
Brown lime	40
Lime and gypsum	165
Lime, shale, and gypsum	191
Niagara	296
Blue shale	55
Clinton	19
Thorold sand	10
Red Medina	10
Blue shale	15

E. P. Rows

J. Ball No. 1, lot 26, S. ½, con. VIII, Bayham tp. Completed June 15, 1935.
Producing gas well.
Rock pressure: 580 lbs.

ck pressure. ood ibs.	Thickness
Formation	ft.
Surface	
Grey lime	62
Brown lime	
Flint	105
Grev lime	45
Lime, shale, and gypsum	
Brown and blue lime	
Niagara	286
Blue shale	
Clinton	
Thorold sand	
Red Medina	
Blue shale	

E. P. Rows

A. C. Wilson No. 2, lot 27, con. VIII, Bayham tp. Completed February 9, 1935. Producing gas well.
Rock pressure: 590 lbs.

	Thick ness,
Formation .	ft.
Quicksand	100
Člay	15
Gravel	
Grey lime	74
Brown lime	
Flint	100
Brown lime	135
Shale and gypsum	291
Niagara	299
Blue shale	
Clinton lime	19
Thorold sand	10
Red Medina	14
Blue shale	15

LAKESIDE OIL AND GAS Co., LTD.

C. Schollenberger No. 1, lot 8, con. IX, Dunwich tp Completed April 24, 1935. Dry hole.

	Thickness
Formation	ft.
Sand	
Clay	68
Gravel	4
Hardpan	28
Gravel	10
Sand	10
Hardpan	70
Upper soap	30
Middle lime	20
Lower soap	35
Dark streak	5
Lower dark lime	130
Lower light lime	45
Sand	10
Total depth	525

Fresh water at 150 feet.

LAKESIDE OIL AND GAS CO., LTD.
C. Schollenberger No. 2, lot 8, con. IX, Dunwich tp.
Completed May 2, 1935.
Dry hole.

	Thickness.
Formation	ft.
Clay	6
Boulders	2
Mild hardpan	
Stiff hardpan	
Gravel	
Hardpan	
Upper soapstone	
Middle lime	15
Lower soapstone	
Dark streak	
Lower lime	
Total depth	267

LAKESIDE OIL AND GAS Co., LTD.
C. Schollenberger No. 3, lot 8, con. X, Dunwich tp.
Completed May 15, 1935.
Dry hole.

| Thickness, | Thickness, | Formation | ft. | Clay | 50 | Mardpan | 25 | Cravel | 10 | Hardpan | 110 | Gravel | 10 | Hardpan | 30 | Upper soapstone | 10 | Middle lime | 15 | Lower soap | 16 | Dark streak | 4 | Lower lime | 25 | Total depth | 305 |

Essex County

Bon Jasperson

S. E. Ferris No. 1, lot 8, con. I, Gosfield South tp. Completed November 8, 1935. Producing gas well. Rock pressure: 325 lbs.

<u>-</u>	Thickness
Formation	ft.
Ouicksand	45
Brown lime	220
Grey lime	10
Hard brown and grey lime	130
Grey lime and gypsum	10
Grey lime	15
Hard brown lime	30
Grey lime	90
Hard brown lime	135
Grey and brown lime	135
Hard brown and grey lime	60
Grev and brown lime	15
Hard brown lime	17
White lime	2

Bon Jasperson

A. J. Gunning No. 1, lot 9, N.E. pt., con. I, E.D., Gosfield South tp.

Completed April 27, 1935. Producing gas well. Rock pressure: 300 lbs.

pressure. ooo ibs.	Thickness,
Formation	ft.
Surface	125
Brown lime	335
Grey lime and gypsum	17
Grey lime	478
_	

Total depth. 955
Gas at 665, 715, 862, 865, 870, 875, 920, and 931 feetFresh water at 126 feet; mineral water at 225 and 375
feet; salt water at 955 feet.

Bon Jasperson

A. Simmers Estate No. 1, lot 8, con. I, Gosfield South tp.

Completed August 10, 1935. Producing gas well. Rock pressure: 300 lbs.

	Thickness
Formation	ft.
Surface	55
No samples kept	375
Hard grey and brown lime	20
Medium grey lime	110
Hard brown and grey lime	120
Medium grey lime	10
Hard brown lime	5
Medium grey and brown lime	
Hard brown and grey lime	
Hard brown and white lime	
Medium grey and brown lime	
Total depth	923
Gas at 640, 828, and 920 feet. Fresh water at 55 feet.	

Grey County

NOTTAWA OIL AND GAS CO., LTD.

A. Barfoot No. 1, lot 11, con. VII, Keppel tp.
Completed March. 1935.
Producing gas well.

	1 Dickness
Formation	ft.
Surface	11
Brown lime	79
White lime	66
Green shale	14
Red shale	58
Blue shale	60
Blue lime	38
Red shale	136
Hudson formation	490
Utica	56
Trenton formation	621
Potsdam	8
Total depth	1 517

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.

	Thickness.
Formation	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

Haldimand County

BEN NATURAL GAS CO., LTD.

S. Bartlett No. 1, lot 9, con. II, Canborough tp. Completed August 9, 1935. Producing gas well. Rock pressure: 90 lbs.

	Thickness.
Formation	ft.
Surface	73
Shale	120
Niagara	200
Grey lime	18
Rochester shale	18
Clinton	
Red Medina	
Grey shale	
White Medina	10
Red shale	20

BEN NATURAL GAS CO., LTD.

S. Bartlett No. 2, lot 9, con. II, Canborough tp.
Completed August 29, 1935.
Producing gas well.
Rock pressure: 100 lbs.

TOTAL PRODUCTION TO STATE	Thickness.
Formation	ft.
Surface	58
Shale	119
Niagara	200
Grey lime	
Rochester shale	28
Clinton	35
Red Medina	35
Grey shale	60
White Medina	14
Red shale	
Total depth	584
Gas at 564 feet.	
Fresh water at 62 feet.	

BEN NATURAL GAS CO., LTD.

J. Calvert No. 1, lot 10, N.E. ½, con. II,
Canborough tp.

Completed September 24, 1935. Producing gas well. Rock pressure: 90 lbs.

	Thickness,
Formation	ft.
Surface	57
Shale	119
Niagara	200
Grey lime	15
Rochester shale	28
Clinton	35
Red Medina	35
Grey shale	60
White Medina	14
Red shale	
Total depth	583

Gas at 420 to 440 and 550 to 560 feet.

BEN NATURAL GAS CO., LTD.

A. Swayzie No. 1, lot 9, con. II, Canborough tp. Completed June 22, 1935.
Producing gas well.
Rock pressure: 95 lbs.

	I nickness.
Formation	ft.
Surface	61
Shale	124
Niagara	200
Grey lime	15
Rochester shale	
Clinton	
Red Medina	35
Grey shale	55
White Medina	10
Red shale	
•	
Total depth	560

Gas at 490 and 555 feet. Fresh water at 64 feet. BURCHELL NATURAL GAS AND OIL SYNDICATE J. N. Allen No. 1, lot 16, S. ½, con. II, Canborough tp. Completed April 23, 1935. Producing gas well. Rock pressure: 120 lbs.

	Thickness.
Formation	ft.
Surface	36
Lime and shale	122
Niagara	220
Shale	54
Clinton	27
Red Medina	40
Shale	56
White Medina	14
Red shale	35

BURCHELL NATURAL GAS AND OIL SYNDICATE
J. N. Allen No. 2, lot 16, con. II, Canborough tp.
Completed May 10, 1935.
Producing gas well.
Rock pressure: 125 lbs.

	Thickness
Formation	ft.
Surface	40
Lime and shale	117
Niagara	220
Shale	57
Clinton	28
Red Medina	38
Grey shale	
White Medina	
Red shale	35
Total depth	608

Gas at 450 and 560 feet. Fresh water at 45 feet; black water at 210 feet.

BURCHELL NATURAL GAS AND OIL SYNDICATE
J. N. Allen No. 3, lot 15, con. II, S.T.R.,
Canborough tp.

Completed May 29, 1935, Producing gas well. Rock pressure: 125 lbs.

	Thickness,
Formation	ft.
Surface	55
Lime and shale	125
Niagara	210
Shale	56
Clinton	30
Red Medina	48
Grey shale	
White Medina	14
Red shale	35
Total depth	625
Gas at 466, 496, and 588 feet. Fresh water at 57 feet; black water at 32	0 feet.

BURCHELL NATURAL GAS AND OIL SYNDICATE
J. N. Allen No. 4, lot 16, con. II, Canborough tp.
Completed October 2, 1935.
Producing gas well.
Rock pressure: 125 lbs.

•	Thickness.
Formation	ft.
Surface	41
Lime and shale	145
Niagara	200
Shale	55
Clinton	30
Red Medina	40
Grey shale	57
White Medina	12
Red shale	35

 COLONIAL NATURAL GAS CO., LTD.

S. Zarebski No. 1, lot 3, con. III, Canborough tp.
Completed August 2, 1935.
Producing gas well.
Rock pressure: 200 lbs.

Thickness

	i nickness.
Formation .	ft.
Surface	58
Lime and shale	204
Niagara	220
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	
Total depth	729

Gas at 566 feet. Fresh water at 55 feet.

HARRY L. EMERSON
H. L. Emerson No. 1, lots 5 and 6, con. I,
Canborough tp.

 Completed May 27, 1935.

 Producing gas well.

 Rock pressure: 115 lbs.

 Thickness.

 Formation
 ft.

 Surface
 70

 Lime and shale
 18

 Niagara
 275

 Shale
 44

 Clinton
 29

 Red Medina
 35

 Shale
 49

 White Medina
 11

 Red shale
 50

 Total depth
 581

Sulphur water at 55 feet.

HARRY L. EMERSON
H. L. Emerson No. 2, lots 5 and 6, con. I,
Canborough tp.

Completed July 3, 1935. Producing gas well. Rock pressure: 125 lbs.

k pressure: 125 lbs.	
•	Thickness,
Formation	ft.
Surface	82
Lime and shale	18
Niagara	
Shale	
Clinton	30
Red Medina	35
Shale	
White Medina	
Red shale	50
Total depth	590

Gas at 450 to 470 feet and 535 feet. Sulphur water at 60 feet.

ARTHUR RICKER

A. Ricker No. 2, lot 10, con. I, Canborough tp. Completed February 20, 1935, Producing gas well.
Rock pressure: 132 lbs.

		I hickness.
Formation		ft.
Surface		
Lime and shale		71
Niagara		
Rochester shale		
Clinton		
Red Medina	٠.	40
Grey shale		45
White Medina		
Red shale		42

ARTHUR RICKER

A. Ricker No. 3, lot 9, con. I, Canborough tp. Completed August 15, 1935. Producing gas well. Rock pressure: 120 lbs.

	Thickness
Formation	ft.
Surface	 . 46
Lime and shale	 . 105
Niagara	
Shale	
Clinton	 . 42
Red Medina	 . 37
Grey shale	 . 05
White Medina	
Red shale	 . 42

Total depth.....

Fresh water at 46 feet; black water at 165 feet.

WESTERN ONTARIO NATURAL GAS Co., LTD. H. Hamilton No. 4, lot 9, con. II, Earl tract, Dunn t p Completed December 23, 1935. Producing gas well. Rock pressure: 370 lbs.

	I mckness,
Formation	ft.
Surface	9
Flint	30
Hard lime	40
Lime and shale	
Niagara lime	225
Shale	55
Clinton	36
Red Medina	40
Grev shale	
White Medina	
Red shale	
Red Shale	
Total depth	875

Thistones

Thickness.

Gas at 713, 756, and 850 feet. Fresh water at 75 feet; salt water at 500 feet.

AMITY NATURAL GAS Co., LTD. C. Waines No. 1, lot 8, E. pt., con. III C., Moulton tp.

Completed January 18, 1935. Dry hole.

ry hole.	Thickness.
Formation	ft.
Surface	95
Lime and shale	
Niagara	220
Shale	62
Clinton	33
Red Medina	37
Shale	60
White Medina	
Red shale	2

Total depth.... Sulphur water at 98 feet.

JOHN S. BROOKES

J. S. Brookes No. 1, Town of Dunnville, Moulton tp. Completed November 13, 1935. Producing gas well. Rock pressure: 175 lbs.

Formation		ft.
Surface		. 83
Lime and shale		. 270
Niagara		. 200
Shale		
Clinton		
Red Medina		
Grev shale		
White Medina		
Red shale		
Reu shale	• •	
Total depth		. 797

Gas at 626, 655, and 742 feet.

Fresh water at 84 feet; sulphur water at 120 feet; black water at 400 feet.

CANADIAN NATURAL GAS SYNDICATE H. B. Etherington No. 1, lot 20, W. ½, S.F.R., Moulton tp.

Completed April 30, 1935. Producing gas well. Rock pressure: 210 lbs.

-	Thickness,
Formation	ft.
Surface	90
Lime and shale	180
Niagara	220
Shale	64
Clinton	30
Red Medina	35
Shale	55
White Medina	10
Red shale	50
Total depth	734
Gas at 606 feet.	
Fresh water at 88 feet.	

CANADIAN NATURAL GAS SYNDICATE H. B. Etherington No. 2, lot 20, W. ½, S.F.R., Moulton tp.

Completed May 30, 1935. Producing gas well. Rock pressure: 280 lbs.

	1 nickness
Formation	ft.
Surface	88
Lime and shale	180
Niagara	220
Shale	
Clinton	
Red Medina	
Shale	53
White Medina	
Red shale	
Total depth	726

Gas at 597 feet. Fresh water at 100 feet.

CANADIAN NATURAL GAS SYNDICATE J. Melick No. 1, lots 21 and 22, S. pt., N.F.R., Moulton tp.

Completed March 4, 1935. Producing gas well. Rock pressure: 200 lbs.

•	Thickness
Formation	ft.
Surface	96
Lime and shale	184
Niagara	220
Shale	61
Clinton	30
Red Medina	34
Shale	
White Medina	
Red shale	= = =
Red shale	
Total depth	728

Gas at 608 and 676 feet. Sulphur water at 100 feet.

CANADIAN NATURAL GAS SYNDICATE J. Melick No. 2, lots 21 and 22, S. pt., N.F.R., Moulton tp.

Completed April 2, 1935.

Sulphur water at 73 feet.

y hole.	Thickness,
Formation	ft.
Surface	
Lime and shale	 187
Niagara	220
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	
Total depth	 681

Domestic Natural Gas Syndicate	No. 2
R. Root No. 1, lot 2, range I, Grand Moulton tp.	river,
Completed December 27, 1935. Producing gas well. Rock pressure: 165 lbs.	
Rock pressure. 100 tos.	Thick

	Thickness
Formation	ft.
Surface	84
Lime and shale	231
Niagara lime	200
Blue shale	
Clinton	31
Red Medina	33
Grey shale	61
White Medina	
Red shale	
Total depth	811

Gas at 575 and 701 feet. Fresh water at 85 feet; sulphur water at 450 feet.

PERCY L. JACKSON

D. Gunning No. 1, lot 1, N.W. 1/4, range II, Grand river, Moulton tp.

Completed June 8, 1935. Producing gas well. Rock pressure: 100 lbs.

ck pressure: 100 lbs.	Thickness.
Formation	ft.
Surface	86
Brown lime	139
Shale	87
Niagara	213
Blue shale	41
Clinton	22
Red Medina	
Grev shale	
White Medina	
Red shale	
Total depth	794

Gas at 580 and 692 feet. Fresh water at 85 feet; black water at 340 feet.

S. McKechnie

S. McKechnie No. 1, lot 21, Town of Dunnville, Moulton tp.

Completed October 4, 1935. Producing gas well. Rock pressure: 150 lbs.

ek pressure: 150 lbs.	Thickness.
Formation	ft.
Surface	79
Lime and shale	232
Niagara	230
Shale	55
Clinton	28
Red Medina	42
Shale	
White Medina	
Red shale	
200 04000	

SMITH AND EHDE

M. Honsinger No. 1, lot 6, gore A, Moulton tp. Completed September 3, 1935. Dry hole. Thickness.

	T THE WHESS
Formation	ft.
Surface	107
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Shale	
White Medina	14
Red shale	2
Red Shale	

Total depth..... 626 Fresh water at 107 feet; black water at 300 feet. SMITH AND EHDR

M. Honsinger No. 2, lot 6, gore A, Moulton tp. Completed October 2, 1935. Dry hole.

Formation	Thickness,
Surface	122
Lime and shale	88
Niagara	220
Shale	61
Clinton	30
Red Medina	36
Shale	55 15
White Medina	15
Red shale	
Total depth	629

Fresh water at 122 feet; black water at 285 feet.

SMITH AND EHDE

M. Honsinger No. 3, lot 6, gore A, Moulton tp. Completed October 24, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	
Lime and shale	90
Niagara	220
Shale	60
Clinton	33
Red Medina	35
Shale	55
White Medina	15
Red shale	
Total depth	628

Fresh water at 117 feet; black water at 320 feet.

SMITH AND EHDE

W. Neff No. 1, lot 7, W. 1/2, N.F.R. Moulton tp. Completed November 23, 1935.

y noie.	Thickness.
Formation	ft.
Surface	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	5
Total depth	654

Fresh water at 120 feet; black water at 350 feet.

SMITH AND EHDE

W. Neff No. 2, lot 7, W. 1/2, N.F.R., Moulton tp. Completed December 20, 1935. Dry hole.

y hole.	Thickness,
Formation	ft.
Surface	120
Lime and shale	
Niagara	220
Shale	61
Clinton	35
Red Medina	34
Shale	58
White Medina	12
Red shale	1

Fresh water at 119 feet; black water at 345 feet.

STROMWELL GAS SYNDICATE

L. McCallum No. 3, lot 14, con. II, Moulton tp. Completed October 19, 1935.

•	Thickness,
Formation	ft.
Surface	146
Lime and shale	223
Niagara	220
Shale	
Clinton	
Red Medina	44
Grey shale	55
White Medina	
Total depth	774
Fresh water at 150 feet.	

CANFIELD GAS SYNDICATE

Biggam No. 1, lot 12, S. 1/2, con. II, North Cayuga tp Completed June 15, 1935. Producing gas well. Rock pressure: 578 lbs.

ck pressure. 576 ibs.	Thickness,
Formation	ft.
Surface	
Lime and shale	240
Niagara	225
Shale	
Clinton rock	30
Red Medina	40
Grev shale	52
White Medina	15
Red shale	50

Total depth..... Gas at 636 and 727 feet. Fresh water at 58 feet; salt water at 430 feet.

CANFIELD GAS SYNDICATE A. Burke No. 1, lot 14, N.W. ½ of N. ½, con. II, North Cayuga tp.

Completed February 22, 1935. Producing gas well. Rock pressure: 270 lbs.

•	Thickness
Formation	ft.
Surface	49
Lime and shale	256
Niagara	225
Shale	56
Clinton	
Red Medina	
Grey shale	52
White Medina	
Red shale	44
Total depth	770

Gas at 591 feet. Fresh water at 60 feet; salt water at 400 feet.

CANFIELD GAS SYNDICATE T. Gifford No. 1, lot 12, con. III, North Cayuga tp. Completed September 13, 1935. Producing gas well. Rock pressure: 270 lbs.

Formation Surface	m
SurfaceLime and shale	ľhickness,
Lime and shale	ft.
	71
Niagara	231
	225
Shale	55
Clinton rock	30
Red Medina	40
Grev shale	52
White Medina	18
Red shale	48
Total depth	770

Gas at 719 feet. Fresh water at 78 feet.

CANFIELD GAS SYNDICATE

R. McDonald No. 1, lot 13, N. ½, con. II, S.T.R. North Cayuga tp.

Completed May 20, 1935. Producing gas well. Rock pressure: 290 lbs.

ck pressure: 290 lbs.	
	Thickness.
Formation	ft.
Surface	49
Lime and shale	251
Niagara	
Shale	56
Clinton rock	
Red Medina	
Grey shale	
White Medina	
Red shale	
Total depth	770

Gas at 586, 629, and 718 feet. Fresh water at 60 feet; salt water at 430 feet.

CANFIELD GAS SYNDICATE

C. Morris No. 1, lot 14, S. ½ of N.E. ½, con. II, North Cayuga tp.

Completed March 20, 1935. Producing gas well. Rock pressure: 260 lbs.

property and the	Thickness,
Formation	ft.
Surface	44
Lime and shale	257
Niagara	225
Shale	
Clinton rock	30
Red Medina	40
Grev shale	52
White Medina	
Red shale	
Total depth	770

Gas at 511 feet. Fresh water at 50 feet; salt water at 430 feet.

CANFIELD GAS SYNDICATE

M. Murphy No. 1, lot 15, N. pt., con. II, S.T.R., North Cayuga tp.

Completed January 29, 1935. Dry hole.

,		Thickness.
	Formation	ft.
	Surface	57
	Lime and shale	247
	Niagara	225
	Shale	
	Clinton rock	30
	Red Medina	40
	Grev shale	52
	White Medina	
	Red shale	5

Total depth..... Fresh water at 60 feet; salt water at 400 feet.

CANFIELD GAS SYNDICATE

R. Murphy No. 1, lot 12, N. ½, con. III, S.T.R., North Cayuga tp.

Completed August 17, 1935. Dry hole.

Thickness, Formation Formation
Surface
Lime and shale
Niagara
Shale
Clinton rock
Red Medina 240 225 55 30 Red shale.....

