

Well Location Sketch:



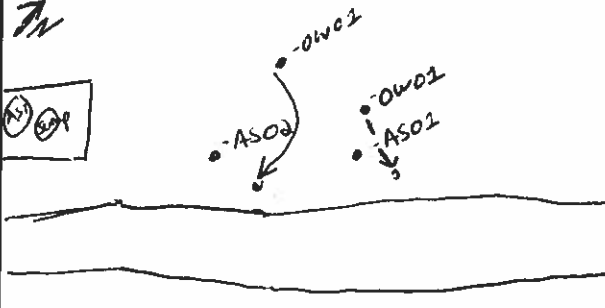
Compliance - Engineering - Remediation
LT Environmental, Inc.
 4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS01	Project: Platteville Compressor Station
Date: 9/14/2018	Project Number: 14213112
Logged By: Jeremy Espinoza	Drilled By: Site Services
Elevation: N/A	Detector: PID
Drilling Method: HSA	Sampling Method: Continuous
Gravel Pack: Silica Sand	Seal: Bentonite
Casing Type: PVC	Grout: Portland
Screen Type: PVC	Diameter: 2" Length: 25'
Slot: 0.010	Hole Diameter: 8" Depth to Liquid: -
Diameter: 2" Length: 2'	Total Depth: 27' 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					
					2					
					4					
					6					
					8					
					10				Hydrovaccated/Not Logged	
	moist	0.7	none	NA	12	3	3	SW	10-16 fine grained sand with clay, light brown, moist, low plasticity, non cohesive, no stain, no odor	
	wet	550	Slight		14					
	moist	328	none		16	5	5	CH	- slight stain and wet 14-16'	
	wet				18					
		145			20	5	5	CL	16-18' Clay, dark brown, moist, high plasticity, cohesive, no stain, no odor	
		7.1			22					
		6.1			24	4			18-24' fine sandy clay, light brown, wet, mud plasticity, none cohesive, no stain, no odor	
					26					
					28					
					30					
					32					
					34				24-27' fine sandy clay with trace gravel, light brown, wet, low plasticity, low cohesion, no stain, no odor	
					36					
					38					
					40				Completed as PVC Bore	

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>AS02</i>	Project: Platteville Compressor Station			
Date: 9/14/2018	Project Number: 14213112			
Logged By: <i>Daniel Thomas</i>	Drilled By: Site Services			
Drilling Method: <i>Hollow Stem auger</i>	Sampling Method: <i>Continuous</i>			
Seal: Bentonite	Grout: <i>Portland</i>			
Casing Type: PVC	Diameter: 2" Length: 25'	Hole Diameter: 8"	Depth to Liquid:	
Screen Type: PVC	Slot: <i>0.010"</i>	Diameter: 2" Length: 2'	Total Depth: 31'	Depth to Water: 15.5

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				Hydrovacc'd/Not Logged	
					12	3' 5'		CL	10'-17' FG-MG Sandy Clay w/ gravels, dark brown, low plasticity, cohesive, no stain, no odor.	
					14			↓	→ wet @ 15.5'	
					16	5' 5'		CH	18'-22' clay, brown, high plasticity, cohesive, black stain @ 18', odor	
					18			↓	→ trace sand @ 20.5'	
					20	5' 5'		↓	→ trace gravels @ 20.5'	
					22			↓		
					24	6' 5'		CH	22'-23' clay, light brown, mod. plasticity, cohesive, no stain, no odor	
					26			↓	23'-25.5' clay, brown, mod. plasticity, cohesive, no stain, odor	
					28			↓	25.5'-28' clay, light brown, high plasticity, cohesive, no stain, odor	
					30					
					32					
					34					
					36					
					38					
					40					

Moist
 1.4
 0.6
 381.5
 610.8
 3501.7
 783 @ 23'
 52.3 @ 25'
 13.3 @ 27'

