



Terraprobe

Consulting Geotechnical & Environmental Engineering
Construction Materials Inspection & Testing

**WELL ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
HOME FARM
GREY ROAD 19 AT HELEN STREET
TOWN OF THE BLUE MOUNTAINS, ONTARIO**

Prepared for: MacPherson Builders (Blue Mountains) Limited
40 West Wilmot Street, Unit 6
Richmond Hill, Ontario
L4B 1H8

Attention: Mr. Russell Higgins

**File No. 33-15-2012
March 25, 2015
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Distribution:

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Figure 1: Site Location Plan

Figure 2: Door to Door Well Survey Location Plan

Table 1: Summary of Door to Door Well Survey

Appendix A: MOECC Well Records

1.0. INTRODUCTION

Terraprobe is pleased to present the results of our well record assessment for a proposed residential development. Authorization to carry out this assessment was provided by Mr. Russell Higgins of MacPherson Builders (Blue Mountains) Limited on March 2, 2015.

The purpose of the assessment was to advance the understanding of the well users in the area via a MOECC well record review.

The site is located on the east side of Grey Road 19, primarily north of Helen Street, in the Town of the Blue Mountains, Ontario.

It is proposed to proceed with design and construction of full municipal services and internal streets associated with a residential development.

The property is currently vacant, land for the most part mostly overgrown with areas of trees and brush. The site generally falls in grade by about 20m from the southwest to northeast (ie: elevation 228 to 208m) on the upper plateau. Further to the east, grades fall significantly ($\pm 15\text{m}$) along a natural ridge.

2.0 SCOPE OF WORK AND METHODOLOGY

Terraprobe completed a site visit, a Door to Door Well Survey, geologic mapping reviews and well record reviews.

This well record assessment of the subject lands is prepared to address the intent of the above as it relates to the proposed development.

2.1 Door to Door Well Survey

A door to door well survey was conducted for residents surrounding the subject lands to document existing wells and flag potential constraints or concerns. Please see Figure 2 for Door to Door Well Survey.

2.2 Review Available Geologic Mapping

Terraprobe reviewed available geologic mapping which included “The Physiography of Ontario, 3rd Edition” by L.J. Chapman and D.F. Putnam.



2.3 Review of Moe Well Records

Terraprobe obtained and reviewed MOE Well Records for the immediate area to provide a regional look at groundwater supplies and geologic features.

3.0 GEOLOGY, PHYSIOGRAPHY AND REGIONAL HYDROGEOLOGY

The site is located on the east side of Grey County Road 19, just north of Helen Street, in the Town of the Blue Mountains, Ontario (see Figure 1 & 2).

It is proposed to proceed with design and construction of full municipal services and internal streets associated with a residential subdivision development.

The property is currently treed and overgrown, agricultural land for the most part. The site generally falls in grade by about 20m from the southwest to northeast with a bluff cutting diagonally across the site.

Two (2) blocks of land dedicated for the Stormwater Management Ponds (SWMP) are located in the south and central parts of the property, near existing valley drainage courses. A sewage pumping station is proposed in the central part of the site on the upper plateau.

The subject lands are located within the Niagara Escarpment physiographic region. It is assumed the shallow groundwater approximately mirrors surface topography and flows in a northerly direction towards Nottawasaga Bay.

In review of Chapman and Putnam Physiography of Southwestern Ontario, the property is located on the southern shores of Nottawasaga Bay, west of Collingwood in the geological region referred to as the Niagara Escarpment.

Specifically, the Quaternary Geology Mapping by Chapman and Putnam indicates that this site is characterized by glaciolacustrine deposits of sand, gravelly sand and gravel; nearshore and beach deposits.

Previous investigations conducted by Terraprobe provide the following:



In general, previously advanced boreholes encountered about 0 to 600mm of topsoil and/or organic stained sand. Some variance in layering was observed across the site, especially with respect to occasional sand and clayey silt layers. The native soils were primarily sandy silt glacial till with some clay and trace to some gravel (see attached grain size analyses). Frequent cobbles and boulders were also present causing difficult augering and excavating conditions.

The property is currently vacant, land for the most part mostly overgrown with areas of trees and brush. The site generally falls in grade by about 20m from the southwest to northeast (ie: elevation 228 to 208m) on the upper plateau. Further to the east, grades fall significantly (± 15 m) along a natural ridge.