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

1936	Natural (Gas in 1
Canfield Gas Syndicate		
R. Murphy No. 1, lot 13, N. ½, con. North Cayuga tp.	III, S.T.R.,]
Completed July 18, 1935. Producing gas well.		Comp Dry h
Rock pressure: 300 lbs.	Thickness,	
Formation	ft.	s
Surface	. 74	Ĩ,
Lime and shale	. 234	N
Niagara	. 225	S
Shale		C R
Clinton		Ğ
Grey shale		Й
White Medina	. 18	R
Red shale	. 42	
Watel Jonth	770	 .
Total depth		Fresh
Canfield Gas Syndicate W. Vickers No. 1, lot 16, N. pt., c North Cayuga tp.	on. II,	J.
Completed October 29, 1935.		Сопр
Producing gas well.		Dry h
Rock pressure: 270 lbs.	Thickness,	
Formation	ft.	s
Surface	. 66	Ĺ
Lime and shale	. 253	N
Niagara	. 225	S
Shale		C R
Red Medina	• 12	G
Grey shale	. 52	v
White Medina	. 18	R
Red shale	30	
Total depth	. 770	
Gas at 610 to 620 and 640 to 650 feet. Fresh water at 120 feet.		Fresh fe
CANFIELD GAS SYNDICATE		
W. Vickers No. 2, lot 16, N. pt., c North Cayuga tp.	on. II,	Т. М
Completed November 22, 1935.		
Producing gas well.		Comp

Rock pressure: 250 lbs.

ck pressure: 250 lbs.	
•	Thickness,
Formation	ft.
Surface	65
Lime and shale	254
Niagara	
Shale	
Clinton rock	
Red Medina	
Grev shale	= = =
White Medina	12
Red shale	

Total depth..... 770 Gas at 610 to 620 and 640 to 650 feet. Fresh water at 85 feet.

CONSOLIDATED NATURAL GAS Co., LTD. J. T. Armstrong No. 1, lot 49, con. I, N.T.R., North Cayuga tp.

Completed November 2, 1935. Producing gas well. Rock pressure: 300 lbs.

	i nickness,
Formation	ft.
Surface	4
Sandstone	
Broken lime	27
Lime and shale	350
Niagara	225
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	6
•	

Total depth..... 823

Th: -1---

Gas at 690, 700, and 713 feet. Fresh water at 120 feet; sulphur water at 175 feet.

DOMESTIC NATURAL GAS SYNDICATE P. McFarlin No. 1, lot 29, con. I, N.T.R., North Cayuga tp.

pleted October 4, 1935.

	Thickness.
Formation	ft.
Surface	51
Lime and shale	226
Niagara	225
Shale	55
Clinton	24
Red Medina	39
Grey shale	59
White Medina	12
Red shale	5
Total depth	696
esh water at 60 feet and 100 feet.	

DOMESTIC NATURAL GAS SYNDICATE Mehlenbacher No. 1, lot 28, con. I, S.T.R., North Cayuga tp.

oleted September 9, 1935.

•	Thickness,
Formation	ft.
Surface	54
Lime and shale	221
Niagara	225
Shale	54
Clinton	24
Red Medina	43
Grey shale	60
White Medina	12
Red shale	1
-	
Total depth	694

water at 44 and 65 feet; sulphur water at 300 eet.

DUNNVILLE DETROIT GAS SYNDICATE (cDonald No. 1, lot 12, N. ½, con. II, S.T.R., North Cayuga tp.

mpleted December 24, 1935. Producing gas well. Rock pressure: 260 lbs.

-	Thickness,
Formation	ft.
Surface	. 62
Lime and shale	. 233
Niagara	. 225
Shale	
Clinton	. 30
Red Medina	. 40
Grev shale	. 52
White Medina	
Red shale	. 51

Gas at 580 to 600, 616 to 636, and 705 to 715 feet. Fresh water at 65 feet.

ESMOND AVERY AND ASSOCIATES B. Carter No. 1, lot 12, S. 1/2, con. I, S.T.R., North Cayuga tp.

Completed January 3, 1935. Dry hole.

•	Thickness
Formation	ft.
Surface	. 57
Lime and shale	. 198
Niagara	. 233
Shale	. 55
Clinton	. 25
Red Medina	. 42
Shale	. 60
White Medina	. 10
Red shale	
Total depth	. 682

Fresh water at 60 feet.

Total depth......Gas at 531 and 655 feet.
Fresh water at 60 feet.

40 DC	oar ciric	iit or willies	1 (,)
ESMOND AVERY AND ASSOCIATES		Grand River Natural Gas Synd	ICATE
B. Carter No. 2, lot 12, S. ½, con. I, S.T.R., North Cayuga tp.		C. Donnelly No. 1, lot 22, con. II, S.T.R., North Cayuga tp.	
Completed February 9, 1935.		Completed August 13, 1935.	
Producing gas well.		Producing gas well. Rock pressure: 215 lbs.	
Rock pressure: 220 lbs.	ickness,	Nock pressure. 210 los.	Thickness
Formation	ft.	Formation	ft.
Surface	57 200	SurfaceLime and shale	56 258
	224	Niagara	200
Shale	54 31	White lime	50
Clinton	40	Clinton	
Shale	60	Red Medina	35
White Medina	10 50	Blue shale	65 10
		Red shale	
	726	Total depth	734
Sas at 538, 564, and 671 feet. Fresh water at 56 feet.		Gas at 602 and 637 feet.	
resh water at 00 feet.		Fresh water at 60 feet.	
		GRAND RIVER NATURAL GAS SYND	ICATE
ESMOND AVERY AND ASSOCIATES		J. Donnelly No. 2, lot 22, con. II, S	
W. Haines No. 1, lot 10, N. ½, con. I, S. North Cayuga tp.	r.R.,	North Cayuga tp.	•
Completed March 5, 1935.		Completed September 14, 1935. Producing gas well.	
roducing gas well.		Rock pressure: 215 lbs.	
Rock pressure: 230 lbs.	ickness,	T2	Thickness,
Formation	ft.	Formation Surface	ft. 56
Surface	63 190	Lime and shale	257
	225	Niagara	200 50
Shale	53	Rochester shale	33
Clinton	27 43	Clinton	27
Shale	60	Red MedinaBlue shale	33 65
White Medina	10	White Medina	10
Red shale	52	Red shale	2
	723	Total depth	733
as at 554 and 666 feet.		Gas at 623 feet.	
resh water at 64 feet.		Fresh water at 60 feet.	
**************************************		GRAND RIVER NATURAL GAS SYND	CATE
ESMOND AVERY AND ASSOCIATES		T. Donnelly No. 2, lot 23, con. II, S	.T.R.,
W. Haines No. 2, lot 10, N. 1/2, con. II, S.	T.R.,	North Cayuga tp.	
North Cayuga tp.	•	Completed October 27, 1935. Producing gas well.	
completed March 26, 1935.		Rock pressure: 185 lbs.	
Ory hole.	ickness,	Formation	Thickness, ft.
Formation	ft.	Surface	44
Surface	$\begin{array}{c} 53 \\ 202 \end{array}$	Lime and shale Niagara	259
	231	White lime	200 50
Shale	43 26	Shale	25
Clinton	42	Clinton	25 33
Shale	60	Blue shale	65
White Medina	10 4	White Medina	10 27
		Ned Share	
	671	Total depth	738
resh water at 50 feet.		Gas at 586 feet. Fresh water at 60 feet.	
		Tresh water at 60 rect.	
ESMOND AVERY AND ASSOCIATES		GRAND RIVER NATURAL GAS SYNDI	
W. Haines No. 3, lot 10, N. ½, con. II, S.	r.R	H. Walton No. 3, lots 15 and 16, con. II North Cayuga tp.	I, S.R.R.,
North Cayuga tp.	,	Completed July 9, 1936.	
Completed April 29, 1935.		Producing gas well.	
roducing gas well. lock pressure: 200 lbs.		Rock pressure: 250 lbs.	Thio!
Thi	ckness,	Formation	Thickness, ft.
	ft. 59	Surface	38
Lime and shale 1	76	Lime and shale Niagara	256 200
Niagara 2	25	White lime	50
Shale	49 29	Shale	38
Clinton	42	Clinton	25 35
Shale	60	Blue shale	63
White Mediua	10 50	White MedinaRed shale	10
			2
Total depth 7	00	Total depth	717

Percy L. Jackson			
A. Riley	No. 1, lot 35, con. I, N.T.R.,		
North Cayuga tp.			

Completed June 26, 1935. Producing gas well. Rock pressure: 200 lbs.

	Thickness
Formation	ft.
Surface	15
Lime and shale	220
Niagara	230
Shale	
Clinton	24
Red Medina	40
Grey shale	
White Medina	12
Red shale	

MIDFIELD NATURAL GAS CO., LTD.
J. Clarke No. 2, lot 52, N. ½, con. I,
North Cayuga tp.

Completed December 9, 1935. Producing gas well. Rock pressure: 340 lbs.

ck pressure. 340 lbs.	Thickness.
Formation	ft.
Surface	
Flint	12
Lime and shale	377
Niagara	225
Rochester shale	
Clinton	23
Red Medina	27
Grey shale	59
White Medina	12
Red shale	10
Total depth	836

Gas at 709 and 736 feet. Fresh water at 40 feet.

NORTH CAYUGA GAS SYNDICATE
J. Glenny No. 1, Huff tract, North Cayuga tp.
Completed September 28, 1935.
Producing gas well.
Rock pressure: 255 lbs.

Formation Surface Lime and shale Niagara	247
Lime and shale	247
	000
	230
Shale	55
Clinton	27
Red Medina	
Grey shale	
White Medina	
Red shale	
Total depth	740

Gas at 590 to 600 and 608 to 648 feet. Fresh water at 51 and 90 feet; salt water at 425 feet.

NORTH CAYUGA GAS SYNDICATE
J. Glenny No. 2, Huff tract, North Cayuga tp.
Completed October 14, 1935.
Producing gas well.
Rock pressure: 240 lbs.

ca pressure. Dre tae.	Thickness,
Formation	ft.
Surface,	48
Lime and shale	252
Niagara	230
Shale	
Clinton	27
Red Medina	40
Grev shale	
White Medina	
Red shale	
_	

 CONSOLIDATED NATURAL GAS CO., LTD. G. Ridely No. 4, lot 16, con. V, Oneida tp. Completed June 6, 1935. Producing gas well. Rock pressure: 160 lbs.

Gas at 502 feet. Fresh water at 35 feet.

CONSOLIDATED NATURAL GAS Co., LTD. G. Ridely No. 5, lot 16, con. V, Oneida tp.

Total depth.....

Completed July 17, 1935. Producing gas well. Rock pressure: 160 lbs.

-	Thickness,
Formation	ft.
Surface	28
Lime and shale	173
Niagara	228
Shale	
Clinton	
Red Medina	
Shale	
White Medina	12
Red shale	5
Total depth	612

Gas at 502 and 507 feet. Fresh water at 35 feet.

CONSOLIDATED NATURAL GAS CO., LTD. G. Ridely No. 6, lot 16, con. V, Oneida tp. Completed August 2, 1935.
Producing gas well.
Rock pressure: 155 lbs.

	Thickness.
Formation	ft.
Surface	42
Lime and shale	173
Niagara	225
Shale	52
Clinton	
Red Medina	27
Shale	63
White Medina	14
Red shale	4
Total depth	625
Gas at 510 and 530 feet.	
Fresh water at 60 feet.	

CONSOLIDATED NATURAL GAS CO., LTD. E. Smelser No. 1, lot 15, con. IV, Oneida tp. Completed September 5, 1935. Dry hole.

,		Thickness,
	Formation	ft.
	Surface	39
	Lime and shale	168
	Niagara	226
	Shale	
	Clinton	
	Red Medina	
	Shale	65
	White Medina	
	Red shale	
	Total depth	622

Fresh water at 55 feet.

CONSOLIDATED NATURAL GAS CO., LTD.
E. Smelser No. 2, lot 15, S. pt., con. IV, Oneida tp.
Completed September 30, 1935.
Producing gas well.
Rock pressure: 155 lbs.

ca pressure. 100 lbs.	Thickness.
Formation	ft.
Surface	
Lime and shale	166
Niagara	226
Shale	57
Clinton	29
Red Medina	27
Shale	65
White Medina	13
Red shale	5
Total depth	627

Gas at 508 feet. Fresh water at 46 feet.

W. H. CULVER, JR.

P. La Fortune No. 1, lot 18, con. V, Oneida tp. Completed August 22, 1935. Producing gas well. Rock pressure: 245 lbs.

	Thickness,
Formation	ft.
Surface	. 40
Lime and shale	. 180
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
White Medina	10
Red shale	

W. H. CULVER, JR.

P. La Fortune No. 2, lot 18, con. V, Oneida tp. Completed September 3, 1935.

•	Thickness
Formation	ft.
Surface	50
Lime and shale	190
Niagara	225
Shale	50
Clinton	25
Red Medina	35
Grey shale	60
White Medina	10
Red shale	2
Total depth	647

Sulphur water at 75 feet.

W. H. CULVER, JR.

P. La Fortune No. 3, lot 18, con. V, Oneida tp. Completed October 30, 1935. Dry hole.

Formation Surface Lime and shale Niagara Shale Clinton Red Medina Grey shale White Medina Red shale	140 270 51 23 20 65 10
Total depth	644

W. H. CULVER, JR.

P. La Fortune No. 4, lot 18, con. V, Oneida tp. Completed December 9, 1935. Producing gas well. Rock pressure: 225 lbs.

	Thickness.
Formation	ft.
Surface	 30
Lime and shale	 176
Niagara	235
Shale	50
Clinton	20
Red Medina	35
Grev shale	65
White Medina	10
Red shale	 20
Total depth	641

Gas at 499 and 620 feet. Fresh water at 40 feet.

Gasfinders Gas Co., Ltd.

A. Hunter No. 1, lot 18, con. II, Oneida tp. Completed April 26, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	81
Lime and shale	240
Niagara	250
Shale	50
Clinton	24
Red Medina	33
Grey shale	60
White Medina	10
Red shale	$\tilde{25}$
Total depth	770
I Otal depth	773

Fresh water at 90 feet; sulphur water at 125 feet; black water at 300 feet.

GASFINDERS GAS CO., LTD.

A. T. Lang No. 2, pt. Andross block, Oneida tp. Completed January 31, 1935. Dry hole.

	I hickness.
Formation	ft.
Surface	38
Lime and shale	175
Niagara	200
Shale	47
Clinton	20
Red Medina	32
Grey shale	55
White Medina	. 12
Red shale	4
Total depth	502

Fresh water at 55 feet; sulphur water at 95 feet; black water at 300 feet.

Gasfinders Gas Co., Ltd.
D. Smith No. 1, lot 18, con. IV, Oneida tp.
Completed February 23, 1935.
Dry hole.

y note.		Thickness
Formation .		ft.
Surface		77
Lime and shale		240
Niagara		250
Shale		50
Clinton		24
Red Medina		20
Grey shale		70
White Medina		11
Red shale	٠.	3
Total depth		745

Fresh water at 60 feet.

	Percy L. Jackson	
G. Ferguson	No. 1, lot 75, R.R., Oneida tp.	-
Completed April Dry hole.	24, 1935.	

	Thickness
Formation	ft.
Surface	12
Broken lime	28
Lime and shale	200
Niagara	225
Shale	65
Clinton	25
Red Medina	40
Grey shale	50
White Medina	15
Red shale	
Total depth	663

Fresh water at 38 feet.

PERCY L. JACKSON
G. Ferguson No. 2, lot 75, R.R., Oneida tp.
Completed May 23, 1935.
Producing gas well.
Rock pressure: 200 lbs.

	Thickness
Formation	ft.
Surface	25
Lime and shale	215
Niagara	210
Shale	58
Clinton	25
Red Medina	40
Grey shale	55
White Medina	12
Red shale	1

PERCY L. JACKSON
I. Ferguson No. 1, lot 77, R.R., Oneida tp.
Completed July 25, 1935.
Producing gas well.
Rock pressure: 200 lbs.

=	Thickness.
Formation	ft.
Surface	
Lime and shale	
Niagara	215
Shale	55
Clinton	24
Red Medina	40
Grey shale	60
White Medina	
Red shale	92
-	
Total depth	760

Gas at 542 and 552 feet. Fresh water at 60 feet.

LYNN VALLEY GAS SYNDICATE
W. Stark No. 1, lot 19, con. II, Oneida tp.
Completed January 30, 1935.
Dry hole.

	Thickness
Formation	ft.
Surface	70
Lime and shale	265
Niagara	225
Rochester shale	53
Clinton	24
Red Medina	35
Grey shale	57
White Medina	18
Red shale	3
Total depth	750
Fresh water at 90 feet.	

LYNN VALLEY GAS SYNDICATE
W. Stark No. 2, lot 19, con. II, Oneida tp.
Completed March 15, 1935.
Dry hole.

	Thickness,
Formation .	ft.
Surface	40
Broken lime	32
Lime and shale	263
Niagara	225
Rochester shale	53
Clinton	27
Red Medina	37
Grey shale	55
White Medina	18
Total depth	750
Black water at 90 feet.	

RIVER VALLEY NATURAL GAS SYNDICATE C. Gailing No. 1, lot 21, con. III, Oneida tp. Completed December 14, 1935. Producing gas well. Rock pressure: 350 lbs.

	Thickness.
Formation	ft.
Surface	12
Hardpan	78
Lime and shale	275
Niagara	220
Shale	36
Clinton	25
Red Medina	30
Shale	64
White Medina	20
Red shale	15
-	
Total depth	795

Gas at 655 and 765 feet. Fresh water at 97 feet; black water at 200 feet.

RIVER VALLEY NATURAL GAS SYNDICATE
J. Stark No. 1, lot 23, S. ½, con. III, Oneida tp.
Completed March 27, 1935.
Producing gas well.
Rock pressure: 300 lbs.

	Thickness.
Formation	ft.
Surface	7
Lime and gypsum	96
Lime and shale	267
Niagara	225
Shale	53
Clinton	29
Red Medina	32
Grey shale	59
White Medina	18
Total depth	786

Gas at 675 feet. Fresh water at 77 feet; black water at 136 feet.

RIVER VALLEY NATURAL GAS SYNDICATE R. W. Smith No. 1, lot 22, con. III, Oneida tp. Completed January 29, 1935. Producing gas well. Rock pressure: 310 lbs.

	Thickness.
Formation	ft.
Surface	15
Broken lime	75
Lime and shale	270
Niagara	224
Shale	54
Clinton	. 28
Red Medina	32
Grey shale	58
White Medina	
Red shale	
Total depth	817

Gas at 668 and 780 feet. Fresh water at 77 feet; sulphur water at 140 feet. RIVER VALLEY NATURAL GAS SYNDICATE R. W. Smith No. 2, lot 21, con. III, Oneida tp. Completed February 23, 1935. Dry hole.

	i nickness,
Formation	ft.
Surface	12
Broken lime	81
Shale and lime	272
Niagara	220
Shale	59
Clinton	27
Red Medina	40
Grey shale	
White Medina	19

RIVER VALLEY NATURAL GAS SYNDICATE R. Smith No. 3, lot 22, con. III, Oneida tp. Completed May 11, 1935. Dry hole.

	l hickness.
Formation .	ft.
Surface	6
Broken lime	91
Lime and shale	283
Niagara	225
Shale	
Clinton	21
Red Medina	32
Grev shale	58
White Medina	

Fresh water at 93 feet; black water at 145 feet.

YORK NATURAL GAS SYNDICATE
O. Peart No. 1, pt. Anderson block, Oneida tp.
Completed July 8, 1935.
Producing gas well.
Rock pressure: 260 lbs.

	I hickness.
Formation	ft.
Surface	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	1
-	

YORK NATURAL GAS SYNDICATE

O. Peart No. 2, pt. Anderson block, Oneida tp. Completed July 25, 1936. Dry hole.

	Thickness,
Formation	ft.
Surface	25
Lime and shale	178
Niagara	225
Shale	50
Clinton	22
Red Medina	35
Grey shale	59
White Medina	19
Red shale	1
Total depth	614
Fresh water at 60 feet.	

YORK NATURAL GAS SYNDICATE
B. Pettit No. 1, pt. Anderson block, Oneida tp.
Completed September 17, 1935.
Producing gas well.
Rock pressure: 190 lbs.

	Thickness
Formation	ft.
Surface	40
Lime and shale	135
Niagara	225
Shale	50
Clinton	22
Red Medina	35
Grey shale	60
White Medina	15
Red shale	40
Total depth	622

Fresh water at 50 feet.

YORK NATURAL GAS SYNDICATE
B. Pettit No. 2, pt. Anderson block, Oneida tp.
Completed September 27, 1935.
Dry hole.

	Thickness,
Formation	ft.
Surface	37
Lime and shale	139
Niagara	
Shale	50
Clinton	22
Red Medina	35
Grey shale	60
White Medina	15
Red shale	2
Total depth	585
Fresh water at 32 feet.	

YORK NATURAL GAS SYNDICATE
B. Pettit No. 3, pt. Anderson block, Oneida tp.
Completed October 10, 1935.
Producing gas well.
Rock pressure: 200 lbs.

the state of the s	I HICKHESS,
Formation	ft.
Surface	60
Lime and shale	135
Niagara	225
Shale	50
Clinton	28
Red Medina	35
Shale	60
White Medina	10
Red shale	2
<u>.</u>	
Total depth	605
Gas at 473 to 479 feet.	
Fresh water at 75 feet.	

DOMESTIC NATURAL GAS SYNDICATE
I. Stadder No. 1, lot 3, con. I, Rainham tp.
Completed September 23, 1935.
Dry hole.

	Thickness,
Formation	ft.
Surface	8
Broken lime	4
Flint	98
Lime and shale	398
Niagara	252
Shale	53
Clinton	27
Red Medina	45
Grey shale	62
White Medina	12
Red shale	4
Total depth	963
Fresh water at 80 feet.	

DOMESTIC NATURAL GAS Co., LTD. Wm. Stadder No. 2, lot 16, con. II, Rainham tp. Completed November 27, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	18
Flint	42
Lime and shale	375
Niagara lime	235
Shale	57
Clinton	
Red Medina	
Grey shale	
White Medina	13
Red shale	
Neu state	

DOMESTIC NATURAL GAS SYNDICATE Wm. Stadder No. 1, lot 16, con. II, Rainham tp. Completed November 7, 1935. Producing gas well. Rock pressure: 325 lbs.

