

Well Location Sketch:

See MW02 MAP



Compliance - Engineering - Remediation  
 LT Environmental, Inc.  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW01	Project:	HSR-DREYER
Date:	12/11/2009	Project Number:	KMG 04552
Logged By:	J. Solomon	Drilled By:	Drill Pro
Elevation:		Drilling Method:	Direct Push
Detector:	Mini RAE 2000 PID	Sampling Method:	CONTINUOUS
Gravel Pack:	10-20 Silica Sand	Seal:	BENTONITE CRUMBLE
Casing Type:	Schedule 40 PVC	Grout:	Sakrete
Screen Type:	Schedule 40 PVC	Diameter:	1"
	Slot: 0.01	Length:	6'
		Hole Diameter:	2.5"
		Total Depth:	16'
		Depth to Liquid:	—
		Depth to Water:	~ 7'

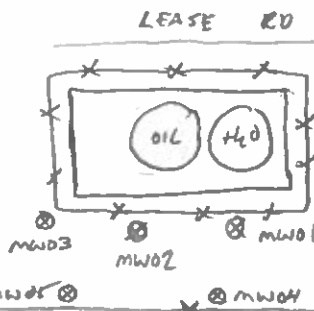
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
LOW	moist	0.4			2		3	SC	GEOLOGIC IDENTICAL TO MW02	
					4					
LOW		0.2			6		4	CL	DARK GREY STAIN W/ STRONG HL	
		97			8				ODOR 7-8'	
					10		4	CL		
MED	WET	1257		NS	12				LIGHT GREY STAIN W/ STRONG HL	
					14		4		ODOR 8-15.5'	
MED		40			16			SP	BROWN SAND @ 15' bgs	
					18				TD: 15' bgs	
					20					
					22				STEEL PROTECTIVE CASING	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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## Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW02	Project:	HSR - DREJER
Date:	12/11/2009	Project Number:	KMG-09552
Logged By:	J. Solomon	Drilled By:	Drill Pro
Drilling Method:	Direct Push	Sampling Method:	CONTINUOUS
Seal:	BENTONITE CRUMBLE	Grout:	Sakrete
Gravel Pack:	10-20 Silica Sand	Hole Diameter:	2.5"
Casing Type:	Schedule 40 PVC	Depth to Liquid:	-
Screen Type:	Schedule 40 PVC	Total Depth:	161
Slot:	0.01	Depth to Water:	~ 7'
Diameter:	1"		
Length:	2'		
Diameter:	1"		
Length:	10'		

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2		3	SC	CLAYES - SAND, MOIST, BRWN, SLIGHT PLAST, FC SAND.	
LOW	MOIST	0.2			4					
					6		3.5	LL	SANDS - CLAY, LOW PLAST, F-M GRAIN, LIGHT BRWN, MOIST	
		0.4		NA	8			CL	SANDS - CLAY, M-H PLAST, TAN, WET, NO STAIN / ODOR	
LOW	WET				10		3	CL	SAND, PEARLS-GRADED F-GRAIN, LTN FINES, WET, MILD ODOR.	
		156			12			SP	GRES STAIN (11-15')	
LOW	WET				14		4	SP	SAND AS ABOVE F-M GRAIN, GRES STAIN, MOD - STRNG ODOR	
		5.5			16					
LOW					18				BRWN SAND 15-16' 555	
					20				TD=16' 555	
					22					
					24				STEEL PROTECTIVE CASING	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:

SEE MW02 MAP



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW03 Project: HSR - DREVER

Date: 12/11/2009 Project Number: KMG-05552

Logged By: J. Solomon Drilled By: Drill Pro

Elevation: Detector: Mini RAE 2000 PID Drilling Method: Direct Push Sampling Method: CONTINUOUS

Gravel Pack: 10-20 Silica Sand Seal: BENTONITE CAULKES Grout: Sakrete

Casing Type: Schedule 40 PVC Diameter: 1" Length: 3' Hole Diameter: 2.5" Depth to Liquid: -

Screen Type: Schedule 40 PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 16' Depth to Water: ~7

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
------------------------	------------------	-------------	----------	----------	------------------	------------	----------	----------------	-------------------	-------------------------