Shale to limestone bedrock was confirmed during our Borehole Investigation (reported under separate cover), below elevation 186.1m.

4.0 DISCUSSION AND ANALYSIS

4.1 MOECC Well Record Review

As part of this assessment, Terraprobe received local MOECC well records. Twelve (12) MOECC well records were selected and provide the following.

The well records reviewed indicate that the existing private water wells draw water from either a series of unconfined/confined sand and gravel aquifers or limestone/shale bedrock aquifers. Most local wells are small diameter (100mm to 150mm) drilled wells generally completed to depths greater than 8m.

The local wells yield sufficient supply for domestic purposes. The wells are typically tested at rates of 1 - 10 gpm.

Some wells are noted to be dry and/or small supply of water and poor quality.

We note that some of these well records date back to the 1960's and it appears the majority of surrounding residences are connected to municipally supplied water.



4.2 Door-To-Door Well Survey

In conjunction with this study, a private door-to-door well survey was conducted by an environmental technician from Terraprobe. On March 5, 2015 the existing residences along County Road 19, Helen Street, Venture Boulevard, Craigmere Crescent, Tyrolean Lane and Birch View Trail, within approximately 300m of the subject lands, were visited and information regarding their water supplies was ascertained from the owners. The results are summarized in Table 1. Please see Figure 2 for Door-to-Door Well Survey Location Plan.

The information obtained suggested that the surrounding residences are connected to municipally supplied water.

5.0 SUMMARY AND CONCLUSIONS

Based on our review, it appears that the majority of the surrounding residences are connected to municipally supplied water and that the majority of the well records reviewed may no longer be applicable. This would suggest minimal adverse effect to neighbouring water supplies from the proposed subdivision development.

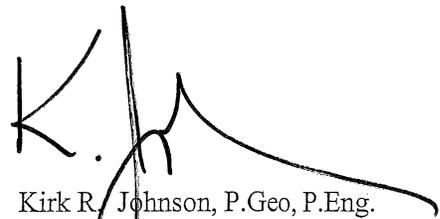
We trust this report is adequate for your present requirements. If you should have any questions, or need any further assistance, please do not hesitate to contact the undersigned.

Sincerely,

Terraprobe Inc.