Formation Surface	ft. 16
Flint	50
Lime and shale	374
Niagara lime	230
Rochester shale	55
Clinton	30
Red Medina	40
Grey shale	55
White Medina	13
Red shale	9
Total depth	872

Gas at 737 and 763 feet. Fresh water at 60 feet; black water at 220 feet; sulphur water at 590 feet.

HALDIMAND GAS AND OIL SYNDICATE
J. Winger No. 2, lot 5, S.W. ¼, con. IV, Rainham tp.
Completed November 27, 1935.
Producing gas well.
Rock pressure: 350 lbs.

,·	Thickness,
Formation	ft.
Surface	
Flint	100
Lime and shale	340
Niagara	210
White lime	55
Rochester shale	38
Clinton	28
Red Medina	
Red shale	14
Grey shale	
White Medina	18
Red shale	ĩ
· .	

IDEAL GAS SYNDICATE

J. Rhora No. 1, lot 1, E. ½, con. IV, Rainham tp.
Completed July 25, 1935.
Dry hole.

y noic.	Thickness
Formation	ft.
Surface	
Flint	94
Lime and shale	362
Niagara	236
Shale	
Clinton	25
Red Medina	
Shale	
White Medina	10

IDEAL GAS SYNDICATE

J. Rhora No. 2, lot 1, E. ½, con. IV, Rainham tp. Completed August 20, 1935. Producing gas well. Rock pressure: 335 lbs.

	Thickness.
Formation	ft.
Surface	
Flint	101
Lime and shale	367
Niagara	230
Shale	56
Clinton	25
Red Medina	46
Shale	
White Medina	
Red shale	50
Total depth	963

Gas at 804 and 910 feet. Fresh water at 82 feet.

IDEAL GAS SYNDICATE

J. Rhora No. 3, lot 1, E. ½, con. IV, Rainham tp. Completed September 20, 1935. Producing gas well. Rock pressure: 350 lbs.

•	Thickness.
Formation	ft.
Surface	 19
Flint	 105
Lime and shale	
Niagara	 249
Shale	
Clinton	 28
Red Medina	 44
Shale	
White Medina	 10
Red shale	 3

IDEAL GAS SYNDICATE

J. Rhora No. 4, lot 1, con. IV, Rainham tp. Completed October 15, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	8
Flint	116
Lime and shale	354
Niagara	247
Shale	52
Clinton	27
Red Medina	45
Shale	60
White Medina	10
Red shale	3
Total depth	922
Fresh water at 65 feet.	

IDEAL GAS SYNDICATE
J. Rhora No. 5, lot 1, con. IV, Rainham tp.
Completed November 16, 1935.
Producing gas well.
Rock pressure: 330 lbs.

Formation		Thickness,
Surface		
Flint		126
Lime and shale		
Niagara	<i>.</i>	245
Shale		56
Clinton		
Red Medina		
Shale		
White Medina		
Red shale	٠.,	25

IDEAL	GAS	SYNDICATE
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IDUNG OND BINDICKIE	
J. Rhora No. 6, lot 1, con. IV, Rainh	am tp.
Completed December 24, 1935. Producing gas well.	
Rock pressure: 321 lbs.	

	Thickness,
Formation	ft.
Surface	6
Flint	127
Lime and shale	360
Niagara	240
Shale	62
Clinton	27
Red Medina	42
Shale	60
White Medina	
Red shale	
Total depth	964

Gas at 805 and 929 feet.

LADD AND KNIGHT

Nafel and Best No. 1, lot 7, con. IV, Rainham tp. Completed October 17, 1935. Producing gas well. Rock pressure: 365 lbs.

ock pressure: 365 lbs.	
•	Thickness.
Formation .	ft.
Surface	18
Flint	90
Lime and shale	
Niagara	220
Shale	63
White Medina	
Red shale	
area succession and a second succession are second succession and a second suc	
Total depth	000

Total depth..... 889 Fresh water at 55 feet; black water at 85 and 457 feet.

LADD AND KNIGHT

O. Reicheld No. 2, lot 6, N. 1/2, con. IV, Rainham tp. Completed December 16, 1935. Dry hole.

•	Thickness.
Formation	ft.
Surface	18
Flint	90
Lime and shale	357
Niagara	225
Shale	58
Clinton	28
Red Medina	45
Shale	60
White Medina	
Red shale	5
Makad danada	
Total depth	896

Fresh water at 52 feet; black water at 375 feet.

L. P. MYTINGER

F. Nablo No. 1, lot 7, con. IV, Rainham to. Completed October 9, 1935. Producing gas well. Rock pressure: 385 lbs.

ck pressure: 385 lbs.	
Formation	Thickness,
Surface	14
Flint	85
Lime and shale	351
Niagara	240
Shale	55
Clinton	27
Red Medina	49
Grey shale	50
White Medina	10
Red shale	10
	
Total depth	891

Gas at 787 and 898 feet. Sulphur water at 78 feet.

L. P. MYTINGER

F. Nablo No. 2, lot 7, con. IV, Rainham tp. Completed November 8, 1935. Producing gas well. Rock pressure: 365 lbs.

ck pressure: 505 lbs.	
Formation	Thickness,
Surface	17
Flint	85
Lime and shale	
NiagaraShale	240
Clinton	$\frac{58}{26}$
Red Medina	47
Grey shale	55
White Medina	10
Red shale	5
Total depth	896

Gas at 763 and 797 feet. Sulphur water at 68 feet.

L. P. MYTINGER

F. Nablo No. 3, lot 7, con. IV, Rainham tp. Completed December 24, 1935. Producing gas well. Rock pressure: 360 lbs.

Formation	Thickness,
Surface	
Flint	90
Lime and shale	352
Niagara	240
Shale	57
Clinton	
Red Medina	
Grey shale	53
White Medina	10
Red shale	5

Total depth..... Gas at 773, 781, and 809 feet. Sulphur water at 61 feet.

W. C. PATTERSON

G. Bier No. 2, lot 1, con. VII, Rainham tp. Completed December 3, 1935. Dry hole.

,	Thickness.
Formation	ft.
Surface	 18
Flint	 67
Shale and lime	 339
Niagara	 262
Shale	 49
Clinton	 25
Red Medina	
Grey shale	 58
White Medina	
Red shale	 1

Total depth..... 870 Fresh water at 33 feet; sulphur water at 425 feet.

W. C. PATTERSON

P. Bier No. 2, lot 2, con. VI, Rainham tp. Completed September 20, 1935. Dry hole. ----

	Thickness.
Formation	ft.
Surface	27
Flint	
Lime and shale	360
Niagara	264
Shale	47
Clinton	. 28
Red Medina	39
Shale	54
White Medina	16
Red shale	1
Total depth	893

Fresh water at 50 feet; sulphur water at 472 feet.

W. C. PATTERSON		
G. Fess No. 1, lot 3, con. VI, Ra	iinham tp.	
Completed March 7, 1935. Producing gas well. Rock pressure: 450 lbs.	Thick	

	I IIICKIICSS,
Formation	ft.
Surface	
Flint	
Lime and shale	356
Niagara	262
Shale	
Clinton	
Red Medina	
Grev shale	56
White Medina	
Red shale	3

Total depth...... 881 Fresh water at 40 feet; sulphur water at 440 feet.

W. C. PATTERSON

G. Fess No. 2, lot 3, con. VI, Rainham tp. Completed April 12, 1935. Producing gas well. Rock pressure: 400 lbs.

•	Thicknes
Formation	ft.
Surface	11
Flint	60
Lime and shale	369
Niagara	260
Shale	
Clinton	
Red Medina	
Grev shale	
White Medina	
Red shale	

Fresh water at 36 feet; sulphur water at 437 feet.

W. C. PATTERSON

G. Fess No. 3, Lot 3, con. VI, Rainham tp. Completed May 1, 1935. Dry hole.

noie.	Thickness,
Formation	ft.
Surface	
Flint	58
Lime and shale	366
Niagara	259
Shale	40
Clinton	27
Red Medina	35
Grev shale	56
White Medina	
Red shale	1
Total depth	872

Fresh water at 35 feet; sulphur water at 420 feet.

W. C. PATTERSON

W. Reicheld No. 1, lot 3, con. VI, Rainham tp. Completed June 12, 1935. Producing gas well. Rock pressure: 440 lbs.

•	Thickness,
Formation	ft.
Surface	23
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Grev shale	
White Medina	2.1
Red shale	- 2
Red shale	

Total depth..... 883

m. . .

Fresh water at 40 feet; sulphur water at 432 feet.

W. C. PATTERSON

W. Reicheld No. 2, lot 3, N. 1/2, con. VI, Rainham tp. Completed August 7, 1935. Producing gas well. Rock pressure: 450 lbs. ----

	Thickness.
Formation	ft.
Surface	
Flint	62
Lime and shale	357
Niagara	261
Shale	
Clinton	
Red Medina	
Grey shale	53
White Medina	15
Red shale	2

Gas at 776, 781, and 788 feet. Fresh water at 47 feet; sulphur water at 463 feet.

W. C. PATTERSON

W. Reicheld No. 3, lot 3, con. VI, Rainham tp. Completed August 29, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	12
Flint	72
Lime and shale	359
Niagara	
Shale	50
Clinton	
Red Medina	
Shale	
White Medina	15
Red shale	

Total depth...... 898 Fresh water at 55 feet; sulphur water at 470 feet.

W. C. PATTERSON

A. Riddell No. 1, lot 3, con. VII, Rainham tp. Completed November 1, 1935. Dry hole.

•		Thickness,
	Formation	ft.
	Surface	31
	Flint	
	Shale and lime	
	Niagara	260
	Shale	
	Clinton	
	Red Medina	
	Grey shale	
	White Medina	14
	Red shale	2

Total depth.... Fresh water at 37 feet; sulphur water at 430 feet.

W. C. PATTERSON

G. Roth No. 1, lot 4, con. VII, Rainham tp. Completed January 12, 1935. Producing gas well. Rock pressure: 450 lbs.

	Thickness
Formation	ft.
Surface	. 19
Flint	. 65
Lime and shale	. 360
Niagara	
Shale	. 40
Clinton	. 24
Red Medina	
Grev shale	
White Medina	
Red shale	. 1

Total depth..... 869 Fresh water at 40 feet; sulphur water at 430 feet.

11/	\sim	D	ATTERSON	

E. Schier No. 1, lot 4, con. VII, Rainham tp. Completed January 31, 1935. Dry hole.

	Thickness
Formation .	ft.
Surface	16
Flint	67
Lime and shale	347
Niagara	260
Shale	40
Clinton	28
Red Medina	
Grey shale	
White Medina	15
Red shale	2
Total denth	757

Fresh water at 35 feet; sulphur water at 425 feet.

W. C. PATTERSON

S. Schumaker No. 1, lot 5, S.E. ½, con. VI, Rainham tp.

Completed January 24, 1935. Dry hole.

Sulphur water at 75 feet.

,	Thickness.
Formation .	ft.
Surface	10
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
White Medina	
Red shale	5
Total depth	892

W. C. PATTERSON

G. Winger No. 1, lot 8, con. VI, Rainham tp. Completed July 17, 1935. Producing gas well. Rock pressure: 410 lbs.

	Thickness.
Formation	ft.
Surface	
Flint	
Shale and lime	
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
White Medina	
Red shale	32
Total depth	907
Gas at 749, 754, and 870 feet.	

CENTRAL SENECA GAS SYNDICATE

J. Hanson No. 6, lot 18, con. IV, E.S.C.R., Seneca tp.
Completed January 15, 1935.
Producing gas well.
Rock pressure: 100 lbs.
Thickness

	T BICKHESS.
Formation	ft,
Surface	79
Lime and shale	70
Niagara	215
Rochester shale	
Clinton	
Red Medina sand	21
Red Medina shale	18
Grey shale	
White Medina	10
Red shale	37
-	

Total depth..... 573

Gas at 429 and 530 feet. Fresh water at 83 feet. CENTRAL SENECA GAS SYNDICATE
E. Harrison No. 3, lot 19, N. ½, con. IV, E.S.C.R.,
Seneca tp.

Completed January 30, 1935. Producing gas well. Rock pressure: 90 lbs.

	Thickness.
Formation	ft.
Surface	
Lime and shale	81
Niagara	216
Rochester shale	45
Clinton	22
Red Medina	19
Red shale	20
Grey shale	55
White Medina	9
Red shale	49
Total depth	591

Gas at 541 feet. Fresh water at 78 feet.

CENTRAL SENECA GAS SYNDICATE
F. Harrison No. 1, lot 16, N. ½, con. IV, E.S.C.R.,
Seneca tp.

Completed February 27, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	
Lime and shale	75
Niagara	221
Rochester shale	
Clinton	24
Red Medina sand	
Red Medina shale	
Grey shale	61
White Medina	
Red shale	23
Total denth	550

Show of gas at 399 and 522 feet. Fresh water at 72 feet.

DOMESTIC NATURAL GAS SYNDICATE
W. J. Cummings No. 3, lot 16, con. IV, Seneca tp.
Completed July 18, 1935.
Producing gas well.
Rock pressure: 110 lbs.

	Thickness.
Formation	ft.
Surface	
Lime and shale	. 80
Niagara	. 232
Shale	. 48
Clinton	
Red Medina	
Blue shale	
White Medina	
Red shale	. 55
	
Total depth	626

Gas at 440 and 564 feet. Fresh water at 60 feet.

Domestic Natural Gas Syndicate
R. Edwards No. 2, lot 15, con. III, Seneca tp.
pmpleted August 6, 1935.

Completed August 6, 1935. Producing gas well. Rock pressure: 110 lbs.

	Thickness.
Formation .	ft.
Surface	
Lime and shale	 80
Niagara	 232
Shale	 54
Clinton	 30
Blue shale	 65
White Medina	 14
Total depth	

Gas at 580 feet. Fresh water at 79 feet. DOMESTIC NATURAL GAS SYNDICATE
R. Kerr No. 3, lots 18 and 19, con. IV, Seneca tp.
Completed February 1, 1935.
Producing gas well.
Rock pressure: 210 lbs.

	Thickness
Formation	ft.
Surface	67
Lime and gypsum	70
Niagara	
Shale	
Clinton	26
Red Medina	38
Blue shale	70
White Medina	14
Red shale	
rea saute	

DOMESTIC NATURAL GAS SYNDICATE
R. Kerr No. 4, lots 18 and 19, con. IV, Seneca tp.
Completed March 4, 1935.
Producing gas well.
Rock pressure: 210 lbs.

	I HICKHESS,
Formation	ft.
Surface	78
Lime and gypsum	67
Niagara lime	
Shale	
Clinton	26
Red Medina	
Blue shale	
White Medina	
Red shale	
acca squite	
Total depth	618

Gas at 430 and 559 feet. Fresh water at 79 feet; black water at 315 feet.

DOMESTIC NATURAL GAS SYNDICATE
R. Kerr No. 5, lots 18 and 19, con. IV, Seneca tp.
Completed April 1, 1935.
Producing gas well.
Rock pressure: 210 lbs.

	•	Thickness.
Formation		ft.
Surface		79
Lime and gypsum		67
Niagara lime	<i>.</i> .	240
Shale		
Clinton		
Red Medina		. 30
Blue shale		75
White Medina		15
Red shale		
Total depth		627

Gas at 448 and 571 feet. Fresh water at 81 feet; sulphur water at 220 feet.

DOMESTIC NATURAL GAS SYNDICATE
R. Kerr No. 6, lots 18 and 19, con. IV, Seneca tp.
Completed April 23, 1935.
Producing gas well.
Rock pressure: 200 lbs.

•	Thickness,
Formation	ft.
Surface	
Lime and gypsum	68
Niagara lime	239
Shale	
Clinton	28
Red Medina	
Blue shale	
White Medina	16
Red shale	55
Total depth	624
Gas at 441 and 563 feet. Fresh water at 93 feet; sulphur water at	225 feet.

DOMESTIC NATURAL GAS SYNDICATE R. Kerr No. 7, lots 18 and 19, con. IV, Seneca tp. Completed August 27, 1935. Dry hole.

	Thickness.
Formation .	ft.
Surface	
Lime and gypsum	77
Niagara lime	250
Shale	
Clinton	32
Red Medina	
Blue shale	
White Medina	14
Red shale	5
•	
Total depth	584

Fresh water at 52 feet; sulphur water at 210 feet.

DOMESTIC NATURAL GAS SYNDICATE

R. Kerr No. 8, lots 18 and 19, con. IV, Seneca tp.

Completed September 24, 1935. Dry hole.

	Thickness,
Formation	ft.
Surface	
Lime and gypsum	77
Niagara	
Shale	
Clinton	30
Red Medina	
Blue shale	65
White Medina	12
Red shale	7
Total depth	590

Fresh water at 52 feet.

DOMESTIC NATURAL GAS SYNDICATE
H. Parker No. 1, Lot 15, S. ½, con. IV, Seneca tp.
Completed May 22, 1935.
Dry hole.

	Thickness,
Formation	ft.
Surface	60
Lime and shale	80
Niagara	
Shale	
Clinton	20
Red Medina	
Blue shale	
White Medina	14
Red shale	
Actual Distriction of the Control of	

DOMESTIC NATURAL GAS SYNDICATE

H. Parker No. 2, lot 15, S. ½, con. IV, Seneca tp.
Completed June 26, 1935.
Dry hole.

	I DICKHESS,
Formation	ft.
Surface	
Lime and shale	74
Niagara	238
Shale	
Clinton	28
Red Medina	38
Blue shale	78
White Medina	
Red shale	
Total depth	578

Fresh water at 57 feet; sulphur water at 260 feet.

Domestic Natural Gas Syndic	CATE
W. Tomlinson No. 1, lot 13, con. IV,	Seneca tp.
Completed July 13, 1935. Producing gas well. Rock pressure: 110 lbs.	
Rock pressure: 110 lbs.	Thicknes
Formation	ft.

Formation	ft.
Surface	
Lime and shale	
Niagara	214
Shale	47
Clinton	29
Red Medina	
Blue shale	
White Medina	
Red shale	55
Total depth	608

Gas at 421, 443, and 451 feet. Fresh water at 63 feet.

DOMESTIC NATURAL GAS SYNDICATE W. Tomlinson No. 2, lot 13, con. IV, Seneca tp. Completed August 5, 1935. Dry hole.

