

***MILLSBORO***  
***Geologic Log (2500')***

0 – 15'	Sandy debris (brick, concrete, wood, steel, etc)
15' – 79'	Tan MF sand, some gravel
79' – 98'	Orange to brown CMF sand
98' – 104'	Gray silty clay
104' – 170'	Gray CMF sand w/some lignite
170' – 200'	Gray MF sand, trace lignite, trace gravel
200' – 260'	Gray CMF sand & gravel
260' – 283'	Gray CMF silty sand
283' – 333'	Gray dense silty clay
333' – 420'	Gray clay w/some CMF sand & shells
420' – 510'	Gray CMF silty sand & shells w/some clay lenses
510' – 549'	Gray fine sand w/silty clay
549' – 550'	Hardpan
550' – 552'	Gray dense clay w/shells
552' – 580'	Gray fine sand w/shells
580' – 595'	Gray CMF sand w/shells
595' – 620'	Gray MF sand w/shells
620' – 665'	Brown MF sand w/shells, trace clay & glauconite
665' – 668'	Hardpan/cemented sand
668' – 690'	Brownish gray CMF sand & shells
690' – 726'	Greenish gray CMF sand & shells
726' – 737'	Greenish gray cemented sand & shells
737' – 738'	Hardpan/cemented sand

738' – 760'	Grayish green CMF silty sand w/some shells and trace gray clay
760' – 872'	Grayish green MF silty sand w/trace gray clay
872' – 878'	Hardpan/cemented sand
878' – 908'	Brownish gray fine sandy clay w/shells
908' – 909'	Hardpan/cemented sand
909' – 943'	Gray MF sand w/gray silty clay streaks
943' – 993'	Gray fine silty sand w/gray silty clay streaks
993' – 1150'	Grayish brown (dry) silt w/trace fine sand
1150' – 1218'	Brown (dry) silt w/trace fine sand, clay and shells
1218' – 1220'	Dark green/black hard silty clay w/trace fine sand
1220' – 1422'	Grayish green silty clay w/trace fine sand and glauconite
1422' – 1660'	Light green clay w/cemented silt streaks, trace glauconite
1660' – 1690'	Hard white clay
1690' – 1762'	Gray clay w/cemented sand and silt streaks, trace glauconite
1762' – 1801'	Grayish brown fine sand w/sandy gray clay streaks, trace fine gravel and glauconite
1801' – 1802'	Hardpan (heavy chatter)
1802' – 1812'	Gray sandy clay w/cemented silt streaks
1812' – 1880'	Dark gray clay w/fine gravel, some fine sand and hard streaks, trace shells
1880' – 1921'	Grayish green silty clay and shells
1921' – 1925'	Hardpan/cemented sand/silt
1925' – 1968'	Grayish green silty clay w/trace fine sand, glauconite and fine brown gravels
1968' – 1975'	Gray clay w/gray sand streaks and shells, trace red and white clay with chatter
1975' – 2037'	Tan and black silty sand w/grayish green clay streaks. Trace red and white clay, trace shells, some light chatter

2037' – 2067'	Gray silty fine sand w/gray clay streaks and glauconite
2067' – 2071'	Gray dense clay (slow drill)
2071' – 2073'	Gray CMF sand (fast drill, good chatter)
2073' – 2076'	Gray dense clay (slow drill)
2076' – 2105'	Gray sandy clay w/glauconite
2105' – 2113'	Tan MF sand w/multicolor clay streaks
2113' – 2115'	Tan/white dense clay
2115' – 2133'	Multicolor sandy clay
2133' – 2196'	Grayish green sandy clay w/hard brown clay streaks
2196' – 2246'	Gray (dry) dense clay w/hard brown clay streaks
2246' – 2257'	Tan MF sand w/multicolor clay lenses
2257' – 2258'	Hardpan
2258' – 2330'	Multicolor sandy clay w/some MF sand lenses
2330' – 2366'	Gray clay
2366' – 2377'	Gray MF sand w/some gray clay lenses
2377' – 2413'	Grayish black dense sandy clay w/CMF sand lenses
2413' – 2414'	Hardpan
2414' – 2438'	Grayish black dense sandy clay w/gray CMF sand lenses (good chatter)
2438' – 2457'	Gray CMF sand w/grayish black dense sandy clay lenses
2457' – 2458'	Hardpan
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2458' – 2471'	Gray hard dense clay
2471' – 2476'	Gray CMF sand w/hard gray clay streaks
2476' – 2501'	Gray hard clay w/MF gray sand streaks



