

FIGURES

Figure 1: Boring Location Diagram

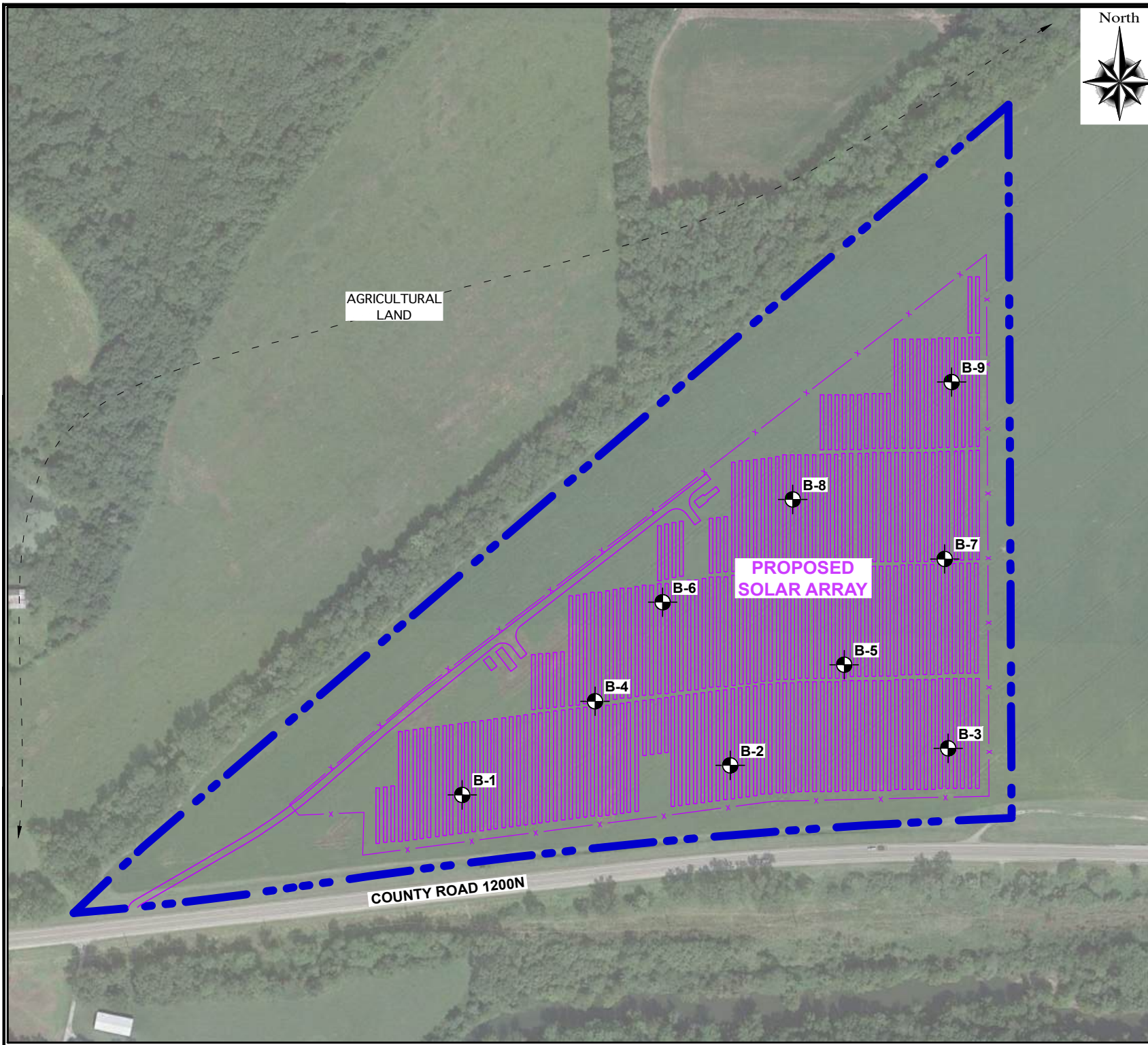


FIGURE 1
Soil Boring Location
& Site Diagram
Montgomery-Ellinger
Solar
4343 IL Route 16
Litchfield, IL

Scale:

1" = 30'
0' 30'

Drawn by:

M. S. Valadez

Job No.:

25-0137-151

Date:

April 2025

Checked by:

Kevin Gosiewski

Legend: Approximate Property Line



Geotechnical Soil Boring
Location

APPENDIX A

Soil Boring Logs



Pioneer Engineering and Environmental Services
2753 W. 31st Street
Chicago, Illinois 60608
Telephone: 773-722-9200
Fax: 773-722-9201