	Thickness,
Formation	ft.
Surface	 60
Lime and shale	 83 '
Niagara	 220
Shale	
Clinton	
Red Medina	
Blue shale	
White Medina	 14
	~~~
Total depth	551

Fresh water at 68 feet; sulphur water at 290 feet.

NATIONAL GAS SYNDICATE

M. Shaw No. 2, lot 14, con. III, Seneca tp. Completed January 22, 1935. Producing gas well. Rock pressure: 125 lbs.

	Thickness.
Formation	ft.
Surface	76
Lime and shale	104
Niagara	230
Shale	
Clinton	25
Red Medina	38
Grey shale	48
White Medina	17
Red shale	

Gas at 493, 515, and 580 feet. Fresh water at 80 feet.

NATIONAL GAS SYNDICATE T. Singer No. 2, lot 16, S. 1/2, con. II, Seneca tp. Completed February 15, 1936. Producing gas well. Rock pressure: 125 lbs.

	Thickness.
Formation	ft.
Surface	90
Lime and shale	89
Niagara	228
Shale	48
Clinton	
Red Medina	
Grey shale	
White Medina	
Red shale	34

Gas at 470 and 590 feet. Fresh water at 94 feet.

YORK NATURAL GAS SYNDICATE H. J. and E. A. Hannah No. 1, lot 1, Young tract, Seneca tp.

Completed May 14, 1935. Dry hole.

y noie.	Thickness.
Formation	ft.
Surface	
Lime and shale	95
Niagara	250
Shale	50
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	3
AT. 1 1 11	
Total depth	025

Show of gas at 505 feet. Fresh water at 100 feet.

YORK NATURAL GAS SYNDICATE R. Warring No. 1, lot 1, Young tract, Seneca tp. Completed March 30, 1935. Producing gas well. Rock pressure: 135 lbs.

		Thickness.
Formation		ft.
Surface		94
Brown lime		96
Niagara		
Shale		50
Clinton		
Red Medina		
Shale	٠.	60
White Medina		15
Red shale	٠.	32
Total depth		658

Gas at 498 to 502, and 542 to 616 feet. Fresh water at 100 feet.

YORK NATURAL GAS SYNDICATE R. Warring No. 2, lot 1, Young tract, Seneca tp. Completed April 10, 1935. Producing gas well. Rock pressure: '240 lbs.

Formation		Thickness,
Surface		85
Brown lime		105
Niagara		250
Shale		50
Clinton		25
Red Medina		35
Shale		60
White Medina		15
Red shale		36
	-	

Gas at 505 to 515 and 615 to 625 feet. Fresh water at 100 feet.

YORK NATURAL GAS SYNDICATE R. Warring No. 3, lot 1, Young tract, Seneca tp.

Completed April 26, 1935. Dry hole.

,		Thickness
Formation		ft.
Surface		
Lime and shale		97
Niagara	٠.	250
Shale		
Clinton		25
Red Medina		
Shale		55
White Medina		
Red shale	٠.	5
Total denth	-	625

Show of gas at 520 feet. Fresh water at 100 feet.

Total depth.....

Gas at 821 and 827 feet. Fresh water at 45 feet.

1936	Natural (Gas in 1935	51
CANFIELD GAS SYNDICATE		Broadway Gas Syndicate	
J. Fradenburgh No. 1, Fradenburgh	tract	C. Bacher No. 3, lot 20, N. ½, con. VI, V	Walasia ta
South Cayuga tp.	tract,		waipoie tp.
Completed January 12, 1935.		Completed November 14, 1935. Producing gas well.	
Dry hole.		Rock pressure: 400 lbs.	
	Thickness,	Formation	Thickness
Formation Surface	ft. 48	Surface	ft. 25
Lime and shale	259	Flint	110
Niagara	225	Lime and shale	340
Shale	56 27	Niagara	268
Clinton	40	Rochester shale Clinton	38 28
Grey shale	53	Red Medina	22
White Medina	16	Red shale	14
Red shale	5	Grey shale	57 8
Total depth	729	Red shale	î
resh water at 49 feet; salt water at 400	feet.	-	
icsi water at 10 feet, sait water at 100		Total depth	911
		Gas at 811, 817, and 825 feet.	
Dufferin Oil and Gas Syndica	TE	Fresh water at 70 feet.	
W. Wilson No. 1, lot 28, S. 1/2, con	. IV,	BROADWAY GAS SYNDICATE	
South Cayuga tp.		G. Bartlett No. 1, lot 19, S. ½ of N. ½,	con VI
ompleted August 30, 1935.	7	Walpole tp.	, COB. V1,
ry hole.	Thickness	Completed January 15, 1935.	
Formation	Thickness, ft.	Producing gas well.	
Surface	14	Rock pressure: 450 lbs.	
Lime and shale	397	Formation	Thickness
Niagara	201	Surface	ft. 13
White lime	16 69	Flint	107
Clinton	30	Lime and shale	343
Red Medina	36	Niagara	257 66
Shale	60	Rochester shale	28
White Medina	18 4	Red Medina sand	25
Red Shale		Red Medina shale	17
Total depth	845	Grey shale	54 12
ulphur water at 65 feet.		Red shale	4
		•	
		Total depth	926
RIVER VALLEY NATURAL GAS SYND	ICATE	Gas at 801 and 826 feet.	
W. Pridmore No. 1, lot 22, con. 1	IV,	Fresh water at 65 feet.	
South Cayuga tp.		BROADWAY GAS SYNDICATE	_
ompleted March 2, 1935.		G. Bartlett No. 2, lot 19, S. 1/2 of N. 1/2,	con. VI,
roducing gas well. lock pressure: 165 lbs.		Walpole tp.	
ock pressure. 200 issi	Thickness,	Completed September 30, 1935.	
Formation	ft.	Producing gas well.	
Surface	19 19	Rock pressure: 405 lbs.	Thickness
FlintLime and shale	315	Formation	ft.
Niagara	277	Surface	25
Shale and lime	51	Flint	105
Shale	22	Lime and shale Niagara	350 271
Clinton	32 37	Rochester shale	37
Blue shale	59	Clinton	27
White Medina	11	Red Medina	43
Pocket	2	Grey shale	$\frac{52}{12}$
Total depth	844	Red shale	3
as at 733 feet.	011	-	
resh water at 92 feet.		Total depth	925
		Gas at 806, 821, 827, and 833 feet.	
		Fresh water at 60 feet.	
BEACON NATURAL GAS SYNDICA	TE	BROADWAY GAS SYNDICATE	
		BROADWAY GAS SYNDICATE G. Bartlett No. 3 lot 19 S 1/6 of N 1/6	con VI
Beacon Natural Gas Syndica' H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp.		G. Bartlett No. 3, lot 19, S. 1/2 of N. 1/2,	, con. VI,
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp.		G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp.	, con. VI,
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. ompleted April 30, 1935. roducing gas well.		G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well.	, con. VI,
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. ompleted April 30, 1935. roducing gas well.	n. III,	G. Bartlett No. 3, lot 19, S. ½ of N. ½. Walpole tp. Completed October 22, 1935.	
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. ompleted April 30, 1935. roducing gas well. ock pressure: 420 lbs.	n. III, Thickness,	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs.	Thickness
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. completed April 30, 1935. roducing gas well.	n. III,	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well.	
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. ompleted April 30, 1935. roducing gas well. ock pressure: 420 lbs. Formation Surface	Thickness, ft. 47 148	G. Bartlett No. 3, lot 19, S. ½ of N. ½. Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation	Thickness ft.
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. completed April 30, 1935. roducing gas well. ock pressure: 420 lbs. Formation Surface. Flint. Lime and shale.	Thickness, ft. 47 148 370	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface. Flint Lime and shale	Thickness ft. 26 110 344
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. completed April 30, 1935. roducing gas well. ock pressure: 420 lbs. Formation Surface. Flint. Lime and shale. Niagara limestone.	n. III, Thickness, ft. 47 148 370 270	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface. Flint Lime and shale. Niagara.	Thickness ft. 26 110 344 271
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. completed April 30, 1935. roducing gas well. cock pressure: 420 lbs. Formation Surface Flint Lime and shale Niagara limestone Shale	n. III, Thickness, ft. 47 148 370 270 42	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface	Thickness, ft. 26 110 344 271 36
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. completed April 30, 1935. roducing gas well. ock pressure: 420 lbs. Formation Surface. Flint. Lime and shale. Niagara limestone.	n. III, Thickness, ft. 47 148 370 270	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface. Flint Lime and shale. Niagara.	Thickness, ft. 26 110 344 271
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. Completed April 30, 1935. Producing gas well. Rock pressure: 420 lbs. Formation Surface. Flint. Lime and shale. Niagara limestone. Shale. Clinton. Red Medina. Grey shale.	Thickness, ft. 47 148 370 270 42 27 46 55	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface Flint Lime and shale Niagara. Rochester shale Clinton. Red Medina Grey shale.	Thickness, ft. 26 110 344 271 36 28 44 56
H. Butcher No. 2, lot 2, S.W. ¼, co. Walpole tp. Completed April 30, 1935. Producing gas well. Cock pressure: 420 lbs. Formation Surface. Flint. Lime and shale. Niagara limestone. Shale. Clinton. Red Medina.	Thickness, ft. 47 148 370 270 42 27 46	G. Bartlett No. 3, lot 19, S. ½ of N. ½, Walpole tp. Completed October 22, 1935. Producing gas well. Rock pressure: 410 lbs. Formation Surface Flint Lime and shale Niagara. Rochester shale. Clinton Red Medina.	Thickness, ft. 26 110 344 271 36 28

Gas at 913 and 1,013 feet. Black water at 195 feet.

		,	ORTHI	GAS	O.X	NDIC.	V LR		
C.	Buck	No.	1, lot	6, S.	⅓,	con.	IV,	Walpole	tp.
Con	pleted	June	4 , 19	35.					
Drv	hole.								

	Thickness,
Formation	ft.
Surface	23
Flint	127
Lime and shale	370
Niagara	285
Rochester shale	40
Clinton	
Red Medina sand	26
Red Medina shale	
Grey shale	
White Medina	12
Red shale	3
Total depth	981
all mater at 110 feet	

Fresh water at 110 feet.

DELHI GAS SYNDICATE W. Craddock No. 1, lot 5, S.E. 1/4, con. IV, Walpole tp.

Completed February 18, 1935. Producing gas well. Rock pressure: 485 lbs.

ock pressure: 485 lbs.	
	Thickness,
Formation	ft.
Surface	3 3
Flint	132
Lime and shale	380
Niagara	210
White lime	66
Rochester shale	
Clinton	=1
Red Medina	
	2.7
Grey shale	
White Medina	14
Total depth	990
anat 800 feet	

Gas at 890 feet. Fresh water at 100 feet.

DELHI GAS SYNDICATE ' W. Craddock No. 2, lot 5, S.E. 1/4, con. IV, Walpole tp.

Completed February 26, 1935. Dry hole.

	I mckness.
Formation •	ft.
Surface	
Flint	
Lime and shale	
Niagara	
Rochester shale	
Clinton	
Red Medina sand	
Red Medina shale	
Grev shale	
White Medina	
Red shale	4

Total depth..... 1,003 Fresh water at 50 and 150 feet.

DELHI GAS SYNDICATE W. Craddock No. 3, lot 5, S.E. ¼, con. IV, Walpole tp.

Completed March 18, 1935. Producing gas well. Rock pressure: 465 lbs.

•	Thickness,
Formation	ft.
Surface	. 34
Flint	131
Lime and shale	
Niagara	210
White lime	
Rochester shale	
Clinton	
Red Medina sand	
Grey shale	
White Medina	. 14

Total depth.... Gas at 896 and 941 feet. Fresh water at 110 feet.

DELHI GAS SYNDICATE

W. Doughty No. 1, lot 7, N.E. 1/4 of N. 1/2, con. IV, Walpole tp.

Completed April 25, 1935. Dry hole.

	Thickness,
Formation	ft.
Surface	46
Flint	94
Lime and shale	375
Niagara	266
Rochester shale	54
Clinton	
Red Medina sand	
Red Medina shale	
Grey shale	79
White Medina	
Red shale	4
Total depth	977

Fresh water at 60 feet.

DOMESTIC NATURAL GAS SYNDICATE T. McNeill No. 1, lot 5, con. VII, Walpole tp. Completed July 16, 1935. Producing gas well. Rock pressure: 375 lbs.

•	•	Thickness,
Formation		ft.
Surface		19
Flint		93
Lime and shale		379
Niagara		256
Shale		53
Clinton		32
Red Medina		45
Grey shale		43
White Medina		13
Red shale		37
Total depth		970
s at 810, 856, and 920 feet.		
esh water at 30 feet; sulphur water at	t 8	0 feet.

DOMESTIC NATURAL GAS SYNDICATE No. 2 Wm. Sanders No. 1, lot 5, con. VII, Walpole tp. Completed August 19, 1935. Producing gas well. Rock pressure: 375 lbs.

	Thickness.
Formation	ft.
Surface	20
Flint	74
Lime and shale	381
Niagara	285
Shale	
Clinton	30
Red Medina	46
Grey shale	50
White Medina	
Red shale	
Total depth	955

Gas at 869 feet. Fresh water at 125 feet; sulphur water at 400 feet. Domestic Natural Gas Syndicate No. 2 Wm. Sanders No. 2, lot 5, con. VII, Walpole tp.

Completed November 30, 1935. Producing gas well. Rock pressure: 370 lbs.

Thick ness. Formation
Surface.
Flint
White sand
Lime and shale.
Niagara.
Shale.
Clinton ft. 10 74 15 391 291 36 30 47 Snaie
Clinton
Red Medina
Grey shale
White Medina
Red shale 46 12 50

Gas at 870 feet. Oil at 945 feet. Fresh water at 50 feet; sulphur water at 420 feet.

GASFINDERS GAS COMPANY
C. Devine No. 1, lot 13, con. VIII, Walpole tp.
Completed February 16, 1935.
Dry hole.

	I hickness
Formation	ft.
Surface	11
Flint	
White sand	15
Lime and shale	369
Niagara	255
Guelph lime	20
Shale	51
Clinton	32
Red Medina	33
Shale	50
White Medina	12
Red shale	7
Total depth	917
Black water at 90 feet.	
Diaca mater at 00 rect.	

Kelly Gas Syndicate
G. Schweyer No. 1, lot 20, S.E. ½, con. V,
Walpole tp.

Completed October 10, 1935, Producing gas well. Rock pressure: 390 lbs.

| Thickness, | Thickness, | ft. | Surface | 23 | Flint | 104 | Lime and shale | 375 | Niagara | 242 | Rochester shale | 23 | Red Medina | 28 | Red shale | 27 | Grey shale | 58 | White Medina | 9 | Red shale | 1 | Total depth | 937 |

Gas at 850 feet. Fresh water at 59 feet.

KELLY GAS SYNDICATE
G. Schweyer No. 2, lot 20, S.E. ¼, con. V,
Walpole tp.

Completed November 7, 1935. Producing gas well. Rock pressure: 380 lbs.

ck pressure. 500 ibs.	Thistones.
75 41	Thickness,
Formation	ft.
Surface	
Flint	 104
Lime and shale	 385
Niagara	 250
Rochester shale	
Clinton	
Red Medina	
Red shale	
Grey shale	
White Medina	
Red shale	
m	
Total depth	 949

Gas at 853 feet. Fresh water at 60 feet. KELLY GAS SYNDICATE
M. Wilkins No. 2, lot 21, N. ½, con. VI,
Walpole tp.

Completed May 14, 1936. Producing gas well. Rock pressure: 430 lbs.

ck pressure: 430 lbs.	
-	Thickness,
Formation	ft.
Surface	
Flint	98
Lime and shale	350
Niagara	262
Rochester shale	57
Clinton	24
Red Medina	35
Red shale	10
Grey shale	52
White Medina	12
Red shale	
Total depth	915

Gas at 811, 818, and 828 feet. Fresh water at 59 feet.

KELLY GAS SYNDICATE

M. Wilkins No. 3, lot 21, N. ½, con. VI,
Walpole tp.

Completed June 11, 1935. Producing gas well. Rock pressure: 445 lbs.

•	Thicknes
Formation	ft.
Surface	
Flint	104
Lime and shale	346
Niagara	255
Rochester shale	
Clinton	
Red Medina	
Red shale	9
Grey shale	
White Medina	9
Red shale	3
Total depth	924

Gas at 786, 822, and 829 feet. Fresh water at 75 feet.

Kelly Gas Syndicate
M. Wilkins No. 4, lot 21, N. ½, con. VI,
Walpole tp.

Completed July 3, 1935. Producing gas well. Rock pressure: 460 lbs.

	Thickness,
Formation	ft.
Surface	18
Flint	96
Lime and shale	347
Niagara	258
Rochester shale	56
Clinton	32
Red Medina	29
Red shale	
Grey shale	56
White Medina	
Red shale	
Total depth	915

Gas at 793 feet. Fresh water at 38 feet.

	Y 77
Kelly Gas Syndicate	LADD AND KNIGHT
M. Wilkins No. 5, lot 21, N. ½, con. VI, Walpole tp.	G. Dossar No. 1, lot 6, W. ½, con. VIII, Walpole tp.
Completed July 26, 1935.	Completed October 17, 1935. Producing gas well.
Producing gas well.	Rock pressure: 455 lbs.
Rock pressure: 415 lbs.	Thickness,
Thickness, Formation ft.	Formation ft. Surface
Formation ft. Surface	Surface
Flint 97	Lime and shale
Lime and shale	Niagara
Niagara 260 Rochester shale 57	Shale 52 Clinton 24
Clinton	Red Medina44
Red Medina	Grey shale 55
Red shale 17 Grey shale 60	White Medina
White Medina 4	
Red shale	Total depth
Total depth 926	Gas at 818, 935, and 942 feet.
Gas at 810 feet.	Fresh water at 62 feet.
Fresh water at 83 feet.	
TT 0 0	LADD AND KNIGHT
Kelly Gas Syndicate	J. Wodham No. 1, lot 5, S.W. ¼, con. VIII,
M. Wilkins No. 6, lot 21, N. ½, con. VI, Walpole tp.	Walpole tp.
Completed August 17, 1935.	Completed September 7, 1935. Producing gas well.
Producing gas well.	Rock pressure: 455 lbs.
Rock pressure: 400 lbs.	Thickness,
Thickness, Formation ft.	Formation ft. Surface
Surface	Flint
Flint	Lime and shale
Lime and shale	Niagara
Rochester shale	Clinton
Clinton	Red Medina
Red Medina	Grey shale
Grey shale	Red shale
White Medina	
Red shale	Total dependence
Total depth907	Gas at 860 and 935 feet. Fresh water at 45 feet.
Gas at 794 and 820 feet.	
T1 1	
Fresh water at 22 feet.	The same with th
Fresh water at 22 feet. LADD AND KNIGHT	Lymburner Bros. and Webber
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ½, con. VIII,	A. Dennis No. 2, lot 24, con. IV, Walpole tp.
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. 1/4, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935.
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp. Completed December 24, 1935.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs.
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Thickness,
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs. Thickness,	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs. Formation Thickness, ft.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Thickness, Formation Surface
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs. Thickness, Formation ft. Surface	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Thickness, ft. Surface
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs. Formation ft. Surface	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp. Completed December 24, 1935. Producing gas well. Rock pressure: 320 lbs. Thickness, Formation ft. Surface	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface. 7 Flint. 135 Lime and shale. 355 Niagara. 251 Shale. 59 Clinton. 27 Red Medina. 41
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale 355 Niagara. 251 Shale. 59 Clinton 27 Red Medina 41 Shale. 60 White Medina 10
Ladd And Knight W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27 Red Medina 41 Shale 60
Ladd And Knight W. Addison No. 1, lot 16, S.E. 1/4, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27 Red Medina 41 Shale 60 White Medina 10 Red shale 50
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27 Red Medina 41 Shale 60 White Medina 10 Red shale 50 Total depth 995
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27 Red Medina 41 Shale 60 White Medina 10 Red shale 50
Ladd And Knight W. Addison No. 1, lot 16, S.E. 1/4, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale. 355 Niagara. 251 Shale. 59 Clinton. 27 Red Medina. 41 Shale. 60 White Medina. 10 Red shale. 50 Total depth. 995 Gas at 900 and 951 feet.
Ladd And Knight W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint 135 Lime and shale 355 Niagara 251 Shale 59 Clinton 27 Red Medina 41 Shale 60 White Medina 10 Red shale 550 Total depth 995 Gas at 900 and 951 feet. Fresh water at 60 feet.
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd And Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface
LADD AND KNIGHT W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale. 355 Niagara. 251 Shale. 59 Clinton. 27 Red Medina 41 Shale. 60 White Medina 10 Red shale. 50 Total depth. 995 Gas at 900 and 951 feet. Fresh water at 60 feet. Lymburner Bros. and Webber C. Gee No. 3, lot 24, con. IV, Walpole tp. Completed June 5, 1935. Producing gas well. Rock pressure: 405 lbs.
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale. 355 Niagara. 251 Shale. 59 Clinton. 27 Red Medina. 41 Shale. 60 White Medina. 10 Red shale. 50 Total depth. 995 Gas at 900 and 951 feet. Fresh water at 60 feet. Lymburner Bros. and Webber C. Gee No. 3, lot 24, con. IV, Walpole tp. Completed June 5, 1935. Producing gas well. Rock pressure: 405 lbs. Thickness,
