



Client: GSH

Project Name: Berig UPRR 42-351 Wellhead

Project Number: 09A1117 09A1662056

Date: 9/3/2024

Logged by: H. Killian

Driller: Site Services

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2" Well Diameter: 1"

Well Material: PVC

Surface Completion: Flushmount

Total Depth: 11.5'

Casing Interval: 1.5 (0-1.5')

Screen Interval: 10' (1.5-11.5)

DTP/DTW: ~~ND~~ 2.5'

Grout Interval: NA

Bentonite Interval: 1' (0-1')

Sand Interval: 0.5' (1-11.5')

Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram
0			Dry		None			0-6 via hyarovac	
5			Sat	0.9		SBA12	SP/SC	0-9 Fg sand w/ trace clay, brown, saturated, poorly graded, to cohesive, low plasticity, no stain, no odor	
10	6-11.5		Moist	1.1				↳ saturated c3'	
	5.5/5		Sat	3.9			SP	9-11 Fg sand, brown, saturated, poorly graded, no stain, no odor	
				3.3			SP/SC	11-11.5 Fg sand w/ trace clay, brown, saturated, poorly graded, cohesive, low plasticity, no stain, no odor	
15									
20									
25									
30									

Set 11.5' as flushmount



ENSOLUM

Client: GSH

Client: 6511
Project Name: Berig 42-35 1 Wellhead

Boring ID: M1W02

Project Number: 09A1662056

Site Sketch:

Date: 9/3/24

Logged by: H. Killian

Driller: Dr Site Services

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2" Well Diameter: 1"

Well Material: PVC

Well Material: PVC
Surface Completion: Flush mount

Total Depth: 15'

DTP/DTW: ND / 8'

Sand Interval: 11' (4-15')

Casing Interval: 5' (0-5')

Screen Interval: 10' (5-15')

Bentonite Interval: 4' (0-4')

Grout Interval: NA

Casing Interval: 5' (0-5')						Bentonite Interval: 4' (0-4')		Sand Interval: 3' (0-3')			
Grout Interval: NA											
Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram		
0			Dry	2.1	No			0-6' via hydrovac, 0-6.5' Fg sand, brown, dry, poorly graded, no stain/no odor	0		
				2.4			SP	↳ staining @ 6'	5		
5		6-10	Moist	5.3	Yes		SP/SC	6.5-8' Fg sand w/ little clay, black, dry, poorly graded, cohesive, no plasticity, stain, no odor	10		
		4/4	Sat	4.5	No		SP	↳ saturation @ 8'			
10		10-15	Moist	3.1			CL/SP	8-10' Fg sand, brown, saturated, poorly graded, no stain/no odor,	15		
		5/ 4.5	Sat Moist	1.4			SC	10-13.5' Fg-Fg sand, w/ some clay, brown, saturated, poorly graded, cohesive, no plasticity, no stain/ no odor	20		
15								13.5-15' Fg sandy clay, brown, saturated, cohesive, some plasticity, poorly graded, cohesive, no plasticity/no stain/no odor	25		
20									30		
25											
30								Set @ 15' as flush mount			



Client: GSH

Project Name: Berig UPRR 42-35 1 Wellhead

Boring ID: MW03

Project Number: 09A1662056

Site Sketch:

Date: 9/3/24

Logged by: H. Killian

Driller: Site Services

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2" Well Diameter: 1"

Well Material: PVC

Surface Completion: Flushmount

Total Depth: 11'

Casing Interval: 1' (0-1')

Screen Interval: 10' (1-11')

DTP/DTW: ND/2'

Grout Interval: NA

Bentonite Interval: 0.5 (0-0.5)

Sand Interval: 0-10.5 (0.5-11')

Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram
0			Dry		None			0-6 via hand auger	
5			Sat	2.1		SB02e2'		0-10.5' Fg sand, brown, dry, poorly graded, no stain/no odor	
				0.9			SP	10.5-11' Clay w/ little Fg sand, brown, dry, cohesive, low plasticity, poorly graded, no stain, no odor	
10	6-11			6.1			CL/SP		
	5/4		Dry	6.1					
15									
20									
25									
30									

set 11' as flushmount



Client: GSH

Project Name: Berig UPRR 42-351 Wellhead

Boring ID: MW04

Project Number: 09A1662056

Site Sketch:

Date: 9/3/24

Logged by: H. Killian

Driller: Site Services

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2" Well Diameter: 1"

Well Material: PVC

Surface Completion: Flushmount

Total Depth: 11'

Casing Interval: 1' (0-1')

Screen Interval: 1-11 (10')

DTP/DTW: ND/31.5'

Grout Interval: NA

Bentonite Interval: 0.6' (0-0.5')

