

Mr. Gunner McCain
McCain Consulting, Inc.
93 South Main Street
Waterbury, VT 05676

RE: K&R Properties, 9 Lot Subdivision, One Mile Rd & Half Mile Rd, Charlotte – Water Supply Related Permitting Information

Dear Gunner:

I am now in receipt of the Well Report Plan (Sheet W-1) which shows the proposed 9-Lot subdivision well (the well), adjacent properties and the approximate location of their disposal areas. I've amended the plan with: a 200'X400' isolation zone surrounding the Well, a 1000' well interference monitoring radius and a note on each adjacent property indicating whether their well is within the 1000' radius.

The 9-Lot subdivision well will serve 9-4 bedroom residences and is considered a water source regulated by the Town of Charlotte on behalf of The State of Vermont Regional Wastewater System and Potable Water Supply Permit program. The design basis of the proposed well includes:

1. Average Daily Demand (ADD) = 9-4 bedroom residences x 490 gallons per day (gpd) = 4410gpd
2. Maximum Daily Demand (MMD) = 4410 gpd/720 minutes = 6.125 gpm
3. Instantaneous Peak Demand (IPD) = 9 residence x 5 gpm = 45 gpm
4. Required Well Isolation Zone = 200' downslope & sideslope and 400' upslope
5. Required Long Term Testing Duration = 48 Hours with 2 days of pre-pump test monitoring and up to 2 days of post-pump test monitoring
6. Required Interference Monitoring Radius = 1000' as shown on W-1 which includes 7 adjacent properties and their wells. All well owners within the 1000' radius will be contacted for well related information and permission to monitor their well during the long term test.
7. Required Storage = Given the well drillers yield of 25 gpm, 55% of the ADD (4410gpd) or 2426 gallons is the maximum amount of storage that could be required.
8. Required Water Quality = The Well must be tested in accordance with Table 11-5&7 for: chloride, sodium, iron, manganese, odor, pH, arsenic, nitrate, nitrite, total coliform bacteria, and uranium.

The two wells shown on the W-1 plan were drilled as test wells to explore the availability of groundwater from either the gravel aquifer or the bedrock aquifer. The two well completion reports are attached which are labeled West Well and East Well. The West Well is the proposed water source. It is a gravel well with a well drillers yield of 25gpm. The gravel aquifer is confined by 25' of heavy clay and 93' of compact glacial till (hardpan). The well is properly grouted which precludes the leakage of surface water and shallow groundwater into the well and qualifies it as complaint. The East Well is a low yielding bedrock well confined by 110' of clay and glacial till (hardpan) that has no purpose other than monitoring potential drawdown effects related to pumping the West Well.

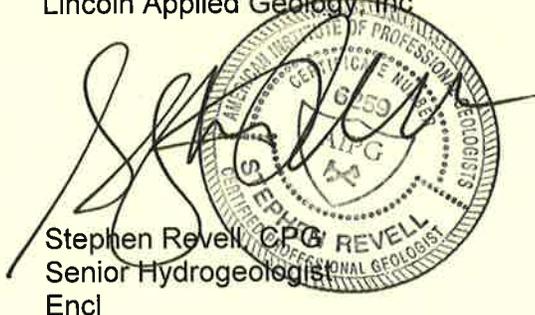
The Figure 1 private well location orthophoto map from the Vermont National Resource Atlas is attached which approximately shows the location of wells on adjacent properties. The well details for them are also attached which describes both sand & gravel wells and bedrock wells, all with a substantial confining units above the aquifer.

You will note, based on W-1, that the proposed 9-Lot subdivision well is reasonably isolated from disposal fields (leachfields) on adjacent properties. There are, however, several leachfields and one dry well located in or directly adjacent to the well's 200'x400' isolation zone. In order to confirm total isolation from these disposal areas, it must be proven that it takes at least two years to reach the gravel aquifer supplying the Well. In this regard, it was determined by the Technical Advisory Committee's Hydrogeology Subcommittee that effluent migrating toward and vertically downward into an aquifer would require the presence of at least 8' of clay to achieve the two year travel time test. The West Well's gravel aquifer is overlain by 25' of heavy clay and 93' of compact glacial till, so it is understood that effluent related flow from any or all the leachfields shown on W-1 will take a great deal longer than two years to reach the subject gravel aquifer.