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface. 7 Flint. 135 Lime and shale. 355 Niagara. 251 Shale. 59 Clinton. 27 Red Medina. 41 Shale. 60 White Medina. 10 Red shale. 50 Total depth. 995 Gas at 900 and 951 feet. Fresh water at 60 feet. Lymburner Bros. and Webber C. Gee No. 3, lot 24, con. IV, Walpole tp. Completed June 5, 1935. Producing gas well. Rock pressure: 405 lbs. Formation ft. Thickness, ft. Surface. 7
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd And Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation ft. Surface 7 Flint. 135 Lime and shale. 355 Niagara 251 Shale. 59 Clinton 27 Red Medina 41 Shale. 60 White Medina 10 Red shale. 50 Total depth. 995 Gas at 900 and 951 feet. Fresh water at 60 feet. Lymburner Bros. and Webber C. Gee No. 3, lot 24, con. IV, Walpole tp. Completed June 5, 1935. Producing gas well. Rock pressure: 405 lbs. Formation ft. Surface 7 Flint. 126 Lime and shale 355 Niagara 253 Shale. 60 Clinton 26
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ¼, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface
Ladd and Knight W. Addison No. 1, lot 16, S.E. ½, con. VIII, Walpole tp.	A. Dennis No. 2, lot 24, con. IV, Walpole tp. Completed July 1, 1935. Producing gas well. Rock pressure: 365 lbs. Formation Surface

McCarter and Allen	
C. S. McCarter No. 1, lot 3, E. 1/2, con, VI	I.
Walpole tp.	•

Completed November 23, 1935. Producing gas well. Rock pressure: 365 lbs.

F	Thickness.
Formation	
Surface	12
Flint	93
Lime and shale	368
Niagara	
Rochester shale	20
Guelph lime	
Shale	45
Clinton	
Red Medina	
Grey shale	
White Medina	18
Red shale	
Total depth	1,042

Gas at 772, 809, and 936 feet. Fresh water at 75 feet; sulphur water at 425 feet.

MONARCH GAS SYNDICATE

F. P. House No. 4, lot 23, con. VI, Walpole tp. Completed January 14, 1935. Producing gas well. Rock pressure: 435 lbs.

• • • • • • • • • • • • • • • • • • • •	Thickness.
Formation	ft.
Surface	
Flint	
Lime and shale	351
Niagara	210
White lime	
Rochester shale	
Clinton	
Red Medina	
Grey shale	50
White Medina	12
Red shale	2
Total depth	892

Gas at 807 feet. Fresh water at 18 feet.

MONARCH GAS SYNDICATE

F. P. House No. 5, lot 23, con. VI, Walpole tp. Completed September 13, 1935. Producing gas well. Rock pressure: 485 lb

ck pressure: 485 lbs.	*** * *
	Thickness,
Formation	ft.
Surface	24
Flint	90
Lime and shale	353
Niagara	
Rochester shale	46
Clinton	
Red Medina	
Grey shale	55
White Medina	
Red shale	
_	

Total depth..... Gas at 793 feet. Fresh water at 575 feet.

OTTERVILLE NATURAL GAS SYNDICATE A. Evans No. 1, lot 4, con. I, Walpole tp. Completed March 2, 1935. Producing gas well. Rock pressure: 318 lbs.

•	Thickness
Formation	ft.
Surface	20
Flint	158
Shale	362
Niagara	273
Shale	
Clinton	27
Red Medina	55
Shale	56
White Medina	12
.,	

Gas at 878 and 905 feet. Fresh water at 60 feet; black water at 100 feet.

OTTERVILLE NATURAL GAS SYNDICATE A. B. Hoover No. 2, lot 5, con. I, Walpole tp. Completed January 21, 1935. Producing gas well. Rock pressure: 312 lbs.

	I nickness
Formation	ft.
Surface	
Flint	165
Lime, gypsum, and shale	340
Niagara lime	215
Shale	
Clinton	25
Red Medina	
Shale	66
White Medina	12
Red shale	9
Total depth	1,006

Gas at 864 and 894 feet.

Fresh water at 9 feet; black water at 78 feet; sulphur water at 585 feet.

OTTERVILLE NATURAL GAS SYNDICATE A. B. Hoover No. 3, lot 5, con. I, Walpole tp. Completed March 12, 1935. Producing gas well. Rock pressure: 335 lbs.

	i nickness,
Formation	ft.
Surface	18
Flint	138
Lime and shale	354
Niagara	
Shale	
Clinton	
Red Medina	
Shale	
White Medina	11
Red shale	
•	

Total depth..... 1,007 Gas at 921 and 995 feet. Fresh water at 14 feet; sulphur water at 63 feet; black water at 540 feet.

W. C. PATTERSON

H. Bradley No. 1, lot 10, con. V, Walpole tp. Completed August 12, 1935. Producing gas well. Rock pressure: 520 lbs.

	I mckness,
Formation	ft.
Surface	14
Flint	90
Lime and shale	376
Niagara	285
Shale	33
Clinton	30
Red Medina	40
Shale	57
White Medina	11
Red shale	
•	
Total depth	940

Fresh water at 80 feet; black water at 460 feet.

W. C. PATTERSON

H. Bradley No. 2, lot 10, con. V, Walpole tp. Completed October 4, 1935. Producing gas well. Rock pressure: 525 lbs.

k pressure. one ros.		Thickness
Formation		ft.
Surface		24
Flint		114
Lime and shale		
Niagara		
Shale		36
Clinton		
Red Medina		
Shale		
White Medina		
Red shale	٠.	40

Total depth..... 993 Gas at 850, 856, and 948 feet. Fresh water at 87 feet.

w	C	PATTERSON

H. Bradley No. 3, lot 10, con. V, Walpole tp. Completed December 6, 1935. Dry hole.

•	Thickness,
Formation	ft.
Surface	30
Flint	
Lime and shale	385
Niagara	274
Shale	37
Clinton	28
Red Medina	31
Shale	60
White Medina	
Shale	3
Total depth	958
Fresh water at 76 feet.	

W. C. PATTERSON

J. Carpenter No. 1, lot 3, con. IV, Walpole tp. Completed March 12, 1935. Producing gas well. Rock pressure: 350 lbs.

ck pressure. 300 lbs.	Thickness,
Formation	ft.
Surface	. 14
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
Total depth	926

Sulphur water at 70 feet.

W. C. PATTERSON

J. Carpenter No. 2, lot 3, E. ½, con. IV, Walpole tp. Completed June 15, 1935.
Dry hole.

	Thickness.
Formation	ft.
Surface	20
Flint	147
Lime and shale	391
Niagara	263
Shale	20
Clinton	
Red Medina	35
Shale	55
White Medina	
Red shale	
Total depth	983

Fresh water at 54 feet.

W. C. PATTERSON

A. Evans No. 1, lot 5, con. II, Walpole tp. Completed October 8, 1935. Dry hole.

Dry hole.	Thickness.
Formation	ft.
Surface	 7
Flint	 143
Lime and shale	 354
Niagara	 300
Shale	
Clinton	 27
Red Medina	
Shale	
White Medina	18
Red shale	 5
Total depth	 984
Fresh water at 41 feet.	

W. C. PATTERSON

P. Ionson No. 1, lot 10, con. VI, Walpole tp. Completed July 13, 1935. Producing gas well. Rock pressure: 415 lbs.

	Thickness.
Formation	ft.
Surface	
Flint	. 94
Lime and shale	. 375
Niagara	
Shale	
Clinton	. 28
Red Medina	
Shale	
White Medina	
Red shale	

W. C. PATTERSON

P. Ionson No. 2, lot 10, con. VI, Walpole tp. Completed September 7, 1935. Producing gas well. Rock pressure: 475 lbs.

,	Thickness.
Formation	ft.
Surface	20
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Shale	
White Medina	
Red shale	51

W. C. PATTERSON

B. Kindry No. 2, lot 6, con. III, Walpole tp. Completed June 19, 1935. Producing gas well. Rock pressure: 350 lbs.

ness	Thicks																		_
	ft.													oп	atio	۲m	Fo:	1	
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Total depth..... 995

Sulphur water at 90 feet.

W. C. PATTERSON

B. Kindry No. 3, lot 6, con. III, Walpole tp. Completed August 1, 1935. Producing gas well. Rock pressure: 300 lbs.

	Thickness
Formation	ft.
Surface	. 8
Flint	. 142
Lime and shale	. 350
Niagara	. 300
Shale	
Clinton	
Red Medina	
Shale	. 60
White Medina	. 11
Red shale	. 5
Total depth	. 983

Black water at 80 feet.

W. C. PATTERSON

B. Kindry No. 4, lot 6, con. III, Walpole tp. Completed August 31, 1935. Producing gas well. Rock pressure: 325 lbs.

Formation	Thickness,
Surface	6
Flint	142
Lime and shale	352
Niagara	300
Shale	50
Clinton	27
Red Medina	35
Shale	
White Medina	
Red shale	

Black water at 80 and 490 feet.

W. C. PATTERSON

E. Mackey No. 1, lot 21, con. IV, Walpole tp. Completed January 24, 1935. Producing gas well. Rock pressure: 275 lbs.

ck pressure: 275 lbs.	751.1.1
Formation	Thickness,
Surface	10
Flint	120
Brown lime	398
Niagara	250
Shale	40
Clinton	
Red MedinaShale	60
White Medina	
Red shale	
Total depth	966

Fresh water at 80 feet; black water at 528 feet.

W. C. PATTERSON

E. Mackey No. 2, lot 21, con. IV, Walpole tp. Completed December 7, 1935. Producing gas well. Rock pressure: 275 lbs.

	I nickness,
Formation	ft.
Surface	12
Flint	138
Lime and shale	360
Niagara	272
Shale	40
Clinton	27
Red Medina	
Shale	60
White Medina	
Red shale	
Total depth	965

Black water at 90 feet.

W. C. PATTERSON

E. Miller No. 1, lot 2, con. IV, Walpole tp. Completed May 10, 1935. Producing gas well. Rock pressure: 320 lbs.

	Thickness.
Formation	ft.
Surface	32
Flint	152
Lime and shale	359
Niagara	290
Shale	
Clinton	26
Red Medina	28
Grey shale	74
White Medina	7
Red shale	

Total depth..... 996 Clear water at 55 feet.

W. C. PATTERSON

G. Saunders No. 1, lot 5, con. III, Walpole tp. Completed March 16, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	
Flint	
Lime and shale	
Niagara	287
Shale	
Clinton	
Red Medina	
Shale	
White Medina	16
Red shale	5
Total depth	995
Black water at 165 feet.	

W. C. PATTERSON

G. Saunders No. 2, lot 5, con. IV, Walpole tp. Completed May 2, 1935. Dry hole.

Thickness, Formation Formation
Surface.
Flint
Lime and shale
Niagara.
Shale
Clinton
Red Medina
Shale
White Medina
Red shale ft. 26 130 36 25 40 60 13 5

Total depth.... Fresh water at 60 feet; sulphur water at 156 feet.

FRED REICHELD

W. Hunt No. 1, lot 3, con. V, Walpole tp. Completed May 10, 1935. Producing gas well. Rock pressure: 435 lbs.

	Thickness.
Formation	ft.
Surface	20
Flint	160
Lime and shale	350
Niagara	
Shale	
Clinton	29
Red Medina	
Grev shale	
White Medina	
Red shale	
acca suaretti titti titt	
M-4-1-446	1 015

FRED REICHBLD

W. Hunt No. 2, lot 3, con. V, Walpole tp. Completed August 7, 1935. Producing gas well. Rock pressure: 485 lbs.

•	Thickness
Formation	ft.
Surface	
Flint	
Lime and shale	 343
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	
White Medina	
Red shale	 2
	~

Total depth..... 984 Gas at 844, 859, and 888 feet. Sulphur water at 140 feet.

FRED REICHELD

D. Parkinson No. 1, lot 4, con. V, Walpole tp. Completed August 22, 1935. Producing gas well.
Rock pressure: 500 lbs.

	Thickness,
Formation	ft.
Surface	29
Flint,	
Lime and shale	351
Niagara	268
Shale	40
Clinton	27
Red Medina	40
Grey shale	60
White Medina	12
Red shale	40

Gas at 850, 875, 881, and 986 feet. Fresh water at 65 feet.

FRED REICHELD

D. Parkinson No. 2, lot 4, con. V, Walpole tp. Completed July 2, 1935. Dry hole.

	Thickness.
Formation	ft.
Surface	31
Flint	
Lime and shale	
Niagara	262
Shale	
Clinton	
Red Medina	42
Shale	
White Medina	
Red shale	. 5

Total depth..... Sulphur water at 150 feet.

FRED REICHELD

F. Reicheld No. 4, lot 10, con. V, Walpole tp. Completed January 30, 1935. Dry hole.

y note.	Thickness.
Formation .	ft.
Surface	. 8
Flint	135
Lime and shale	342
Niagara	. 260
Shale	. 48
Clinton	. 28
Red Medina	. 40
Grey shale	. 60
White Medina	. 13
Red shale	. 3
M	
Total depth	. 937

FRED REICHELD

F. Reicheld No. 5, lot 10, con. IV, Walpole tp. Completed September 4, 1935. Producing gas well. Rock pressure: 505 lbs.

	Thickness,
Formation	ſt.
Surface	22
Flint	125
Lime and shale	343
Niagara	
Shale	57
Clinton	
Red Medina	
Grey shale	
White Medina	10
Red shale	50

Total depth..... Gas at 818, 831, and 943 feet. Fresh water at 42 feet.

FRED REICHELD

F. Saunders No. 1, lot 3, con. V, Walpole tp. Completed June 4, 1935. Dry hole.

	Thickness,
Formation	ft.
Surface	
Flint	
Lime and shale	350
Niagara	261
Shale	
Clinton	28
Red Medina	38
Grey shale	53
White Medina	
Red shale	
Total depth	971

Sulphur water at 85 feet.

SANDUSK GAS AND OIL SYNDICATE C. Doherty No. 1, lot 13, W. 1/2, con. VI, Walpole tp. Completed April 19, 1935. Dry hole.

,	Thickness.
Formation	ft.
Surface	26
Flint	140
Lime and shale	321
Niagara	270
Shale	
Clinton	27
Red Medina	
Grey shale	55
White Medina	14
Red shale	2
Total depth	948
Fresh water at 57 feet; black water at 70	feet.

SANDUSK GAS AND OIL SYNDICATE C. Doherty No. 2, lot 13, W. 1/2, con. VI, Walpole tp. Completed May 22, 1935. Producing gas well. Rock pressure: 478 lbs.

	I nickness,
Formation	ft.
Surface	
Flint	104
Lime and shale	374
Niagara	270
Shale	52
Clinton	28
Red Medina	42
Grey shale	
White Medina	
Red shale	
red Share.	
Total depth	951

Gas at 831, 836, 844, and 863 feet. Sulphur water at 72 feet.

SANDUSK GAS AND OIL SYNDICATE C. Doherty No. 3, lot 13, W. 1/2, con. VI, Walpole tp. Completed July 9, 1935, Producing gas well.
Rock pressure: 500 lbs.

	T HICKHESS,
Formation	ft.
Surface	20
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
	7.7
Grey shale	5.2
White Medina	
Red shale	1
Total depth	955

Gas at 853 and 868 feet. Black water at 97 feet.

	Sandi	JSK (Gas	AND	OIL S	YND	ICATE	
G.	Duxbury	No.	1, 1	ot 18	, con.	ΙV,	Walpole	tŗ

Completed September 26, 1935.

Proqu	ıcıng	gas	weii.	
Rock	press	sure:	235	lbs.

	Thickness,
Formation	ft.
Flint	
Lime and shale	344
Niagara	283
Shale	53
Clinton	29
Red Medina	
Grev shale	55
White Medina	14
Red shale	1
,	

Total depth...... 922

Gas at 816, 818, 843, 857, and 864 feet. Black water at 595 feet.

SANDUSK GAS AND OIL COMPANY

G. Duxbury No. 2, lot 18, con. IV, Walpole tp. Completed November 1, 1935.

y hole.	Thickness.
Formation	ft.
Surface	29
Flint	
Lime and shale	351
Niagara	275
Shale	
Clinton	29
Red Medina	45
Grey shale	55
White Medina	
Red shale	2
Total depth	953

Fresh water at 32 feet.

ELGIN STEWART

A. Stewart No. 1, lot 18, con. V, Walpole tp. Completed April 17, 1935. Producing gas well. Rock pressure: 280 lbs.

ck pressure: 280 lbs.	Thickness.
Formation	ft.
Surface	9
Flint	91
Salt and pepper rock	45
Shale	355
Niagara	240
Guelph lime	30
Rochester shale	60
Clinton	32
Red Medina	47
Grey shale	65
White Medina	13
Red shale	3
Total depth	980

Gas at 824 and 879 feet. Sulphur water at 205 feet.

WALPOLE GAS SYNDICATE

W. McBurney No. 5, lot 18, S. ½, con. VII, Walpole tp.

Completed July 20, 1935, Producing gas well. Rock pressure: 395 lbs.

k pressure: 595 lbs.	
	Thickness.
Formation	ft.
Surface	10
Flint	
Lime and shale	357
Niagara	288
Rochester shale	52
Clinton	25
Red Medina	22
Red shale	
Grey shale	59
White Medina	14
Red shale	4

Total depth..... Gas at 820 and 830 feet. Fresh water at 50 feet.

WALPOLE GAS SYNDICATE A. Porter No. 3, lot 17, S. ½, con. VII, Walpole tp. Completed August 17, 1935. Producing gas well. Rock pressure: 400 lbs.

•	Thickness.
Formation	ft.
Surface	12
Flint	83
Lime and shale	350
Niagara	283
Clinton	31
Red Medina	6
Red shale	34
Grey shale	51
White Medina	
Red shale	4
Total depth	916

Gas at 798 and 808 feet. Fresh water at 105 feet.

WALPOLE GAS SYNDICATE A. Porter No. 4, lot 17, S. 1/2, con. VII, Walpole tp.

Completed September 6, 1935. Producing gas well. Rock pressure: 390 lbs.

-	Thickness
Formation	ft.
Surface	
Flint	110
Lime and shale	357
Niagara	. 272
White lime	
Clinton	
Red Medina	
Red shale	
Grey shale	
White Medina	. 12
Red shale	3
Total depth	924

Gas at 772 and 921 feet. Fresh water at 85 feet.

Kent County

TERRY AND SONS

Terry and Sons, No. 1, City of Chatham, Chatham tp. Completed May 21, 1935. Dry hole.

	Thickness,
Formation	ft.
Clay and quag	64
Black shale	
Black, and blue and grey shale	55
Upper soap	162
Middle lime	
Lower soap	23
Dark shell	3
Lower lime	
Sand	23
Lime	37

Total depth..... Show of gas at 364 feet.
Oil at 406 feet; pumped 60 barrels and then went dry.
Fresh water at 62 feet; salt water at 437 to 440,
445 to 460, and 470 to 475 feet. UNION GAS CO. OF CANADA, LTD.
O. Dudley No. 1, lot 5, con. XIII, Chatham tp,
Completed November 12, 1935.
Dry hole.

	I nickness
Formation	ft.
Surface	70
Hamilton	370
Grey, and brown and grey lime	85
Blue and grey lime	10
Brown and grey lime	5
Grey and brown lime	80
Brown, and grey and brown lime	75
Dark-brown lime	70
Brown and grey lime	45
Sharp grey lime	140
Brown and grey lime	140
Blue lime and gypsum	35
Brown lime	10
Blue lime and gypsum	15
Brown lime	20
Blue lime	80
Brown, and blue and brown lime	50
Brown and grey lime	20
Blue lime	10
Brown, and brown and grey lime	55
Blue and grey lime	35
Blue and brown lime	185
Brown and brown and grey lime	105
Blue lime	5
Brown and grey lime	160
Rochester blue shale	30
Red and blue shale	90
Grey-white limestone	20
Grey-winte ninestone	

Fresh water at 70 feet: sulphur water at 515 feet.

AJAX OIL AND GAS CO., LTD.
J. Antaya No. 2, lot 1, con. III, Dover East tp.
Completed November 9, 1935.
Producing gas well.
Rock pressure: 665 lbs.

•	Thickness,
Formation	ft.
Surface	75
Soap	115
Soap and lime	87
Middle lime	18
Grey lime	185
Light-brown lime	15
Brown lime	325
Grev lime	10
Brown lime	286
Grev lime	109
Brown lime	155
Blue lime	75
Brown lime	40
Brown lime and salt	40
Brown lime	320
White lime	105
Blue shale	30
Red and blue shale	120
Blue shale	10
White Medina	40
Red shale	165
Blue shale	390
	189
Brown shale	205
Trenton	200

 AJAX OIL AND GAS CO., LTD.

H. Sterling No. 1, lot 1, E. ½ of W. ½, con. IV,
Dover East tp.

Completed April 9, 1935. Producing gas well. Rock pressure: 870 lbs.

dancing gas	
ock pressure: 870 lbs.	Thickness.
Formation	ft.
Surface	75
Hamilton shale	198
Lime	540
Sharp lime	90
Grev and brown lime	597
	35
Salt	390
Brown and grey lime	
White lime	45
Rochester shale	20
Red Medina	55
Grey shale	30
Lime and shells	4
Manitoulin dolomite	71
Red and grey shale	250
Grey shale and shells	90
Grey shale	270
Brown shale	144
Shells	6
Black shale	10
Trenton lime	210

CENTRAL PIPE LINE CO., LTD.
J. Sterling No. 1, lot 1, con. IV, Dover East tp.
Completed February 14, 1935.
Producing gas well.
Rock pressure: 810 lbs.

ock pressure: 510 lbs.	Thickness,
Formation	ft.
Surface	76
Hamilton	201
Lime	485
Hard lime	325
Grey lime	493
Brown lime	63
Grev lime	110
Brown lime	iii
	128
Grey lime	26
Red Medina	
Red shale	22
Grey shale	30
Lime and shale	46
Hard and sharp grey lime	56
Oueenston	110
Lime shells and shale	182
Grev shale	220
Utica	241

CENTRAL PIPE LINE Co., LTD.
J. Sterling No. 2, lot 1, con. III, Dover East tp.
Completed August 27, 1935.
Producing gas well.
Rock pressure: 810 lbs.

	Thickness,
Formation	ft.
Surface	76
Hamilton	209
Lime	740
Brown lime	19
Lime	457
'Salt and lime	48
Lime	419
Blue shale	23
Grey lime	-5
Grey lime and grey shale	6
Red shale	13
Red Medina	29
Blue and red shale	12
Blue shale	14
Blue and red shale	38
Blue shale	14
White Medina	45
Queenston	137
Blue shale	156
	75
Hard grey lime	19 51
Grey shale and shells	
Blue shale	129
Utica	195
Trenton	159

Gas at 2,940, 3,000, 3,015, 3,045, and 3,064 feet. Fresh water at 68 and 478 to 571 feet: salt water at 612, 853, 1,025 to 1,088, and 1,774 to 2,916 feet.

KNIGHT, DOBIE, STOVER, AND RAWLINGS
P. Jubenville No. 3, lot 3, F.C., Dover East tp.
Completed May 1, 1935.
Producing gas well.
Rock pressure: 1,175 lbs.

ck pressure: 1,170 lbs.	Thickness,
Formation	ft.
Surface	87
Hamilton shale and lime	158
Top of Onondaga, 245 feet.	
Bottom of Niagara, 1,850 feet.	
Top of Trenton, 2,780 feet.	
Shaley band at 380 feet in Trenton	5
Trenton lime	38
Total depth, 3,203 feet.	

Gas at 2,886 to 2,890, 2,905 to 2,911, and 2,911 to 2,917 feet.

Sulphur water at 400 and 700 to 1,050 feet; salt water at 1,525 feet.

LADD AND KNIGHT

J. Antaya No. 1, lot 1, con. IV, Dover East tp. Completed June 15, 1935. Producing gas well. Rock pressure: 810 lbs.

ca pressure: 010 los.	
	Thickness,
Formation	ft.
Surface	76
Hamilton	211
Big lime	229
Brown lime	44
Lime	26
Sharp grey lime	154
Grey-brown lime	986