None
 Black
 None
 None

Wet ↓

Completed as PVC
 Stick up
 (Sand 3' above screen,
 3' bentonite, grout to
 surface)

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS03	Project: Platteville Compressor Station
Date: 7/18/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous Split Spun
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 22'	Hole Diameter: 8"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 24'	Depth to Water: ~10'
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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					
					6					
					8					
					10				Potholed/Not Logged	
2.2	wet	3.508	Yes		12	X	2'	SC	10-11' Fgr w/ some Mg sands w/ clay, stain/odor observed, wet	
6.6	moist	203			12	X	2'	CL		
5.7	wet	1.978			14	X	2'	SC	11-12 clay w/ trc Fg sand, moist, med plasticity, stain/odor obs	
9.12	moist	587			14	X	2'	SC		
3.5	wet	548	Clay/mottled		16	X	2'	CL	13-14.5' Fg-Cg Sands w/ some small gravel, stain/odor, wet, w/ clay	
5.8	wet	1.307			16	X	2'	SC		
		595			18	X	2'	CL	14.5-15' clay, med plasticity, moist, mottled stain	
6.7		292			18	X	2'			
8.10		2.2			20	X	2'			
3.4		8.9			22	X	2'		15-16.5' clayey Fg sand w/ some Mg sands, wet, grey, minor mottled stain, odor	
5.7	moist				22	X	2'			
7.8	wet	6.2			24	X	2'		16.5-20' clay w/ Fg sands, med-low plasticity, wet, trc small gravels, Fg-Mg sand, dense w/ odor @ 17.75'	
9.11	moist	0.9			24	X	2'		20-22' clay, trc sands Fg	
					26				20-21, increasing plasticity w/ depth, low-high past, wet, no stain/odor	
					28				23-25' clay, SAT, high plasticity, wet	
					30				23-23.5', no stain/odor, trc Cg sands	
					32					
					34					
					36					
					38					
					40				TD @ 24, finish as PVC stick-up	

NOTES:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: A504	Project: Platteville Compressor Station
Date: 7/18/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: 2' split Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 2'	Hole Diameter: 8"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 23'	Depth to Water: ~18'
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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					
					6					
					8					
					10				Potholed/Not Logged	
2.4	moist	1.4	no		12	2	X	SC	10-12' Fg -mg sands w/ increasing clays w/ depth, moist, no stain/odor	
7.7		0.2			14	2	X			
2.4		12.3	yes		16	2	X	CL	13-14.5' Fg Sands w clay, some Mg, moist, no stain, sc odor	
5.6		12.8			18	2	X			
9.1		4.8	mottled stain		20	2	X		14.5' -16' clay, med plasticity, no stain/odor, fine fines, 2' Fg sand lense w/ stain/odor, mottled stain 14.5 -15	
10.1	wet	1.6	no		22	2	X			
2.4		0.8			24	2	X			
7.7		2.6			26	2	X		16-18' clay, med-high plast., mottled stain 16-16.25', no stain/odor post, moist	
7.8		5.7			28	2	X		18-20' clay w/ low-med plasticity, some cg sands + fine small gravel	
10.1		0.0			30	2	X		20-22' clay w/ little vcg sands, wet, no stain/odor, med-high plasticity	
6.13		1.1			32	2	X		22-24' silty clay claystone w/ Fg sands, iron mottling, wet, no stain/odor, bedding observed	
22.32		0.0			34	15	X	CLS	Set @ 23' as PVC stick-up	
					36					
					38					
					40					