Jessika O. Heinemann, B.E.S

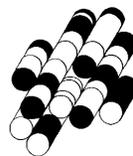
JOH/ct
Barrie Office


Kirk R. Johnson, P. Geo, P. Eng.
Associate





FIGURES



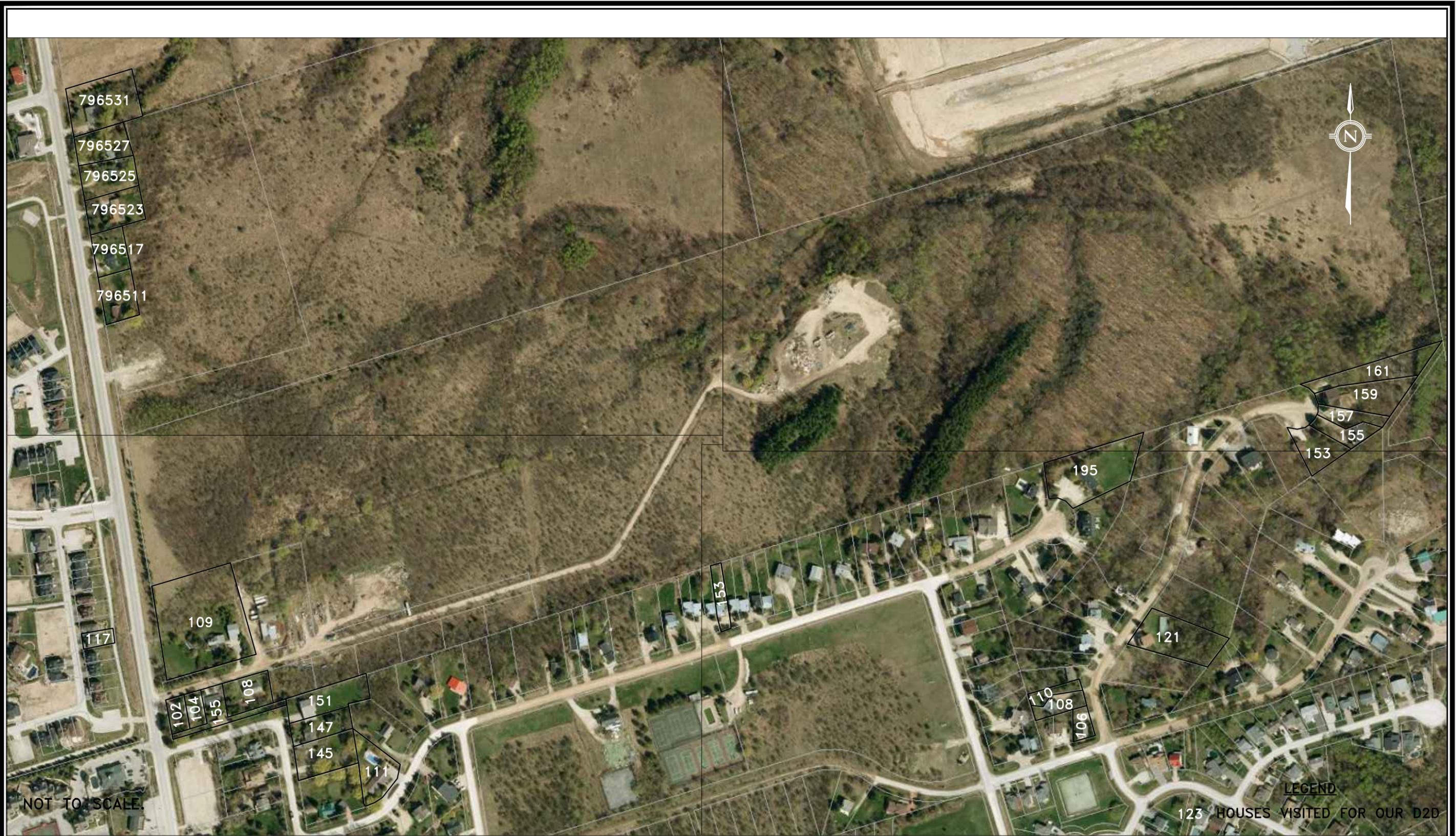
Terraprobe Inc.



MARCH 2015

SITE LOCATION PLAN

33-15-2012

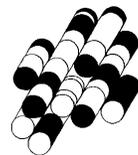


MARCH 2015

DOOR TO DOOR WELL SURVEY LOCATION

33-15-2012

TABLE



Terraprobe Inc.

Table 1
Summary of Door to Door Well Survey
Town of Blue Mountain, Ontario

Municipal Address	Well Construction	Depth of Well (m)	Water Depth(m) / Date	Comments
County Rd. 19				
796531				<i>March 5/15 - Owner not home.</i>
796527				<i>March 5/15 - Owner not home.</i>
796525				<i>March 5/15 - Owner confirm use municipal water and every house connect to municipal water on this street.</i>
796523				<i>March 5/15 - Owner not home.</i>
796517				<i>March 5/15 - Owner not home.</i>
796511				<i>March 5/15 - Owner not home.</i>
Helen St.				
102				<i>March 5/15 - Owner not home.</i>
104				<i>March 5/15 - Owner not home.</i>
109				<i>March 5/15 - Owner confirm use municipal water. 30 years ago used dug well but not any more.</i>
108				<i>March 5/15 - Owner not home.</i>

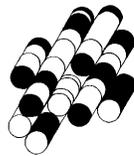
Table 1
Summary of Door to Door Well Survey
Town of Blue Mountain, Ontario

Venture Boulevard				
117				<i>March 5/15 - Owner confirm use municipal water all on resort. (New Blue Mountain resort subdivision area).</i>
Craigmore Crescent				
145				<i>March 5/15 - Owner not home.</i>
147				<i>March 5/15 - Owner not home.</i>
151				<i>March 5/15 - Owner not home.</i>
155				<i>March 5/15 - Owner not home.</i>
Tyrolean Ln.				
111				<i>March 5/15 - Owner confirm all neighbour use municipal water and sewer. Most of house is rental property.</i>
153				<i>March 5/15 - Owner not home.</i>
195				<i>March 5/15 - Owner confirm use municipal water.</i>
Birch View Trail				
106				<i>March 5/15 - Owner not home.</i>
108				<i>March 5/15 - Owner not home.</i>