Blue shale	25
Clinton	10
Red Medina	10
Blue and red shale	113
White Medina	40
Blue and red shale	278
Blue lime	18
Blue shale	323
Utica	117
Trenton	395

 MIDWAL OIL AND GAS CO., LTD., ET AL. C. Peltier No. 1, lot 5, con. III, Dover East tp. Completed August 1, 1935. Producing gas well. Rock pressure: Not taken.

ck pressure: Not taken.	
•	Thickness.
Formation	ft.
Surface	79
Hamilton	228
Onondaga lime	113
Hard brown and grey lime	315
Brown and grey lime	264
Brown lime and gypsum	61
Grey and brown lime	55
Blue lime	70
Brown lime	140
Grey and brown lime	
Brown lime	185
Grey and brown lime	9
Brown lime	156
Brown and grey lime	75
Rochester blue shale	28
Clinton	34
Cabot Head	84
Manitoulin dolomite	45
Red shale	611
Utica blue shale	143
Trenton lime	410
Blue shale,	5
Trenton lime	45

PRAIRIE GAS AND OIL CO., LTD.

M. Stephens No. 2, lot 2, con. III, Dover East tp.
Completed January 21, 1935.
Dry hole.

-		Thickness
	Formation	ft.
Sur	face	102
	milton shale and lime	148
On	ondaga	175
	own lime	275
	tty brown lime	220
Bro	own lime	115
	e and grey lime	430
	t	30
Sal	t and lime shells	20
	own and grey lime	265
	igara lime	1401
	d and blue shale	35
Re	d and grey shale	60
	ie shale	343
	rd shell	12
	ie shale	3051
Bro	own and black shale	176
	enton lime	379
	le and lime	2
Tre	enton lime	494
	sdam sandstone	5
	Total depth	3,731

Show of gas at 3,581 feet.

The log is not reliable between 1,920 and 2,675 feet.

201 1 . Laure . . .

PRAIRIE GAS AND OIL Co., LTD.

M. Stephens No. 3, lot 2, con. III, Dover East tp.
Completed April 18, 1935.
Producing gas and oil well.

	Thickness.
Formation	ft.
Surface	75
Hamilton shale and lime	190
Onondaga	120
White lime	175
Gypsum	2
White lime	38
Brown lime	360
Brown and blue lime	690
Niagara	305
Rochester	25
Red shale	125
White Medina	45
Queenston	270
Blue shale	385
Utica	102
Trenton	374
Blue shale	11

PRAIRIE GAS AND OIL CO., LTD.

M. Stephens No. 4, lot 2, con. III. Dover East tp.
Completed August 16, 1935.
Producing gas well.
Rock pressure: 850 lbs.

Thickness,

	Thickness
Formation	ft.
Surface	89
Hamilton shale and lime	191
Onondaga lime	140
Detroit River, Salina, and Guelph:	
Sharp sand	80
Brown and grey lime	1,140
Niagara	315
Rochester shale	30
Clinton	4
Cabot Head	116
Manitoulin dolomite	48
Queenston and Hudson River:	
Red and pink shale	147
Brown shale	150
Blue shale	325
Utica brown shale	117
Trenton	382
Blue shale	4
Trenton	
Tichton	

E. P. ROWE V. Duphette No. 1, lot 2, W. ½, con. IV, Dover East tp.

Completed September 21, 1935. Producing gas and oil well. Rock pressure: 825 lbs.

Department of Mines

	Thickness,
Formation	ft.
Clay	65
Gravel	8
Soap	157
Middle lime	20
Soap	35
Cuelob lime	65
Guelph lime	
Lime	1,285
Niagara lime	325
Blue shale	30
Clinton	4
Red shale	56
Light-grey shale	20
Grey shale	30
White Medina	150
	10
Red shale	50
Pink shale	
Brown shale	150
Pink shale	210
Brown shale	230
Trenton lime	375
Total depth	3 275
. 0.000 0.000 0.000 0.000	

Gas at 3,023, 3,050, 3,090, 3,095, and 3,100 feet. Oil at 3,100 feet. Fresh water at 70 feet; salt water at 560, 735, and 3,262 feet.

CENTRAL PIPE LINE CO., LTD.
G. Jubenville No. 4, lot 1, con. II, Dover West tp.
Completed December 20, 1935.
Producing gas well.

	Thickness.
Formation	ft.
Surface	83
Lime and soap	222
Brown lime	132
Lime	125
Lime and gypsum	11
Lime	247
Sharp lime	122
Lime	1.049
Lime and blue shale	36
Red shale	29
Blue shale	46
Shale and shell	33
Lime	12
White Medina	41
Red shale	142
Blue shale	124
Blue shells	18
Lime shells	36
Blue shale	282
Brown shale	107
Brown lime and shale	3
Trenton	514

F. W. KEHLET

J. Downie No. 1, lot 26, W. ½, con. XIV, Orford tp. Completed March 16, 1935. Dry hole.

Formation	Thickness,
Sand	10
Clay	
Hardpan and stones	
Top rock	
Dark shell	
Soap streak	1
Lower lime	
Water sand	2
Total depth	445

Show of gas at 317 to 322 feet. Salt water at 445 feet.

F. W. KEHLET

J. Ross No. 1, lot 23, con. XV, Orford tp. Completed February 10, 1935. Producing oil well.

	Inickness
Formation	ft.
Sand	10
Clay	60
Hardpan and boulders	80
Pipe clay	10
Soapstone	43
Dark streak and soap	
Lower lime	
Brown lime	
Light lime	13
Total depth	415

Total depth..... Oil at 294 to 300, 332 to 351, and 395 to 400 feet. Fresh water at 205, 263, and 395 feet.

L. G. Kurtz

H. Bloom No. 1, lot 26, con. XIV, Orford tp. Completed March 28, 1935. Small producing oil well.

•	Thickness
Formation	ft.
Sand	4
Clay	54
Hardpan and boulders	
Soapstone	
Dark streak	
Lower lime	185
Total depth	436

Oil at 165, 245 to 251, and 321 to 328 feet. Salt water at 421 feet.

L. G. Kurtz

H. Bloom No. 2, lot 26, con. XIV, Orford tp. Completed April 12, 1935. Dry hole.

	Thickness,
Formation	ft.
Sand	
Clay	55
Hardpan	
Upper soap	
Middle lime	8
Lower soap	25
Dark streak	5
Lower lime	185
· •	

Total depth Small show of oil at 318 to 324 feet. Salt water at 425 feet.

L. G. Kurtz

H. Bloom No. 3, lot 26, con. XIV, Orford tp. Completed April 26, 1935. Small producing oil well.

-		Thickness.
Formation		ft.
Sand		5
Clay		60
Hardpan and gravel		86
Upper soap		60
Middle lime		11
Lower soap		19
Dark streak		9
Lower lime	. .	152
•		

Total depth..... Small flow of oil at 275 to 280 feet; mud and oil at 315 feet.

Fresh water at 100 feet.

L. G. KURTZ

H. Bloom No. 4, lot 26, con. XIV, Orford tp. Completed July 6, 1935. Small producing oil well.

	Thickness,
Formation	ſt.
Sand	
Clay	53
Hardpan and gravel	70
Upper soap	77
Middle lime	
Lower soap	24
Dark streak	5
Lower lime	183
Water sand	4
Total depth	438

Show of gas at 155 and 282 feet. Water at 384 to 406 feet.

GAS PRODUCERS SYNDICATE

G. L. Pardo No. 3, lot 140, N.T.R., Raleigh tp. Completed February 24, 1935. Producing gas well. Rock pressure: 675 lbs.

	1 hicknes
Formation	ft.
Surface	190
Soap	135
Grey lime	60
Brown lime	175
Brown and white lime	135
Grey lime	23
Brown and white lime	42
Grev lime	65
Brown lime	155
	20
Gypsum and lime	5
Blue lime	
Brown lime	25
Blue and brown lime	310
Salt	30
Brown lime	67
Brown and grey lime	101
- · ·	

Gas at 1,400, 1,406, 1,411 to 1,414, 1,455, 1,460, 1,476, 1,489, 1,502, 1,510, and 1,539 feet. Sulphur water at 535 feet; sulphur and salt water at 585 and 796 feet.

J. Perdue

Sullivan No. 1, lot 1, con. I, Raleigh tp.

Completed August 17, 1935. Dry hole.

y note.	Thickness
Formation	ft.
Surface	
Upper soap	10
Lime	6
Soap	28
Middle lime	14
Lower soap	32
Dark streak	. 3
Lower lime	147
Sand	4
Total depth	334

Small show of oil at 185 feet. Salt water at 330 feet.

E. P. Rowe

L. Bruette No. 1, lot 5, con. I, Raleigh tp. Completed October 1, 1935. Producing oil well.

•	Thickness,
Formation	ft.
Surface	80
Lime shell	5
Soap	155
Middle lime	15
Soap	29
Grey lime	10
Light-brown lime	127
Sharp grey lime	29
White lime	10
Sharp grey lime	10
Grey lime	7 5
Lime and gypsum	195
Sharp brown lime	165
Lime and gypsum	515
Salt	65
Brown lime	45
Shale and lime	130
Brown lime	210
Grey lime	37
Blue shale	26
Clinton lime	2
Red shale	31
Blue shale	74
White Medina	60
Red shale	150
Blue shale	400
Brown shale	208
Trenton lime	392
Blue shale	4
Trenton lime	32
Total depth	3,286

Show of oil at 445 feet; oil at 3,261 feet. Fresh water at 80 feet; black water at 450, 465, and 1,670 feet.

UNION GAS CO. OF CANADA. LTD.

J. D. Benedict No. 1, lot 140, N.T.R., Raleigh tp.
Completed February 18, 1935.
Producing gas well.
Rock pressure: 665 lbs.

•	Thicknes
Formation	ft.
Surface	175
Hamilton shale and lime	
Grev lime	245
Light-brown lime	
Dark-brown and black lime	
Light-brown lime	
Sharp grey lime	
Grev and brown lime	
Grey lime and gypsum	
Brown, and blue and brown lime	
Blue lime	
Blue, and brown and blue lime	
Salt	
Brown lime	
Grey lime	
Grey mile	

 Union Gas Co. of Canada, Ltd. J. Clayton No. 2, lot 17, con. XV, Raleigh tp. Completed November 15, 1935.

noie.	Thickness.
Formation	ft.
Surface	223
Hamilton shale and lime	73
Brown and grey lime	334
Sharp grey lime	210
Grey and brown lime	155
Blue lime	5
Grey lime	60
Blue lime	100
Brown, and brown and blue lime	70
Brown lime	60
Grey and blue lime	70
Blue and brown lime	45
Brown lime	50
Grey lime	157

UNION GAS COMPANY OF CANADA, LTD.
S. W. Russell No. 1, lot 17, con. XIII. Raleigh tp.
Completed June 20, 1935.
Dry hole.

noic.	Thickness.
Formation	ft.
Surface	175
Hamilton shale and lime	132
Grey lime	243
Brown lime	£0
Grey lime	30
Sharp grey lime	200
Grev lime	90
Brown lime	90
Grev and brown lime	95
Blue lime	75
Brown and grey lime	50
Blue and brown lime	25
Brown lime	60
Blue, and blue and brown lime	115
Grey and brown lime	195
Brown lime	155
Grey lime	40
Total depth	1,820

Show of gas at 1,515 feet. Sulphur water at 335, 555, and 585 feet; salt water at 1,590 and 1,750 feet.

UNION GAS COMPANY OF CANADA, LTD.
S. W. Russell No. 2, lot 18, con. XIV, Raleigh tp.
Completed September 4, 1935.
Dry hole.

		Thickness
Formation		ft.
Surface		170
Hamilton shale and lin	ne	103
Grev lime		237
Brown lime		70
Sharp grey lime		
Brown lime		
Grey lime		
Grey lime and gypsum		
Blue, and blue and gre		
Brown, and blue and	rown lime	
Salt		
Brown lime		ćó
Grey lime		2.2
Brown lime		10
Grey lime		~
Brown lime		
Grey lime		18

LADD AND ZEIGEN

Jones No. 1, lot 169, N.T.R., Tilbury East tp. Completed January 30, 1935. Producing gas well. Rock pressure: 240 lbs.

ck pressure: 240 lbs.	
•	Thickness,
Formation	ft.
Surface	146
Soapstone	76
Shell	3
Soapstone	56
Grey lime	254
Brown lime	22
Grey lime and gypsum	18
Sharp lime	110
Brown lime	18
Grey lime and gypsum	48
Grey lime	58
Grey lime and gypsum	120
Brown lime	6
Grey lime	12
Brown lime and gypsum	$\frac{12}{11}$
Brown lime	₹ ī
Grey lime and gypsum	15
Brown lime	45
Grey lime	80
Grey lime and gypsum	15
Grey lime	65
Brown lime	45
Brown lime and gypsum	24
Brown lime	23
Grey lime	49
Brown lime	30
Grey lime	10
•	_

Gas at 1,220 and 1,322 feet.
Fresh water at 135 feet; black water at 665 feet; salt water at 1,361, 1,391, and 1,401 feet.

LADD AND ZEIGEN

Mifflin No. 2, lot 7, con. XIV, Tilbury East tp. Completed July 23, 1935. Dry hole.

,	noic.	Thickness,
	Formation	ft.
	Surface	125
	Top lime	5
	Shale	9
	Upper soap	68
	Middle lime	8
	Lower soap	63
	Lower lime	127
	Brown lime	33
	Grey lime	57
	Brown lime	105
	Grey lime	27
	Sharp lime	119
	Grey lime	42
	Brown lime	37
	Grey lime	23
	Brown lime	6
	Grey lime	96
	Lime and gypsum	61
	Brown lime	6
	Grey and brown lime	6
	Lime and gypsum	39
	Brown lime	47
	Lime and gypsum	51
	Grey lime	80
	Brown lime	40
	Grey lime	60
	Brown lime	25
	Grey lime	18
		-0

IACK PERDUE

R. C. Church No. 1, lot 1, R.R., Tilbury East tp. Completed August 26, 1935. Dry hole.

	Thickness
Formation	ſt.
Loam	5
Quag	35
Mild hardpan	51
Sand	
Upper soap	53
Middle lime	12
Lower soap	37
Lower lime	81
Total depth	279

Fresh water at 91 feet; salt water at 275 feet.

CHRYSLER AND LULLER

Humphrey No. 1, lot 8, con. V, Zone tp. Completed December 18, 1935. Dry hole.

y hole.	Thickness.
Formation	ft.
Sand	15
Quag	10
Člav	33
Hardpan	2
Black shale	87
Top lime	40
Upper soap	145
Middle lime	10
Lower soap	18
Dark streak	2
Lower lime	133
Sharp sand	3
Total depth	498

Show of gas at 71 feet. Fresh water at 68 feet; salt water at 498 feet.

J. VONBERG

H. Brewer No. 1, lot 19, con. VIII, Zone tp. Completed December 12, 1935. Small producing oil well.

in Production	Thickness,
Formation	ft.
Top sand	17
Clay	38
Gravel	146
Dark streak	3
Soapstone	2
Soft lime	7
Grev hard lime	77
Dark lime	77
Light lime	
Digite mile.	

Oil at 213 and 367 to 385 feet. Fresh water at 55 feet; salt water at 290 feet.

C. R. WALKER

Buchanan No. 1, lot 8, con. VI, Zone tp. Completed September 17, 1935. Dry hole.

•		Thickness,
	Formation	ft.
	Sand	
	Ouag	5
	Clay	36
	Hardpan	26
	Black shale	34
	Top lime	40
	Upper soap	149
	Middle lime	9
	Lower soap	22
	Dark streak	3
	Lower lime	130
	Sharp sand	10
	•	

Total depth..... 485 Fresh water at 120 feet; salt water at 378 feet.

G. E. AND D. E. Willits
Corlet No. 1, lot 9, con. III, Zone tp.
Completed July 31, 1935.
Dry hole.

	Thickness
Formation	ft.
Sand	10
Quag	
Clay	40
Hardpan	32
Black shale	53
Top lime	38
Upper soap	137
Middle lime	10
Lower soap	20
Dark streak	5
Lower lime	70
Total depth	420
Fresh water at 65 feet.	

G. E. AND D. E. Willits R. Jones No. 1, lot 5, con. V, Zone tp. Completed September 10, 1935. Dry hole.

,	noic.	Thickness,
	Formation	ft.
	Sand	12
	Clay	33
	Hardpan	120
	Upper soap	30
	Middle lime	12
	Lower soap	
	Dark streak	9
	Soap streak	3
	Lower lime	158
	Total depth	400

Small show of oil at 235 feet. Salt water at 255 feet.

G. E. AND D. E. WILLITS
Lutz No. 1, lot 14, R.R., Zone tp.
Completed June 24, 1935.
Small producing oil well.

	Thickness.
Formation	ft.
Sand	18
Clay	44
Hardpan and gravel	103
Soap	46
Dark streak	10
Lower lime	164
Oil rock	27
Total depth	412
Oil at 190 to 194, 220 to 225, 231 to 236, 310 to 315, and 385 to 395 feet.	290 to 295,

G. E. AND D. E. WILLITS
M. Mercer No. 1, lot 4, con. V, Zone tp.
Completed September 28, 1935.
Dry hole.

Show of gas at 36 feet. Salt water at 414 feet.

	Thickness
Formation	ft.
Sand	15
Clay	21
Hardpan	139
Upper soap	49
Middle lime	8
Lower soap	24
Dark streak	3
Lower lime	137
Sharp lime	14
Sand	6
Total depth	420

Lambton County

GEORGE SULLIVAN ET AL.

Lot 9, con. C, Kettle Point Indian Reservation.

Bosanquet tp.

Completed May 24, 1935. Small show of gas.

,	Thickness,
Formation	ft.
Surface	
Huron shale	12
Hamilton shale	365
Dark streak	
Ondondaga lime	113
	
Total depth	503

Show of gas at 390 and 453 feet. Salt water at 34 feet, dark salt water at 501 feet.

BROOKEFIELD OIL AND GAS CO., LTD. F. Atcheson No. 3, lot 23, con. XIII, Brooke tp. Completed February, 1935. Dry hole.

	Thickness.
Formation	ft.
Clay	
Hardpan	3
Black shale	22
Blue shale	5
Lime and soap	98
Soap	115
Middle lime	
Lower soap	32
Big lime	82
· ·	
Total depth	434
-	

Show of gas at 400 to 405 feet. Show of oil at 352 to 354 and 365 to 372 feet. Fresh water at 57 to 60 feet; salt water at 432 feet.

BROOKEFIELD OIL AND GAS CO., LTD. T. Scott No. 1, lot 22, con. XIII, Brooke tp. Completed March 15, 1935. Small producing oil well.

•	Thickness,
Formation	ft.
Clay	61
Black shale	27
Top rock	3
Grey shale	74
Top soap	130
Middle lime	23
Lower soap	26
Big lime	117
Total depth	461
Oil at 416 to 418, 422, and 454 to 457 feet	•

EMPIRE GOLD Co., LTD.

R. Powell No. 1, lot 25, con. XIII, Brooke tp.
Completed March 1935.
Dry hole.

	Thickness,
Formation	ft.
Surface	55
Black shale	25
Grey lime and soap	85
Soap	135
Lime	18
Lower soap	33
Lower lime	54

GUBB AND RUSSELL

F. Braithwaite No. 2, lot 9, con. II, Brooke tp. Completed September 21, 1935. Dry hole.

	Thickness
Formation	ft.
Surface	52
Top rock	80
Upper soap	132
Middle lime	21
Lower soap	$\overline{25}$
Big lime	90
	
Total depth	400
Total depth	

Fresh water at 52 feet; salt water at 400 feet.

GUBB AND RUSSELL

F. Braithwaite No. 3, lot 9, con. II, Brooke tp. Completed October 8, 1935. Dry hole.

	Thickness
Formation	ft.
Surface	52
Black shale	13
Top rock	70
Upper soap	139
Middle lime	10
Lower soap	32
Big lime	40
Total depth	365

Fresh water at 58 feet.

GUBB AND RUSSELL

H. Wilcox No. 1, lot 10, pt. of W.1/2, con. II, Brooke tp.

Completed May 15, 1935. Dry hole.

	T IIICK HCSS.
Formation	ft.
Surface	58
Top rock	73
Soapstone	134
Middle lime	19
Lower soap	
Big lime	145
Total depth	456
esh water at 57 feet: salt water at 455	

LILEY AND WINKLER

W. Cambell No. 1, lot 8, con. II, Brooke tp. Completed May 22, 1935. Producing oil well.

	Thickness,
Formation	ft.
Surface	58
Top rock	71
Top soap	135
Middle lime	21
Lower soap	27
Big lime	88
Total depth	400

Oil at 332 feet. Fresh water at 59 feet.

LILEY AND WINKLER

W. Cambell No. 2, lot 8, con. II, Brooke tp. Completed June 19, 1935. Dry hole.

y hole.	
	Thickness.
Formation	ft.
Surface	59
Black shale	16
Top rock	15
Top soap	136
Middle lime	21
Lower soap	27
Big lime	
Total depth	351

Fresh water at 58 feet.

SCIENTIFIC OIL AND GAS SYNDICATE

R. Serson No. 2, lot 27, con. XII, Brooke tp. Completed October 8, 1935. Producing gas well. Small show of oil.

all show of oil.	Thickness.
Formation	ft.
Surface clay	52
Hardpan	13
Black shale	11
Grey shale	7 4
Lime	43
Lime and soap	10
Lime and soap	iš
Hard grey lime	3
Soap	125
Soapy lime	4
Middle lime	$\frac{25}{23}$
Lower soap Dark lime	8
Lower lime	107
Total depth	453

Gas at 160 feet. Gas at 100 feet. Show of oil at 401 and 452 feet. Fresh water at 55 feet; salt water at 401 to 452 feet; black water at 453 feet.

BERT WILSON

J. Lewis No. 2, lot 27, con. XII, Brooke tp. Completed April 13, 1935. Dry hole.

•	Thickness,
Formation	ft.
Clay	30
Sand	30
Gravel	
Grey shale	
Top rock	80
Top soap	128
Middle lime	26
Lower soap	
Grey lime	
Big lime	120
Total depth	465

Salt water at 150 feet.

LEO WILSON ET AL.

R. Serson No. 1, lot 27, con. XII, Brooke tp. Completed March 22, 1935. Producing gas well. Small oil yield.

iaii 011 y 10141	Thickness.
Formation	ft.
Clay	52
Black gravel	16
Grey shale	27
Soap	30
Hard lime	3
Soap	22
Lime	4
Soap	133
Middle lime	21
Soap	21
Dark lime	8
Big lime	128
Total depth	475

Gas at 95 feet.
Oil at 348 feet.
Sulphur water at 68 to 80 feet; brackish water at
400 to 405 feet; dark salt water at 450 to 475
feet.

GUBB AND RUSSELL W. T. Weese No. 1, lot 22, N. ½, con. III, Dawn tp. Completed December 9, 1935. Dry hole.

	Thickness,
Formation	ft
Clay	62
Black shale	298
Top rock	55
Top soap	130
Middle lime	13
Lower soap	42
Onondaga	365
Hard grey lime	105
Hard brown and grey lime	80
. Total depth	1 150

Fresh water at 62 feet; sulphur water at 725 feet.

ERNEST KELLS

E. Kells No. 1, Town of Petrolia, Enniskillen tp. Completed August 30, 1936. Producing oil well.

		Thickne
Formation		ft.
Surface		 94
Limestone		 50
Upper soap		
Limestone		
Lower soap		 45
Limestone		
Total depth		464

Oil at 266, 280, 338, and 460 feet. Fresh water at 93, 338, and 390 feet.

OLGA GAS AND OIL CO., LTD.

J. H. Coleman No. 1, lot 18, con. VI, Euphemia tp.
Completed August, 1935.
Dry hole.

y note.	Thickness,
Formation	ft.
Surface	50
Top rock	22
Soap and shell	
Middle lime	11
Lower soap	
Dark streak	
Soap	
Lower lime	
Total depth	414

Show of oil at 348 feet. Fresh water at 50 feet; salt water at 348 feet.

OLGA GAS AND OIL CO., LTD.
D. Ferguson No. 1, lot 19, con. VI, Euphemia tp.
Completed September, 1935.
Dry hole.

	Thickness
Formation	ft.
Surface	60
Hardpan	9
Top rock	32
Soap	99
Shell	4
Soap	38
Middle lime	
Lower soap	20
Dark streak	5
Soap	1
Lower lime	59
Total depth	338

Show of oil at 287 feet.

OLGA GAS AND OIL CO., LTD.
C. McDonald No. 1, lot 17, con. VIII, Euphemia tp.
Completed July, 1935.
Dry hole.

	Thickness,
Formation	ft.
Surface	78
Top rock	
Soapstone and shell	70
Hard soap	
Shell	
Soap	
Middle lime	
Lower soap	
Dark streak	5
Soap	119
Lower lime	110
Sandstone	
