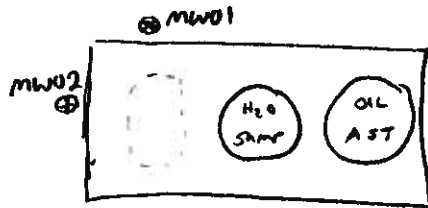


Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB1 / MW01	Project: SMITH ELSIE I #1
Date: 4/25/2008	Project Number: KMG06350
Logged By: Justin Solomon	Drilled By: Highplains Drilling
Drilling Method: Direct Push GeoProbe	Sampling Method: Continuous
Seal: Bentonite Chips	Grout: NA
Diameter: 1"	Length: 6'
Hole Diameter: 2"	Depth to Liquid: ~7'
Diameter: 1"	Length: 10'
Total Depth: 16'	Depth to Water: ~7'

Elevation:
 Detector:
MiniRae 2000 PID

Gravel Pack:
10-20 Silica Sand

Casing Type:
Schedule 40 PVC

Screen Type:
Schedule 40 PVC

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			BARE SOIL, 3" TOP SOIL	
LOW	MOIST	0.0			2	3.5'	SP	POORLY GRADED FINE SAND, MED BROWN, MOIST, NO FINES.	
					4		SC	CLAYED SAND W/ SILT, MED BROWN, MOIST, LOW PLASTICITY.	
					6	3.5'	SC	CLAYES. SILT, LOW PLAST, MOIST.	
MED	VERY MOIST	1,248			8			SILTS-CLAY, MED PLAST, MOIST, DRK GRAY HC STAIN W/ MOD ODOR.	
		3,824			10	3.5'	CH	SILTS-CLAY, MED-HIGH PLAST, MOIST, LIGHT TO DRK GRAY STAIN, HC ODOR	
MED		10,000 +		SB1 @ 10'	12		CL	GRAVELLS-CLAY, LOW PLAST, GRAY STAIN, STRONG HC ODOR.	
	MOIST	10,000 +			14	3.5'			
		274			16			HARD SILTS-CLAY (WEATHERED CLAY-STONE)	
HIGH					18			MILD HC STAIN / ODOR, NO GRAVEL.	
					20			TD = 15.5', REFUSAL ON COMPETENT CLAY STONE	
					22				
					24				
					26				
					28				
					30				

Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB2 / MW02 Project: SMITH ELSIE I #1

Date: 4/24/2008 Project Number: KMG06350

Logged By: Justin Solomon Drilled By: Highplains Drilling

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

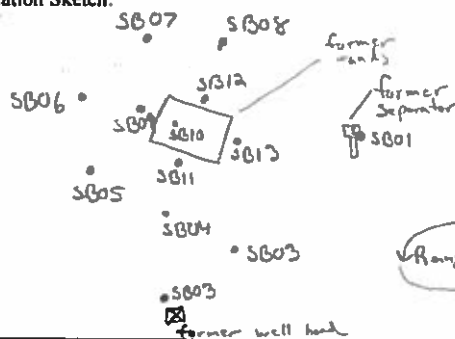
Gravel Pack: 10-20 Silica Sand Seal: Bentonite Chips Grout: NA

Casing Type: Schedule 40 PVC Diameter: 1" Length: 6' Hole Diameter: 2" 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	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			BARE SOIL, TOP SOIL (0-2")	
LOW	MOIST				2	3.75'	SP	POORLY GRADED FINE SAND, MOIST	
					4		SC	CLAYES SAND W/ SILT, MED BROWN MOIST, LOW PLAST.	
					6	3.0'	SC	SANDS - CLAY, MED BROWN, MED-HIGH PLAST, MOIST	
	VERD			7.5' SB2	8			SILTS - CLAY, VERD MOIST, HIGH PLAST, DRK GREY STAIN, STRONG HC ODOOR.	
MED	MOIST	669		7.5'	10	3.0'	CH	SILTS - CLAY, VERD MOIST, HIGH PLAST, LIGHT GREY STAIN, MOD ODOOR	
		63			12				
		616			14	4.0'	CL	GRAVELLS - CLAY, HEAVY STAINING / ODOOR, LOW PLAST, MOIST.	
	VERD	81			16			SLIGHT WETNESS IN GRAVELLS - CLAY AT 15', STRONG HC ODOOR	
HIGH	MOIST	360			18		BEDROCK	TD = 16' completed clay stone.	
					20				
					22				
					24				
					26				
					28				
					30				