					0					
					2					
LOW	MOIST				4	3		CL	SANDS - CLAY, BROWN, LOW PLAST, MOIST	
		0.6			6	4		CL	SANDS - CLAY, LOW PLAST, F-M GRAIN, MOIST	
LOW		1.5			8			CL	SANDS - CLAY, WET, MED PLAST, SOFT, TAN, NO STAIN / IDIR	
	WET	2.1			10	35		CL	SAND, PEBBLE - GRADED, M - GRAIN, BROWN, WET	
MED					12			SP		
					14	4		SP	SAND AS ABOVE, TIGHTLY PACKED.	
HIGH		7.1			16				TD = 16' bgs	
					18					
					20					
					22				STEEL PROTECTIVE CASING	
					24				LAKE TO 13'	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW05</i>	Project: <i>HSR - DREBEK</i>
Date: <i>12/11/2009</i>	Project Number: <i>KME 09552</i>
Logged By: <i>J. Solomon</i>	Drilled By: <i>Drill Pro</i>
Drilling Method: <i>Direct Push</i>	Sampling Method: <i>CONTINUOUS</i>
Seal: <i>BENTONITE CRUMBLE</i>	Grout: <i>Sakrete</i>
Diameter: <i>1"</i>	Length: <i>6'</i>
Diameter: <i>1"</i>	Length: <i>5'</i>
Hole Diameter: <i>2.5"</i>	Depth to Liquid: <i>—</i>
Total Depth: <i>11'</i>	Depth to Water: <i>~ 7'</i>

Elevation:

Detector:

Mini RAE 2000 PID

Gravel Pack:

10-20 Silica Sand

Casing Type:

Schedule 40 PVC

Screen Type:

Schedule 40 PVC

Slot:

0.01

Diameter:

Length:

Diameter:

Length:

Hole Diameter:

Depth to Liquid:

Total Depth:

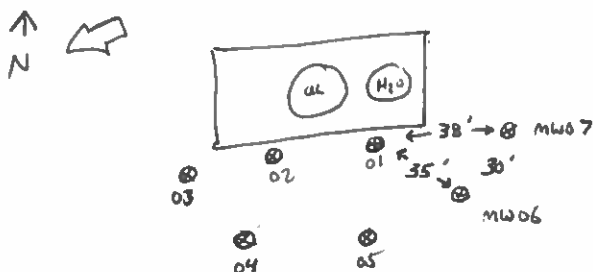
Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2	2.5		SC	CLAYED - SAND, HARD, CRUMBLY w/ SLIGHT PLAST, MOIST, ORK BROWN	
LOW	MOIST				4					
		0.2			6	4		CL	SANDS - CLAY, LOW-MED PLAST, BROWN, MOIST	
	VM			NS	8			CL	SANDS - CLAY, WET, MED PLAST, SOFT	
MED		0.6			10	3'			NO STAIN 100IN	
	WET	0.8			12			SP	REFUSAL @ 11', VERY HARD - PACKED SAND (10-11' bgs)	
HIGH					14					
					16				TD = 11' bgs	
					18					
					20				STEEL PROTECTIVE CASING	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW06	Project:	HSR-DREGER 5-5
Date:	2/10/10	Project Number:	KMG-09552
Logged By:	J. Solomon	Drilled By:	ACI
Drilling Method:	DIRECT PUSH	Sampling Method:	CONTINUOUS
Gravel Pack:	10-20 SILICA SAND	Seal:	BENTONITE CHIP
Casing Type:	SCH 40 PVC	Grout:	QUIKRETE
Screen Type:	SCH 40 PVC	Slot:	0.01
Diameter:	1"	Length:	5'
Diameter:	1"	Length:	10'
Hole Diameter:	2"	Total Depth:	15'
Depth to Liquid:		Depth to Water:	N7'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2			SC	CLAYED - SAND, LOW PLAST, MILD, LIGHT BROWN, NO STAIN/ODOR.	
					4			5'		
					6					
					8			5'	CLAYED - SAND, SLIGHT PLAST, MILD @ 7' bgs, stain @ 10' bgs w/ mild odor. F-G SAND.	
					10					
					12			SP	SAND, FINELS - GRADED, M-GRAIN, SLIGHT STAIN TO 13', MILD ODOR, NO FINES.	
					14			4.5'		
					16			SP	SAME AS ABOVE, HARD PACKED, NO STAIN	
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

on Sketch:



See MW06 MAP



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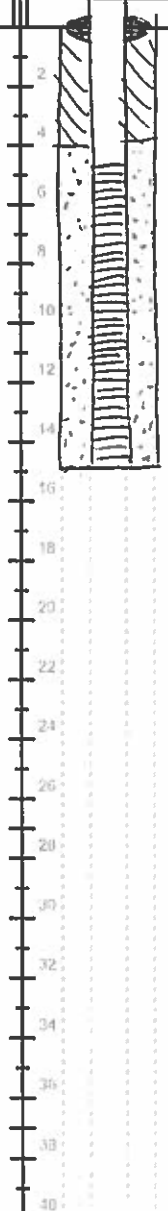
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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

