

# CENTER POINT TANK SERVICES

## INC

*Storage Tank Management Services*

**Boring ID**      GP-1

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat <b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-2' Concrete and gravel	19.2	
1			
2	2-3' Gray sandy loam	41	
3	3-4' Brown sandy loam	153	
4	4-5' Brown clayey sand	483 540	
5	5-6' Concrete-like fill material		
6	6-7' Gray/brown clayey sand, moist	>1500	
7	7-14' Gray silty sandy clay	907	<b>Sample @ 7'</b>
8		251	
9		32	
10		68	
11		71	
12		11.5	
13		5.7	
14	14-15' Gray silty sandy clay, wet	2.2	Wet @ base of boring but no water developed
15		3.6	<b>Sample @ 15'</b>
16	<b>End of boring @ 15'</b>		
17			
18			
19			
20			
21			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID** GP-2/TP-2

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Partly Cloudy, 60's	<b>Drilling Method:</b> Geoprobe
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b>
	<b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Concrete and gravel	212	
1	1-5' Black sandy silty clay, moist, high plasticity		
2			
3		42.5	
4			
5	5-10' Gray and tan sandy loam, with some small pebbles	620	<b>Sample @ 5.5'</b>
6		690	
6		647	
6		140.4	
7	7 3 inch layer of tan sand	363	
8		51	
9		958	<b>Sample @ 9'</b>
9		304	
10			
	<b>End of boring @ 10'</b>		
11			
12			
13			
14			
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16			
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19			
20			
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**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID** GP-3/TP-3

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Partly Cloudy, 60's	<b>Drilling Method:</b> Geoprobe
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> 11.30 <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt		
1	1-7' Brown sandy clay, moist, no odor		
2			
3		1.9	
4		0.2	
5		11.1	
6		1.2 6.9	
7	7-9' Gray sand with small round pebbles, no odor	8.6	
8		22	
9			
10	9-14' Gray sand with small round pebbles, odors	73	
11		455	
12		652	
13		557	
14		974	Sample @ 12.5'
15	14-15' Gray sand, wet	866	
16		36.9	
17			
18			
19			
20			
21	End of boring @ 15'		

**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID**    GP-4

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-2' Asphalt, light/tan concrete	1.5	
1			
2	2-4' Dark to light gray silty sandy loam, dry	4.5	
3		7.8	
4	4-9' Gray silty sand with small pebbles, dry, odors		
5			
6			
7			
8			
9	9-11.3' Gray silty sand, dry, odors	313	
10		704	
11		874	Sample @ 11'
12	<b>Refusal @ 11.3'</b>		
13			
14			
15			
16			
17			
18			
19			
20			
21			

**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID**      GP-5

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-11'		0-5': 3'/5' recovery
1			
2			
3			
4			
5		4.3	5-10': 4'/5' recovery
6			
7		4.3	
8			
9			
10		0.0	
		0.2	10-15'; 2.5'/5' recovery
11	As above, some micaceous material	0.4	<b>Sample @ 11'</b>
12	<b>Refusal @ 11'</b>		
13			
14			
15			
16			
17			
18			
19			
20			
21			

**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID**    GP-6

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt		0-5': 2'/5' recovery
1	1-10' Gray silty clayey very fine grained sand		
2			
3			
4			
5		576	
6		416	5-10': 3'/5' recovery
7		363	
8		344	
9		368	
10		576	
11	Refusal @ 10'		Sample @ 11'
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

# CENTER POINT TANK SERVICES

## INC

*Storage Tank Management Services*

**Boring ID**      GP-7

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>DTW:</b> NA <b>DTR:</b> NA
<b>Verified By:</b> Carl Rinkevich, PG	

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt		
1	1-2' Light brown/gray sand with gravel	830	
	Shale and quartzite material	1109	
2	2-3' Dark gray silty sand, soft, moist	1619	
3	3-4' Brown silty clay	1279	
4		1795	Sample @ 4'
5	<b>Refusal @ 4'</b>		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID** GP-8/TP-8

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> December 16, 2021
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Partly Cloudy, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> 12.15' <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Gravel and asphalt cap	10.9	0'-5': 2'/5' recovery
1	1-2' Dark brown to black silt with medium gravel	18.6	
2			
3			
4			
5	5-8' Reddish brown and gray silty clay loam	23	
6		7.1	
7		12.6	
8	8-15' Gray micaceous silt	124.3	
9		824.5	Sample @ 9'
10		1024	
11		38	
12		21	
13		5	
14			
15		2.4	Sample @ 15'
16	End of boring @ 15'		
17			
18			
19			
20			
21			