Table 1
Summary of Door to Door Well Survey
Town of Blue Mountain, Ontario

110				<i>March 5/15 - Owner not home.</i>
121				<i>March 5/15 - Owner not home.</i>
153				<i>March 5/15 - Owner not home.</i>
155				<i>March 5/15 - Owner not home.</i>
157				<i>March 5/15 - Owner not home.</i>
159				<i>March 5/15 - Owner not home.</i>
161				<i>March 5/15 - Owner not home.</i>

APPENDIX A



Terraprobe Inc.

Water Well Record

County Grey Township, Village, Town or City COLLINGWOOD TWP.

..... (Town or City).....

BEECH ST. COLLINGWOOD, ONT.

Date Completed / / Cost of well (excluding pump).....

(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter <u>4"</u>	Date.....
Length of casing <u>63'</u>	Static level <u>not measured - very small supply</u>
Type of screen <u>✓</u>	Pumping level.....
Length of screen <u>✓</u>	Pumping rate <u>DRY</u>
Distance from top of screen to ground level <u>✓</u>	Duration of test.....
Is well a gravel-wall type? <u>✓</u>	Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral) <u>MINERAL</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <u>Hard Sulphur Sm</u>			
Appearance (clear, cloudy, coloured) <u>CLEAR</u>		<u>Very Small Supply</u>	
For what purpose(s) is the water to be used? <u>DOMESTIC</u>		<u>and low level</u>	
How far is well from possible source of contamination? <u>✓</u>			
What is the source of contamination? <u>✓</u>			
Enclose a copy of any mineral analysis that has been made of water <u>✓</u>			

Well Log

Overburden and Bedrock Record

From To

0 ft. ... ft.

FINE SAND

0 63'

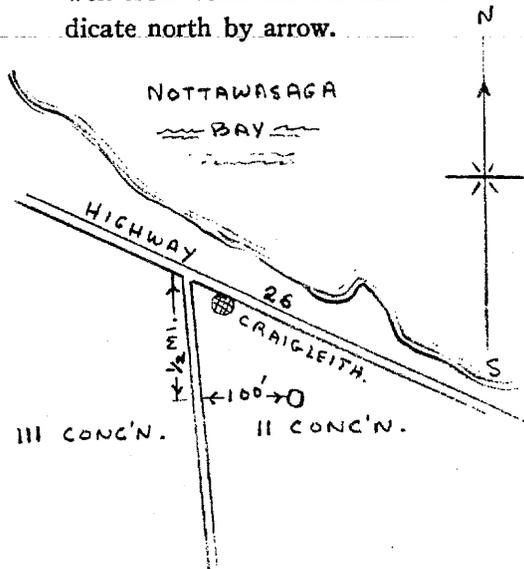
ROCK (LIMESTONE)

63 104'

DRY HOLE
(SMALL BAD SUPPLY OF WATER)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? UPLAND

Drilling Firm WRIGHT WELL WATER SUPPLY

Address 629-633 HURONTARIO ST. COLLINGWOOD, ONT.

R3 COLLINGWOOD

DAY 19 MO 11 YR 70

29980 4 0.605 5 2.2

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

Table with columns: GENERAL COLOUR, MOST COMMON MATERIAL, OTHER MATERIALS, GENERAL DESCRIPTION, DEPTH - FEET (FROM, TO). Handwritten entries: BROWN SAND, GREY SHALE, 0-6, 6-26.

