



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

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Table 1: Summary of Door to Door Well Survey

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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.

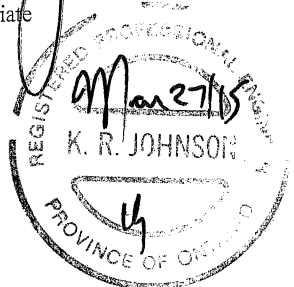
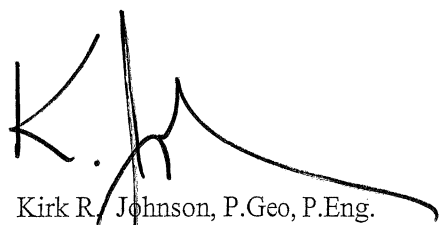
Sincerely,

Terraprobe Inc.

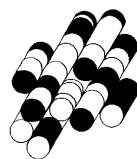
Jessika O. Heinemann, B.E.S

JOH/ct
Barrie Office

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



FIGURES



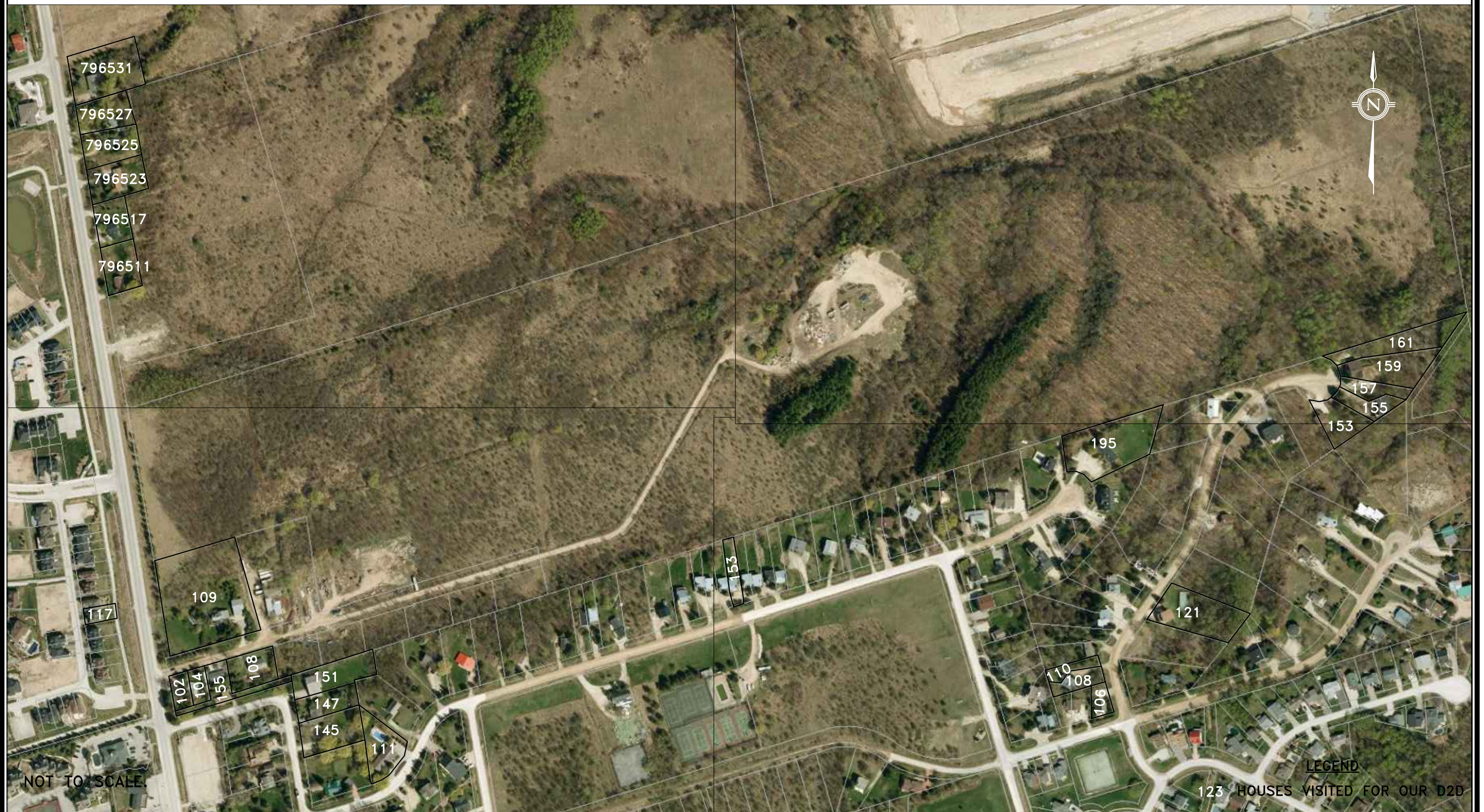
Terraprobe Inc.