As you know, this report should be submitted with the water and wastewater permitting package to the Town of Charlotte for their review. We will need their approval that recognizes the well is properly isolated before we can proceed with the required adjacent well owner notification, long term pump test and water quality analysis.

If you have any questions regarding this letter and analysis, please do not hesitate to call.

Very Truly Yours,
Lincoln Applied Geology, Inc



Stephen Revell, CPG
Senior Hydrogeologist
Encl

F:\CLIENTS\2015\15154\Water Supply Realted Permitting Information.docx

K&R Properties

Attachment A

West Well & East Well

Well Completion Reports

West Well

STATE OF VERMONT – DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGPD), 1 National Life Drive, Main Building – 2nd Floor, Montpelier, VT 05620-3251

Tel. (802) 828-1535 or (802) 585-4907

WELL COMPLETION REPORT

WELL LOCATION

Well Owner or Purchaser: Ed Krasnow
E-911 Address: 100 one mile road

WELL TAG No. 56854

Town: Charlotte
Subdivision Name:
Lot Number:

GEOGRAPHIC LOCATION (Complete A OR B, but not both)

Date Well Drilled: 08/21/15

A. GPS Location: 44.28670 N 73.22506 W
Latitude Rdg Longitude Rdg GPS Make/Model # of Satellites Used (Min. 3)

B. Attach Town Map with well location marked, if not providing GPS location.

WELL TYPE (Check one)

- Bedrock
Gravel
Monitoring
Other:

WELL USE (Check one)

- Residential/Non-public
Public water system
Agricultural
Industrial
Other:

REASON FOR WELL (Check one)

- New supply
Replace existing supply
Deepen existing supply
Additional supply
Test/exploration
Geothermal
Other:

WELL CONSTRUCTION INFORMATION

DEPTHS

To bedrock NA ft.
Total 130 ft

CASING

Total Length 125 ft.
Casing exposed 24 in.
Diameter 6 in.
Material Steel
Weight 19 lb/ft

LINER OR INNER CASING

Total Length 20 ft.
Depth to liner top 5 ft.
Diameter 10 in.
Material Steel
Weight 40 lb/ft
Seal type

SCREEN DETAILS

Make/Type
Material
Diameter in
Depth to screen top
Slot size
Gravel pack (type/size)

WELL LOG

From 0
25
118

To 25
118
130

Formation and water-bearing fracture Information
Clay, Brown Heavy
Hard pan, Grey, Medium
Gravel

SEALING METHOD

Drive Shoe
Grouted - Grout type
Portland Cement

YIELD TEST

Tested for 1 hr @ 25 GPM
Static Water Level ft.
(below land surface)
Overflowing? (check if yes)
Hydrofractured? GPM

WELL DRILLER INFORMATION

Yes No; I provided property owner the Dept. of Health information, per 10 V.S.A. Section 1396(d)

Drilled by: Robert Frost
Signature of Qualifying Individual
Company: VTWP
Lic #: 222

COMMENTS AND SITE SKETCH

White Copy - DWGPD

Yellow Copy - Owner

Pink Copy - Driller

1/10/13

East Well

STATE OF VERMONT - DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGPD), 1 National Life Drive, Main Building - 2nd Floor, Montpelier, VT 05620-3251 Tel. (802) 828-1535 or (802) 585-4907

WELL COMPLETION REPORT

WELL LOCATION

WELL TAG No. 56833

Well Owner or Purchaser: Ed Krusnow
E-911 Address: 100 one mile Road

Town: Charlotte
Subdivision Name:
Lot Number:

GEOGRAPHIC LOCATION (Complete A OR B, but not both)