BORING LOG B-1

Project No: 25-0137-151	Drilling Method: 3.25" Hollow-Stem Augers	WATER LEVELS
Project: Proposed Montgomery-Ellinger Solar Array	Sampling Method: Split-Spoon Sampling	Water Elevation 542 ft
Location: 4343 IL-16 - Litchfield, Illinois	Hammer Type: Automatic	Water Depth 19 ft
Client: Summit Ridge Energy	Drill Rig Type: Geoprobe 3126GT	After 24 Hours
	Backfill Method: Auger Cuttings	

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)
561					Ground Surface at 561 ft										
560	0				1' Black Silty Clay TOPSOIL	1	AC					33.3			
					Gray and Brown SILTY CLAY, trace sand	2	SS	1.7	2.0	4	8	24.0	103		
						3	SS	1.9	2.3	5	11	23.7	104.5		
	5					4	SS	1.7	1.5	6	11	23.9	106		
				CL		5	SS	1.1	1.5	6	13	22.8	100.4		
	10					6	SS	3.6	3.5	8	12	23.6	103.6		
					Dark Gray SILTY CLAY, trace to little sand	7	SS	0.7	1.5	5	10	27.4			
	15			CL											
					Driller notes thin sand seam	8	SS		4.5	31	10	20.1			
	20				Test Hole B-1 Terminated at 20 ft										

Completion Depth: 20	Sample Types:	Remarks:
Date Boring Started: 2025-04-11	Vane Shear	Elevation interpolated via Google Earth data.
Driller: GA	Split-Spoon	
Logged By: JV	Rock Core	
Checked By: KG	Shelby Tube	
	Hand Auger	
	Auger Cutting	



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BORING LOG B-2

Project No: 25-0137-151	Drilling Method: 3.25" Hollow-Stem Augers	WATER LEVELS
Project: Proposed Montgomery-Ellinger Solar Array	Sampling Method: Split-Spoon Sampling	Water Elevation 542 ft
Location: 4343 IL-16 - Litchfield, Illinois	Hammer Type: Automatic	Water Depth 19 ft
Client: Summit Ridge Energy	Drill Rig Type: Geoprobe 3126GT	After 24 Hours
	Backfill Method: Auger Cuttings	

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)
561					Ground Surface at 561 ft										
	0				1' Black Silty Clay TOPSOIL	1	AC					26.0			
	560				Gray and Brown SILTY CLAY, trace sand	2	SS	1.2	1.5	5	8	102.4			
	5					3	SS	1.8	2.5	6	11	22.7			
	555			CL		4	SS	1.7	2.3	6	12	24.8			
	10					5	SS	1.4	2.0	6	11	23.8			
	550					6	SS	3.1	3.5	7	12	23.6			
	15				Dark Gray SILTY CLAY, trace to little sand, trace gravel	7	SS		0.3	5	10	30.5			
	545			CL											
	20				Driller notes thin sand seam	8	SS		0.5	12	9	26.4			
	540				Test Hole B-2 Terminated at 20 ft										

Completion Depth: 20	Sample Types:	Remarks:
Date Boring Started: 2025-04-11	Vane Shear	Elevation interpolated via Google Earth data.
Driller: GA	Split-Spoon	
Logged By: JV	Rock Core	
Checked By: KG	Shelby Tube	
	Hand Auger	
	Auger Cutting	