31 0000009 0020217

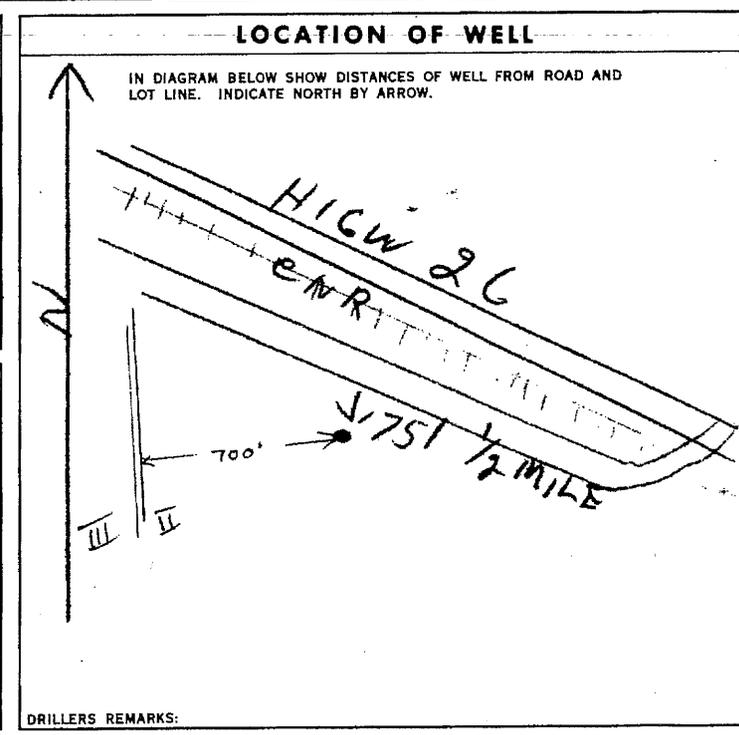
41 WATER RECORD. Includes fields for WATER FOUND AT - FEET, KIND OF WATER (FRESH, SALTY, SULPHUR, MINERAL), and various checkboxes.

51 CASING & OPEN HOLE RECORD. Includes fields for INSIDE DIAM. INCHES, MATERIAL (STEEL, GALVANIZED, CONCRETE, OPEN HOLE), WALL THICKNESS INCHES, and DEPTH - FEET (FROM, TO).

SCREEN. Includes fields for SIZE(S) OF OPENING (SLOT NO.), DIAMETER, LENGTH, MATERIAL AND TYPE, and DEPTH TO TOP OF SCREEN.

61 PLUGGING & SEALING RECORD. Includes fields for DEPTH SET AT - FEET (FROM, TO) and MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.).

71 PUMPING TEST. Includes fields for PUMPING TEST METHOD (PUMP, BAILER), PUMPING RATE (0002 2 1/2 GPM), DURATION OF PUMPING (01 HOURS, 30 MINS.), and WATER LEVELS DURING (014 FEET).



FINAL STATUS OF WELL, WATER USE, and METHOD OF DRILLING. Includes checkboxes for WATER SUPPLY, OBSERVATION WELL, TEST HOLE, RECHARGE WELL, DOMESTIC, STOCK, IRRIGATION, INDUSTRIAL, OTHER, CABLE TOOL, ROTARY (CONVENTIONAL), ROTARY (REVERSE), ROTARY (AIR), AIR PERCUSSION, BORING, DIAMOND, JETTING, DRIVING.

NAME OF WELL CONTRACTOR: LAWSON M SEWELL, LICENCE NUMBER: 4716, CONTRACTOR: 4716, DATE RECEIVED: 041270

WATER WELL RECORD

RESURVEYED A

County or District Grey

Township, Village, Town or City Thornburg

Date completed 20 Oct. 1960
(day month year)

Address LAN

Casing and Screen Record

Inside diameter of casing 8 1/2"
 Total length of casing 9'
 Type of screen —
 Length of screen —
 Depth to top of screen —
 Diameter of finished hole 6 1/2"

Pumping Test

Static level 40'
 Test-pumping rate 1 qt per min G.P.M.
 Pumping level —
 Duration of test pumping —
 Water clear or cloudy at end of test cloudy
 Recommended pumping rate do not G.P.M.
 with pumping level of regard continuous pumping

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
<u>Cumby layer shale</u>	<u>0</u>	<u>7</u>	<u>94-124</u>	<u>84'</u>	<u>salty</u>
<u>Brown rock</u>	<u>7</u>	<u>26</u>			
<u>gray rock</u>	<u>26</u>	<u>124</u>			

For what purpose(s) is the water to be used?
cottage

Is well on upland, in valley, or on hillside?
hillside

Drilling Firm Akronbic Jackson

Address Clarksburg Ont.