Date Well Drilled: 07/27/15

A. GPS Location: 44.28655 N 73.22435 W
Latitude Rdg Longitude Rdg GPS Make/Model # of Satellites Used (Min. 3)

B. Attach Town Map with well location marked, if not providing GPS location.

WELL TYPE (Check one)

- Bedrock
Gravel
Monitoring
Other:

WELL USE (Check one)

- Residential/Non-public
Public water system
Agricultural
Industrial
Other: Test

REASON FOR WELL (Check one)

- New supply
Replace existing supply
Deepen existing supply
Additional supply
Test/exploration
Geothermal
Other:

WELL CONSTRUCTION INFORMATION

DEPTHS

To bedrock 110 ft.
Total 360 ft

CASING

Total Length 120 ft.
Casing exposed 24 in.
Diameter 7 in.
Material steel
Weight 17 lb/ft

LINER OR INNER CASING

Total Length ft.
Depth to liner top ft.
Diameter in.
Material
Weight lb/ft
Seal type

SCREEN DETAILS

Make/Type
Material
Diameter in
Depth to screen top
Slot size
Gravel pack (type/size)

WELL LOG

From 0
25
110

To 25
110
360

Formation and water-bearing fracture Information
Clay, Brown Heavy
Hardpan, Grey, med
Shale, Black, soil

SEALING METHOD

- Drive Shoe ring bit
Grouted - Grout type

YIELD TEST

Tested for 1 hr @ 1/2 GPM
Static Water Level 0 ft.
(below land surface)
Overflowing? (check if yes)
Hydrofractured? GPM

WELL DRILLER INFORMATION

Yes No; I provided property owner the Dept. of Health information, per 10 V.S.A. Section 1396(d)

Drilled by: Robert Frost
Signature of Qualifying Individual
Company:
Lic #

COMMENTS AND SITE SKETCH

White Copy - DWGPD

Yellow Copy - Owner

Pink Copy - Driller

1/10/13

K&R Properties

Attachment B

Private Well Location Map and Related Well Details

Drinking Water and Groundwater Protection Division

VT DEC

[dwgwpd home](#) [loans](#) [notices](#) [contacts](#)

[dec home](#) > [dwgwpd home](#) > [property owners](#) > well completion reports

Drinking Water Systems
Property / Business Owners & Residents
Land-Based Disposal systems
Wastewater Disposal
Certification/Licensing
e-DEC
Fees
Environmental Notices
Funding
Groundwater Reclassification
Groundwater Withdrawal
Rules
Contact Us
Wastewater Permits Searchable Database
Well Completion Reports Searchable Database
ANR Internet Mapping Page

Well Details

Date Completed	03/13/1991
Date Received	05/09/1991
Driller	125 - Harry A Young , H A Young & Sons
Well Report Number	586
Tag	2KI
Comments	
Town	Charlotte
Map Cell	13B3
Tax Map	
E911 Address	
Subdivision	
Lot Number	
Owners First Name	RONALD
Owners Last Name	RAYMOND
Purchaser First Name	
Purchaser Last Name	
Well Use	Domestic
Well Reason	Replace existing supply
Drilling Method	Cable tool
Well Depth	359.00 feet
Yield Gallons Per Minute	0.00
Yield Test Tested For Hours	0.00
Static Water Level	2.00 feet
Over Flowing	
Overburden Thickness	58 feet
Casing Length	61.00 feet
Casing Diameter	6.00 inches
Casing Length Below Land Surface	0.00 feet
Casing Length Exposed	0.00
Casing Material	
Casing Weight	0.00 lbs/foot
Casing Finish	Above ground, finished
Liner Length	0.00 feet
Liner Diameter	0.00 inches
Liner Material	
Liner Weight	0.00 lbs/foot
Grout Type	
Seal Type	
Diameter Drilled In Bedrock	0.00 inches
Depth Drilled in Bedrock	0.00 feet
Screen Make Type	
Screen Material	
Screen Length	0.00 feet
Screen Diameter	0.00 inches
Screen Slot Size	0.000 inches
Depth of Screen	0.00 feet
Gravel Size Type	