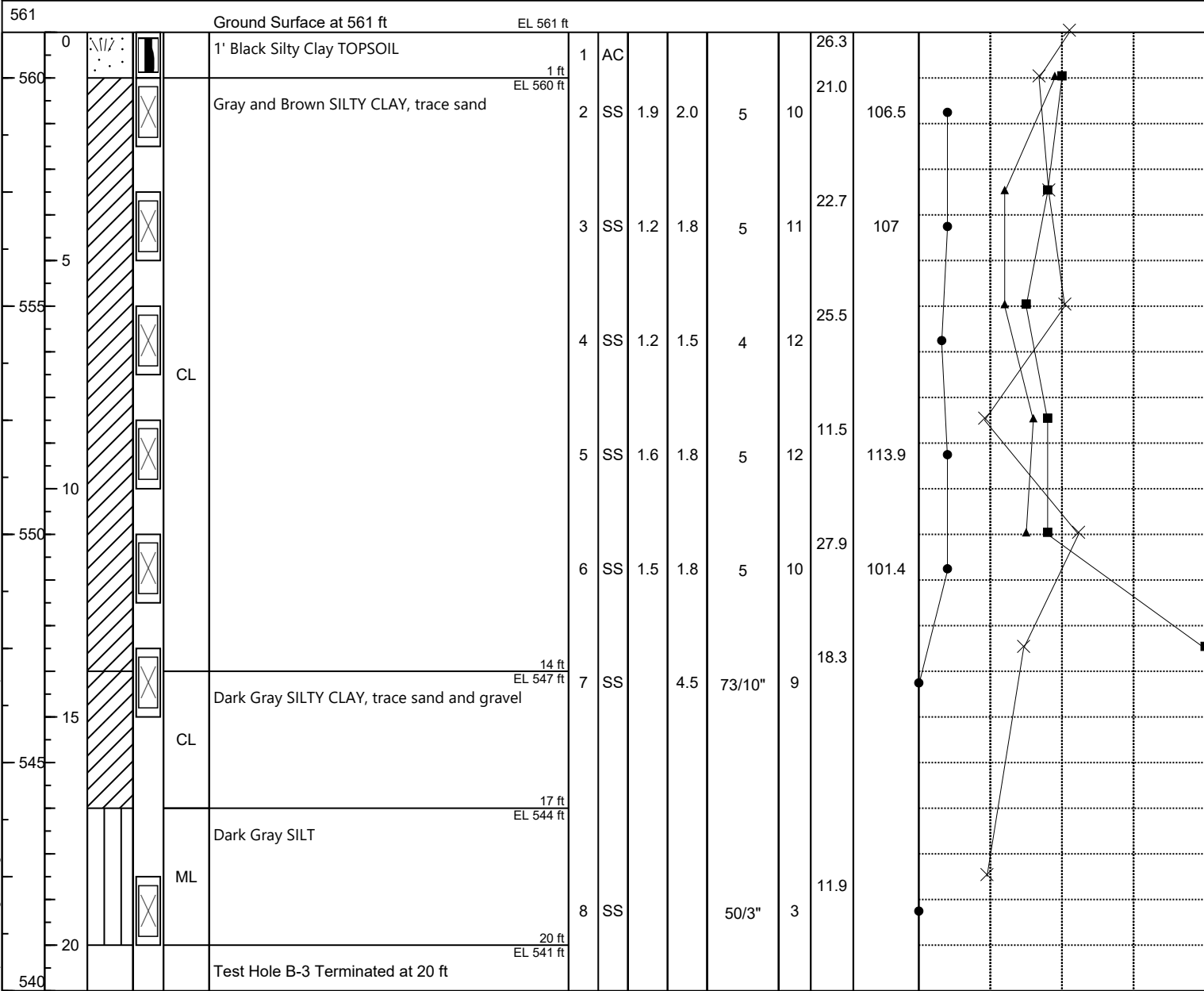


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BORING LOG B-3

Project No: 25-0137-151 Project: Proposed Montgomery-Ellinger Solar Array Location: 4343 IL-16 - Litchfield, Illinois Client: Summit Ridge Energy	Drilling Method: 3.25" Hollow-Stem Augers Sampling Method: Split-Spoon Sampling Hammer Type: Automatic Drill Rig Type: Geoprobe 3126GT Backfill Method: Auger Cuttings		WATER LEVELS	
			Water Elevation	N/A
			Water Depth After 24 Hours	N/A

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)



Completion Depth: 20 Date Boring Started: 2025-04-12 Driller: GA Logged By: JV Checked By: KG	Sample Types: Vane Shear Split-Spoon Rock Core Shelby Tube Hand Auger Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
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BORING LOG B-4

Project No: 25-0137-151		Drilling Method: 3.25" Hollow-Stem Augers Sampling Method: Split-Spoon Sampling Hammer Type: Automatic Drill Rig Type: Geoprobe 3126GT Backfill Method: Auger Cuttings	WATER LEVELS	
Project: Proposed Montgomery-Ellinger Solar Array			Water Elevation	541 ft
Location: 4343 IL-16 - Litchfield, Illinois			Water Depth	19 ft
Client: Summit Ridge Energy			After 24 Hours	

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)
560					Ground Surface at 560 ft			EL 560 ft						—▲—	2
	0				1' Black Silty Clay TOPSOIL	1	AC					25.7		—■—	2
					Gray and Brown SILTY CLAY, trace sand	2	SS	1.8		4	10	20.9		—X—	2
						3	SS	1.8	2.0	5	12	22.3	107.8		
	5					4	SS		2.0	5	12	22.6			
				CL		5	SS	1.3	1.5	4	11	23.7	106.4		
	10					6	SS		2.3	5	11	21.5			
						7	SS		2.0	5	10	26.0			
	15														
					Dark Gray SILT, trace clay										
				ML	Driller notes thin sand seam	8	SS			6	10	16.5			
	20				Test Hole B-4 Terminated at 20 ft										

Completion Depth:	20	Sample Types:  Vane Shear  Split-Spoon  Rock Core  Shelby Tube  Hand Auger  Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
Date Boring Started:	2025-04-11		
Driller:	GA		
Logged By:	JV		
Checked By:	KG		