MARCH 2015

SITE LOCATION PLAN

33-15-2012

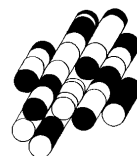


MARCH 2015

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				March 5/15 - Owner not home.
796527				March 5/15 - Owner not home.
796525				March 5/15 - Owner confirm use municipal water and every house connect to municipal water on this street.
796523				March 5/15 - Owner not home.
796517				March 5/15 - Owner not home.
796511				March 5/15 - Owner not home.
Helen St.				
102				March 5/15 - Owner not home.
104				March 5/15 - Owner not home.
109				March 5/15 - Owner confirm use municipal water. 30 years ago used dug well but not any more.
108				March 5/15 - Owner not home.

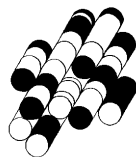
Table 1
Summary of Door to Door Well Survey
Town of Blue Mountain, Ontario

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

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



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Water Well Record

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

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>not supplied</u>			
Appearance (clear, cloudy, coloured) <u>CLEAR</u>			
For what purpose(s) is the water to be used? <u>DOMESTIC</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'

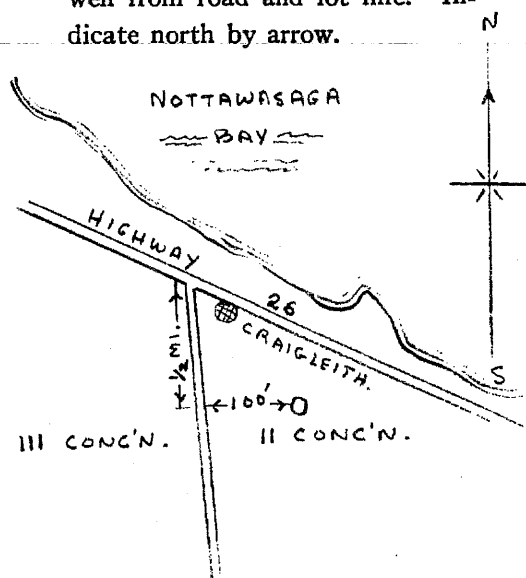
ROCK (LIMESTONE)

63 104'

DRY HOLE
(small supply of water)
BAD

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.

3132

61	PLUGGING & SEALING RECORD		
<input type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13 0	14-17 20	BENSEAL	
18-21	22-25		
26-29	30-33	80	

FINAL STATUS OF WELL			54
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		

WATER USE			55-56
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input checked="" type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		

METHOD OF CONSTRUCTION			57
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

[illegible]