58' of Confined Material

Casing Sealing Method Drive shoe only
 Yield Test Method Bailed
 Well Development
 Not Steel Casing
 Water Analysis
 Well Screen
 AW Partial
 Unique GIS Name CI586
 Lat Degree 44
 Lat Minutes 16
 Lat Seconds 59.4901
 Long Degree 73
 Long Minutes 13
 Long Seconds 22.0500
 Location Determination Method screen digitized
 Well Type
 Depth To Liner Top 0.00
 Hydro Fractured
 Hydro Fractured Resulting Flow 0.00
 Well Location Submitted As A Dot On A Map N

WellMainRecordNumber	StartingDepth	EndingDepth	WaterBearing	LithologyCode	LithologyDescription
11014	0.00	13.00		C	HEAVY BROWN CLAY
11014	13.00	45.00		T	GLACIAL TILL
11014	45.00	55.00		C	BLUE CLAY
11014	55.00	58.00		T	GLACIAL TILL
11014	58.00	132.00		R	BLACK SHALE W/QUARTZ-WATER
11014	132.00	260.00		R	BLACK DRILLING
11014	260.00	261.00		R	SOFT SPOT STILL BLACK SHALE
11014	261.00	285.00		R	BLACK SHALE
11014	285.00	286.00		R	SOFT BLACK SHALE-WATER
11014	286.00	359.00		R	BLACK SHALE

If you would like search for a well or wells in a specific area the following link will relocate you to the ANR GIS Internet Mapping Program.
<http://www.anr.state.vt.us/site/html/maps.htm>



drinkingwater.vermont.gov groundwater.vermont.gov septic.vermont.gov wastewater.vermont.gov
 VT DEC [Drinking Water and Groundwater Protection Division](#) [1 National Life Drive, Main Building, 2nd Floor](#) [Montpelier, VT 05620-3521](#)
 Telephone toll-free in VT: 800-823-6500 or call 802-241-3400 [Fax: 802-828-1541](#)

[DEC home](#) [dec calendar](#) [contact dec](#) [topic index](#) [site map](#) [search](#)
[about dec](#) [assistance](#) [divisions & programs](#) [dec permits](#) [dec regulations](#) [dec publications](#)
[dec grants & loans](#) [dec maps & GIS](#) [hotline numbers](#) [related links](#) [privacy policy](#) [ANR home](#)



[State of Vermont Agencies & Depts.](#) [Access Government 24/7](#) [About Vermont.Gov](#) [Privacy Policy](#)

A Vermont Government Website Copyright 2004 State of Vermont - All rights reserved



[dec home](#) [dec calendar](#) [contact dec](#) [topic index](#) [sitemap](#) [search](#)

Drinking Water and Groundwater Protection Division

VT DEC

[dwgwpd home](#) [loans](#) [notices](#) [contacts](#)

[dec home](#) > [dwgwpd home](#) > [property owners](#) > well completion reports

Drinking Water Systems
Property / Business Owners & Residents
Land-Based Disposal systems
Wastewater Disposal
Certification/Licensing
e-DEC
Fees
Environmental Notices
Funding
Groundwater Reclassification
Groundwater Withdrawal
Rules
Contact Us
Wastewater Permits Searchable Database
Well Completion Reports Searchable Database
ANR Internet Mapping Page

