

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-255

TOTAL DEPTH: 305

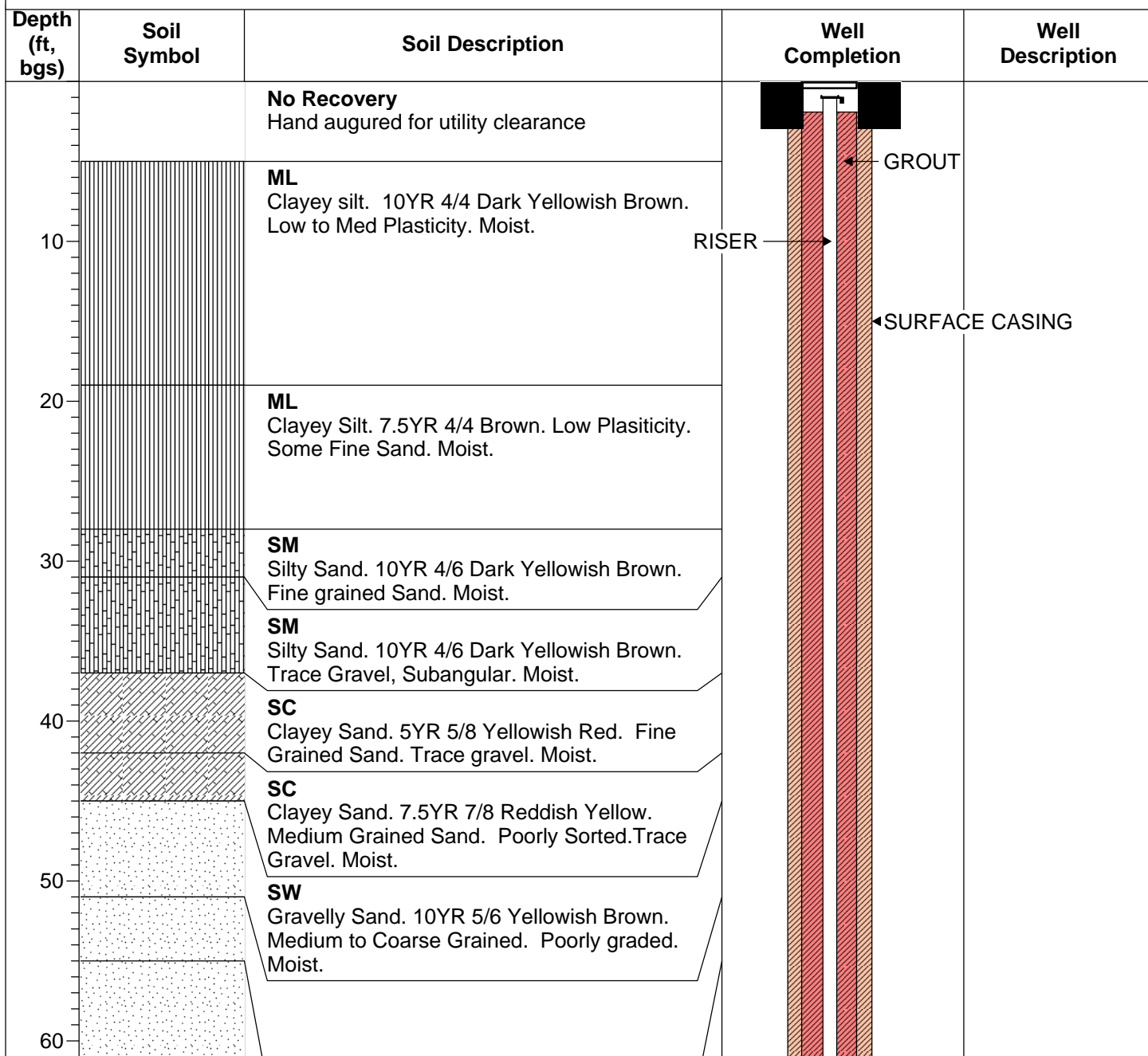
## PROJECT INFORMATION

PROJECT: Memphis Aquifer Drilling  
 PROJECT NO.: 121842-005  
 SITE LOCATION: Main Installation  
 PROJECT MANAGER: T. Holmes  
 FIELD STAFF: J. Sperry  
 BOREHOLE STARTED: 7/22/2010  
 BOREHOLE FINISHED: 7/28/2010

## DRILLING INFORMATION

DRILLING CO.: WDC  
 DRILLER: T. Minor  
 DRILLING METHOD/RIG: Sonic  
 BOREHOLE DIAMETER: 6x10 and 4x6  
 GROUND SURFACE ELEVATION: 292.38  
 WATER DEPTH/ DATE: 135.17 on 8/2/10  
 BOREHOLE USE: Monitoring Well

NOTES: Surface casing installed to 82 feet bgs, approximately 10 feet into upper clay. Boring drilled to 305 feet bgs.