Total depth	401

Show of oil and gas at 295 feet. Fresh water at 79 feet; salt water at 397 to 401 feet.

F. L. PATTERSON ET AL.

A. Bruce No. 1, lot 4, con. IX, Moore tp. Completed April 17, 1935. Small producing oil well.

an producing on wen.	Thickness,
Formation	ft.
Surface	
Top rock	 47
Top soap	 133
Middle lime	 12
Lower soap	 45
Lower lime	
Total depth	405

Oil at 392, 400, and 420 feet. Fresh water at 172 feet.

F. L. PATTERSON ET AL.

A. Bruce No. 2, lot 4, con. IX, Moore tp. Completed April 24, 1935.

v	hole.	
•		Thickness
	Formation	ft.
	Surface	
	Top rock	63
	Top soap	115
	Middle lime	12
	Lower soap	43
	Lower lime	70
	-	

F. L. PATTERSON ET AL.

A. Glover No. 1, lot 4, con. X, Moore tp. Completed May 11, 1935. Small producing oil well.

•	•	Thickness,
F	ormation	ft.
Surfac	e	 . 145
Hardt	an	 5
Top re	ock	 62
Top se	oap	 . 120
Middl	e lime	 . 13
Lower	soap	 . 50
Lower	lime	 . 69
Т	otal depth	 . 464

Oil at 422 feet. Fresh water at 176 feet.

ALEXANDER GARDINI	(R
D. McDonald No. 1, lot 5, W. Plympton tp.	½, con. I,

Completed July 24, 1935. Dry hole.

	Thickness,
Formation	ft.
Surface	163
<u>T</u> op rock	50
Top soap	140
Middle lime	15
Lower soap	45
Lower lime	72
75-4 1 1 41	
Total depth	485

Fresh water at 167 feet.

F. L. MERRITT ET AL.

A. J. Garnon No. 1, lot 26, con. XIV, Plympton tp. Completed July 13, 1935. Dry hole.

	Thickness
Formation	ft.
Surface	
Hardpan	3
Black shale	45
Top rock	84
Hard soap	30
Lime	10
Top soap	130
Middle lime	4
Lower soap	66
Lower lime	88
Total depth	533

Fresh water at 73 to 80 feet. Black salty water at 531 to 533 feet.

WM. P. REDDICK

W. P. Reddick No. 1, lot 4, E. 1/4, con. II, Plympton tp.

Completed August 28, 1935. Small producing gas well.

	Thickness
Formation	ft.
Brown clay	10
Blue clay	144
Top rock	40
Middle lime	15
Lower soap	50
Lower lime	55

Total depth..... 470

Gas at 435 and 460 feet. Oil at 464 feet, but not pumped.

Bert Wilson, G. Sullivan, et al.
J. Cooper No. 1, lot 17, S. ½ of W. ½, con. III N.
Warwick tp.

Completed January 5, 1935. Dry hole.

	Thickness.
Formation	ft
Clay	56
Gravel	2
Hamilton lime	68
Lime and soap	34
Lime	23
Soap	17
Lime	î 2
Soap	68
Lime	10
Soap	25
Lime	5
Soap	22
Middle lime	16
Lower soap	40
Onondaga lime	114
Onondaga lime	114
and a contract of	

Total depth..... 512 Show of oil at 435 to 440, 495 to 500, and 505 to 510 feet. Sulphur water at 64 feet.

BERT WILSON, G. SULLIVAN, ET AL. W. Hall No. 1, lot 23, con. III N., Warwick tp. Completed February 1, 1935.

	Thickness.
Formation	ft.
Clay	67
Hamilton lime	50
Soap	8
Lime	35
Grey shale	21
Lime	14
Soap	85
Lime	2
Soap	8
Lime	15
Soap	15
Lime	23
Soap	17
Lime	10
Soap	10
Onondaga lime	110
•	
Total depth	500

Show of oil at 400 to 405, 435 to 437, and 470 to 475 feet. Sulphur water at 70 to 80 feet.

Lincoln County

LINCOLN GAS CO., LTD.

M. Lymburner No. 2, lot 1, con. III, Caistor tp. Completed April 2, 1935. Producing gas well. Rock pressure: 130 lbs.

	Thickness
Formation	ft.
Surface	73
Lime and shale	24
Niagara	220
Shale	
Clinton	35
Red Medina	40
Shale	60
White Medina	10
Red shale	50
Total depth	549

Gas at 400 and 495 feet.

LINCOLN GAS CO., LTD.

Neigarth No. 1, lot 1, con. III, Caistor tp. Completed February 21, 1935. Producing gas well. Rock pressure: 125 lbs.

	Thickness.
Formation	ft.
Surface	72
Lime and shale	25
Niagara	220
Shale	
Clinton	26
Red Medina	39
Shale	60
White Medina	10
Red shale	50
Total depth	539
Gas at 397 and 489 feet.	

LINCOLN GAS CO., LTD.

Neigarth No. 2, lot 1, con. III, Caistor tp. Completed September 10, 1935.

Producing gas well.
Rock pressure: 125 lbs.

	Thickness
Formation	ft.
Surface	
Lime and shale	25
Niagara	208
Shale	35
Clinton	38
Red Medina	
Shale	60
White Medina	10
Red shale	50
Total depth	543

Gas at 488 feet. Sulphur water at 40 feet.

70 <u>E</u>	epartmen	nt of Mines	Pt. V
7		Cranwan Dawan	
LINCOLN GAS CO., LTD.		CLARENCE DEMARAY	
Neigarth No. 3, lot 1, con. III, Cais	tor tp.	Wm. McIntyre No. 1, lot 11, con. IV, M	detcane tp
Completed October 20, 1935.		Completed October 30, 1935.	
Producing gas well.		Dry hole.	Thickness
Rock pressure: 125 lbs.	Thickness,	Formation	ft.
Formation	ft.	Clay	110
Surface	65	Sand	3
Time and shale	15	Hardpan	23
Niagara	205 53	Soap	$\begin{array}{c} 102 \\ 25 \end{array}$
ShaleClinton	28	Lower soap	20
Red Medina	29	Lime	98
Shale	57		
White Medina	18	Total depth	
Red shale	50	Fresh water at 113 feet; black water at 3	85 feet.
Total donth	520		
Total depthGas at 358, 390, and 465 feet. Sulphur water at 15 feet.	02		
Lincoln Gas Co., Ltd.			
L. Vaughn_No. 1, lot 5, S. ½, con	n. I,		
Gainsborough tp.		FRED W. CRAFT	
Completed November 27, 1935.		M. Armstrong No. 1, lot 17, con. IV,	Mosa tp.
Producing gas well. Rock pressure: 125 lbs.	Milalamana	Completed January 19, 1935. Dry hole.	•
73	Thickness, ft.	Dij zere.	Thicknes
Formation Surface		Formation	ft.
Lime and shale		Sand	
Niagara	203	Clay	67
Shale	41	Hardpan and gravel Upper soap	60 115
Clinton	. 4	Middle lime	112
Red Medina		Lower soap	. 17
Shale		Dark streak	
Red shale	50	Lower lime	
		White sharp lime Dark lime	
Total depth	. 533	•	
Gas at 360 to 370 and 470 to 475 feet.		Total depth	433
Sulphur water at 50 feet.		Fresh water at 80 feet; salt water at 428	feet.
Middlesex County			
J. H. GAUL		*	
H. Anderson No. 1, lot 24, con	Y		
North Dorchester tp.	,		
Completed July 22, 1935.			
Dry hole.		Dominion Petroleum Co., Lt	
DIY note.	Thickness,	J. Walker No. 19, lot 6, N. ½, con. VI	., Mosa tp
Formation	ft.	Completed November 1, 1935.	
Surface	. 158	Dry hole.	Ann
Grey lime		Formation	Thicknes
Brown lime and gypsum	. 50	Drift	ft. . 77
Grev lime	. 170	Hardpan	. 3
Grev and brown lime	. 75	Soap	. 82
Blue shale	. 105	Lime	. 5
Lime and gypsum		Soap	
Grey lime and gypsum	. 30	Lime Shale	. 15 . 23
Brown lime	. 50	Lime (mostly dolomite)	
Guelph lime	. 27		
Niagara lime	. 203	Total depth	. 400
Blue shale		Fresh water at 77 and 140 feet.	
Blue shale			
Total depth	. 1,405		
Gas at 1.055 and 1,102 feet; gas blew do	own rapidly.		
Gas at 1,055 and 1,102 feet; gas blew do Fresh water at 30 and 200 feet; sulpl 680 feet.	our water at		
		<u> </u>	
IRWIN CARROTHERS AND C. D		L. P. MYTINGER ET AL.	t-
TIT I Mathemald No. 1 lot 11 com W	Metcalte to	H. GOUIG NO. 3, IOT 13, con 11 M	osa In

L. P. Mytinger et al. H. Gould No. 3, lot 13, con. II, Mosa tp. Completed October 1,1935. Small producing oil well.

Formation Clay Broken formation. Soap Middle lime	45 140 20
Lower soapLower lime	
Total depthOil at 315 and 355 feet. Fresh water at 60 feet; salt water at 355	

Total depth.... Fresh water at 85 to 90 feet.

Completed July 8, 1935. Dry hole.

Formation

W. L. McDonald No. 1, lot 11, con. V, Metcalfe tp.

STOWN WAD SOOK	
N. Gillies No. 1, lot 6, con. VII, 1	Mosa tp.
Completed October 30, 1935.	
Dry hole.	

	Thickness,
Formation	ft.
Clay	20
Quag	10
Clay	25
Sand	20
Hardpan	10
Upper soap	142
Middle lime	15
Lower soap	23
Dark streak	3
Lower lime	117
Grey and brown lime	6
Light-grey lime	9
Total depth	400

SLOAN AND ZOOK

P. McTavish No. 1, lot 6, con. VII, Mosa tp.
Completed November 15, 1935.
Dry hole.
Thickness,

	I HICKHESS
Formation	ft.
Clay	30
Quag	
Hardpan	22
Top rock	
Upper soap	153
Middle lime	$\frac{10}{27}$
Lower soap	i
Dark streak	
Lower lime	90
Total depth	439

Fresh water at 30 and 130 feet.

SLOAN AND ZOOK

D. J. Mitchell No. 1, lot 7, con. V, Mosa tp. Completed November 25, 1935. Dry hole.

·	Thickness
Formation	ft.
Clay	75
Hardpan	10
Top rock	20
Upper soap	
Middle lime	
Lower soap	20
Dark streak	
Lower lime	
Sharp lime	10
Total depth	423
Fresh water at 75 feet.	

BERT WILSON ET AL.

D. McIntyre No. 1, lot 1, con. XI, Mosa tp. Completed November 15, 1935. Dry hole.

y noic.	Thickness.
Formation	ft.
Surface	22
Grey shale	26
Black shale	47
Lime and shale	55
Soap	10
Lime	8
Soap	134
Middle lime	18
Soap	24
Dark lime	
Grey lime	15
Total depth	465

Fresh water at 16 feet; salt water at 462 feet.

Norfolk County

MIDDLETON NORFOLK GAS Co., LTD.
V. McDonald No. 2, lot 5, con. III, N.T.R.,
Middleton tp.

Completed February 23, 1935. Producing gas well. Rock pressure: 365 lbs.

·	Thickness,
Formation	ft.
Surface	201
Lime and shale	167
Flint	122
Brown lime and shale	408
Niagara	5
Total depth	903
Gas at 900 feet.	
Sulphur water at 900 feet.	

Midwal Oil and Gas Co., Ltd. W. Kelly No. 1, lot 2, S. pt., con. III, N.T.R., Middleton tp.

Completed March 21, 1935. Dry hole.

Formation	Thickness,
Clay	60
Quicksand	100
Clay and hardpan	34
Grey lime	110
Flint	125
Shale	175
Brown lime	286
Niagara lime	317
Blue shale	45
Clinton	28
Red Medina	2
Total depth	1.282

Sulphur gas at 915 feet. Fresh water at 65 feet; sulphur water at 200 feet.

E. P. Rowe

C. D. Coyle No. 3, lot d. N.W. pt., con. II, N.T.R., Middleton tp.

Completed February 6, 1935. Producing gas well. Rock pressure: 550 lbs.

	Thickness,
Formation	ft.
Quicksand	140
Clay and gravel	38
Brown lime	145
Flint	125
Shale and gypsum	430
Niagara	295
Blue shale	55
Clinton lime	23
Pink shale	2
Thorold sand	4
Red Medina	15
Blue shale	10
Total depth	1,282

Gas at 1,253 and 1,257 feet. Fresh water at 165 feet; sulphur water at 245 feet.

EMPIRE NATURAL GAS, LTD.

M. and A. Hazen No. 1, lot 16, con. I,
South Walsingham tp.

Completed April 30, 1935. Producing gas well. Rock pressure: 400 lbs.

ca pressure. 100 iso.	Thickness,
Formation	ft.
Surface	305
Lime and shale	170
Flint	135
Lime and shale	345
Niagara	279
Shale	
Clinton	
Red Medina	
Shale	
•	
Total depth	1,369

Gas at 1,303 feet. Fresh water at 300 teet.

EMPIRE NATURAL GAS, LTD. C. Leighfield No. 1, lot 12, con. B, South Walsingham tp.

Completed November 22, 1935. Producing gas well. Rock pressure: 600 lbs.

ck pressure: 600 lbs.	Thickness,
Formation	ft.
Surface	
Lime and shale	
Flint	
Lime and shale	
Niagara	 . 268
Shale	
Clinton	 . 28
Red Medina	
Grey shale	 . 40

Gas at 1,310 and 1,348 feet. Sulphur water at 300 feet.

> EMPIRE NATURAL GAS, LTD. H. Mudford No. 2, lot 17, con. I, South Walsingham tp.

Completed February 24, 1935. Dry hole.

	Thickne
Formation	ft.
Surface	305
Lime and shale	170
Flint	130
Lime and shale	365
Niagara	276
Shale	52
Clinton	27
Red Medina	10
Grey shale	104
White Medina	15
Red shale	4
Total depth	1,458
t	

Fresh water at 305 feet.

Show of gas at 978 feet.

ALOKA OIL CO., LTD.

F. Smith No. 1, lot 6, con. III, Woodhouse tp. Completed April 26, 1935. Dry hole. ***:-1----

	I nickness,
Formation	ft.
Surface	47
Limestone	25
Flint	140
Brown lime	38
Lime and shale	354
Niagara lime	280
Blue shale	57
Clinton	35
Red Medina	17
Blue shale	90
White lime	15
Red shale	4
Total depth	1,104

BURCHELL NATURAL GAS AND OIL SYNDICATE N. Brown No. 1, lot 22, con. VI, Woodhouse tp. Completed July 12, 1935. Dry hole.

,	Thickness.
Formation	ft.
Surface	42
Flint	
Lime and shale	
Niagara	
Shale	
Clinton	
Red Medina	
Grey shale	. 58
White Medina	. 12
Red shale	3

Fresh water at 78 feet; black water at 647 feet.

BURCHELL NATURAL GAS AND OIL SYNDICATE W. Ferris No. 1, lot 20, S. 1/2, con. VI, Woodhouse tp. Completed June 21, 1935. Producing gas well. Rock pressure: 500 lbs.

ck pressure 500 ibs.		
		Thickness.
Formation		ft.
Surface	٠.	10
Flint		160
Lime and shale		420
Niagara		
Shale		47
Clinton		17
Red Medina		45
Grey shale		60
White Medina		15
Red shale		25
Total depth		1,009

Gas at 859, 879, and 979 feet. Sulphur water at 60 and 300 feet; black water at 400 feet.

BURCHELL GAS AND OIL SYNDICATE

W. Ferris No. 2, lot 22, con. VI, Woodhouse tp. Completed July 25, 1935. Producing gas well. Rock pressure: 500 lbs.

	Thickness,
Formation	ft.
Surface	31
Flint	160
Lime and shale	380
Niagara	210
Shale	59
Clinton	38
Red Medina	32
Grey shale	55
White Medina	12
Red shale	27
Total depth	1,004

Gas at 900 feet. Fresh water at 60 feet; sulphur water at 160 feet; black water at 400 feet.

BURCHELL NATURAL GAS AND OIL SYNDICATE W. Ferris No. 3, lot 22, con. VI, Woodhouse tp. Completed September 2, 1935.

Producing gas well. Rock pressure: 500 lbs.

	I hickness,
Formation .	ft.
Surface	24
Flint	160
Lime and shale	350
Niagara	250
Shale	
Clinton	
Red Medina	
Grev shale	
White Medina	
Red shale	
and the second s	

....

Total depth..... 969 Fresh water at 60 feet; sulphur water at 90 feet; black water at 500 feet.

WALTER GAS SYNDICATE

C. Blow No. 2, lot 12, con. VI, Woodhouse tp. Completed March 2, 1935. Producing gas well. Rock pressure: 385 lbs.

	Thickness,
Formation	ft.
Surface	. 65
Flint	
Lime and shale	. 385
Niagara	. 320
Rochester shale	. 33
Clinton	. 28
Red Medina	. 25
Blue shale	. 65
White Medina	. 11
Red shale	. 12

Total depth..... 1,054 Gas at 922 and 941 feet. Sulphur water at 143 feet.

WALTER GAS SYNDICATE
J. Walker No. 1, lot 12, con. VI, Woodhouse tp.
Completed November 11, 1935.
Producing gas well.
Rock pressure: 385 lbs.

•	Thickness,
Formation	ft.
Surface	
Flint	
Lime and shale	
Niagara lime	
Rochester shale	
Clinton sand	
Red Medina	
Blue shale	
White Medina	
Red shale	2

Gas at 914 and 960 feet. Fresh water at 72 feet, sulphur water at 143 feet.

Oxford County

ALOKA OIL AND GAS CO., LTD.

C. C. Hawkins No. 1, lot 23, N.W. 1/4, con. XII

Dereham tp.

Completed September 13, 1935. Producing gas well. Rock pressure: 450 lbs.

	I lickuess,
Formation	ft.
Surface	166
Lime and shale	24
Brown and grey lime	110
Lime and shale	85
Flint	35
Brown and grey lime	65
Lime and shale	45
Shale and gypsum	160
Lime and shale	20
Brown lime	55
Shale	30
	45
Lime and shale	10
Brown lime	
Lime and shale	40
Guelph	15
-	
Total depth	905

Thickness

Aloka Oil, and Gas Co., Ltd. C. C. Hawkins No. 2, lot 23, con. XII, Dereham tp.

Completed December 6, 1935. Producing gas well. Rock pressure: 465 lbs.

Sulphur water at 166 feet.

Ca prosumer and a	Thickness
Formation	ft.
Surface	164
Lime and shale	21
Brown lime	55
Grey lime	45
Brown lime	15
Lime and shale	80
Flint	70
Brown lime	30
Lime and shale	50
Shale and gypsum	170
Lime and shale	55
Shale	30
Lime and shale	50
Brown lime	10
Lime and shale	45
Grey lime	27

Total depth.....

917

Gas at 900 to 915 feet. Sulphur water at 168 and 430 feet.

Welland County

HALDIMAND NATURAL GAS SYNDICATE W. Reinhart No. 1, lot 3, N. ½, con. II, N.R., Bertie tp.

Completed September 10, 1935. Producing gas well. Rock pressure: 75 lbs.

pressure. 10 ibs.	
	Thickness,
Formation	ft.
Surface	106
Salina	214
Guelph and Niagara	210
Rochester	100
Clinton	32
Red Medina	75
Manitoulin	10
White Medina	30
Queenston	
ent	
Total depth	822
4 710 1 700 t 4	

Gas at 712 and 760 feet. Fresh water at 35 feet.

WELLAND COUNTY GAS SYNDICATE
J. G. Morningstar No. 1, lot 16, con. VIII, N.R.,
Bertie tp.

Completed August 15, 1935. Dry hole.

•	Thickness.
Formation	ft.
Surface	16
Salina	210
Guelph and Niagara	. 220
Rochester	
Clinton	32
Red Medina	
Manitoulin	
White Medina	
Queenston	
Total depth	708

WESTERN ONTARIO NATURAL GAS CO., LTD.
J. Lampman No. 1, lot 38, con. VI, Wainfleet tp.
Completed September 3, 1935.
Producing gas well.
Rock pressure: 235 lbs.

-				Thickness,
Formation				ft.
Surface			. .	114
Lime and shale.	. 			
Niagara	. 			225
Shale		<i>.</i>		
Clinton				
Red Medina				
Grey shale				
White Medina.				17
Red shale	. .			24

WESTERN ONTARIO NATURAL GAS CO., LTD.
W. Ricker No. 1, lot 37, N. ½, con. VI,
Wainfleet tp.

Completed September 30, 1935. Dry hole.

y noie.	 Thickness,
Formation	ft.
Surface	 114
Lime and shale	 53
Niagara	 225
Shale	
Clinton	
Red Medina	
Grey shale	 52
White Medina	 17
Red shale	

WESTERN ONTARIO NATURAL GAS OP. Shefley No. 1, lot 39, con. V, Wair Completed August 10, 1935.		Formation—Continued Manitoulin and White Medina Queenston	52 6
Producing gas well.		Total depth	709
Rock pressure: 235 lbs.	Mt. L. L		.00
Formation	Thickness, ft.	Fresh water at 40 feet.	
Surface			
Lime and shale			
Niagara	. 225	W	
Shale		Wentworth County	
Clinton		A. 4. **	
Red Medina	. 45	C. A. HEWITT	
Grey shale	. 53	C. A. Hewitt No. 1, lot 31, con. IX, Binh	rook tp.
White Medina	. 17	Completed October 25, 1935.	
Red shale	. 10	Producing gas well.	
		Rock pressure: 70 lbs.	
Total depth	. 640		Thickness,
Gas at 616 and 638 feet.		Formation	ft. 47
Fresh water at 122 feet; salt water at 21	5 feet.	Surface	47
		Lime and gypsum	. 12
		Niagara lime	243
		Shale	30 28
MINING CLAIMS MART		Clinton	
G. Ortt No. 1, lot 1, con. IV, Willou	ighby tp.	Red Medina	43 60
Completed June 22, 1935.		Blue shale	12
Producing gas well.		White Medina	40
Rock pressure: 165 lbs.		Red shale	
	Thickness,	Total depth	515
Formation	ft.		
Surface	. 50	Gas at 470 feet. Fresh water at 50 feet.	
Lime and shale	. 163	Fresh water at 50 feet.	
Niagara	. 215		
Shale	. 60		
Clinton	. 36	SHAVING OUT AND CAS CO. I TO	
Red Medina		SECURITY OIL AND GAS CO., LTD.	
Shale		Logan No. 1, lot 15, con. VIII, Glanfo	rd tp.
White Medina		Completed August 14, 1935.	
Red shale		Producing gas well.	
Total depth	. 683	Rock pressure: 50 lbs.	
	. 000		Chickness,
Gas at 548 feet. Fresh water at 60 feet.		Formation	ft.
		a •	EE
Piesn water at oo leet.		Surface	55
Tresh water at 50 reet.		Lime and shale	55 25
		Lime and shale	55 25 228
		Lime and shale Niagara	55 25 228 48
F. A. Schwegler	N: D	Lime and shale	55 25 228 48 22
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F.	., N.R.,	Lime and shale. Niagara. Lime and shale. Clinton Blue shale.	55 25 228 48
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp.	, N.R.,	Lime and shale Niagara Lime and shale Clinton Blue shale Red Medina	55 25 228 48 22 24
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935.	., N.R.,	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale.	55 25 228 48 22 24
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp.		Lime and shale Niagara Lime and shale Clinton Blue shale Red Medina Shale White Medina	55 25 228 48 22 24 10
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole.	Thickness,	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale.	55 25 228 48 22 24 10 26 14 48
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation	Thickness, ft.	Lime and shale Niagara Lime and shale Clinton Blue shale Red Medina Shale White Medina	55 25 228 48 22 24 10 26 14
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface.	Thickness, ft. . 22	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. — Total depth.	55 25 228 48 22 24 10 26 14 48
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. — Total depth.	55 228 48 22 24 10 26 14 48 500