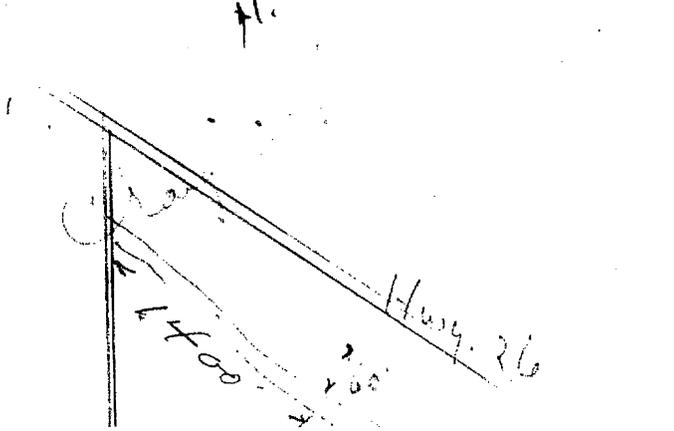
Licence Number

Name of Driller Carl Sauder

Address Thornburg

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



R3 COLTINGWOOD

DAY 15 MO 09 YR 76

29700 5 ELEVATION 0605 5 BASIN CODE 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	TOP SOIL			0	1
GREY	CLAY	STONES		1	4
BROWN	SHALE			4	21
GREY	LIMESTONE			21	56
		BASS AT 48'			

31	0001602	000420512	0021617	0056215
32				

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
15-18	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

SIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06 1/4	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	12		13-16
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	19		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	26		27-30

SCREEN

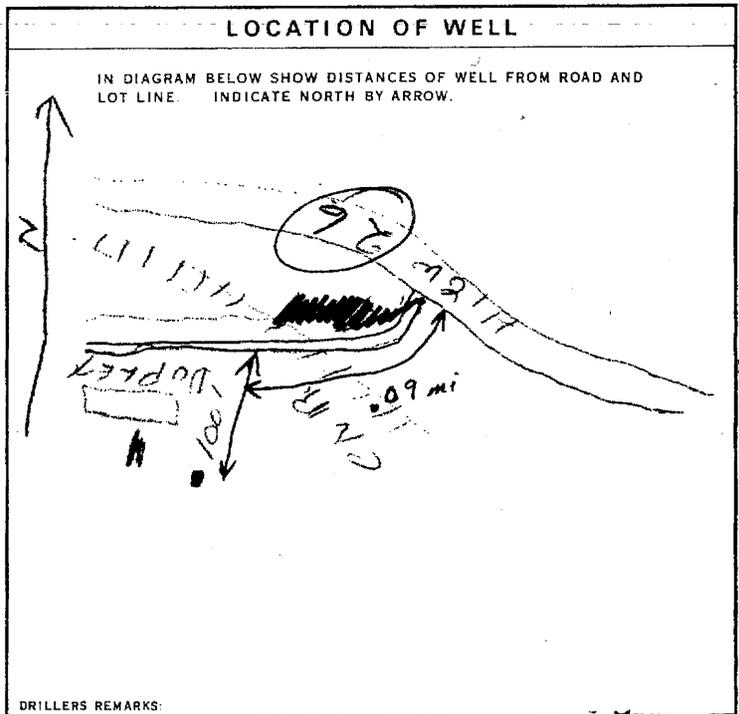
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	GPM	15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
19-21 FEET	22-24 FEET	15 MINUTES 26-28 FEET 30 MINUTES 29-31 FEET 45 MINUTES 32-34 FEET 60 MINUTES 35-37 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	FEET	GPM



FINAL STATUS OF WELL

54

1 <input type="checkbox"/> WATER SUPPLY	5 <input checked="" type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

WATER USE

55-56

1 <input type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input checked="" type="checkbox"/> NOT USED

METHOD OF DRILLING

57

1 <input checked="" type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION	

NAME OF WELL CONTRACTOR	LICENCE NUMBER	DATA SOURCE	CONTRACTOR	DATE RECEIVED
DAWSON M SEWELL	H716	1	4716	251176

UIM 1114 1354960
 4R 49 129 140
 17R 19ASTO
 W.S. Martinik
 for Plan sub 49



41990 WATER RESOURCES
 2502646
 JAN 7 1969

#2

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Grey Township, Village, Town or City Collingwood
 Con. 1 Lot 94 19 Date completed 4 12 68
 (day month year)
 Owner C.H. BRUNING-MACHINE-LMTD Address 1166 Dundas St. W
 (print in block letters) Toronto 3