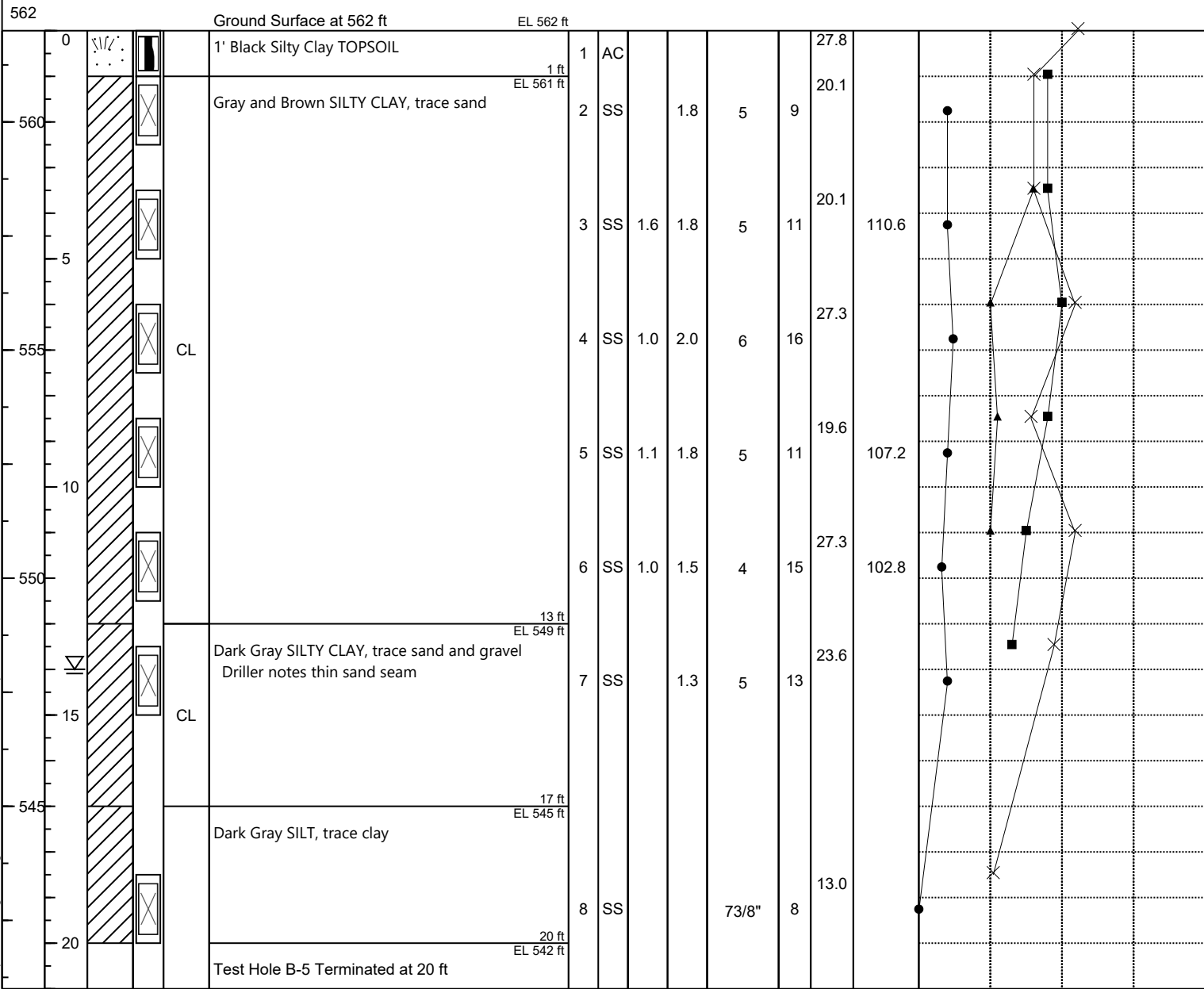


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BORING LOG B-5

Project No:	25-0137-151	Drilling Method:	3.25" Hollow-Stem Augers	WATER LEVELS	
Project:	Proposed Montgomery-Ellinger Solar Array	Sampling Method:	Split-Spoon Sampling		
Location:	4343 IL-16 - Litchfield, Illinois	Hammer Type:	Automatic		
		Drill Rig Type:	Geoprobe 3126GT		
Client:	Summit Ridge Energy	Backfill Method:	Auger Cuttings	Water Elevation	548 ft
				Water Depth	14 ft
				After 24 Hours	

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)
														2	2
														2	25
														25	25



Completion Depth:	20	Sample Types:	 Vane Shear  Split-Spoon  Rock Core	 Shelby Tube  Hand Auger  Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
Date Boring Started:	2025-04-12				
Driller:	GA				
Logged By:	JV				
Checked By:	KG				