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	80

<p>FINAL STATUS OF WELL</p>	<p>54</p> <p><input checked="" type="checkbox"/> 1 WATER SUPPLY</p> <p><input type="checkbox"/> 2 OBSERVATION WELL</p> <p><input type="checkbox"/> 3 TEST HOLE</p> <p><input type="checkbox"/> 4 RECHARGE WELL</p>	<p><input type="checkbox"/> 5 ABANDONED, INSUFFICIENT SUPPLY</p> <p><input type="checkbox"/> 6 ABANDONED, POOR QUALITY</p> <p><input type="checkbox"/> 7 UNFINISHED</p>
<p>WATER USE 01</p>	<p>55-56</p> <p><input checked="" type="checkbox"/> 1 DOMESTIC</p> <p><input type="checkbox"/> 2 STOCK</p> <p><input type="checkbox"/> 3 IRRIGATION</p> <p><input type="checkbox"/> 4 INDUSTRIAL</p> <p><input type="checkbox"/> OTHER _____</p>	<p><input type="checkbox"/> 5 COMMERCIAL</p> <p><input type="checkbox"/> 6 MUNICIPAL</p> <p><input type="checkbox"/> 7 PUBLIC SUPPLY</p> <p><input type="checkbox"/> 8 COOLING OR AIR CONDITIONING</p> <p>9 <input type="checkbox"/> NOT USED</p>
<p>METHOD OF DRILLING</p>	<p>57</p> <p><input checked="" type="checkbox"/> 1 CABLE TOOL</p> <p><input type="checkbox"/> 2 ROTARY (CONVENTIONAL)</p> <p><input type="checkbox"/> 3 ROTARY (REVERSE)</p> <p><input type="checkbox"/> 4 ROTARY (AIR)</p> <p><input type="checkbox"/> 5 AIR PERCUSSION</p>	<p><input type="checkbox"/> 6 BORING</p> <p><input type="checkbox"/> 7 DIAMOND</p> <p><input type="checkbox"/> 8 JETTING</p> <p><input type="checkbox"/> 9 DRIVING</p>

DRILLERS REMARKS:

63-68 8

WATER WELL RECORD

County or District Gray

Township, Village, Town or City LAN

Date completed 20 Oct. 1960
(day month year)

Address

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 recommended 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 Akron & Jackson

Address Clarksburg Ont.

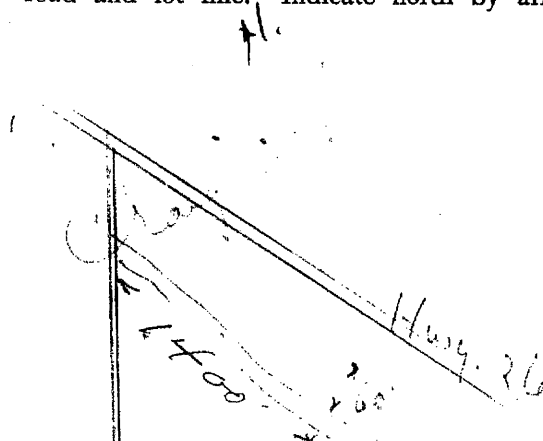
Licence Number

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.



NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S LICENCE NUMBER	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	80
				2576		III 23 1000		

Water-Well Record

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

h Village, Town or City).....

Address 1001 Bay St. Toronto

(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4 Static level 3

Length(s) 6.4 Pumping rate 3 gal per min

Type of screen Pumping level *10 ft.*

Length of screen Duration of test 2.5 hours

Well Log

Water Record

[illegible]

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

Is water clear or cloudy?.....*Clear*.....

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

Drilling firm Robert Mcmans

Address 302 Birch St.

Name of Driller

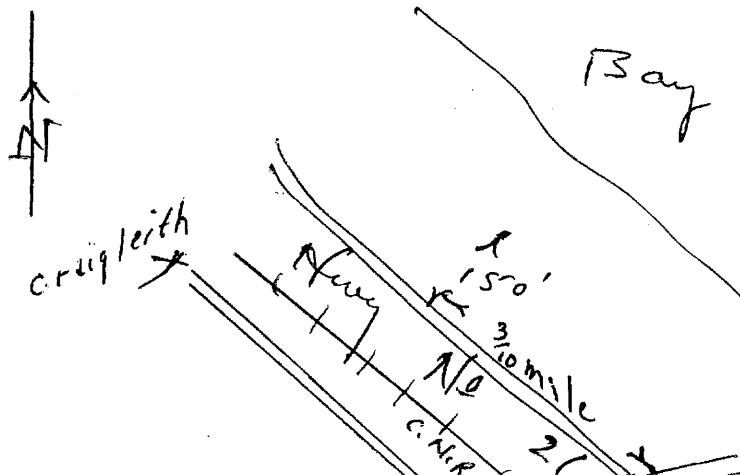
Address *House*

Licence Number.....320

I certify that the foregoing
statements of fact are true.