MAIL TO:

WATER SUPPLY SECTION  
DIVISION OF WATER RESOURCES  
89 KINGS HIGHWAY  
DOVER, DELAWARE 19901

STATE OF DELAWARE  
DEPARTMENT OF NATURAL RESOURCES  
AND ENVIRONMENTAL CONTROL

http://www.dnrec.state.de.us/

WELL COMPLETION REPORT  
MUST BE RETURNED WITHIN 30  
DAYS OF CONSTRUCTION. A  
WELL FORMATION LOG MUST BE  
INCLUDED WITH THIS REPORT.

PHONE: 302-739-9944  
FAX: 302-739-7764

WELL COMPLETION REPORT

- OFFICIAL USE ONLY -

PAGE \_\_\_\_\_ OF \_\_\_\_\_ PAGES

ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

PLEASE PRINT OR TYPE - USE BLUE OR BLACK INK ONLY

Permit # of completed well: 211368 Local ID: \_\_\_\_\_  
Tax Map/Parcel #: 1-33-17 00-0002 00  
Property Owner: Town of Millsboro  
Water Well Contractor: Uni-Tech Drilling WC Lic #: 928  
Well Driller in Charge during Construction: James Evans

WELL CONSTRUCTION METHOD

- Augered
- Bored
- Cable Tool
- Driven
- Jetted
- Air Rotary
- Mud Rotary
- Reverse
- Washed
- Other (Specify): \_\_\_\_\_

Total Depth of Excavation: 2500'  
Construction Date: 1-27-06

CASING INSTALLATION:

INNER CASING

OUTER CASING

	(1)	(2)	(3)	(4)	(5)	(6)	
CASING TOP:	_____	_____	_____	_____	_____	_____	_____
CASING BOTTOM:	_____	_____	_____	_____	_____	_____	_____
CASING DIAMETER:	_____	_____	<u>N/A</u>	_____	_____	_____	_____
CASING MATERIAL:	_____	_____	_____	_____	_____	_____	_____

SCREEN INSTALLATION

SCREEN TOP:	_____	_____	_____	_____	_____	_____
SCREEN BOTTOM:	_____	_____	_____	_____	_____	_____
SCREEN DIAMETER:	_____	_____	<u>N/A</u>	_____	_____	_____
SCREEN MATERIAL:	_____	_____	_____	_____	_____	_____

Gravel Pack From: \_\_\_\_\_ ft. To: \_\_\_\_\_ ft.

Grout Type:  Cement  Bentonite Clay  
 Other: \_\_\_\_\_ From: 0 ft. To: 2500 ft.

Type of Non-Grout backfill of Well Annulus: N/A  
From: \_\_\_\_\_ To: \_\_\_\_\_

Static Water Level: \_\_\_\_\_ ft.  Below OR  Above Ground Surface  
On (date): N/A

Pumping Water Level: \_\_\_\_\_ ft. On (date): \_\_\_\_\_  
After: N/A hrs. Pumping at: N/A GPM

Was a Geophysical Log Taken?  YES  NO

TYPE OF PERMANENT PUMP INSTALLED:

Pump Manufacturer: \_\_\_\_\_  
Rated Capacity (GPM): \_\_\_\_\_  
Pump Intake Setting: N/A Ft. Below Ground Surface: \_\_\_\_\_  
Pump Installed By: N/A On (date): \_\_\_\_\_

The location and construction of this well is in Compliance with all permit conditions and all applicable well construction regulations.  
 YES  NO

If "NO," attach a copy of the approved well permit showing the revised location clearly marked.