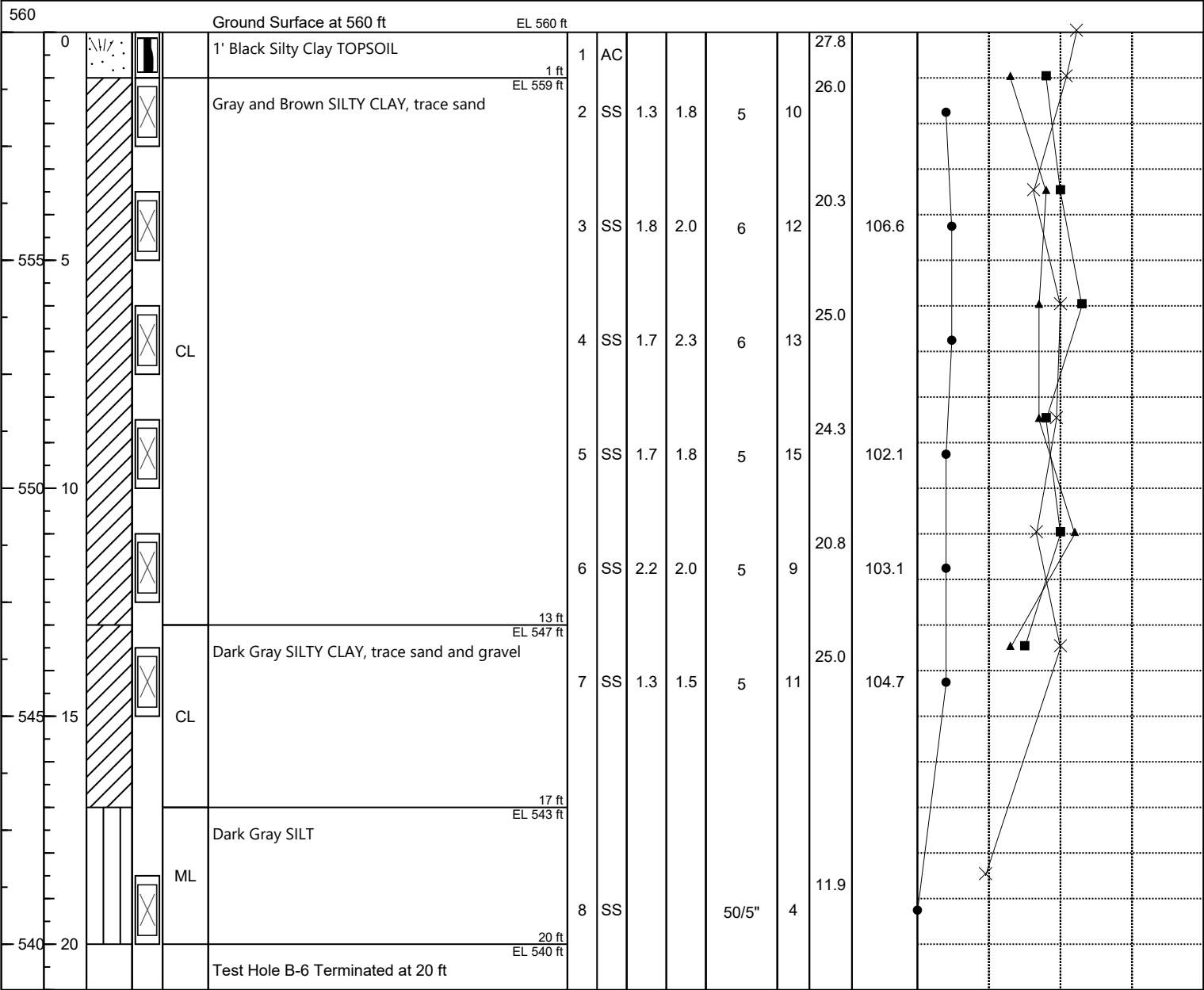


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BORING LOG B-6

Project No:	25-0137-151	Drilling Method:	3.25" Hollow-Stem Augers	WATER LEVELS	
Project:	Proposed Montgomery-Ellinger Solar Array	Sampling Method:	Split-Spoon Sampling	Water Elevation	N/A
Location:	4343 IL-16 - Litchfield, Illinois	Hammer Type:	Automatic	Water Depth	N/A
Client:	Summit Ridge Energy	Drill Rig Type:	Geoprobe 3126GT	After 24 Hours	
		Backfill Method:	Auger Cuttings		

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)



Completion Depth:	20	Sample Types:  Vane Shear  Split-Spoon  Rock Core	 Shelby Tube  Hand Auger  Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
Date Boring Started:	2025-04-11			
Driller:	GA			
Logged By:	JV			
Checked By:	KG			