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB01	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Drilling Method: Direct Push	Sampling Method: Continuous

Elevation:

Detector:

PID

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

Casing Type:

PVC

Diameter:

1"

Length:

10'

Hole Diameter:

3"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

20'

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					
					4				Hydrozone, not logged	
					6					
	Moist	0.0	None		8	2	2	CL	6-10' Clay, med brown, med plasticity, med cohesion, no stain, no odor, moist	
		0.0			10	4	4			
		0.0			12					
		0.0			14	4	4		10-18' Sandy clay, med brown, med plasticity, med cohesion, no stain, no odor, moist	
		0.0		SB01 @ 14'	16					
		0.0			18	4	4			
		0.0		SB01 @ 18'	20			Bedrock	18-20' Weathered claystone, orange to grey, no stain, no odor	
		0.0			22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:

See SBO1



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SBO2 Project: Smith Elsie GU #1

Date: 8/6/2014 Project Number: kmg0590

Logged By: Jeremy Espinoza Drilled By: Drill Pro

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

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid:

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' 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					
					4				Hydrous, not logged	
					6					
	Moist	0.0	None		8	2	2	CL	6-10' Clay, med brown, mod plasticity, mod cohesion, no skin, no odor, moist	
		0.0			10	4	4			
		0.0			12					
		0.0			14	4	4		10-18 Sandy clay med brown, mod plasticity, mod cohesion, no skin, no odor, moist	
		0.0		SBO2 @ 14'	16					
		0.0			18	4	4			
		0.0		SBO2 @ 18'	20			Bedrock	18-20 weathered claystone orange to grey, no skin, no odor	
		0.0			22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Refusal @ 18'

Well Location Sketch:



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See SBO1

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SBO3	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Elevation: PID	Drilling Method: Direct Push
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Grout: -
Screen Type: PVC	Slot: 0.01
Diameter: 1"	Length: 10'
Hole Diameter: 3"	Depth to Liquid: -
Diameter: 1"	Length: 10'
Total Depth: 20'	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					
					4					
					6					
					8	2	2	CL		
					10	4	4			
					12					
					14	4	4			
					16					
					18	4	4			
					20			Bedrock		
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Hydrovac, not logged

6-18' Sandy clay, med brown, med cohesion, med plasticity, no stain, no odor, moist at 8'

18-20' Weathered claystone, orange to grey, no stain, no odor

2" lense of coarse sand at 18 1/2'

Refusal at 20'

Well Location Sketch:

See SBO1



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SBO4	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Drilling Method: Direct Push	Sampling Method: Continuous
Seal: Bentonite	Grout: -

Elevation:	Detector: PID
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Gravel Pack: Silica Sand	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Casing Type: PVC	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water:
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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				Hydraulic, not logged	
					6					
	Moist	0.0			8	2	2	CL	6-10' Clay, med brown, med plasticity, med cohesion	
		0.0	None		10	4	4		moist, no stain, no odor	
		0.0			12					
		659	Stain		14	4	4		11-18' Sandy clay, med brown, med plasticity, med cohesion, stain, odor	
		1523		SB04 @ 14'	16					
		159			18	4	4			
		349			20			Bedrock	18-20' Weathered claystone, orange to grey, no stain, no odor	
		3.7		SB04 @ 19'	22					
		0.0	None		24					
		0.0			26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Refusal @ 20'