Well Details

Date Completed	07/24/1998
Date Received	01/06/1999
Driller	198 - Thomas W Williams , Spafford & Sons of Williston VT Inc
Well Report Number	7524
Tag	925
Comments	AFTER HYDROFRAC.
Town	Charlotte
Map Cell	13B3
Tax Map	
E911 Address	
Subdivision	
Lot Number	
Owners First Name	NANCY & JOHN
Owners Last Name	CALCOZNI
Purchaser First Name	
Purchaser Last Name	
Well Use	Domestic
Well Reason	Replace existing supply
Drilling Method	Rotary (AP)
Well Depth	800.00 feet
Yield Gallons Per Minute	0.50
Yield Test Tested For Hours	0.00
Static Water Level	0.00 feet
Over Flowing	
Overburden Thickness	24 feet
Casing Length	40.00 feet
Casing Diameter	6.00 inches
Casing Length Below Land Surface	38.50 feet
Casing Length Exposed	0.00
Casing Material	Steel
Casing Weight	17.00 lbs/foot
Casing Finish	Above ground, finished
Liner Length	0.00 feet
Liner Diameter	0.00 inches
Liner Material	
Liner Weight	0.00 lbs/foot
Grout Type	
Seal Type	
Diameter Drilled In Bedrock	8.50 inches
Depth Drilled in Bedrock	16.00 feet
Screen Make Type	
Screen Material	
Screen Length	0.00 feet
Screen Diameter	0.00 inches
Screen Slot Size	0.000 inches
Depth of Screen	0.00 feet

*24' of
Confining
material*

Gravel Size Type
 Casing Sealing Method Drive shoe only
 Yield Test Method Compressed air
 Well Development
 Not Steel Casing
 Water Analysis
 Well Screen
 AW Partial
 Unique GIS Name CI7524
 Lat Degree 44
 Lat Minutes 17
 Lat Seconds 16.5660
 Long Degree 73
 Long Minutes 13
 Long Seconds 22.0920
 Location Determination Method screen digitized
 Well Type
 Depth To Liner Top 0.00
 Hydro Fractured
 Hydro Fractured Resulting Flow 0.00
 Well Location Submitted As A Dot On A Map N

WellMainRecordNumber StartingDepth EndingDepth WaterBearing LithologyCode LithologyDescription

If you would like search for a well or wells in a specific area the following link will relocate you to the ANR GIS Internet Mapping Program.
<http://www.anr.state.vt.us/site/html/maps.htm>



drinkingwater.vermont.gov ▫ groundwater.vermont.gov ▫ septic.vermont.gov ▫ wastewater.vermont.gov
 VT DEC ▫ Drinking Water and Groundwater Protection Division ▫ 1 National Life Drive, Main Building, 2nd Floor ▫ Montpelier, VT 05620-3521
 Telephone toll-free in VT: 800-823-6500 or call 802-241-3400 ▫ Fax: 802-828-1541

[DEC home](#) ▫ [dec calendar](#) ▫ [contact dec](#) ▫ [topic index](#) ▫ [site map](#) ▫ [search](#)
[about dec](#) ▫ [assistance](#) ▫ [divisions & programs](#) ▫ [dec permits](#) ▫ [dec regulations](#) ▫ [dec publications](#)
[dec grants & loans](#) ▫ [dec maps & GIS](#) ▫ [hotline numbers](#) ▫ [related links](#) ▫ [privacy policy](#) ▫ [ANR home](#)

.....

[State of Vermont Agencies & Depts.](#) ▫ [Access Government 24/7](#) ▫ [About Vermont.Gov](#) ▫ [Privacy Policy](#)

A Vermont Government Website Copyright 2004 State of Vermont - All rights reserved



Drinking Water and Groundwater Protection Division

VT DEC

[dwgwpd home](#)
[loans](#)
[notices](#)
[contacts](#)

[dec home](#) > [dwgpd home](#) > [property owners](#) > well completion reports

Drinking Water Systems
Property / Business Owners & Residents
Land-Based Disposal systems
Wastewater Disposal
Certification/Licensing
e-DEC
Fees
Environmental Notices
Funding
Groundwater Reclassification
Groundwater Withdrawal
Rules
Contact Us
Wastewater Permits Searchable Database
Well Completion Reports Searchable Database
ANR Internet Mapping Page