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina Guelph and Niagara. Rochester Clinton Red Medina	Thickness, ft. 22 . 191 . 210 . 97 . 32	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin.	Thickness, ft. 22 191 210 97 32 70	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2:	55 25 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin.	Thickness, ft. 22 191 210 97 32 70	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2:	55 25 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface. Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina.	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 25 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina. Total depth.	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Cas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935.	55 25 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface. Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina.	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well.	55 25 228 48 22 24 10 26 14 48 500
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina. Total depth.	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs.	55 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina. Total depth.	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs.	55 25 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 20	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs.	55 25 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface. Salina. Guelph and Niagara. Rochester. Clinton. Red Medina. Manitoulin. White Medina. Total depth Fresh water at 35 feet. F. A. SCHWEGLER	Thickness. ft. 22 191 210 210 32 70 20 23	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfe Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale.	55 25 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness. ft. 22 191 210 210 32 70 20 23	Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface	55 25 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness. ft. 22 191 210 210 32 70 20 23	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale.	55 25 228 48 22 24 10 26 14 48 500 21 feet.
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness. ft. 22 191 210 210 32 70 20 23	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara. Lime and shale. Clinton.	55 228 48 22 24 10 26 14 48 500 21 feet.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness. ft. 22 191 210 210 32 70 20 23	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanford Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale. Clinton. Blue shale.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Chickness, ft. 45 228 48 24
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 20 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Ord tp.
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 20 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Chickness, ft. 45 35 228 48 24 24 10 27
F. A. Schwegler F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 20 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Chickness, ft. 45 228 48 24 24 10 27 15
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina Guelph and Niagara. Rochester Clinton Red Medina Manitoulin White Medina Total depth. Fresh water at 35 feet. F. A. Schwegler No. 2, lot 15, B.F. Willoughby tp. Completed July 20, 1935. Dry hole. Formation Surface Salina	Thickness. ft. 22 191 210 97 32 70 20 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Chickness, ft. 45 35 228 48 24 24 10 27
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 20 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 228 48 222 24 10 26 14 48 500 21 feet. ord tp. Chickness, ft. 45 35 228 24 24 20 27 15 48
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface Salina Guelph and Niagara. Rochester Clinton Red Medina Manitoulin White Medina Total depth. Fresh water at 35 feet. F. A. Schwegler No. 2, lot 15, B.F. Willoughby tp. Completed July 20, 1935. Dry hole. Formation Surface Salina Guelph and Niagara. Rochester	Thickness. ft. 22 191 210 210 32 70 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale. Total depth.	55 25 228 48 22 24 10 26 14 48 500 21 feet. Chickness, ft. 45 228 48 24 24 10 27 15
F. A. SCHWEGLER F. A. Schwegler No. 1, lot 15, B.F. Willoughby tp. Completed June 4, 1935. Dry hole. Formation Surface	Thickness, ft. 22 191 210 97 32 70 23 665	Lime and shale. Niagara Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina. Red shale. Total depth. Gas at 446 feet. Fresh water at 60 feet; sulphur water at 2: SECURITY OIL AND GAS CO., LTD. Logan No. 2, lot 15, con. VIII, Glanfo Completed September 10, 1935. Producing gas well. Rock pressure: 50 lbs. Formation Surface. Lime and shale. Niagara. Lime and shale. Clinton. Blue shale. Red Medina. Shale. White Medina Red shale.	55 25 228 48 222 24 10 26 14 48 500 21 feet. Ord tp. Ord tp.

PETROLEUM IN 1935

By R. B. Harkness

General

The year 1935 is the fifth consecutive year of increase in crude oil production in Ontario. The total increase over the lowest year (1930) is 32 per cent., and there has been only one new discovery. The production for 1935 is 165,040 barrels, an increase of 23,655 barrels over 1934. To equal this year's production it is necessary to go back fourteen years, at which time there were 1,400 more producing wells than at present, the price for oil at the refinery was \$2.67, and the Dominion Government paid a bounty of $52\frac{1}{2}$ cents per barrel, a total of $1.09\frac{1}{2}$ above to-day's prices.

The greatest increase is in the Bothwell field where, without increasing the production area but simply by opening old wells shut down and abandoned possibly thirty years ago, the production has been brought back to the level of 1911-12. Two new fields have been brought into production since these years, the Dover and the Dawn; but the chief increase came in the old fields that had been in operation from fifty to seventy years.

Undoubtedly the psychological effect of falling price was one of the main reasons for the annual decline in production. In 1921 the price of steel pipe was at its peak and the price of oil had dropped about \$1.25 per barrel; operators felt that they could not afford to buy new pipe and fittings at such prices in the face of a falling market. The fields were very old, and on the basis of the history of all oil fields seemed due for abandonment. Old wells had been patched up by using equipment from still older wells, and naturally water troubles increased; it required all the knowledge and courage of the then Inspector of Oil Wells, John Scott, to ferret out the source of the many troubles and insist on repairs This was made more difficult on account of the many absentee being made. owners. However, he and the more courageous operators kept the fields alive; those who lost courage sold out to others. Many of these purchasers were young men who had returned after having had a world-wide experience, and who applied their knowledge to good effect. About this time the electric motor superseded the gasoline and natural gas engine. The old-type gas engine was subject to many troubles both night and day, and particularly in winter, whereas the electric motor is dependable at all times. As the price of steel pipe declined, replacements increased. It had been practically a universal practice to pump groups of wells on a property into one central tank; the new operators who measured individual wells discovered that many were not producing enough oil to pay for the cost of pumping; these were abandoned. No doubt as this practice increases, many more unprofitable wells will be abandoned.

Following the success obtained in the Michigan oil fields of pumping hydrochloric acid into oil wells where the oil horizon was limestone and thereby enlarging the many channels by which the oil reached the bottom of the well, some tests of this method were made in Petrolia and Oil Springs but without complete success, chiefly owing to the faulty equipment, particularly casing packers, which are mostly "home-made" and designed to resist pressure only from above. These failed to retain the pressure exerted on the acid, and it was found impossible to force the acid into the rock. Some benefit resulted in the thorough cleaning of the limestone walls of the well, much of the accumulated paraffin, scale, and other sediment always present in old oil wells being removed.

The work mentioned in last year's report¹ of cleaning out and recasing, and in some cases redrilling, old wells in the Bothwell field was continued in 1935 with remarkable success. Practically the whole area, which was opened up after the discovery of oil on the Thames by Lick in 1865 but which has lain idle for many years, has been treated in this manner.

Activity in Brooke township has ceased, following the disappointing results from the wells, which had a high initial production. From a total of 36 wells, representing an estimated investment of \$50,000 in wells and equipment, a total of 2,063 barrels of oil was produced, having a value of \$4,371.

Activity in the Dover field extended across the Thames river into Raleigh township, where a well was drilled that had an initial production of 20 barrels per day. This well has a very small quantity of gas, which is not sufficient to make the oil flow to the surface. Although the well is in Raleigh township, it has been included in the Dover field, since it is actually an extension of that field and not of the old Raleigh field, which lies six miles to the south. This well and two others produced over 13,000 barrels.

Not all of the Dawn oil wells are operated continuously; some of them produce gas as well as oil, and the oil production for the year depends on the continuity of operation. The increase and decrease in annual production does not in any way indicate additional producing wells or failure of the present wells.

Fourteen drilling rigs, described as "shallow-well rigs," were in use during the year, representing a capital investment of \$30,200. These drilled a total footage of 29,612 feet. The employees numbered 23, and they received \$11,950 in wages. These figures are included in the totals for the crude petroleum industry shown at the bottom of Table I.

							1000	
Field	1928	1929	1930	1931	1932	1933	1934	1935
Detection 175	bbls.	bbls.	bbls.	bbls.	bbls.	bbls.	bbls.	bbls.
Petrolia and Ennis-		F0.004			l	1		
killen	60,547	56,284	55,130	57,515	58,871	57,298	57,938	59,282
Oil Springs	35,653	30,737	29,160	30,792	31,438	31,343	29,863	31,646
Moore tp	2,148	1,230	1,576	3,739	3,272	2,192	2,963	3,263
Sarnia tp	1,221	749	1,149	1,466	1,227	2.181	825	870
Plympton tp		315	296	296	274	211	202	237
Bothwell	24,255	23,236	21,176	18,024	19,460	22,935	32,133	34,715
Tilbury East tp	736	138	149	l	1			01,110
Dover tp	773	715	457	891	453	763	558	13,117
Raleigh tp			<i>.</i>			239	264	195
Onondaga tp	186	243	231	34	543	946	601	431
Mosa tp		6,851	7,166	8.517	8,429	8.168	9.031	8,788
Thamesville	1,006	427	447	462	534	847	614	
Euphemia tp				121	496	510	189	428
Dunwich tp		148	365	507	285	346	283	(1)
Brooke tp					200	940		408
Dawn tp		-			5.061	8.079	1,941	122
					3,001	0,079	3,980	11,538
Total	134,164	121.125	117,302	122,364	130,343	126.050	141 205	105.040
Value	\$249,981					136,058	141,385	165,040
Average price	\$1.86	\$2.09	\$2.00	\$1.80			\$299,874	
riverage price.	Ф1.00	₩2.09	ΦΔ.00	⊕T.90	\$ 1.89	\$1.86	\$ 2.12	\$ 2.10

TABLE I—OIL PRODUCED IN ONTARIO BY FIELDS, 1927–1935

The capital employed in producing crude petroleum is \$1,040,436; the number of employees, 221; and the wages paid, \$127,862. This information is furnished by the Dominion Bureau of Statistics, Ottawa.

¹Included in Dawn township.

¹Ont. Dept. Mines, Vol. XLIV, pt. 5, 1935, p. 67.

TABLE II-OIL WELLS AND THEIR PRODUCTION, 1935

Field	Not	1					Gain or loss in 1935	
Oper ating	oner	Aban- doned	Pro- duc- ing	Dry	Produc	tion ¹	Gain	Loss
Petrolia and Enniskillen. 736 Oil Springs 876 Moore tp. 55 Sarnia tp. 72 Bothwell 222 Bothwell 222 Dover tp. 25 Raleigh tp. 1 Onondaga 15 Mosa 88 Thamesville 22 Euphemia and Dawn tps. 15 Dunwich tp. 35 Brooke tp. 36 Tilbury East tp. 36 Bosanquet tp. 36 Nottawasaga tp. 37 Other fields 2,106	148 39 31 8 70 6 23 31 41 22 112 96 11 1	7		3 3 9 1	bbls. 59,281 31,646 3,263 870 236 34,714 13,117 195 430 8,787 428 11,537 408 122	1	bbls. 1,344 1,784 301 45 35 2,582 12,559 7,368 125 26,143 Net gair	69 170 243 186

Petroleum Refining

Seven petroleum refineries were in operation in Ontario in 1935, as listed below:-

PETROLEUM REFINERIES, 1935

Company	Location of refinery	Head office address
British American Oil Co., Ltd Burlington Refineries, Ltd Canadian Oil Companies, Ltd Goodrich Refining Co., Ltd. Imperial Oil Refineries, Ltd Lloyds Refinery McColl-Frontenac Oil Co., Ltd	Burlington St. E., Hamilton Petrolia	70 Brant St., Hamilton. 12 Strachan Ave., Toronto. 3509 Danforth Ave., Toronto Sarnia. Port Credit.

The total capacity of these refineries is 39,900 barrels.

A comparison of refining operations over a 6-year period is given in Table III. The figures in this table, together with those in Table IV, represent the consumption of petroleum products in Ontario, as nearly as it can be arrived at. Along the eastern and western boundaries of Ontario, there is some interprovincial trade, viz. imports from Montreal and exports to Manitoba. It is not known where the balance of trade lies, but it will not be sufficient to seriously affect the total.

¹Production figures from the Imperial Oil Company.

²Two in Metcalfe, 1 in Mono, 1 in Nassagaweya, 2 in Warwick, 1 in Gloucester, and 1 in the city of Chatham.

A comparison of the past five years shows that conditions are gradually coming back towards the peak years of 1930 and 1931. The increase in the production of cracked gasoline is very marked.

TABLE III—PETROLEUM REFINING OPERATIONS, 1930-19351

	1						
Schedule	Unit of measure	1930	1931	1932	1933	1934	1935
Imported crude distilled	Gallons ² Value	343,372,124 \$23,273,547	364,871,253 \$17,035,028	327,524,704 \$19,197,691	314,058,338 \$14,904,715	307,717,332 \$16,110,251	331,461,390 \$16,624,472
Imported crude oil distilled not in its natural state	Gallons Value			1,669,675 \$51,092			1,629,805 \$140,091
Canadian crude distilled	Gallons Value			4,704,609 \$290,752			
Percentage of total							
Total value of crude		\$ 23,537,555	\$17,296,362	\$ 19,539,535	\$16,170,917	\$18,109,082	\$17,172,929
PRODUCTS Gasoline: Straight run	Gallons Selling value	97,806,121 \$12,334,586	95,934,920 \$9,886,611	61,297,731 \$6,378,577	89,429,293 \$ 7,793,607		85,698,897 \$ 6,439,916
By cracking process	Gallons Selling value	84,496,056 \$ 11,066,369	100,120,768 \$10,544,926	109,519,770 \$10,673,010	70,519,864 \$5,736,708	71,949,582	93,901,122
Kerosene	Gallons Selling value	17,973,730 \$1,980,546				14,208,236 \$1,109,504	10,424,545 \$814,344
Lubricating oil	Gallons Selling value	16,451,717 \$2,756,579	13,963,545 \$2,445,410		16,299,872 \$ 2,854,787	17,638,490 \$3,695,083	16,785,539 \$3,342,280
Engine distillate and naphtha	Gallons Selling value			6,098,784 \$573,585	8,384,517 \$490,728	6,636,041 \$340,237	\$12,570,944 \$736,449
Gas oil	Gallons Selling value	80.742.218	101,370,904	85,233,170	(37,860,532 \$1,874,878		
Fuel oils	Gallons Selling value	\$3,792,757	\$3,627,041	\$3,550,598	{ 55,394,540 \$ 2,112,522		55,133,960 \$ 2,416,004
Tar	Gallons Selling value	101,750 \$8,140	902,000 \$ 9,020			130,641 \$49,977	12,132,400 \$48,529
Grease	Pounds Selling value	13,468,964 \$268,509		8,751,758 \$ 492,339	8,342,446 \$357,316	8,571,927 \$509,271	9,898,844 \$459,595
Paraffin wax and candles	Pounds Selling value	10,153,924 \$453,601	10,097,478 \$368,686	9,196,156 \$417,386	8,978,068 \$355,323	10,656,115 \$476,928	11,237,665 \$434,921
Petroleum coke	Short tons Value	56,946 \$ 316,180	54,223 \$285,051	62,836 \$328,067	62,601 \$344,686	49,011 \$ 268,821	53,845 \$320,004
Still gas	M cu. ft Value	1,551,334 \$421,500	2,128,739 \$505,156		1,574,451 \$306,984	1,498,379 \$ 281,524	2,122,091 \$468,765
Asphalt	Gallons Selling value	6,029,624 \$285,460	8,778,452 \$318,005		6,494,707 \$524,532	7,946,775 \$712,468	6,977,781 \$600,229
Miscellaneous	Value	\$291,404	\$219,900	\$222,545	\$50,498	\$56,971	\$95,350
Total value of refined products		\$34 ,479,837	\$ 30,106,166	\$28,814,438	\$24,824,977	\$ 23,998,621	\$24,664,342
Employees	Average No.	2,449	1,984	1,937	2,036	2,047	2,012
Capital invested	Wages paid.	\$26,761,273	\$25,282,459	\$25,732,687	\$2,752,718 \$22,947,812	\$2,637,213 \$23,579,481	\$2,970,360 \$21,367,847

¹Information furnished by the Dominion Bureau of Statistics, Ottawa. ²Gallons refer to Imperial gallons. ³Of this, 8,567,840 Imperial gallons, valued at \$452,774, was sold as engine and tractor fuel.

Petroleum Imported into Ontario

Table IV gives a comparative statement of imports of crude and refined petroleum for the past two years. There is a 13 per cent. gain in the crude petroleum imported and a 20 per cent. loss in gallonage of refined petroleum This loss is distributed through all products except lubricating oil, which shows an increase. A comparison of this table with Table II shows a healthy growth in the refining industry in Ontario.

TABLE IV—PETROLEUM AND REFINED PRODUCTS IMPORTED IN 1934 AND 1935

	19	34	19	1935		
Import	Imperial gallons	Value	Imperial gallons	Value		
CRUDE PETROLEUM: Petroleum, 0.790 specific gravity or heavier, for refining	244,801,477	\$ 7,498,528	281,043,063	\$8,747,729		
REFINED PETROLEUM: For use in concentrating ores Gasoline lighter than 0.669 specific	12,580	\$7,108	11,699	\$ 7,229		
gravity (casing head)	5,973,610	259,232	3,486,281	195,037		
Gasoline lighter than 0.8235 specific gravity	4,400,803	358,682	2,981,688	257,556		
specific gravity	114,807 1,027,834	6,680 58,162	6,522 651,106	446 40,903		
heavier	1,294,661	64,805	887,666	53,941		
Engine distillate lighter than 0.8235 specific gravity Lubricating oils, consisting wholly or in part of petroleum, costing less	17,014	1,531	39,236	3,368		
than 25 cents a gallon	3,244,580	446,492	5,024,000	684,371		
Lubricating oils, all other	1,539,299 237,401	545,508 67,412	1,228,315 362,654	509,367 79,864		
Total	17,862,598	\$1,815,612	14,679,167	\$1,832,082		
PETROLEUM PRODUCTS: Axle greaselbs. Vaseline, toilet and medicinal petro-	2,020,461	\$85,122	2,414,844	\$104,275		
leum	682,259	$128,501 \\ 37,779$	867,461	134,296 40.300		
Paraffin wax candles	104,939	21,525	137,442	25,026		
0.8235 specific gravitygals.	1,631,722	120,936	1,408,600	118,808		
Total		\$393,863		\$422,705		
Total value		\$9,708,003		\$11,002,516		
Total net value of petroleum and refined products imported ¹	\$9,70	8,003	\$11,002,516			
the existing tariff schedule	47 61	4,213 0,933 5,000	68	2,703 9,513 0,000		
Total value delivered in Ontario	\$ 11,59	8,149	\$13,05	4,732		

¹These statistics are furnished through the courtesy of the Department of Customs and Excise.

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