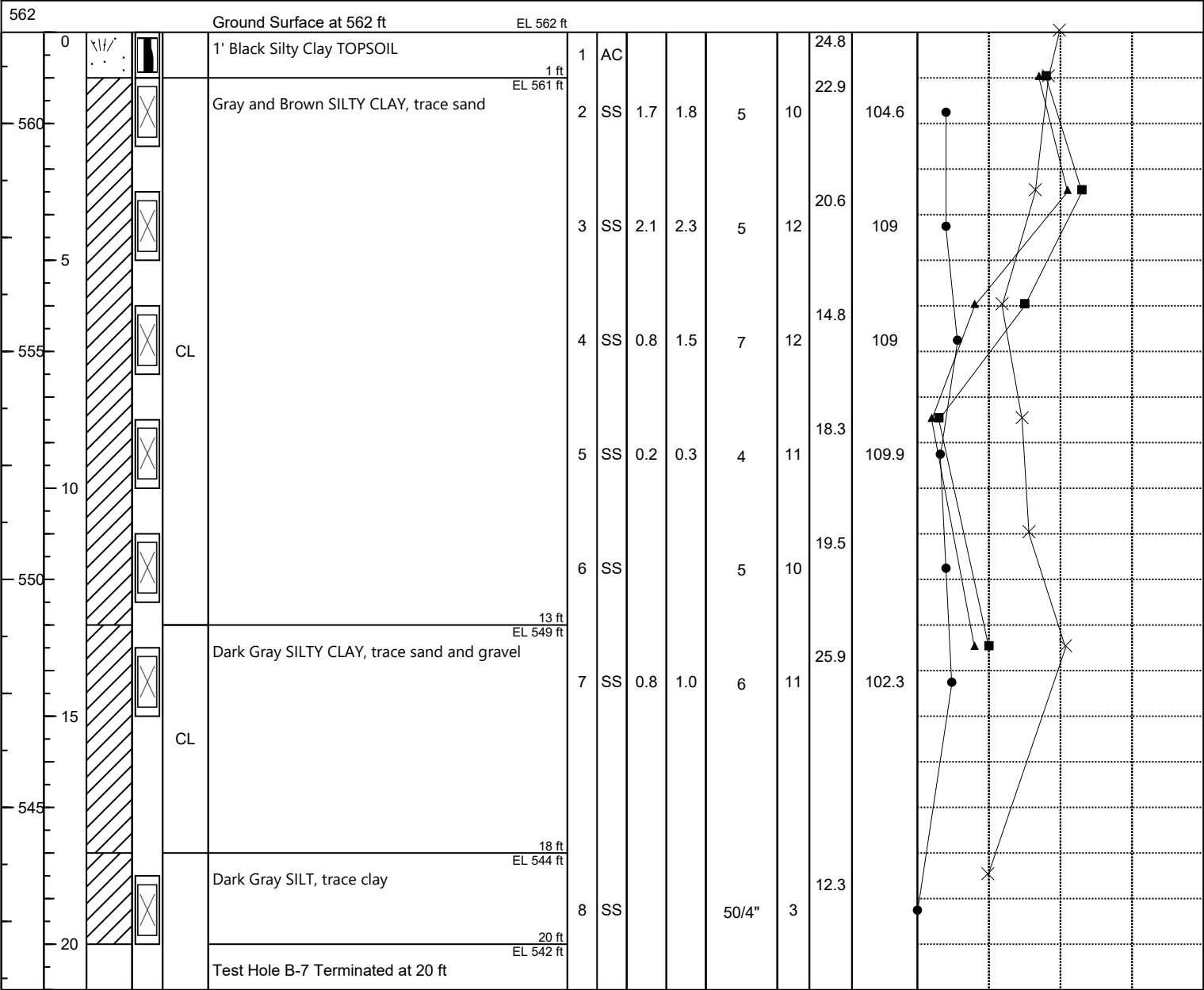


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BORING LOG B-7

Project No:	25-0137-151	Drilling Method:	3.25" Hollow-Stem Augers	WATER LEVELS	
Project:	Proposed Montgomery-Ellinger Solar Array	Sampling Method:	Split-Spoon Sampling	Water Elevation	N/A
Location:	4343 IL-16 - Litchfield, Illinois	Hammer Type:	Automatic	Water Depth	N/A
Client:	Summit Ridge Energy	Drill Rig Type:	Geoprobe 3126GT	After 24 Hours	
		Backfill Method:	Auger Cuttings		

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)



Completion Depth:	20	Sample Types:  Vane Shear  Split-Spoon  Rock Core  Shelby Tube  Hand Auger  Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
Date Boring Started:	2025-04-11		
Driller:	GA		
Logged By:	JV		
Checked By:	KG		

- Vane Shear
- Split-Spoon
- Rock Core
- Shelby Tube
- Hand Auger
- Auger Cutting