Well Details

Date Completed	06/19/1986
Date Received	07/29/1986
Driller	23 - Clyde (Jack) W Frost , Frost Inc
Well Report Number	367
Tag	
Comments	
Town	Charlotte
Map Cell	13B3
Tax Map	
E911 Address	
Subdivision	
Lot Number	
Owners First Name	Neil
Owners Last Name	Raymond
Purchaser First Name	
Purchaser Last Name	
Well Use	Domestic
Well Reason	New Supply
Drilling Method	Rotary (AP)
Well Depth	500.00 feet
Yield Gallons Per Minute	1.00
Yield Test Tested For Hours	0.00
Static Water Level	0.00 feet
Over Flowing	
Overburden Thickness	38 feet
Casing Length	40.00 feet
Casing Diameter	6.00 inches
Casing Length Below Land Surface	0.00 feet
Casing Length Exposed	0.00
Casing Material	
Casing Weight	0.00 lbs/foot
Casing Finish	Above ground, finished
Liner Length	0.00 feet
Liner Diameter	0.00 inches
Liner Material	
Liner Weight	0.00 lbs/foot
Grout Type	
Seal Type	
Diameter Drilled In Bedrock	0.00 inches
Depth Drilled in Bedrock	0.00 feet
Screen Make Type	
Screen Material	
Screen Length	0.00 feet
Screen Diameter	0.00 inches
Screen Slot Size	0.000 inches
Depth of Screen	0.00 feet
Gravel Size Type	

*38' of
confining
material*

Casing Sealing Method	Drive shoe only				
Yield Test Method	Compressed air				
Well Development					
Not Steel Casing					
Water Analysis					
Well Screen					
AW Partial					
Unique GIS Name	CI367				
Lat Degree	44				
Lat Minutes	17				
Lat Seconds	13.4880				
Long Degree	73				
Long Minutes	12				
Long Seconds	52.1460				
Location Determination Method	screen digitized				
Well Type					
Depth To Liner Top	0.00				
Hydro Fractured					
Hydro Fractured Resulting Flow	0.00				
Well Location Submitted As A Dot On A Map N					
WellMainRecordNumber	StartingDepth	EndingDepth	WaterBearing	LithologyCode	LithologyDescription
10795	0.00	38.00		H	hardpan
10795	38.00	500.00		R	shale, waterbearing

If you would like search for a well or wells in a specific area the following link will relocate you to the ANR GIS Internet Mapping Program.
<http://www.anr.state.vt.us/site/html/maps.htm>



drinkingwater.vermont.gov ▣ groundwater.vermont.gov ▣ septic.vermont.gov ▣ wastewater.vermont.gov
 VT DEC ▣ Drinking Water and Groundwater Protection Division ▣ 1 National Life Drive, Main Building, 2nd Floor ▣ Montpelier, VT 05620-3521
 Telephone toll-free in VT: 800-823-6500 or call 802-241-3400 ▣ Fax: 802-828-1541

[DEC home](#) ▣ [dec calendar](#) ▣ [contact dec](#) ▣ [topic index](#) ▣ [site map](#) ▣ [search](#)
[about dec](#) ▣ [assistance](#) ▣ [divisions & programs](#) ▣ [dec permits](#) ▣ [dec regulations](#) ▣ [dec publications](#)
[dec grants & loans](#) ▣ [dec maps & GIS](#) ▣ [hotline numbers](#) ▣ [related links](#) ▣ [privacy policy](#) ▣ [ANR home](#)



[State of Vermont Agencies & Depts.](#) ▣ [Access Government 24/7](#) ▣ [About Vermont.Gov](#) ▣ [Privacy Policy](#)

A Vermont Government Website Copyright 2004 State of Vermont - All rights reserved



Drinking Water and Groundwater Protection Division

VT DEC

[dwgwpd home](#)
[loans](#)
[notices](#)
[contacts](#)

[dec home](#) > [dwgpd home](#) > [property owners](#) > well completion reports

Drinking Water Systems
Property / Business Owners & Residents
Land-Based Disposal systems
Wastewater Disposal
Certification/Licensing
e-DEC
Fees
Environmental Notices
Funding
Groundwater Reclassification
Groundwater Withdrawal
Rules
Contact Us
Wastewater Permits Searchable Database
Well Completion Reports Searchable Database
ANR Internet Mapping Page