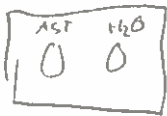
Boring/Well Number: <b>MW07</b>	Project: <b>HSR - DRYER 5-5</b>
Date: <b>2/10/10</b>	Project Number: <b>KMG 09552</b>
Logged By: <b>J. Solomon</b>	Drilled By: <b>ACI</b>
Elevation:	Drilling Method: <b>DIRECT PUSH</b>
Detector: <b>MINI RAE 2000</b>	Sampling Method: <b>CONTINUOUS</b>
Gravel Pack: <b>10-20 SILICA</b>	Seal: <b>BENTONITE CHIPS</b>
Casing Type: <b>SCH 40 PVC</b>	Grout: <b>QUIKRETE</b>
Screen Type: <b>SCH 40 PVC</b>	Slot: <b>0.01</b>
Diameter: <b>1"</b>	Length: <b>5'</b>
Hole Diameter: <b>2"</b>	Depth to Liquid: <b>-</b>
Total Depth: <b>15'</b>	Depth to Water: <b>~7'</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2					
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

TD = 15' bgs  
Steel Protective Casing



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW08

Project:

HSR-Dreyer 5-5

Date:

4-8-10

Project Number:

KMG 09552

Logged By:

MD

Drilled By:

ACI

Elevation:

Detector:

MiniBac 2000

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

None

Casing Type:

PVC

Diameter:

1"

Length:

5' +

Hole Diameter:

2.5"

Depth to Liquid:

~7.5

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

~7.5

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
LOW	Moist	0.2	NO		0				0-7.5 Layer sand, brown, moist, no odor	
					2					
					4		4'			
					6				7.5-9 AA, wet, tan	
LOW	WET	0.2			8		4		9-15 Sand, med-grained, grayish-brown, sat., no odor	
	SAT.				10					
					12					
MED		0.5			14		4'		TD = 15' bgs	
					16				Screen = 5'-15' bgs	
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number:

MWO?

Project:

HSR-Drayer 7-5

Date:

4-8-10

Project Number:

KM 609552

Logged By:

Drilled By:

A+I

Elevation:

Detector:

MiniPac 2000

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

Casing Type:

PVC

Diameter:

1"

Length:

5'±

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

7.5

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
LOW	moist	0.0			0				0-1 clayey sand, brown, moist, no odor	
					2					
					4		5		1-5 clayey-silt, tan, moist, no odor	
					6					
LOW	WET	12.2	///		8		4		5-6 AA, dark brown	
	S&T				10				6-7.5 clayey-sand, tan, moist, no odor	
					12					
MED		1015	///		14		5		7.5-9.5 AA, slight gray staining, odor	
					16					
					18				9.5-11 sand, n-grained, tan saturated, no odor	
					20					
					22				11-13 AA, some clay	
					24				13-15 AA, gray & black staining, odor	
					26					
					28					
					30				TP = 15' bgs	
					32				Screen = 5'-15' bgs	
					34					
					36					
					38					
					40					



Well Location Sketch:

See MW08



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW10

Project:

1-HR-Dryer 5-5

Date:

4-8-10

Project Number:

KMG09552

Logged By:

MO

Drilled By:

ACI

Elevation:

Detector:

MiniRae 2000

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10#20 Silica sand

4-15' bgs

Seal:

Bentonite chips

0-4' bgs

Grout:

Casing Type:

PVC

Diameter:

1"

Length:

5'

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

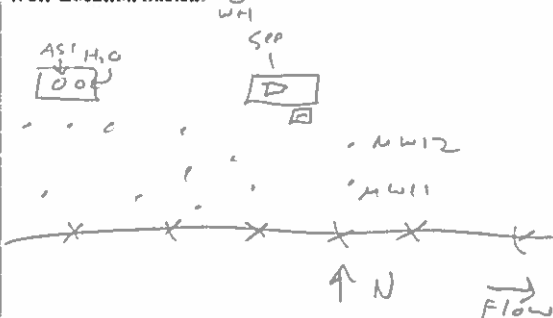
~7.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
LOW	Moist	6.8			0				0-4 clayey sand, brown, moist, no odor	
					2					
					4		4		4-5.5 AA, tan	
					6				5.5-6.5 AA, dark brown	
	WET	364			8		4		6.5-7.5 AA, tan	
LOW	sat.				10				7.5-9.5 AA, gray staining, odor	
		370			12				9.5-15 Sand, red staining, sat. gray & black staining, odor	
MED					14		5'			
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

TD=15'

Screen = 5'-15' bgs

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW12-3-

Project:

Project 5-5

Date:

5-21-10

Project Number:

KMG09552

Logged By:

MO

Drilled By:

DrillPro

Drilling Method:

Direct push

Sampling Method:

Continuous

Seal:

Bentonite chips

0-5' bgs

Grout:

NA

Diameter:

1"

Length:

6'

Hole Diameter:

2.5"

Depth to Liquid:

2'

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

7'

Elevation:

Detector:

minirac 3000

Gravel Pack:

10-30 Silica sand

5-16' bgs

Casing Type:

PVC

Screen Type:

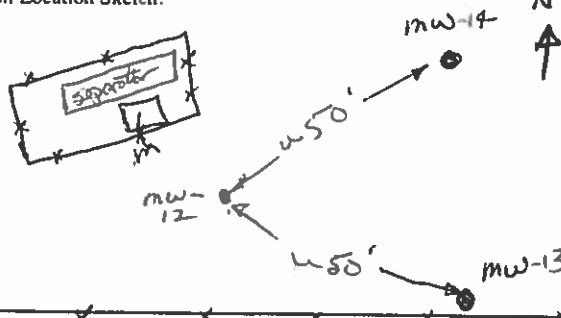
PVC

Slot:

0.010

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
LOW	Moist	3.8			0				0-1 - Topsoil, moist, organic, dk brown, no odor	
					2		3'		1-7 silty clay, some sand, moist	
					4					
MED		1.8			6		3'		7-9 AA, saturated, lt brown	
	Sat.				8					
		4.6			10		3'		9-16 Sand, fine grained, some sand, yellow brown, no odor	
					12					
		2.3			14		3'		Sand came in to 15' bgs	
					16				TD = 15'	
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

## Well Location Sketch:



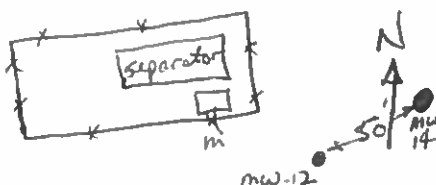
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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <b>MW-13</b>	Project: <b>Dreyer 5-5</b>
Date: <b>6-11-10</b>	Project Number: <b>KMG 10619</b>
Logged By: <b>mcu</b>	Drilled By: <b>Drill Pro</b>
Elevation: <b>mini-Rae 2000</b>	Drilling Method: <b>Direct Push</b>
Gravel Pack: <b>10-20 silica sand 3'-14.5'</b>	Sampling Method: <b>continuous</b>
Casing Type: <b>PVC</b>	Seal: <b>bentonite 0.5'-3'</b>
Screen Type: <b>PVC</b>	Grout: <b>secrete 0-0.5'</b>
Slot: <b>0.010</b>	Diameter: <b>1"</b>
	Length: <b>4.5'</b>
	Hole Diameter: <b>2 1/2"</b>
	Depth to Liquid: <b>14.5'</b>
	Depth to Water: <b>~9'</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2			CL	Clay, silty, sandy, brown, medium moist	
					4					
					6			CL	Clay, silty, sandy, brown to 1, brown, moist to wet at 9' bgs	
					8					
					10					
					12					
					14			SW	Sand, v.f.g. - v.c.g., olive brown, wet, dense, possible weathered bedrock	
					16				TD = 14.5' bgs	
					18				Refusal	
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>MW-14</i>	Project: <i>Dryer 5-5</i>
Date: <i>6-11-10</i>	Project Number: <i>KMG 10619</i>
Logged By: <i>MCU</i>	Drilled By: <i>Drill Pro</i>
Drilling Method: <i>Direct Push</i>	Sampling Method: <i>Continuous</i>
Seal: <i>barite 0.5-5'</i>	Grout: <i>sakrete/concrete 0-0.5'</i>
Casing Type: <i>PVC</i>	Hole Diameter: <i>2 1/2"</i>
Screen Type: <i>PVC</i>	Depth to Liquid: <i>—</i>
Slot: <i>0.010</i>	Total Depth: <i>16'</i>
Diameter: <i>1"</i>	Depth to Water: <i>~9'</i>
Length: <i>6'</i>	
Length: <i>10'</i>	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2			CL	Clay, silty, some sand, brown, med-moist, no odor	
					4					
					6			CL		
					8				Clay, silty, sandy, med-moist to wet at 9' bgs (1. brown), no odor	
					10					
					12					
					14			SW	Sand, v.fg.-v.c.g., some pebble size rocks, brown, wet	
					16				TD=16' bgs	
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

NOTES:

Page 1 of 1

Well Location Sketch:

See SBO2



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW15 Project: HSR-Dreyer 5-5

Date: 6-22-10 Project Number: KMG-09552

Logged By: CR Drilled By: ACI

Elevation: Detector: Drilling Method: Direct push Sampling Method: Continuous

Gravel Pack: 10-20 Silica sand Seal: Bentonite chips Grout: concrete

Casing Type: PVC Diameter: 1" Length: 5 Hole Diameter: 2.5" Depth to Liquid: —

Screen Type: PVC Slot: 0.010 Diameter: 1" Length: 15 Total Depth: 20 Depth to Water: 7'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
	Dry	0.0			0				0'-7' Brown Fine Sand and Silt, No odor, No stain, Dry	
					2	60	54			
					4				7'-10' Light Tan Wet Sandy Silt, Trace Gravel, No odor, No stain, cohesive, silt	
					6		54			
	wet	0.0			8	62				
					10				10'-13 Gray-Tan Wet M-F Sand, Trace Silt, stained, odor, 2-inch black lense @ 13', soft	
		82.8		10'	12	60	52			
					14				13'-20' Red-Brown Wet M-F Sand, No stain, odor, Hard, Little clay	
		7.2		13'	16	48	60			
					18				19'-20' No odor	
					20	36	60			
					22				Refusal @ 22'	
					24					
					26				TD of MW15: 20'	
					28				Screen 5'-20'	
					30				Sand 4'-20'	
					32				Bentonite 0'-4'	
					34				Steel Riser 2.5' stickup	
					36					
					38					
					40					

Well Location Sketch:

See SBo2



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW16 Project: HSR-Dreyer S-5

Date: 6-22-10 Project Number: RMG 09552

Logged By: CR Drilled By: ACI



Elevation: Detector: Drilling Method: Direct push Sampling Method: Continuous

Gravel Pack: 10-20 Silica sand Seal: Bentonite chips Grout: concrete

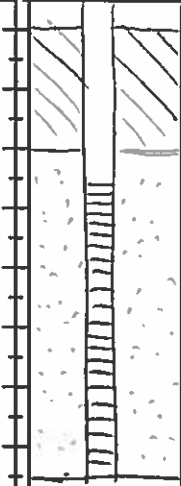
Casing Type: PVC Diameter: 1" Length: Hole Diameter: 2.5" Depth to Liquid:

Screen Type: PVC Slot: 0.010 Diameter: 1" Length: Total Depth: 7.5' Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
	dry	1.1			0				0'-7.5' Brown F Sand and Silt, Dry, No odor, No stain	
					2	60	60			
					4				7.5'-10' Tan and Gray-Stained, Moist, Silt w/ some fine sand, odor, stained only 8.5'-9.5' moderately cohesive	
	moist			8.5'	6					
	↓			9.5'	8	60	48			
	wet	55.1		10'	10				10'-16.5' wet, odor, Green-Gray M-F Sand, soft	
		252			12	60	60		16.5'-19' wet C-F Sand, Light Brown, No odor, no stain	
					14					
					16					
				16.5'	18	48	60			
		2.3			20				Exploration Terminated @ 19'	
					22				MW16 TD = 18.5'	
					24				Screen = 3.5'-18.5'	
					26				Sand = 2.5'-18.5'	
					28				bentonite = 0'-2.5'	
					30				Steel Riser = 2.5' stickup	
					32					
					34					
					36					
					38					
					40					

<b>Location Map:</b> 		 <b>Compliance, Engineering, Remediation LT Environmental, Inc.</b> 4400 West 46th Ave. Denver, Colorado 80212	
<b>BORING LOG/MONITORING WELL COMPLETION DIAGRAM</b>			
Boring/Well Number: <u>MW17</u>		Project: <u>HSR - DREGER 5-5</u>	
Date: <u>9/2/2010</u>		Project Number: <u>KMG09552</u>	
Logged By: <u>Justin Solomon</u>		Drilled By: <u>ACI Services</u>	
Elevation: _____		Detector: <u>MiniRae 2000 PID</u>	
Gravel Pack: <u>10-20 Silica Sand</u>		Drilling Method: <u>Direct Push</u>	
Casing Type: <u>Schedule 40 PVC</u>		Seal: <u>Bentonite Chip</u>	
Screen Type: <u>Schedule 40 PVC</u>		Grout: <u>Concrete</u>	
Slot: <u>0.01</u>		Diameter: <u>1"</u> Length: <u>5'</u>	
Diameter: <u>1"</u> Length: <u>10'</u>		Hole Diameter: <u>2.25"</u> Depth to Liquid: <u>-</u>	
Total Depth: <u>15'</u>		Depth to Water: <u>~ 7-8'</u>	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					2			NO SAMPLING, DRIVE PT TO TD           TD = 15' bgs SCREEN = 5-15' bgs STEEL PROTECTIVE CASING	
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

