



## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

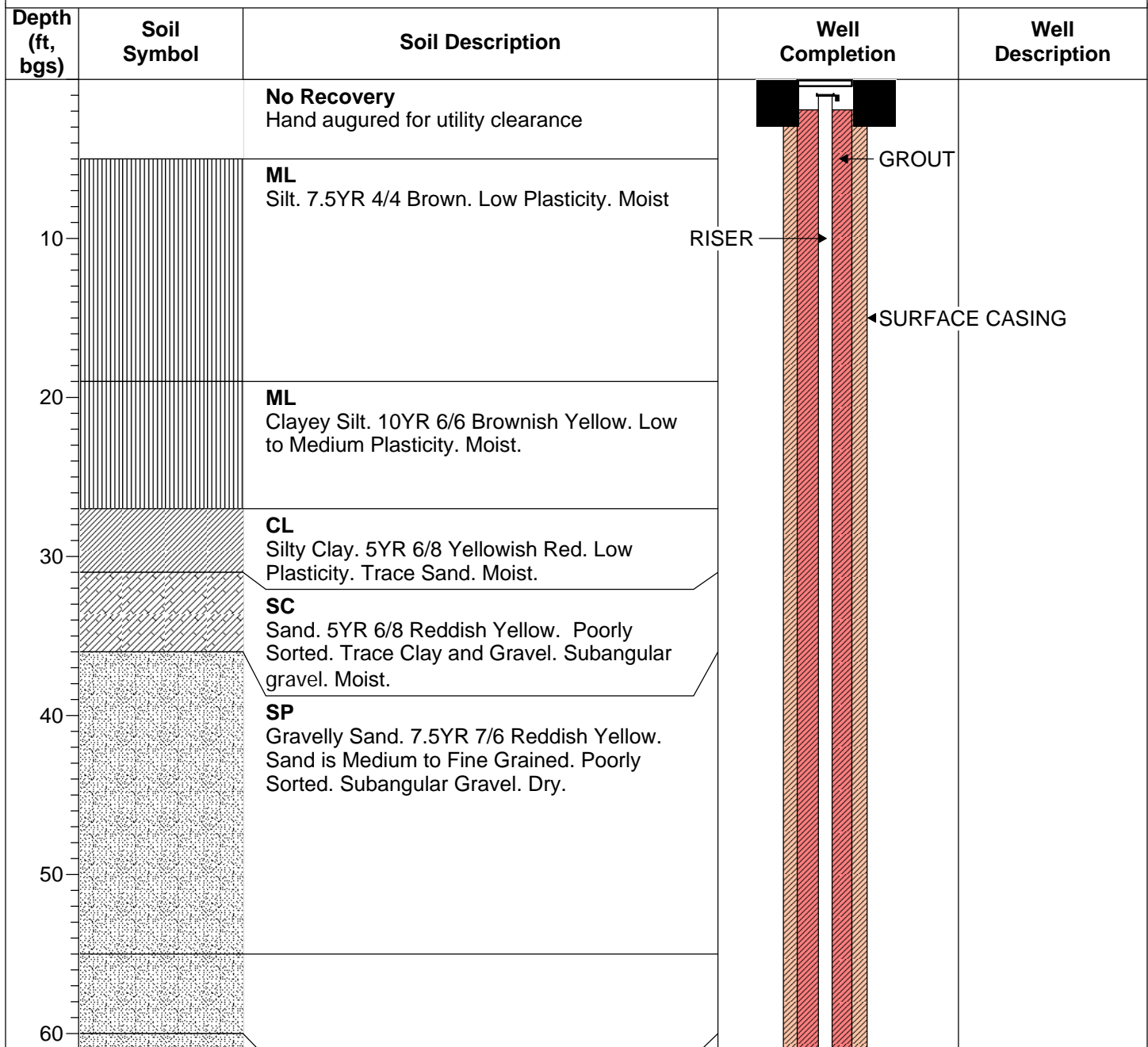
### PROJECT INFORMATION

PROJECT: Memphis Aquifer Drilling  
PROJECT NO.: 121842-005  
SITE LOCATION: Main Installation  
PROJECT MANAGER: T. Holmes  
FIELD STAFF: J. Sperry  
BOREHOLE STARTED: 7/24/2010  
BOREHOLE FINISHED: 8/1/2010

### DRILLING INFORMATION

DRILLING CO.: WDC  
DRILLER: T. Minor  
DRILLING METHOD/RIG: Sonic  
BOREHOLE DIAMETER: 6x10 and 4x6  
GROUND SURFACE ELEVATION: 293.28  
WATER DEPTH/ DATE: 135.25 on 8/10/2010  
BOREHOLE USE: Monitoring Well

NOTES: Surface casing installed to 85 feet bgs, approximately 10 feet into upper clay. Boring drilled to 305 feet; borehole washed to 306 feet bgs during well installation.