Location of Well

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



DAY 15 MO 09 YR 76

29700

5

ELEVATION
0605

5

BASIN CODE
22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

b6
b7C
b7D
b7E
b7F
b7G
b7H
b7I
b7J
b7K
b7L
b7M
b7N
b7O
b7P
b7Q
b7R
b7S
b7T
b7U
b7V
b7W
b7X
b7Y
b7Z
b7AA
b7AB
b7AC
b7AD
b7AE
b7AF
b7AG
b7AH
b7AI
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b7AK
b7AL
b7AM
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b7AQ
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b7CK
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b7CM
b7CN
b7CO
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b7GQ
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b7GS
b7GT
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b7GV
b7GW
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b7HA
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b7HF
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b7IT
b7IU
b7IV
b7IW
b7IX
b7IY
b7IZ
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b7LE
b7LF
b7LG
b7LH
b7LI
b7LJ
b7LK
b7LL
b7LM
b7LN
b7LO
b7LP
b7LQ
b7LR
b7LS
b7LT
b7LU
b7LV
b7LW
b7LX
b7LY
b7LZ
b7MA
b7MB
b7MC
b7MD
b7ME
b7MF
b7MG
b7MH
b7MI
b7MJ
b7MK
b7ML
b7MM
b7MN
b7MO
b7MP
b7MQ
b7MR
b7MS
b7MT
b7MU
b7MV
b7MW
b7MX
b7MY
b7MZ
b7NA
b7NB
b7NC
b7ND
b7NE
b7NF
b7NG
b7NH
b7NI
b7NJ
b7NK
b7NL
b7NM
b7NN
b7NO
b7NP
b7NQ
b7NR
b7NS
b7NT
b7NU
b7NV
b7NW
b7NX
b7NY
b7NZ
b7OA
b7OB
b7OC
b7OD
b7OE
b7OF
b7OG
b7OH
b7OI
b7OJ
b7OK
b7OL
b7OM
b7ON
b7OO
b7OP
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b

000420512

0021617

0056215

32

WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER			
15-18	1 <input type="checkbox"/> FRESH 2 <input checked="" type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	14		
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	24		
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	29		
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY	3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL	34		

CASING & OPEN HOLE RECORD

SIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06-11 6 1/4	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	12		13-16
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	19		20-23
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	26		27-30

CREEN

SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
		INCHES		FEET	
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN		41-44	51-52
				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	80

PUMPING TEST

PUMP TEST	PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
	1 <input type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER		GPM		15-16 _____ 17-18 _____ HOURS _____ MINS	
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING		1 <input type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY	
	19-21 _____	22-24 _____	15 MINUTES 26-28 _____	30 MINUTES 29-31 _____	45 MINUTES 32-34 _____	60 MINUTES 35-37 _____
	FEET	FEET	FEET	FEET	FEET	FEET
IF FLOWING, GIVE RATE		38-41 _____	PUMP INTAKE SET AT		WATER AT END OF TEST	
GPM		FEET	1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY		42 _____	
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING	43-45 _____	RECOMMENDED PUMPING RATE		46-49 _____
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP		FEET	FEET	GPM		GPM
50-53 _____		GPM. / FT. SPECIFIC CAPACITY				

FINAL
STATUS
OF WELL. 5

1 ☐ WATER SUPPLY 5 ☒ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL 6 ☒ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE 7 ☐ UNFINISHED
4 ☐ RECHARGE WELL

WATER USE

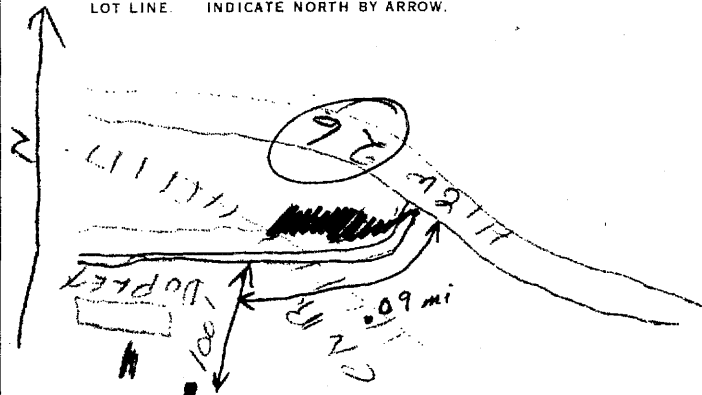
1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input checked="" type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/>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