Sand Interval: 10.5' (0.5-11')

Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram
0			Dry		None			0-6' via hydrovac	
			Sat	1.3		SB042'	SP	0-6' Fg sand w/ trace clay, brown, saturated, poorly graded, cohesive, low plasticity, no stain / no odor	
5		6-11		0.4			SC		
				2.3			CL / SP	6-7' sfg sandy clay, brown, saturated, no cohesive, low plasticity, poorly graded, NS/NO	
10			Dry	1.4			CL / SP		
				1.5				7'-8.5' Fg sand, brown, saturated, poorly graded, NS/NO	
15								8.5-11' clay w/ some Fg sand, brown, dry, cohesive low plasticity, no stain / no odor	
20									
25									
30									

sete 11' as flushmount



Client: GSH

Project Name: Berig UPRR 42-351

Boring ID: SB05

Project Number: 09A1662056

Site Sketch:

Date: 9/12/24

Logged by: H. Killian

Driller: Drill Pro

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2.25" Well Diameter: 1"

Well Material: PVC

Surface Completion: Flushmount

Total Depth: 10'

Casing Interval: 1'

Screen Interval: 9'

DTP/DTW: ND / 1'

Grout Interval: NA

Bentonite Interval: 0.5'

Sand Interval: 9.5'

[illegible]

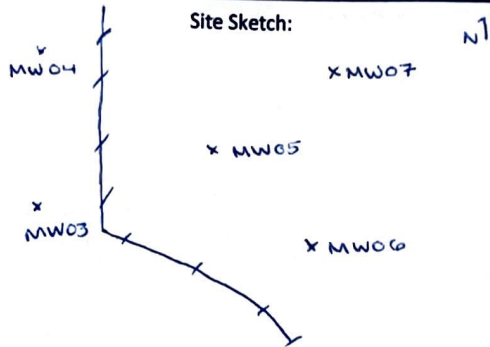


Client: GSH

Project Name: Berig UPRR 42-351

Boring ID: SB06

Project Number: 09A1662056



Date: 9/12/24

Logged by: H. Killian

Driller: DrillPro

Drilling Method: Direct Push

Sample Method: Continuous

Boring Diameter: 2.25" Well Diameter: 1"

Well Material: PVC

Surface Completion: Flushmount

Total Depth: 10'

Casing Interval: 1'

Screen Interval: 9'

DTP/DTW: ND/1'


Grout Interval: NA

Bentonite Interval: 0.5'

Sand Interval: 9.5'

Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram
0			Dry	0.9	None	SB06e4'	SP	0-6' via hand auger	0
								2' Fg sand, brown, dry, poorly graded, no stain/no odor	
5			Sat	2.1				4' Fg sand, brown, dry, poorly graded, no stain/no odor	5
	6-10			1.7			SW	6-9' Fg-Mg sand, brown, saturated, well graded, no stain/no odor	
10	4/4		Moist	0.6			CL	9-10' clay w/ trace vFg sand, brown, moist, cohesive, med plasticity, no stain/no odor	10
15									15
20									20
25									25
30									30

set c 10' as flushmount
gw initially seen at 5',
overtime gw level advanced
to 1' bgs

 ENSOLUM						Client: GSH					
Boring ID: SBO7						Project Name: Berig 42-351					
Site Sketch:						Project Number: 09A1662056					
see SBO7						Date: 9/12/24					
						Logged by: H. Killian					
						Driller: Drill Pro					
						Drilling Method: Direct Push					
						Sample Method: Continuous					
						Boring Diameter: 2.25" Well Diameter: 1"					
						Well Material: PVC					
Surface Completion: Flushmount						Total Depth: 10'					
Casing Interval: 1'						Screen Interval: 9'			DTP/DTW: ND/4'		
Grout Interval: ND						Bentonite Interval: 0.5'			Sand Interval: 9.5'		
Depth (ft)	Blow Count	Run / Recovery	Moisture Content	PID (ppm)	Stain	Sample ID	USCS Symbol	Geologic Description	Completion Diagram		
0			Dry		None	SBO7-2'		0-6' via hand auger	0		
			Moist	1.7			SP	2' Fg sand, brown, moist, poorly graded, no stain/no odor			
5			Sat	1.6				4' Fg sand, brown, moist, poorly graded, no stain/no odor			
	6-10			1.1			SW	6-9' Fg-Mg sand, brown, saturated, well graded, no stain/no odor			
	4/4			1.0				9-10' clay w/ trace vFg sand, brown, moist, cohesive, low med plasticity, no stain/no odor			
10			Moist	0.4			CL	* gw initially detected @ 4' bgs, during drilling hand augering advanced to 1' bgs			
15											
20											
25											
30											

set to 10' as flushmount