Casing and Screen Record

Pumping Test

Inside diameter of casing 30 in
 Total length of casing 37 1/2
 Type of screen well tile
 Length of screen _____
 Depth to top of screen _____
 Diameter of finished hole 36

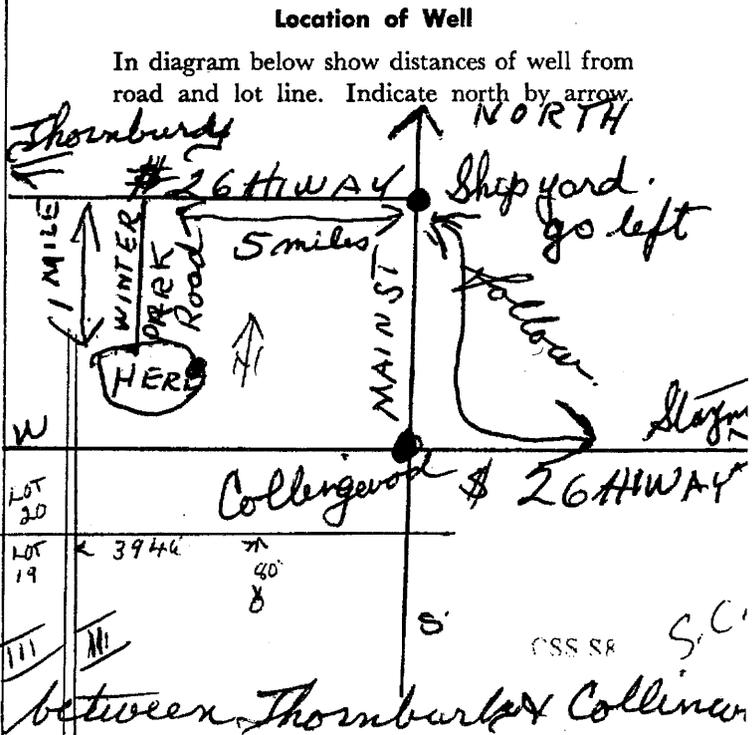
Static level 2.5 ft.
 Recovery rate 4 G.P.M.
 Test pumping rate _____
 Pumping level _____
 Duration of test pumping _____
 Water clear or cloudy at end of test clear
 Recommended pumping rate 2 G.P.M.
 with pump setting of 33 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>All sand.</u>	<u>0</u>	<u>3.5</u>	<u>2.5</u>	<u>fresh</u>

For what purpose(s) is the water to be used? House
 Is well on upland, in valley, or on hillside? upland
 Drilling or Boring Firm Roth
 Address Well Digging
RR#50N
Barrie Ont.
 Licence Number 128
 Name of Driller or Borer B. Roth
 Address Same
 Date Dec 31 1968
B. Roth
 (Signature of Licensed Drilling or Boring Contractor)



Form 7
 OWRC COPY

PLAN 824
 LOT 25

On Winter Park Road between Thornburg & Collingwood

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown Clay		very stony	hard large stones	0	20
Brown		hardpan		20	25
Brown Clay		Bole Boulders	hard & stony	25	30

31	002060512	0025104	00306051312																	
32																				

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-14	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
15-18	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input checked="" type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE		0	13-16
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		12 1/2	20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

SCREEN

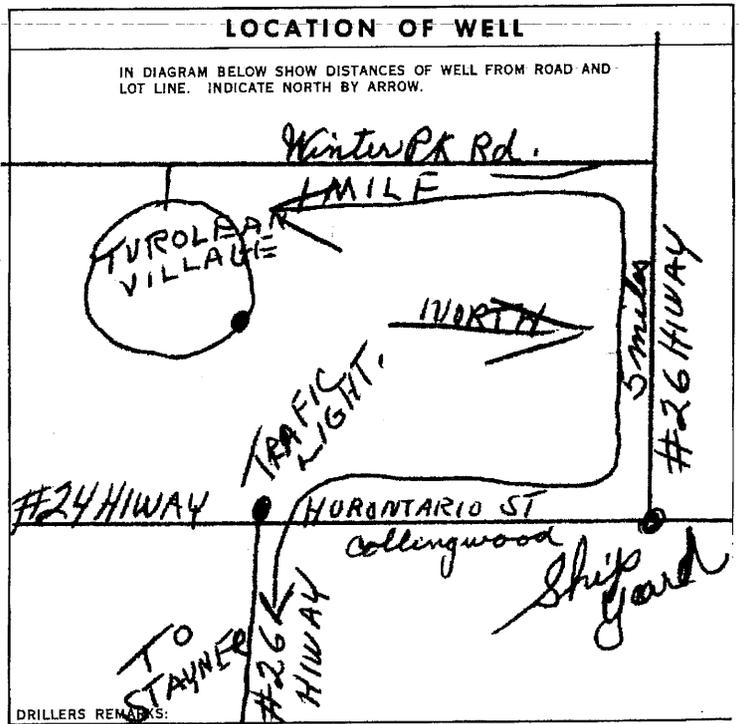
SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	31-33	39-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN FEET
		41-44