See MW17 MAP



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW18	Project:	HSR-DREGER 5-5
Date:	9/2/2010	Project Number:	KM609552
Logged By:	Justin Solomon	Drilled By:	ACI Services
Elevation:		Drilling Method:	Direct Push
Detector:	MiniRae 2000 PID	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite Chip
Casing Type:	Schedule 40 PVC	Diameter:	1"
Screen Type:	Schedule 40 PVC	Length:	5'
		Hole Diameter:	2.25"
		Depth to Liquid:	
		Total Depth:	15'
		Depth to Water:	~6'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
LOW				NA	0			SANDY-CLAY, LOW PLAST, MOIST, BROWN	
					2				
					4	5'		CLAYED - SAND w/ SILT, MOIST, BROWN, LOW PLAST	
LOW	MOIST	2.1			6			SILT, FG-SAND, CLAY, WET, SOFT, TAN	
					8	4'		CLAYED - SAND, BROWN, WET, MED PLAST, SOFT PLIABLE	
	WET	1.7			10			SAND, FG, NO FINES, WET, TIGHTLY PACKED, BLACK/TAN.	
LOW		1.2			12	4'			
					14				
HIGH		1.8			16			TD=15'	
					18			SCREEN = 5-15'	
					20			STEEL PROTECTIVE CASING	
					22				
					24				
					26				
					28				
					30				



Location Map:

See MW17 MAP



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW19		Project: HSR - OREYER 5-5	
Date: 9/2/2010		Project Number: KMG 09552	
Logged By: Justin Solomon		Drilled By: ACI Services	
Drilling Method: Direct Push		Sampling Method: Continuous	
Seal: Bentonite Chip		Grout: NA	
Diameter: 1"	Length: 5'	Hole Diameter: 2.25"	Depth to Liquid: —
Diameter: 1"	Length: 10'	Total Depth: 15'	Depth to Water: ~7.5'

Elevation:

Detector:

MiniRae 2000 PID

Gravel Pack:

10-20 Silica Sand

Casing Type:

Schedule 40 PVC

Screen Type:

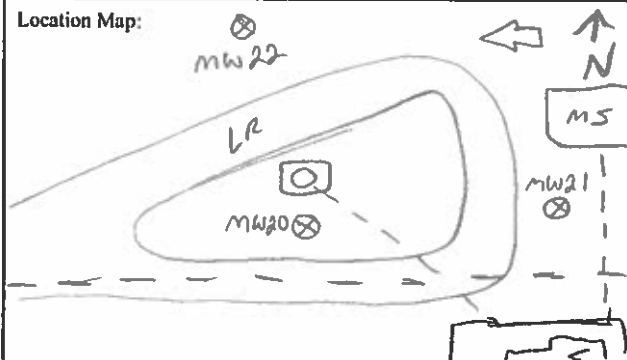
Schedule 40 PVC

Slot:

0.01

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
LOW	DRY		↑	NA	0			CLAYES - SILT, SLIGHT MOIST, SLIGHT PLAST, LIGHT BROWN	
					2	5			
					4			CLAYES - SILT, SOME FINE SAND, MOIST, BROWN	
LOW	MOIST	1.3			6			LOW PLAST	
		1.3			8	4.5		CLAYES - SAND, F-M GRAIN, BROWN, MOIST	
					10			SLIGHT PLAST	
MED	WET	1.6			12	6'		CLAY, SILT, SAND (FG), WET, SOFT, TAN	
					14			PLIABLE	
HIGH					16			CLAYES - SAND, M-GRAIN, WET, SLIGHT PLAST	
					18			COULD NOT RETRIEVE 10-15'	
					20			TO = 15' S.S.	
					22			SCREEN = 5-15'	
					24			STEEL PROTECTIVE CASING	
					26				
					28				
					30				

Location Map:



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### BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW20	Project:	HSR-DREYER 5-5
Date:	9/2/2010	Project Number:	KMG09552
Logged By:	Justin Solomon	Drilled By:	ACI Services
Drilling Method:	Direct Push	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite Chip
Casing Type:	Schedule 40 PVC	Diameter:	1"
Screen Type:	Schedule 40 PVC	Length:	5'
Slot:	0.01	Hole Diameter:	2.25"
		Total Depth:	15'
		Depth to Liquid:	—
		Depth to Water:	7-8'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			NO SAMPLING, DRIVE PT TO TD.  TD = 15' bgs SCREEN = 5-15' bgs STEEL PROTECTIVE CASING	
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

See MW20 MAP



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	MW21	Project:	HSR-DREBER 5-5
Date:	9/2/2010	Project Number:	KMG-09552
Logged By:	Justin Solomon	Drilled By:	ACI Services
Elevation:		Drilling Method:	Direct Push
Detector:	MiniRae 2000 PID	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite Chip
Casing Type:	Schedule 40 PVC	Grout:	NA
Screen Type:	Schedule 40 PVC	Diameter:	1"
Slot:	0.01	Length:	3'
		Hole Diameter:	2.25"
		Total Depth:	13.5'
		Depth to Liquid:	—
		Depth to Water:	~7-8'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					2			DRIVE PT TO TD, NO SAMPLING	
					4				
					6				
					8				
					10				
					12				
					14			TD = 13.5' bss (refusal)	
					16			Screen = 3-13' bss	
					18			STEEL PROTECTIVE CASING	
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