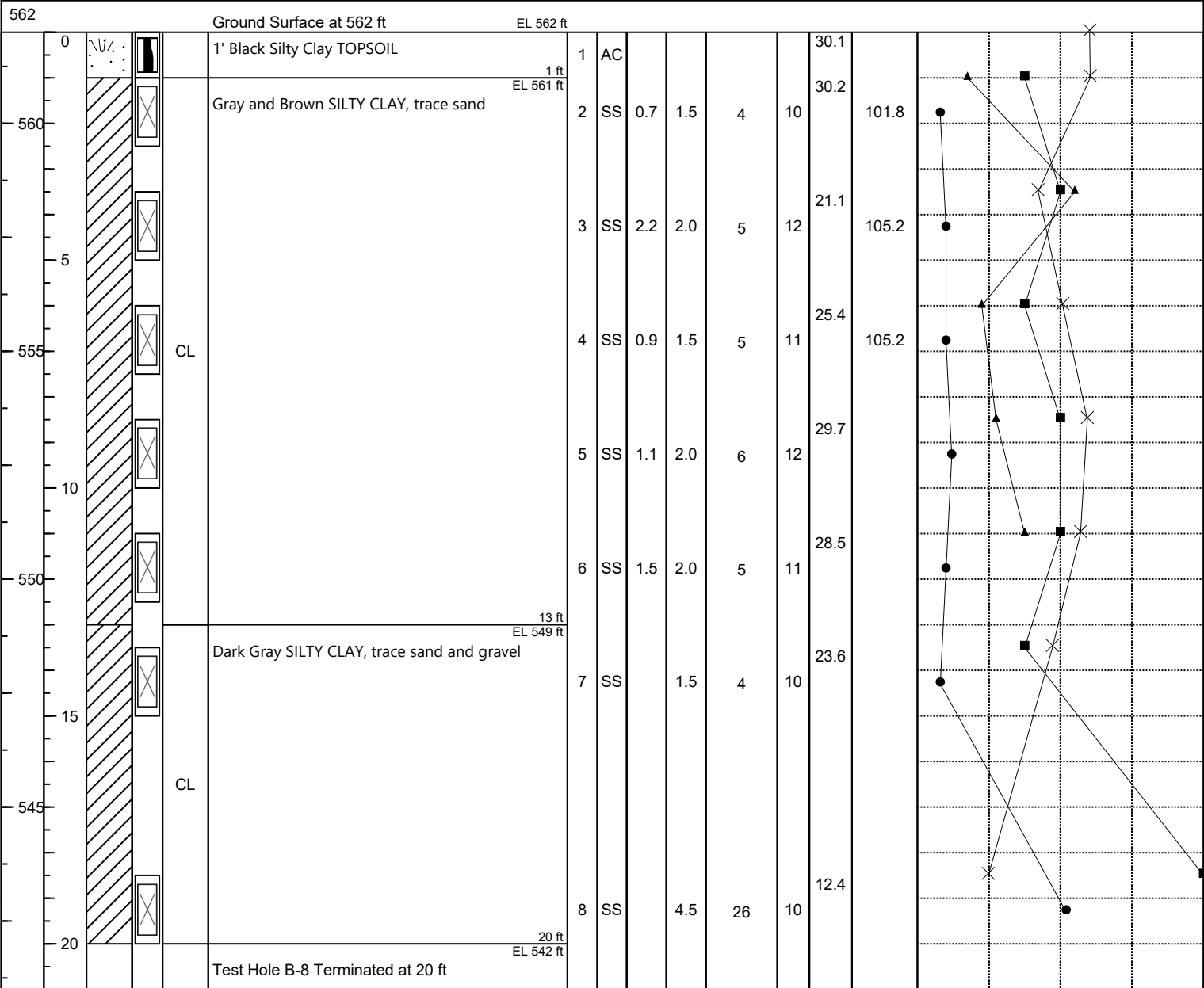


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BORING LOG B-8

Project No:	25-0137-151	Drilling Method:	3.25" Hollow-Stem Augers	WATER LEVELS	
Project:	Proposed Montgomery-Ellinger Solar Array	Sampling Method:	Split-Spoon Sampling	Water Elevation	N/A
Location:	4343 IL-16 - Litchfield, Illinois	Hammer Type:	Automatic	Water Depth	N/A
Client:	Summit Ridge Energy	Drill Rig Type:	Geoprobe 3126GT	After 24 Hours	
		Backfill Method:	Auger Cuttings		

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)



Completion Depth:	20	Sample Types:  Vane Shear  Split-Spoon  Rock Core  Shelby Tube  Hand Auger  Auger Cutting	Remarks: Elevation interpolated via Google Earth data.
Date Boring Started:	2025-04-11		
Driller:	GA		
Logged By:	JV		
Checked By:	KG		