**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID** GP-9/MW-1

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 10, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 60's	<b>Drilling Method:</b> Geoprobe / Air Percussion
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2" / 3"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> 12.65' <b>DTR:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Gravel and asphalt cap	0.2	5'/5' Recovery
1	1-4' Dark gray/brown sandy silt, moist	0.2	
2		0.2	
3		0.2	
4		2.0	
5	5-8' Gray/brown silty sand, moist, very slight odors	8.9	Increasing sand content Becoming lighter in color with depth
6		8.9	<b>Sample @ 6.5'</b>
7			
8	8-12' Light brown wissihicken schist sapprolite		
9			
10	10' White quartz fragment		
11			
12	12' increase in sand and gravel	0.1	<b>Sample @ 12'</b>
13		0.2	
14			
15			
16	16-19' Same as above	0.1	
17			
18			
19			
20	<b>Refusal @ 19'</b>		<b>Well Construction Details:</b> 0-9' - 2" PVC Riser 9-19' - 2" 10-slot PVC Screen
21			Concrete Well Pad w/ Flushmount
22			0-6' - Bentonite Seal 6-9' - Annulus fill is unknown
23			9-19' - Sand

**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID** GP-10/MW-2

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 10, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 60's	<b>Drilling Method:</b> Geoprobe
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> 12.5' <b>DTR:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-0.5' Concrete	0.2	0-4': 1.5'/4' recovery
	0.5-1' Brown sandy shale	6.1	
1	1-1.5' Black sandy silt	23.1	
2			
3			
4	4-8' Gray sandy silt, with fine gravel, micaceous, very odorous	399	
5		412	
6		53	
7			
8	8-19.5' Gray sandy silt, moist, odors	55	Increasing sand content Decreasing gravel content
9		550.6	
10		877	
11			
12		975	
13			
14			
15		1013	<b>Sample @ 15'</b>
16		26.9	
17		6.9	
18		0.6	
19		0.4	<b>Sample @ 19'</b>
20	<b>Refusal @ 19.5'</b>		<b>Well Construction Details:</b> 0-9.5' - 2" PVC Riser 9.5-19.5' - 2" 10-slot PVC Screen
21			Concrete Well Pad w/ Flushmount
22			0-6' - Bentonite Seal
23			6-9.5' - Annulus fill is unknown 9.5-19.5' - Sand

<b>CENTER POINT TANK SERVICES</b> <b>INC</b> <i>Storage Tank Management Services</i>	<b>Boring ID</b> GP-11
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<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 10, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 60's	<b>Drilling Method:</b> Geoprobe / Air Percussion
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2" / 3"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> N/A <b>DTR:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt and silt	1.7	0-4': 2.5'/4' recovery
1		1.2	
2			
3			
4	4-6' Gray sandy silt	2.8	
5		13.5	
6		240.1	
7	7-8' Red silty clay	176.6	
8	8-19' Gray sandy silt	693	
9			
10		648	
11			
12		953	Sample @ 12'
13		223	
14		408	
15		14.6	
16		29.9	
17		20.2	
18		15.5	
19			
20	Refusal @ 19'		
21			
22			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID** GP-12/TP-4

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 11, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 60's	<b>Drilling Method:</b> Geoprobe
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> 11.7' <b>DTR:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Gravel and asphalt cap		0-4'; 3'/4' recovery
1	1-4' Sandy silt		
2			
3			
4	4-5' Light grayish black asphalt material	2.5	Piece of wood @ 4.5'
5	5-7' Dark brown to gray micaceous silty clay, slightly plastic	6.2	
6		2.3 0.7	
7	7-8' Dark brown to gray micaceous clayey silt, less plasticity, no odor	2.4 1.7	
8	8-10' Brownish gray clayey sand with fine gravel	1.2	
9			Wet @9'
10	10-12' Black silty sand, dry, no odor	60.7	Sample @ 9.5
11			
12	12-16' Brownish gray shaley silty sand		
13		3.2	Wet @ 13-14'
14			
15			
16	16-19.5' Brownish gray micaceous clayey silty sand	0.3	
17		0.4	
18		0.2	
19			
20	<b>Refusal @ 19.5'</b>		
21			



**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID**    GP-14

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 11, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue Merion Station, PA 19066	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 60's	<b>Drilling Method:</b> Geoprobe
<b>CPTS oversight:</b> Alexandra Gibat	<b>Borehole Dia.:</b> 2"
<b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Gravel and asphalt cap		
1	1-4' Gray silty sand, some medium gravel, dry		
2	1' layer as above, brown	963	
3		>850	
4	4-5' Gray silty sand, some medium gravel wet, odor		
5		1163	Sample @ 5'
6	<b>Refusal @ 5'</b>		
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

# CENTER POINT TANK SERVICES

## INC

*Storage Tank Management Services*

**Boring ID** GP-15/MW-4

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 11, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe / Air Percussion
<b>Weather:</b> Sunny, 60's	<b>Borehole Dia.:</b> 2" / 3"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> 11.50' <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt	0.2	0-4'; 2'/4' recovery
1	1-4' Brown silt	0.2	
2			
3			
4	4-8' Brown and grey silty clayey sand, moist	0.2	
5		28	
6		163	
7		28	
		11	
8	8-12' Blueish gray clay, moist, odors	0.2	
9		0.9	
10		4.3	
11		448	
		753	
12	12-16' Brown clay, moist, odors	561	
13		661	
		120	
14		236	
		112.5	
15	6" brown clay	221	
		67.1	
16	16-19' Dark brown clay with quartz fragments coarsening with depth, moist, odors	11.7	
17		14.4	
18		10.4	
		11	
19		22.2	
20	<b>Refusal @ 19'</b>		<b>Well Construction Details:</b> 0-7' - 2" PVC Riser 7-17' - 2" 10-slot PVC Screen  Concrete Well Pad w/ Flushmount 0-6' - Bentonite Seal 6-7' - Annulus fill is unknown 7-17' - Sand
21			
22			
23			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID**    GP-16