See MW20 MAP



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### BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW22	Project:	HSR-DRESER 5-5
Date:	9/2/2010	Project Number:	KMG09552
Logged By:	Justin Solomon	Drilled By:	ACI Services
Elevation:		Drilling Method:	Direct Push
Detector:	MiniRae 2000 PID	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite Chip
Casing Type:	Schedule 40 PVC	Grout:	NA
Screen Type:	Schedule 40 PVC	Diameter:	1"
	Slot: 0.01	Length:	5'
		Hole Diameter:	2.25"
		Total Depth:	15'
		Depth to Liquid:	-
		Depth to Water:	~7.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	DRY		↑	NA	0			SILT/FG SAND, DRY, BROWN, CRUMBLY	
LOW			↑		2	5'		CLAYES-SAND/SILT, FG SAND, MOIST, SLIGHT PLAST, BROWN.	
	MOIST	1.4	↑		4			CLAYES-SAND, F-M GRAIN, SLIGHT PLAST	
		2.7	↑		6			AS ABOVE, WET, SOFT	
			↑		8	5'		SAND, LTN FINES, WET, BROWN/DARK GRAINS	
	WET	0.7	↑		10			SAND, F-M GRAIN, LTN FINES, WET, TIGHTLY PACKED	
			↑		12	4'			
			↑		14				
			↑		16				
			↑		18				
			↑		20				
			↑		22				
			↑		24				
			↑		26				
			↑		28				
			↑		30				

Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW 23

Project:

HSR Dreyer 5-5

Date:

10/5/10

Project Number:

KMG-09552

Logged By:

PH

Drilled By:

ACI

Elevation:

Detector:

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

U/A

Casing Type:

PVC

Diameter:

1"

Length:

5'

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0				Not cored Steel protective casing installed location GPSed	
					2					
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW 24

Project:

H5R Dwyer 5-5

Date:

10/5/10

Project Number:

KUG09552

Logged By:

PH

Drilled By:

ACI

Elevation:

Detector:

PID

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

N/A

Casing Type:

PVC

Diameter:

1"

Length:

10'

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

5'

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
1041	Dry	0.0	No		0				Sandy clay, Med Brown	
					2				Dry to 4.8' moist	
					4				Silt consistency Low Plast.	
					6				↓ to 8'	
					8					
					10				8-10' Sandy clay	
					12				Yan light soft med. Plasticity	
					14				10-12' " "	
					16				12' to T.D. red. silty clay	
					18				green sand silty fines	
					20				hydrated,	
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Steel protective casing	

Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW 25

Project: HSR-Drexel 55

Date: 10/15/10

Project Number: K71609552

Logged By: PH

Drilled By: ACT

Elevation:

Detector: PID

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

N/A

Casing Type:

PVC

Diameter:

1"

Length:

10'

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
low	Dry	0.0	none	N/A	0				Sandy clay med brn low plast. moist @ 7' to 9.0' bgs	
med					2					
					4					
					6					
low	next wet				8				8'-10' light tan med plasticity silty clay moist, soft	
					10				" " to 11.5	
					12				11.5' to T.D. med grained grey green sand clean, no fines	
					14				DTW ~ 9.0'	
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW26

Project: HSR Dryer 5-5

Date: 10/5/00

Project Number: RMG09552

Logged By: PH

Drilled By: ACI

Elevation:

Detector:

Drilling Method:

Direct push

Sampling Method:

Continuous

Gravel Pack:

10-20 Silica sand

Seal:

Bentonite chips

Grout:

Casing Type:

PVC

Diameter:

1"

Length:

10'

Hole Diameter:

2.5"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.010

Diameter:

1"

Length:

10'

Total Depth:

15'

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
Low					0				Not cored	
					2					
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					



Location Map:

NA

MW27

MW25

MW28

MW24

MW23

MW18



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: MW27 Project: HSR-Dreyer 5-5

Date: 11-03-10 Project Number: KMG 09552

Logged By: Chris Roy Drilled By: DP

Elevation: Detector: MiniRae 2000 PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Seal: Bentonite Grout: Concrete

Casing Type: Diameter: Length: Hole Diameter: 2.25" Depth to Liquid: 10.5'

Screen Type: Slot: Diameter: Length: Total Depth: 15' Depth to Water: 12'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	dry	NA	none	NA	0			0'-10.5' Sandy Silt, Brown, No stain, No odor, Dry	2.5' Stickup
					2	4'			
					4			10.5'-12' Silty Sand, Light Brown, No stain, No odor, moist	
					6	4'			
					8			12'-13.5' Sandy Clay, Light Brown, No stain, No odor, wet, soft, slight plasticity	
	moist				10	4'			
	wet				12			13.5'-15' Silty Sand, Light Brown, No stain, No odor, wet	
					14	3'			
					16				
					18				
					20			TD = 15'	
					22			Screen = 5'-15'	
					24			2.5' Steel Riser Stickup	
					26				
					28				
					30				