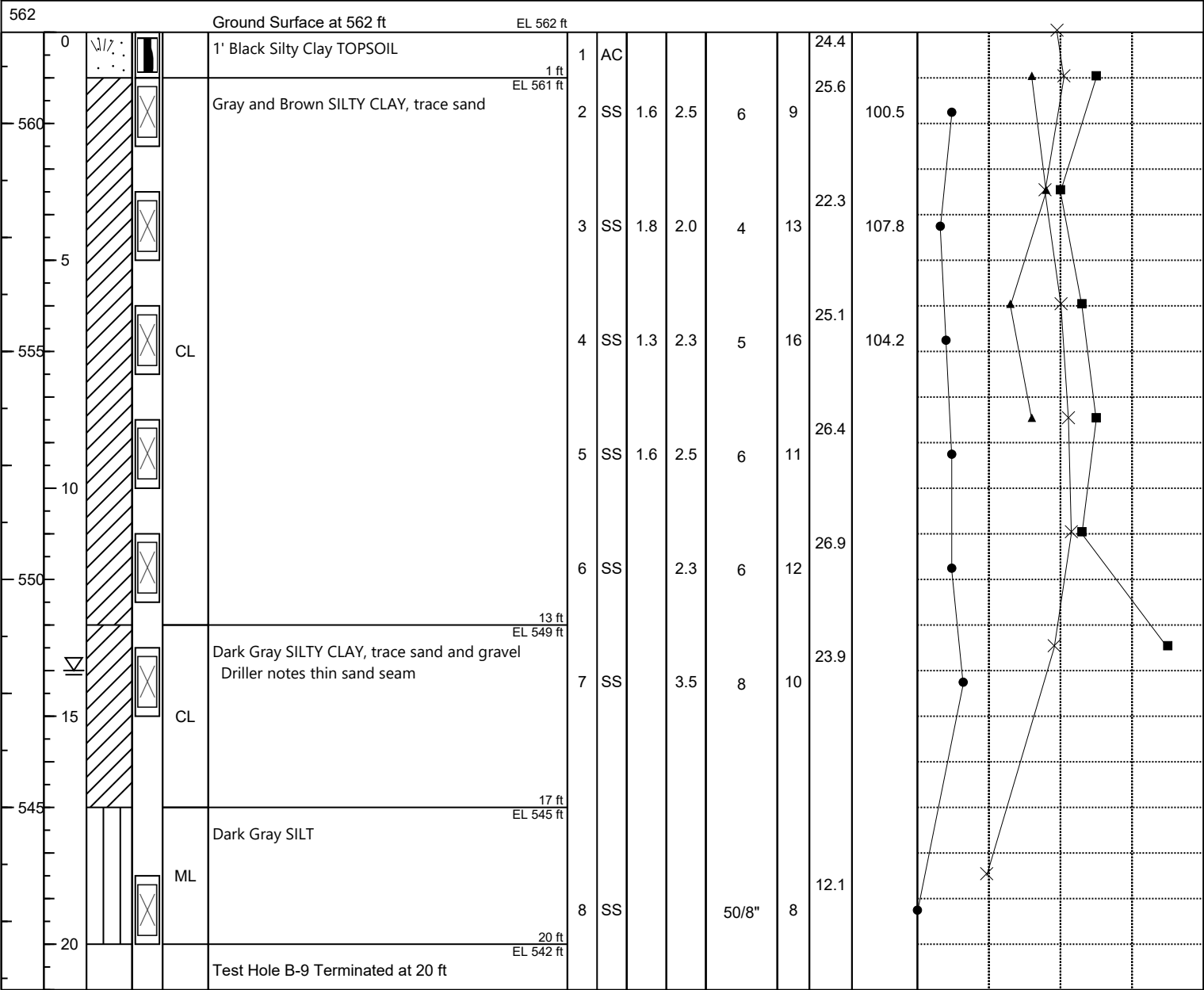


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BORING LOG B-9

Project No: 25-0137-151	Drilling Method: 3.25" Hollow-Stem Augers	WATER LEVELS
Project: Proposed Montgomery-Ellinger Solar Array	Sampling Method: Split-Spoon Sampling	Water Elevation 548 ft
Location: 4343 IL-16 - Litchfield, Illinois	Hammer Type: Automatic	Water Depth 14 ft
Client: Summit Ridge Energy	Drill Rig Type: Geoprobe 3126GT	After 24 Hours
	Backfill Method: Auger Cuttings	

Elevation	Depth (feet)	Graphic Log	Samples	USCS Classification	MATERIAL DESCRIPTION	Samples		Qu (tsf)	Qp (tsf)	SPT Blows per 6-inch N-values	Sample Recovery (in.)	Moisture (%)	Dry Density (pcf)	Test Data	
						No.	Symbols							Qu (tsf)	Qp (tsf)
														2	2
														2	2
														25	25
														25	25



Completion Depth: 20	Sample Types:	Remarks:
Date Boring Started: 2025-04-11	Vane Shear	Elevation interpolated via Google Earth data.
Driller: GA	Split-Spoon	
Logged By: JV	Rock Core	
Checked By: KG	Shelby Tube	
	Hand Auger	
	Auger Cutting	