METHOD OF DRILLING

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	

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

NAME OF WELL CONTRACTOR

LICENCE NUMBER

Y	DATA SOURCE
---	----------------

58	CONTRACTOR
----	------------

69-62	DATE RECEIVED
-------	---------------

1126

63-68	80
-------	----

[illegible]

41	WATER RECORD	51	CASING & OPEN HOLE RECORD	54	SIZE(S) OF OPENING (SLOT NO)	31-33	DIAMETER	34-38	LENGTH	39-40
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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	80	

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.

545 ft.

Lot 20

I

1410 ft.

1410 ft. between wells

Highway 26

Hope St

Stepped pump up to 28 gpm after 1 hr.

DRILLER'S REMARKS:

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		

Stepped pump up to 28 gpm after 1 hr.

63-68	80
-------	----

01M

1114 1254960

CODED



41890

WATER RESOURCES

2502646

JAN 7 1969

#2

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District York Township, Village, Town or City Collingwood
 Con. 1 Lot 8419 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.
 Test pumping rate 4 G.P.M.
 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

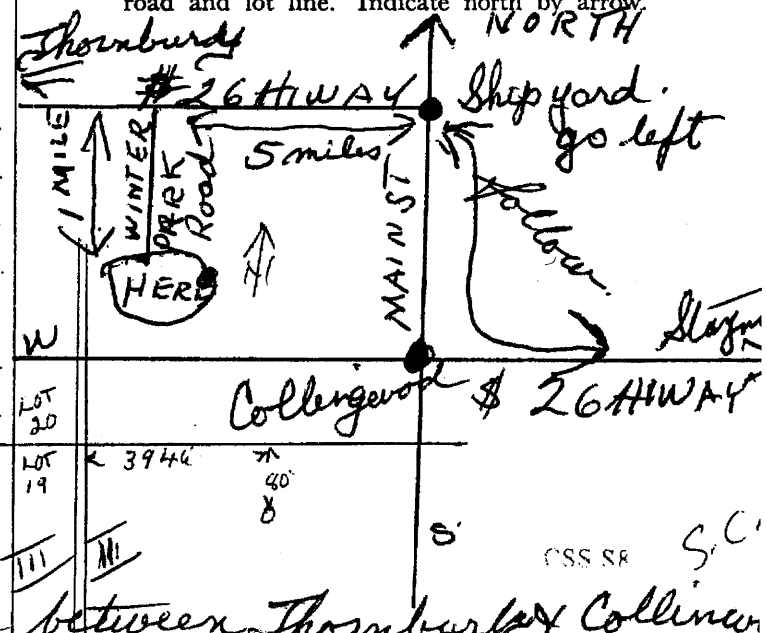
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>All sand.</u>	<u>0</u>	<u>3.5</u>	<u>2.5</u>	<u>fresh</u>

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#55
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)

Location of Well

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



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		4 Bolt Boulders.	hard & stony	25	30

31 002060512 0025214 00306051312
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-14	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	14	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
15-18	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	19	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	24	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	29	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	34	
	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL		

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 <input type="checkbox"/> STEEL	12		
	2 <input type="checkbox"/> GALVANIZED			
	3 <input checked="" type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			
17-18	1 <input type="checkbox"/> STEEL	19		
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input checked="" type="checkbox"/> OPEN HOLE			
24-25	1 <input type="checkbox"/> STEEL	26		
	2 <input type="checkbox"/> GALVANIZED			
	3 <input type="checkbox"/> CONCRETE			
	4 <input type="checkbox"/> OPEN HOLE			

SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
MATERIAL AND TYPE		INCHES		FEET	
		DEPTH TO TOP OF SCREEN		41-44	80
				FEET	