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS05	Project: Platteville Compressor Station
Date: 7/18/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: 2' Split Continuous Spoon
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 24'	Hole Diameter: 8"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 26'	Depth to Water: ~18'
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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					
					6					
					8					
					10				Potholed/Not Logged	
2, 2	moist	6.0	NV		12	X	2	SC	10-12' clayey Fgr Sands	
2, 3		0.0	1		12	X	2	CL	clays increase w/ depth no stain/odor	
2, 5		0.8			14	X	2	CL	12-14 clay w/ Fgr sand, moist, low-med plasticity, plast. increase w/ depth, SC odor + mottled stain 18-19	
5, 6		17.5	mottled stain		14	X	2			
3, 4		37			16	X	2			
6, 9		32.8			16	X	2			
8, 8	more moist	39			18	X	2			
10, 10	wet		NO		18	X	2			
3, 4		56			20	X	2	SC	14-16' SAA, plasticity med-high	
8, 10		0.5			20	X	2			
8, 13		21.2			20	X	2			
17, 12		3.5			22	X	2	SW	16-19' clay w/ fine vcy	
3, 5		2.2			22	X	2	CL	Sands, more moist, no stain/odor	
6, 12		6.3	fine mottled stain		24	X	2	CL	low-med plasticity, sands w/ depth	
7, 13		146	fine mottled stain		24	X	2			
16, 20	moist	1.5	NO		26	X	2	SC	19-20' clayey Fgr-sg sands, fine small gravel	
					26	X	2	CLS	20-21.5' SAA, wet	
					28				21.5-22.25' Fgr - vcy sands w/ small gravel, well graded, wet, no stain/odor	
					30					
					32				22.25' - 24' clay w/ Fg sand, fine vcy sands, mottled stain, 1" cg sand lense @ 22.5' w/ stain/odor, wet	
					34					
					36					
					38				24-25' Fg-cgr clayey sand, wet, SC odor, 19 sec	
					40				25-26' claystone, iron mottling competent, moist, no stain/odor	

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: AS12	Project: Platteville Compressor Station
Date: 7/19/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 25'	Hole Diameter: 8"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 27'	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					
					6					
					8					
					10				Potholed/Not Logged	
					12				Not logged	
					14					
					16					
					18					
					20				Set below grade	
					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: AS13-AS16, AS19, AS20	Project: Platteville Compressor Station
Date: 7/19/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 26'	Hole Diameter: 8"	Depth to Liquid: —
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 28'	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					
					6					
					8					
					10				Potholed/Not Logged	
					12				<p>Not logged</p> <p>* AS 13 + AS 15 set below grade</p>	
					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: AS10-AS11, AS18	Project: Platteville Compressor Station
Date: 7/18/19	Project Number: 14213112
Logged By: T	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 24'	Hole Diameter: 8"	Depth to Liquid: —
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 26'	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					
					6					
					8					
					10				Potholed/Not Logged	
					12				Not logged Set @ 26' as PVC stick-up	
					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: AS08, AS17, AS21, AS24	Project: Platteville Compressor Station
Date: 7/19/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 22	Hole Diameter: 8"	Depth to Liquid:
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 24'	Depth to Water: N/A
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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					
					10				Potholed/Not Logged	
					12					
					14				* Bedrock encountered, set @ 24' bgs w/ pvc riser	
					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: AS06, AS07, AS09, AS22, AS23	Project: Platteville Compressor Station
Date: 7/19/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 23'	Hole Diameter: 8"	Depth to Liquid: —
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 2'	Total Depth: 25'	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					
					6					
					8					
					10				Potholed/Not Logged	
					12				Not logged set @ 25' as PVC stick-up * AS 23 set below grade	
					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: SVE01-SVE13	Project: Platteville Compressor Station
Date: 7/24/19	Project Number: 14213112
Logged By: David Stainback	Drilled By: Dakota Drilling

Elevation: N/A	Detector: PID	Drilling Method: Hollow-Stem Auger	Sampling Method: Continuous
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Gravel Pack: Washed Silica Sand	Seal: Bentonite chips	Grout: Portland
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Casing Type: PVC	Diameter: 2"	Length: 5'	Hole Diameter: 10"	Depth to Liquid: N/A
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Screen Type: PVC	Slot: 0.01	Diameter: 2"	Length: 3'	Total Depth: 8'	Depth to Water: N/A
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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					
					6					
					8					
					10				Potholed/Not Logged	
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					