Well Details

Date Completed	12/30/1976
Date Received	01/05/1977
Driller	8 - , H A Manosh Corporation
Well Report Number	130
Tag	
Comments	BUTLER LARKIN WELL SEAL
Town	Charlotte
Map Cell	13B3
Tax Map	
E911 Address	
Subdivision	
Lot Number	
Owners First Name	ROBERT
Owners Last Name	RINGER
Purchaser First Name	
Purchaser Last Name	
Well Use	Domestic
Well Reason	
Drilling Method	Rotary (AP)
Well Depth	172.00 feet
Yield Gallons Per Minute	20.00
Yield Test Tested For Hours	0.00
Static Water Level	0.00 feet
Over Flowing	
Overburden Thickness	172 feet
Casing Length	172.00 feet
Casing Diameter	6.00 inches
Casing Length Below Land Surface	0.00 feet
Casing Length Exposed	0.00
Casing Material	
Casing Weight	0.00 lbs/foot
Casing Finish	
Liner Length	0.00 feet
Liner Diameter	0.00 inches
Liner Material	
Liner Weight	0.00 lbs/foot
Grout Type	
Seal Type	
Diameter Drilled In Bedrock	0.00 inches
Depth Drilled in Bedrock	0.00 feet
Screen Make Type	
Screen Material	
Screen Length	0.00 feet
Screen Diameter	0.00 inches
Screen Slot Size	0.000 inches
Depth of Screen	0.00 feet
Gravel Size Type	

170' of confining material

Casing Sealing Method					
Yield Test Method	Compressed air				
Well Development					
Not Steel Casing					
Water Analysis					
Well Screen					
AW Partial					
Unique GIS Name	CI130				
Lat Degree	44				
Lat Minutes	17				
Lat Seconds	9.8520				
Long Degree	73				
Long Minutes	13				
Long Seconds	35.7060				
Location Determination Method	screen digitized				
Well Type	Gravel				
Depth To Liner Top	0.00				
Hydro Fractured					
Hydro Fractured Resulting Flow	0.00				
Well Location Submitted As A Dot On A Map N					
WellMainRecordNumber	StartingDepth	EndingDepth	WaterBearing	LithologyCode	LithologyDescription
10559	0.00	170.00		H	hardpan
10559	170.00	172.00		GS	sand and gravel

If you would like search for a well or wells in a specific area the following link will relocate you to the ANR GIS Internet Mapping Program.
<http://www.anr.state.vt.us/site/html/maps.htm>



drinkingwater.vermont.gov ■ groundwater.vermont.gov ■ septic.vermont.gov ■ wastewater.vermont.gov
 VT DEC ■ Drinking Water and Groundwater Protection Division ■ 1 National Life Drive, Main Building, 2nd Floor ■ Montpelier, VT 05620-3521
 Telephone toll-free in VT: 800-823-6500 or call 802-241-3400 ■ Fax: 802-828-1541

[DEC home](#) • [dec calendar](#) • [contact dec](#) • [topic index](#) • [site map](#) • [search](#)
[about dec](#) • [assistance](#) • [divisions & programs](#) • [dec permits](#) • [dec regulations](#) • [dec publications](#)
[dec grants & loans](#) • [dec maps & GIS](#) • [hotline numbers](#) • [related links](#) • [privacy policy](#) • [ANR home](#)



[State of Vermont Agencies & Depts.](#) • [Access Government 24/7](#) • [About Vermont.Gov](#) • [Privacy Policy](#)

A Vermont Government Website Copyright 2004 State of Vermont - All rights reserved



Drinking Water and Groundwater Protection Division



[dwgwpd home](#)
[loans](#)
[notices](#)
[contacts](#)