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> March 11, 2022
<b>Site/Boring Location:</b> 300 Montgomery Avenue	<b>Subcontractor:</b> C.S. Garber
Merion Station, PA 19066	<b>Drilling Method:</b> Geoprobe
<b>Weather:</b> Sunny, 60's	<b>Borehole Dia.:</b> 2"
<b>CPTS oversight:</b> Alexandra Gibat	<b>Verified By:</b> Carl Rinkevich, PG
	<b>DTW:</b> NA <b>DTR:</b> NA

Depth (feet)	Description	PID	Comments/Recovery
0	0-4'		0-4'; 2.5'/4' recovery
1		8.9	
2			
3			
4	4-7'		
5			
6			
7	7'		<b>Sample @ 7'</b>
8	<b>Refusal @ 7'</b>		
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			



**CENTER POINT TANK SERVICES**  
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*Storage Tank Management Services*

**Boring ID**      MW-5

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> February 8, 2023
<b>Site/Boring Location:</b> North end of lot, behind garage	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 40's	<b>Drilling Method:</b> Air Rotary
<b>CPTS oversight:</b> Abigail Atkinson	<b>Borehole Dia.:</b> 3"
<b>Verified By:</b> Carl Rinkevich, P.G.	<b>DTW:</b> 13.7' <b>DTB:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt		No odors observed in the borehole.
	1-1.5' Fill material		
2	1.5-2' Sandy loam, non-plastic, no odor, moist		
	2-4' Brown sandy silt, non-plastic, no odor, wet		
4			
6			
8			
10			
12			
14			
16			
18	End of boring @ 17.5'		<b>Well Construction Details:</b> 0-2.5' - 2" PVC Riser 2.5-17.5' - 2" 10-slot PVC Screen  Concrete Well Pad w/ Flushmount 0-2.5' - Annulus construction unknown 2.5-17.5' - Sand
20			
22			
24			
26			
28			
30			
32			
34			
36			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID**      MW-6

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> February 8, 2023
<b>Site/Boring Location:</b> Behind garage	<b>Subcontractor:</b> C.S. Garber
<b>Weather:</b> Sunny, 40's	<b>Drilling Method:</b> Air Rotary
<b>CPTS oversight:</b> Abigail Atkinson <b>Verified By:</b> Carl Rinkevich, PG	<b>Borehole Dia.:</b> 3"
	<b>DTW:</b> 12.4' <b>DTB:</b> 19'

Depth (feet)	Description	PID	Comments/Recovery
0	0-1' Asphalt		0-5' - No Recovery No odors observed in borehole
2			
4			
5-5.25'	Sandy silt, moist		
6	5.25-8' Sandy silt, hard, moist, non-plastic		
8	8-11' Silt, moist		
10			
11-12'	Silt loam, micaceous, moist		12-14' - Wet
12			
14	14-16' Sandy loam, dry		
16	16-19' Various colored sandy, moist		
18			
20	<b>End of boring @ 19'</b>		<b>Well Construction:</b> 0-2' - 2" PVS Riser 2-17' - 2" 10-Slot PVC Screen  Concrete Well Pad w/ Flushmount 0-2' - Annulus construction unknown 2-17' - Sand
22			
24			
26			
28			
30			
32			
34			
36			

**CENTER POINT TANK SERVICES**  
**INC**  
*Storage Tank Management Services*

**Boring ID**      MW-7

<b>Site Name:</b> Wark's Liberty Station	<b>Date:</b> February 8, 2023
<b>Site/Boring Location:</b> South end of lot, behind garage	<b>Subcontractor:</b> C.S. Garber
	<b>Drilling Method:</b> Air Rotary
<b>Weather:</b> Sunny, 40's	<b>Borehole Dia.:</b> 3"
<b>CPTS oversight:</b> Abigail Atkinson <b>Verified By:</b> Carl Rinkevich, PG	<b>DTW:</b> 9.3' <b>DTB:</b> N/A

Depth (feet)	Description	PID	Comments/Recovery
0	0-0.5'		
2			
4	4-7'		
6	7-8'		
8	8-12'		
10			
12	12-17'		
14			
16			
18	<b>End of boring @ 17'</b>		<b>Well Construction:</b>
20			0-2' - 2" PVS Riser
22			2-17' - 2" 10-Slot PVC Screen
24			Concrete Well Pad w/ Flushmount
26			0-2' - Annulus construction
28			unknown
30			2-17' - Sand
32			
34			
36			