Location Map:



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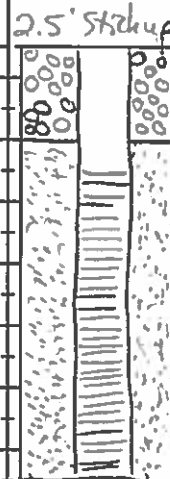
See MW 27

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	MW 28	Project:	HSR-Dryer 5-5
Date:	11-03-10	Project Number:	KMG-09552
Logged By:	Chris Roy	Drilled By:	DP
Elevation:	Detector:	Drilling Method:	Sampling Method:
	MiniRae 2000 PID	Direct Push	Continuous
Gravel Pack:	Seal:	Grout:	
	Bentonite	Concrete	
Casing Type:	Diameter:	Length:	Hole Diameter:
			2.25"
Screen Type:	Slot:	Diameter:	Length:
			13'
			Depth to Liquid:
			NM
			Depth to Water:
			NM

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Not Sampled  
 Refusal @ 13'  
 TD: 13'  
 Screen: 3'-13'  
 Steel Riser: 2.5' Startup



Well Location Sketch:

See MW20



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW07 R Project: HSR Dreyer 5-5

Date: 02/13/14 Project Number: kmg09552

Logged By: Jeremy E. Plimza  
Daniel Burns Drilled By: Drill Pro

Elevation: Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: None

Casing Type: PVC Diameter: 1" Length: 5.5' Hole Diameter: 3" Depth to Liquid:

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 15.5' Depth to Water: 14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
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					0					
	Moist	0.0	None	NA	2	4	4	CC	0-10' Sandy clay, med brown, moist, mod cohesion, med plasticity, stain from 7-9', odor 7-10'	
		0.0			4					
		338.1	Stain		6	4	4			
		2068			8					
		1195	Stain		10	4	4		10-15.5' Fine sand, med brown, wet at 14', odor, stain 14-15.5'	
					12			SP		
					14	35	35			
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Refusal at 15.5'  
Steel riser protector

Well Location Sketch:

Sec MW20R



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4600 W. 60th Avenue

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW16 R

Project:

HSR Dreyer 5-5

Date:

2/13/14

Project Number:

kmg09552

Logged By:

Jeremy Espinoza  
Daniel Burns

Drilled By:

Drill Pro

Elevation:

Detector:

PID

Drilling Method:

Direct Push

Sampling Method:

Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

None

Casing Type:

PVC

Diameter:

1"

Length:

5.5'

Hole Diameter:

3"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

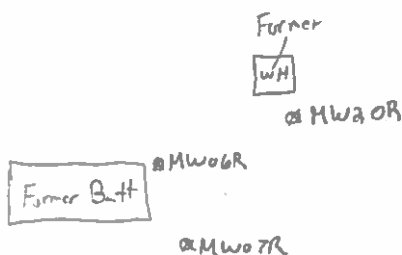
15.5

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Moist	0.0	None	NA	2	4	4		0-10' Sandy clay, med brown, moist, med cohesion, mod plasticity, skin and odor from 7'-9'	
		0.0			4					
		50.2	Stain		6	4	4			
		1997	None		8					
		1771			10	4	4		10'-15.5 Med sand, med brown, Moist, no skin, odor	
					12					
					14	35	35			
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Refusal at 15.5  
Steel riser protector

Well Location Sketch:



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW20R	Project:	HSR Dreyer 5-5
Date:	2/13/14	Project Number:	kmg09552
Logged By:	Jeremy Espinoza Daniel Burns	Drilled By:	Drill Pro
Drilling Method:	Direct Push	Sampling Method:	Continuous
Gravel Pack:	Silica Sand	Seal:	Bentonite
Casing Type:	PVC	Grout:	None
Screen Type:	PVC	Hole Diameter:	3"
Slot:	0.01	Depth to Liquid:	—
Diameter:	1"	Length:	5.5'
Diameter:	1"	Length:	10'
Total Depth:	15.5'	Depth to Water:	14'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Mwt	0.0	None	NA	2	4	4		0-11' Sandy clay, med brown, moist, mod cohesion low plasticity, no stain, no odor	
		0.0			4			CL	- odor, no stain 8-11'	
		70.4			6	4	4			
		2820			8				11-15.5' fine sand, med brown, moist, no stain, odor	
		820.4			10	4	4		- wet at 14'	
		2693			12					
					14	2	2	SP		
					16	1.5	1.5			
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Refusal at 15.5'

Steel riser protector