COMMENTS: No Well Drilled

WELL HEAD COMPLETION:

Type:  Pitless Adapter  Standard "T"  
 Well Pit  Pad Mount  
 Other - Specify: \_\_\_\_\_

Well Head Completed: \_\_\_\_\_ inches  Above (OR)  Below Ground Surface

Was the Well Tag attached in accordance with current regulations?  
 YES  NO If "NO", Please Explain: \_\_\_\_\_

\_\_\_\_\_  
N/A  
\_\_\_\_\_  
\_\_\_\_\_

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT.

Signature: James Evans  
Well Driller in Charge of Well Construction

4038  
License #

3-1-06  
Date

MAIL TO:

WATER SUPPLY SECTION  
 DIVISION OF WATER RESOURCES  
 89 KINGS HIGHWAY  
 DOVER, DELAWARE 19901  
 PHONE: 302-739-9944  
 FAX: 302-739-7764

STATE OF DELAWARE  
 DEPARTMENT OF NATURAL RESOURCES  
 AND ENVIRONMENTAL CONTROL

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 CONSTRUCTION DATE

FORMATION LOG

PAGE 1 OF 5 PAGES

PLEASE PRINT OR TYPE - ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

PERMIT#	211368	LOCAL ID#	
PROPERTY OWNER	Town of Millsboro		
WELL CONTRACTOR	Uni-Tech Drilling Co., Inc.	LIC#	928
DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA	
Sandy debris (brick, concrete, wood, steel, etc.)	0	15'	
Tan MF sand, some gravel	15'	79'	
Orange to brown CMF sand	79'	98'	
Gray silty clay	98'	104'	
Gray CMF sand w/some lignite	104'	170'	
Gray MF sand, trace lignite, trace gravel	170'	200'	
Gray CMF sand & gravel	200'	260'	
Gray CMF silty sand	260'	283'	
Gray dense silty clay	283'	333'	
Gray clay w/some CMF sand & shells	333'	420'	
Gray CMF silty sand & shells w/some clay lenses	420'	510'	
Gray fine sand w/silty clay	510'	549'	
Hardpan	549'	550'	
Gray dense clay w/shells	550'	552'	
Gray fine sand w/shells	552'	580'	
Gray CMF sand w/shells	580'	595'	

OTHER COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

Signature of Well Driller In Charge: (Kreskover) License#: 4038 Date: 3-2-06

MAIL TO:

WATER SUPPLY SECTION  
 DIVISION OF WATER RESOURCES  
 89 KINGS HIGHWAY  
 DOVER, DELAWARE 19901  
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PERMIT# <u>211368</u>	LOCAL ID#
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PROPERTY OWNER Town of Millsboro

WELL CONTRACTOR <u>Uni-Tech Drilling Co., Inc.</u>	LIC# <u>928</u>
--	-----------------

DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA
Gray MF sand w/shells	595'	620'
Brown MF sand w/shells, trace clay & glauconite	620'	665'
Hardpan/cemented sand	665'	668'
Brownish gray CMF sand & shells	668'	690'
Greenish gray CMF sand & shells	690'	726'
Greenish gray cemented sand & shells	726'	737'
Hardpan/cemented sand	737'	738'
Grayish green CMF silty sand w/some shells and trace gray clay	738'	760'
Grayish green MF silty sand w/trace gray clay	760'	872'
Hardpan/cemented sand	872'	878'
Brownish gray fine sandy clay w/shells	878'	908'
Hardpan/cemented sand	908'	909'
Gray MF sand w/gray silty clay streaks	909'	943'
Gray fine silty sand w/gray silty clay streaks	943'	993'
Grayish brown (dry) silt w/trace fine sand	993'	1150'

OTHER COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

Signature of Well Driller In Charge <u>[Signature]</u>	License# <u>4038</u>	Date <u>3-2-06</u>
--	----------------------	--------------------

MAIL TO:

WATER SUPPLY SECTION  
 DIVISION OF WATER RESOURCES  
 P.O. BOX 1401, 89 KINGS HIGHWAY  
 DOVER, DELAWARE 19903  
 PHONE: 302-739-3665  
 FAX: 302-739-2296