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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
70		<b>SW</b> Gravelly Sand. 10YR 5/8 Yellowish Brown. Medium to Fine Grained. Poorly graded. Moist. <b>SW</b> Gravelly Sand. 7.5YR 6/8 Reddish yellow. Medium to Coarse Grained. Poorly Graded. Moist.		
80		<b>CH</b> Clay 10YR 5/1 Gray. High Plasticity. Stiff. Moist.		
90		<b>CH</b> Clay. 10YR 4/1 Dark gray. Very Plastic. Stiff. Trace Fine Sand. Moist		
100		<b>CH</b> Clay. 10YR 4/1 Dark Gray. Very Plastic. Stiff. Moist.		
110		<b>CH</b> Clay 10YR 4/1 Dark Gray. Very Plastic. Stiff. Moist.		
120				

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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>CL</b> Sandy Clay. 10YR 5/1 Gray. Soft. Very Fine. Very Low Plasticity. Moist.	 135.17-ft	
130		<b>SW</b> Sand. 10YR 6/4 Light Yellowish Brown. Trace of Clay. Fine to Medium Grained. Moist.		
		<b>CL</b> Clay 10YR 7/1 Light Gray. Stiff. Inorganic. Highly Plastic. Moist.		
140		<b>SW</b> Sand. 10YR 7/3 Very Pale Brown. Fine to Medium Grained. Some Oxidized Zones. Wet.		
150		<b>CL</b> Clay. 10 YR 7/1 Light Gray. Stiff. Inorganic. Highly plastic. Moist		
		<b>SW</b> Sand. 10YR 7/3 Very Pale Brown. Fine to Medium Grained. Some Oxidized Zones. Wet.		
160		<b>CL</b> Clay. 10 YR 7/1 Light Gray. Stiff. Inorganic. Highly plastic. Moist		
		<b>SW</b> Sand. 10YR 7/3 Very Pale Brown. Fine to Medium Grained. Some Oxidized Zones. Wet.		
170		<b>SM</b> Silty Sand. 10YR 7/2 Light Gray. Fine Grained. Well Sorted. Some Oxidized Zones (10YR 7/6 Yellow). Wet.		
		<b>SM</b> Silty Sand 10YR 7/2 Light Gray. Fine grained. Small Deposits of Lignite Staining (10YR 3/2 Very Dark Grayish Brown). Wet.		
180				

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		<b>CL</b> Clay. 10YR 7/1 Light Gray. Inorganic. Stiff. Very Plastic. Moist.		
190		<b>SW</b> Sand. 10YR 6/8 Brownish Yellow. Medium Grained. Well Sorted. Oxidized. Moist.		
200		<b>SC</b> Sand. 10YR 6/8 Brownish Yellow. Coarse Grained. Clay in Small Laminations throughout core. Wet.		
210		<b>SC</b> Sand. 7.5YR 7/8 Reddish Yellow. Medium Grained. Well Sorted. Oxidation bands. Wet.		
220		<b>SC</b> Sand 7.5YR 7/2 Pinkish Gray. Medium to Fine Grained. Trace Silt. Oxidation bands. Wet.		
230		<b>SC</b> Sand. 10YR 7/2 Light Gray. Medium to Coarse Grained. Well Sorted. Wet.		
		<b>SM</b> Sand. 10YR 6/2 Light Brownish Gray. Fine to Medium Grained. Trace Silt and Clay. Wet.		
240		<b>CL</b> Sandy Clay. 10YR 8/2 Very Pale Brown. Fine Grained. Soft. Oxidized Laminations in Clay. Moist.		

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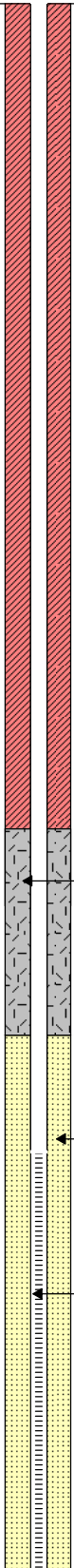
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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
250		<b>SW</b> Sand. 10YR 7/4 Very Pale Brown. Medium to Fine Grained. Trace Silt and Clay. Well Sorted. Wet.		
260				
270				
280		<b>SW</b> Sand. 10YR 6/8 Brownish Yellow. Medium Grained. Trace Fines. Well sorted. Oxidized. Wet. <b>SW</b> Sand. 10YR 7/4 Very Pale Brown. Medium Grained. Few Fines. Well Sorted. Wet.		BENTONITE  SAND PACK  SCREEN
290				
300				

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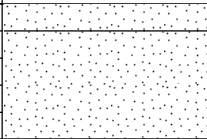
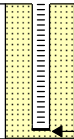
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Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>SW</b> Sand. 10YR 7/4 Very Pale Brown. Coarse Grained. Few Fines. Trace Lignite Chunks. Well Sorted. Wet.		
		End of Log	END CAP	
310				
320				
330				
340				
350				
360				

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