[dec home](#) > [dwgpd home](#) > [property owners](#) > well completion reports

Drinking Water Systems
Property / Business Owners & Residents
Land-Based Disposal systems
Wastewater Disposal
Certification/Licensing
e-DEC
Fees
Environmental Notices
Funding
Groundwater Reclassification
Groundwater Withdrawal
Rules
Contact Us
Wastewater Permits Searchable Database
Well Completion Reports Searchable Database
ANR Internet Mapping Page

Well Details

Date Completed	11/07/1983
Date Received	12/02/1983
Driller	42 - John Spafford ,
Well Report Number	284
Tag	
Comments	CASING: DRIVE SHOE DRILLED 8" HOLE 15' IN BEDROCK. WELL NO #3
Town	Charlotte
Map Cell	13B3
Tax Map	
E911 Address	
Subdivision	
Lot Number	
Owners First Name	WILLIAM
Owners Last Name	HANLON
Purchaser First Name	
Purchaser Last Name	
Well Use	Domestic
Well Reason	
Drilling Method	Rotary (AP)
Well Depth	600.00 feet
Yield Gallons Per Minute	0.00
Yield Test Tested For Hours	0.00
Static Water Level	0.00 feet
Over Flowing	
Overburden Thickness	27 feet
Casing Length	42.00 feet
Casing Diameter	6.00 inches
Casing Length Below Land Surface	0.00 feet
Casing Length Exposed	0.00
Casing Material	
Casing Weight	0.00 lbs/foot
Casing Finish	Above ground, finished
Liner Length	0.00 feet
Liner Diameter	0.00 inches
Liner Material	
Liner Weight	0.00 lbs/foot
Grout Type	
Seal Type	
Diameter Drilled In Bedrock	0.00 inches
Depth Drilled in Bedrock	0.00 feet
Screen Make Type	
Screen Material	
Screen Length	0.00 feet
Screen Diameter	0.00 inches
Screen Slot Size	0.000 inches
Depth of Screen	0.00 feet

2.70 confining material

Gravel Size Type					
Casing Sealing Method	Drive shoe only				
Yield Test Method	Compressed air				
Well Development					
Not Steel Casing					
Water Analysis					
Well Screen					
AW Partial					
Unique GIS Name	CI284				
Lat Degree	44				
Lat Minutes	17				
Lat Seconds	13.6140				
Long Degree	73				
Long Minutes	12				
Long Seconds	59.9040				
Location Determination Method	screen digitized				
Well Type					
Depth To Liner Top	0.00				
Hydro Fractured					
Hydro Fractured Resulting Flow	0.00				
Well Location Submitted As A Dot On A Map	N				
WellMainRecordNumber	StartingDepth	EndingDepth	WaterBearing	LithologyCode	LithologyDescription
10713	0.00	27.00	H		hardpan
10713	27.00	600.00	R		shale black

If you would like search for a well or wells in a specific area the following link will relocate you to the ANR GIS Internet Mapping Program.
<http://www.anr.state.vt.us/site/html/maps.htm>

drinkingwater.vermont.gov :: groundwater.vermont.gov :: septic.vermont.gov :: wastewater.vermont.gov
 VT DEC :: Drinking Water and Groundwater Protection Division :: 1 National Life Drive, Main Building, 2nd Floor :: Montpelier, VT 05620-3521
 Telephone toll-free in VT: 800-823-6500 or call 802-241-3400 :: Fax: 802-828-1541

[DEC home](#) :: [dec calendar](#) :: [contact dec](#) :: [topic index](#) :: [site map](#) :: [search](#)
[about dec](#) :: [assistance](#) :: [divisions & programs](#) :: [dec permits](#) :: [dec regulations](#) :: [dec publications](#)
[dec grants & loans](#) :: [dec maps & GIS](#) :: [hotline numbers](#) :: [related links](#) :: [privacy policy](#) :: [ANR home](#)

[State of Vermont Agencies & Depts.](#) :: [Access Government 24/7](#) :: [About Vermont.Gov](#) :: [Privacy Policy](#)

A Vermont Government Website Copyright 2004 State of Vermont - All rights reserved