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PERMIT#	211368		LOCAL ID#	
PROPERTY OWNER	Town of Millsboro			
WELL CONTRACTOR	Uni-Tech Drilling Co., Inc.		LIC#	928
	DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA	
	Brown (dry) silt w/ trace fine sand, clay & shells	1150'	1218'	
	Dark green/black hard silty clay w/ trace fine sand	1218'	1220'	
	Grayish green silty clay w/ trace fine sand & glauconite	1220'	1422'	
	Light green clay w/ cemented silt streaks, trace glauconite	1422'	1660'	
	Hard white clay	1660'	1690'	
	Gray clay w/ cemented sand & silt streaks, trace glauconite	1690'	1762'	
	Grayish brown fine sand w/ sandy gray clay streaks, trace fine gravel & glauconite	1762'	1801'	
	Hardpan (heavy chatter)	1801'	1802'	
	Gray sandy clay w/ cemented silt streaks	1802'	1812'	
	Dark gray clay w/ fine gravel, some fine sand and hard streaks, trace shells	1812'	1880'	
	Grayish green silty clay & shells	1880'	1921'	
	Hardpan/cemented sand/silt	1921'	1925'	
	Grayish green silty clay w/ trace fine sand, glauconite & fine brown gravels	1925'	1968'	

OTHER COMMENTS:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

Signature of Well Driller In Charge: James Evans License# 4038 Date 3-2-06

MAIL TO:

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 DIVISION OF WATER RESOURCES  
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PERMIT# <u>211.368</u>	LOCAL ID#	
PROPERTY OWNER <u>Town of Millsboro</u>		
WELL CONTRACTOR <u>Uni-Tech Drilling Co., Inc.</u>	LIC# <u>928</u>	
DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA
Gray clay w/ gray sand streaks & shells, trace red and white clay with chatter	1968'	1975'
Tan & black silty sand w/ grayish green clay streaks. Trace red & white clay, trace shell, some light chatter	1975'	2037'
Gray silty fine sand w/ gray clay streaks & glauconite	2037'	2067'
Gray dense clay (slow drill)	2067'	2071'
Gray MF sand (fast drill, good chatter)	2071'	2073'
Gray dense clay (slow drill)	2073'	2076'
Gray sandy clay w/ glauconite	2076'	2105'
Tan MF sand w/ multicolor clay streaks	2105'	2113'
Tan/white dense clay	2113'	2115'
Multicolor sandy clay	2115'	2133'
Grayish green sandy clay w/ hard brown clay streaks	2133'	2196'
Gray (dry) dense clay w/ hard brown clay streaks	2196'	2246'
Tan MF sand w/ multicolor clay lenses	2246'	2257'
OTHER COMMENTS:		
I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT		
<u>James E. ...</u>	<u>4038</u>	<u>3-2-06</u>
Signature of Well Driller In Charge	License#	Date



**MAIL TO:**

WATER SUPPLY SECTION  
 DIVISION OF WATER RESOURCES  
 P.O. BOX 1401, 89 KINGS HIGHWAY  
 DOVER, DELAWARE 19903  
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PERMIT#	211368		LOCAL ID#	
PROPERTY OWNER	Town of Millsboro			
WELL CONTRACTOR	Uni-Tech Drilling Co., Inc		LIC#	928
	DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA	
	Hardpan	2257'	2258'	
	Multicolor sandy clay w/ some MF sand lenses	2258'	2330'	
	Gray clay	2330'	2366'	
	Gray MF sand w/ some gray clay lenses	2366'	2377'	
	Grayish black dense sandy clay w/ CMF sand lenses	2377'	2413'	
	Hardpan	2413'	2414'	
	Grayish black dense sandy clay w/ gray CMF sand lenses (good chatter)	2414'	2438'	
	Gray CMF sand w/ grayish black dense sandy clay lenses	2438'	2457'	
	Hardpan	2457'	2458'	
	Gray hard dense clay	2458'	2471'	
	Gray CMF sand w/ hard gray clay streaks	2471'	2476'	
	Gray hard clay w/ MF gray sand streaks	2476'	2501'	

OTHER COMMENTS:

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

Signature of Well Driller In Charge: James Evans License# 4038 Date 3-2-06