Well Location Sketch:



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See SB01

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	SB05			Project:	Smith Elsie GU #1		
Date:	8/6/2014			Project Number:	kmg0590		
Logged By:	Jeremy Espinoza			Drilled By:	Drill Pro		
Elevation:				Drilling Method:	Direct Push		
Detector:	PID			Sampling Method:	Continuous		
Gravel Pack:	Silica Sand			Seal:	Bentonite		
Casing Type:	PVC			Diameter:	1"	Length:	8'
Screen Type:	PVC			Hole Diameter:	3"	Depth to Liquid:	
	Slot: 0.01			Diameter:	1"	Length:	10'
				Total Depth:	18'	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					
					4				Hydronic, not logged	
					6					
	Moist	0.0	None		8	2	2	CL	6-13' Sandy clay, med brown, med cohesion, med plasticity, stain from 12-13'	
		0.0			10	4	2			
		0.0			12					
		42.3	Stain		14	4	4	Bedrock	13-18' Weathered claystone, orange to grey, no stain, odor	
		360	None		16					
		1231		SB05 @ 16'	18	2	2			
		632		SB05 @ 18'	20					
					22					
					24					
					26					
					28					
					30				Refusal at 18'	
					32					
					34					
					36					
					38					
					40					

Well Location Sketch:



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See SB01

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB06 Project: Smith Elsie GU #1

Date: 8/6/2014 Project Number: kmg0590

Logged By: Jeremy Espinoza Drilled By: Drill Pro

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

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' 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
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					0					
					2					
					4				Hydraulic, not logged	
					6					
					8	23		SP	6-8 Med Sand, med	
					10	43		CL	brown, moist stain and	
					12				odor from 7-8'	
					14	43			8-18' Sandy clay, grey,	
					16				mod cohesion, mod plasticity,	
					18	42			stain, odor	
					20			Bedrock	18'-20' Weathered	
					22				claystone, orange to	
					24				grey, no stain, odor	
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:



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See SB 01

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB07 Project: Smith Elsie GU #1Date: 8/6/2014 Project Number: kmg0590Logged By: Jeremy Espinoza Drilled By: Drill ProElevation: Detector: PID Drilling Method: Direct Push Sampling Method: ContinuousGravel Pack: Silica Sand Seal: Bentonite Grout: -Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' 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					
					4					
					6					
	Moist	0.0	None		8	2	2	CL	Hydrous, not logged	
		0.0			10	4	3		6-8' Clay, med brown, mod cohesion, mod plasticity, no stain, no odor, moist	
		57.8	Stain		12					
		779			14	4	3		8-17 Sandy clay, grey, mod cohesion, mod plasticity, stain, odor	
		1563		SB07 @ 14'	16					
		1319			18	4	3	Bedrock	17-20' Weathered claystone, orange to grey, no stain, odor	
		931	None		20					
		255		SB07 @ 20'	22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:



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See SB01

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB08	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Elevation:	Drilling Method: Direct Push
Detector: PID	Sampling Method: Continuous
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Grout:

Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
		Diameter: 1"	Length: 10'	Total Depth: 20'	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					
					4				Hydronic, not logged	
					6					
	Moist	0.0	None		8	2	2	CL	6-15' Sandy clay, med brown, med cohesion, mod plasticity, moist	
		0.0			10	4	4			
		0.0			12					
		0.0			14	4	4		15-20' Weathered claystone, grey to orange, no stain, no odor, moist	
		0.0		SB08 @ 14'	16					
		0.0			18	4	4	Bedrock		
	✓	0.0	↓	SB08 @ 20'	20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:



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See SB01

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB09	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Drilling Method: Direct Push	Sampling Method: Continuous
Seal: Bentonite	Grout: -

Elevation:

Detector:

PID

Gravel Pack:

Silica Sand

Casing Type:

PVC

Diameter:

1"

Length:

10'

Hole Diameter:

3"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

20'

Depth to Water:

16' 1/2"

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				Hydrovac, not logged	
					6					
				SB09 @ 6'	8	2	2	CL	6-18' Sandy clay, med brown, med cohesion, mod plasticity, stain, odor, wet 16' to 18'	
					10	4	4			
					12					
					14	4	4			
				SB09 @ 16'	16				18-20' Weathered claystone, orange to grey, moist, no stain, odor	
					18	4	4			
				SB09 @ 16'	20			Bedrock		
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:

See SBO1



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB10	Project: Smith Elsie GU #1
Date: 8/6/2014	Project Number: kmg0590
Logged By: Jeremy Espinoza	Drilled By: Drill Pro
Drilling Method: Direct Push	Sampling Method: Continuous
Seal: Bentonite	Grout: -

Elevation:	Detector: PID
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Gravel Pack: Silica Sand	Diameter: 1"	Length: 10'	Hole Diameter: 3"	Depth to Liquid:
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Casing Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water:
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Screen Type: PVC	Slot: 0.01	Diameter: 1"	Length: 10'	Total Depth: 20'	Depth to Water:
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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					
					2					
					4					
					6					
					8	2	2	CL	Hydraulic, not logged	
					10	4	4		6-15' Sandy clay, Stained, odor, mod cohesion, mod plasticity, moist	
					12					
					14	4	4			
					16				15-20' Weathered Claystone, grey to orange, some staining	
					18	4	4	Bedrock		
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:

See SB01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	SB11	Project:	Smith Elsie GU #1
Date:	8/6/2014	Project Number:	kmg0590
Logged By:	Jeremy Espinoza	Drilled By:	Drill Pro
Elevation:		Drilling Method:	Direct Push
Detector:	PID	Sampling Method:	Continuous
Gravel Pack:	Silica Sand	Seal:	Bentonite
Casing Type:	PVC	Diameter:	1"
Screen Type:	PVC	Length:	10'
Slot:	0.01	Hole Diameter:	3"
		Total Depth:	20'
		Depth to Liquid:	
		Depth to Water:	16'

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				Hydraulic, not logged	
					6					
	Moist	0.0	None		8	2	2	CL	6-19' Sandy clay, med brown, mod cohesion, mod plasticity, no stain, no odor, moist	
		0.0			10	4	4		- Stain from 11'-19'	
		0.0			12				- seepage at ~16'	
		365	Stain		14	4	4		19-20' Weathered	
		1046			16				claystone, grey to orange, moist, no stain	
	West	1163		SB11 @ 16'	18					
	Moist	478			20	4	4	Bedrock		
		295	None	SB11 @ 20'	22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:

See SB01



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB12 Project: Smith Elsie GU #1

Date: 8/6/2014 Project Number: kmg0590

Logged By: Jeremy Espinoza Drilled By: Drill Pro

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

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' 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					
					4				Hydraulic, not logged	
					6					
					8	2	2	CL	6-17' Sandy clay, med brown, med cohesion, med plasticity, no stain, no odor, moist	
					10	4	4		- stain at 13' to 17'	
					12					
					14	4	4		17-20' Weathered claystone, orange to grey, no stain, no odor	
					16					
					18	4	3	Bedrock		
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	

Well Location Sketch:

Sec SB01



Compliance • Engineering • Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SB13 Project: Smith Elsie GU #1

Date: 8/6/2014 Project Number: kmg0590

Logged By: Jeremy Espinoza Drilled By: Drill Pro

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

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 10' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 20' 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
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					0					
					2					
					4				Hydrovac, not logged	
					6					
					8	22		CL	6-18' Sandy clay med	
					10	44			brown, med cohesion,	
					12				med plasticity, no stain,	
					14	44			no odor, moist	
					16					
					18	44			18' - 20' Weathered	
					20			Bedrock	claystone, orange to	
					22				grey, moist	
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40				Refusal at 20'	