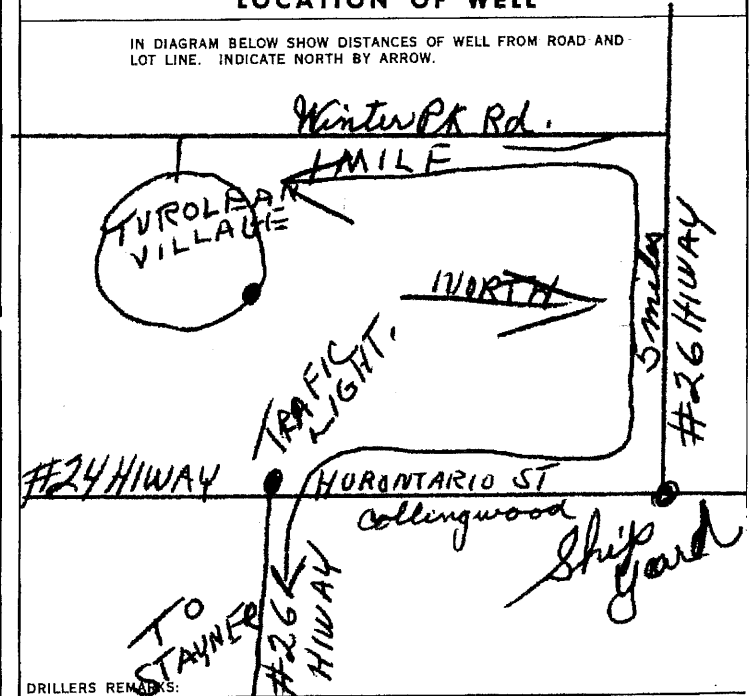
61 PLUGGING & SEALING RECORD

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	

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING		
	1 <input type="checkbox"/> PUMP 2 <input checked="" type="checkbox"/> BAILER			GPM.			15-16 HOURS 17-18 MINS.		01 00
	WATER LEVEL		25	WATER LEVELS DURING			1 <input type="checkbox"/> PUMPING 2 <input checked="" type="checkbox"/> RECOVERY		
	19-21		22-24	25-28		29-31	32-34		35-37
	FEET		FEET	FEET		FEET	FEET		FEET
	012		036	022		022	018		018
	004		008	006		008	008		008
	015		015	006		008	008		008
	16 FLOWING GIVE RATE		38-41	PUMP INTAKE SET AT			WATER AT END OF TEST		42
	GPM.			FEET			1 <input type="checkbox"/> CLEAR 2 <input checked="" type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMP RATE		46-49		GPM.	
1 <input type="checkbox"/> SHALLOW 2 <input checked="" type="checkbox"/> DEEP		029		0005					
50-53		GPM./FT. SPECIFIC CAPACITY							

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



FINAL STATUS OF WELL	1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input 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	1 <input checked="" 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
METHOD OF DRILLING	1 <input type="checkbox"/> CABLE TOOL	5 <input checked="" type="checkbox"/> BORING
	2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	6 <input type="checkbox"/> DIAMOND
	3 <input type="checkbox"/> ROTARY (REVERSE)	7 <input type="checkbox"/> JETTING
	4 <input type="checkbox"/> ROTARY (AIR)	8 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION		9 <input type="checkbox"/> NOT USED

County or Territorial District.....Freya.....Township, Village, Town or City.....Collingwood.....

h Village, Town or City).....

Address

(day)

(month)

(year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4" Static level 1.0

Length(s) Pumping rate

Type of screen Pumping level 6.125

Length of screen Duration of test

Static level 1.0

Pumping rate

Pumping level 6.15

Duration of test 15

Well Log

Water Record

[illegible]

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 HERCROMBIE & WALKER

Address

Peter

Name of Driller A. Gibray

Address Clarkburg

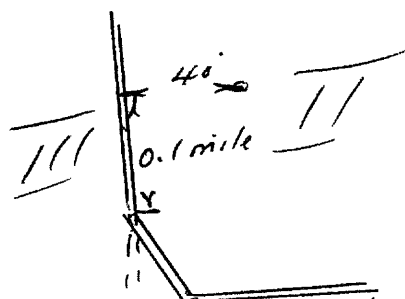
Licence Number:.....

I certify that the foregoing
statements of fact are true.

Location of Well

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

N



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- [Change the address on identification cards](#)
- [Driving and Roads](#)

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
---------------	-------------	---	------------------

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
---------------------	----------	---------------	-------------

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	