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> BAILER	PUMPING RATE GPM. 01	DURATION OF PUMPING HOURS 00 MINS. 00
WATER LEVEL END OF TEST 012 FEET	WATER LEVELS DURING 19-21: 036 FEET 22-24: 048 FEET 25-28: 021 FEET 29-31: 027 FEET 32-34: 027 FEET 35-37: 018 FEET	1 <input type="checkbox"/> PUMPING 2 <input checked="" type="checkbox"/> RECOVERY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 029 FEET	RECOMMENDED PUMPING RATE 0005 GPM.



FINAL STATUS OF WELL

WATER USE 01

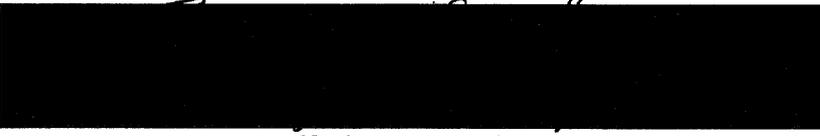
METHOD OF DRILLING

<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED, POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	
<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED
<input type="checkbox"/> CABLE TOOL	<input checked="" type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	

LOT 17

Water-Well Record

County or Territorial District Grey Township, Village, Town or City Collingwood



Village, Town or City
Address

(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>4"</u>	Static level
Length(s)	Pumping rate
Type of screen	Pumping level <u>Grey</u>
Length of screen	Duration of test

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
<u>Red clay</u>	<u>0</u>	<u>10</u>			
<u>Stony blue shale & blue clay</u>	<u>10</u>	<u>20</u>			
	<u>20</u>	<u>80</u>			

For what purpose(s) is the water to be used?
Cottage

Is water clear or cloudy? clear

Is well on upland, in valley, or on hillside?
upland

Drilling firm ABERCROMBIE & LEEKSON

Address

Name of Driller A. Gibray

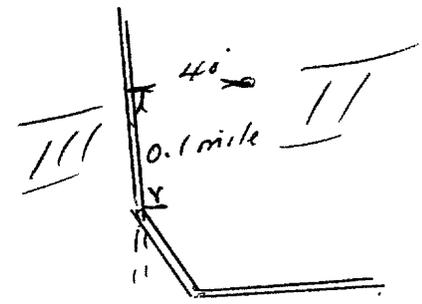
Address Clarksburg

Licence Number

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

N.



I certify that the foregoing statements of fact are true.

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Well record information

Full well record information. Contains information from the original well record and any subsequent updates.

Well record information:

Well ID

Well ID Number: 2503779

Well Audit Number:

Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	COLLINGWOOD TOWNSHIP
Lot	020
Concession	CON 02
County/District/Municipality	GREY
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 554364.20 Northing: 4929453.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FSND			0 ft	35 ft
GREY	CLAY	SAND		35 ft	55 ft
GREY	SHLE			55 ft	56 ft
BLCK	LMSN			56 ft	88 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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Method of Construction & Well Use

Method of Construction	Well Use
Cable Tool	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		56 ft
	OPEN HOLE		88 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
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Well Contractor and Well Technician Information

Well Contractor's Licence Number: 3602

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	4 GPM
Duration of Pumping	1 h:25 m
Final water level	75 ft
If flowing give rate	
Recommended pump depth	80 ft
Recommended pump rate	4 GPM
Well Production	BAILER
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	50 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15	75 ft	15	
20		20	
25		25	
30	75 ft	30	