Created By: WTR

Checked By: JBS

PAGE: 1 of 6

# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
70		<p><b>SP</b> Sand. 7.5YR 4/6 Strong Brown. Medium to Coarse Grained. Poorly Sorted. Trace Gravel. Moist.</p> <p><b>SP</b> Sand. 7.5YR 6/6 Reddish Yellow. Medium to Fine Grained. Poorly Sorted. Trace Gravel. Moist</p>		
80		<p><b>SP</b> Sand. 5YR 5/8 Yellowish Red. Medium to Fine Grained. Trace Gravel. Poorly Sorted. Moist.</p> <p><b>CH</b> Clay. 10YR 6/8 Brownish Yellow. High Plasticity. Stiff. Moist.</p> <p><b>CH</b> Clay. 10YR 5/1 Gray. High Plasticity. Stiff. Trace Fine Sand. Moist.</p>		
90		<p><b>CH</b> Clay. 10YR 5/1 Gray. High Plasticity. Trace Lignite and Fine Sand. Moist</p>		
100				
110				
120				

Created By: WTR

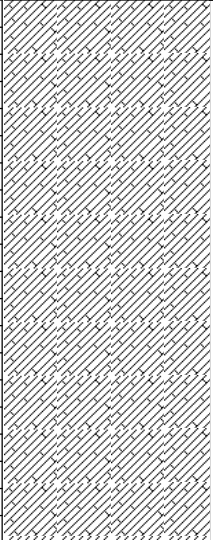


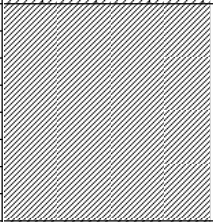
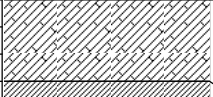
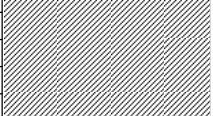

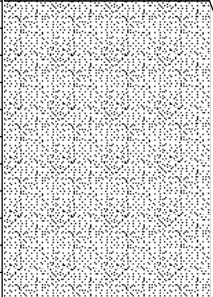
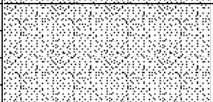
Checked By: JBS



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
130		<b>SC</b> Clayey Sand. 10YR 6/1 Gray. Fine Grained. Well Sorted. Moist.	 135.25-ft 	
140				
150		<b>CH</b> Sandy Clay. 10YR 5/1 Gray. Moderately Plastic. Fine Grained. Stiff. Moist.		
160	 	<b>SC</b> Clayey Sand. 10YR 6/1 Gray. Very Fine Grained Sand. Moist. <b>CH</b> Sandy Clay. 10YR 5/1 Gray. Moderately Plastic. Fine Grained. Moist.		
170	 	<b>ML</b> Clayey Silt. 10YR 7/1 Light Gray. Possible Silt Stone. Rock Flour. <b>SP</b> Sand. 10YR 4/1 Dark Gray. Medium to Fine Grained. Poorly Sorted. Moist.		
180		<b>SP</b> Sand. 10YR 7/2 Light Gray. Medium to Fine Grained. Poorly Sorted. Trace Lignite. Moist.		

Created By: WTR

Checked By: JBS

PAGE: 3 of 6



## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		<b>SW</b> Sand. 10YR 6/1 Gray. Medium to Coarse Grained Sand. Well Sorted. Trace Lignite. Moist.		
190		<b>SP</b> Clayey Sand. 10YR 5/1 Gray. Fine Grained. Moist		
200				
		<b>SP</b> Sand. 10YR 7/3 Very Pale Brown. Medium Grained. Well Sorted. Trace Fines and Lignite. Moist.		
210				
		<b>CH</b> Clay. 10YR 4/1 Dark Gray. High Plasticity. Stiff. Moist.		
220		<b>SW</b> Clayey Sand. 10YR 6/1 Gray. Well Sorted. Fine Grained. Moist.		
230		<b>SC</b> Clayey Sand. 10YR 6/3 Pale Brown. Fine Grained. Well Sorted. Lignite Grains. Moist.		
240		<b>SC</b> Clayey Sand. 7.5YR 5/1 Gray. Fine Grained. Well Sorted. Moist.		

Created By: WTR

Checked By: JBS

PAGE: 4 of 6



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
250				
260		<b>SW</b> Sand. 10YR 7/6 Yellow. Medium Grained. Some Fines. Well Sorted. Trace Lignite and Heavy Minerals. Moist.		
270		<b>SW</b> Sand. 10YR 5/1 Gray. Medium Grained. Trace Clay. Trace Lignite and Heavy Minerals. Well Sorted. Wet.		
280		<b>SW</b> Sand. 10YR 7/3 Very Pale Brown. Medium to fine Grained. Trace Lignite and Heavy Minerals. Trace Fines. Wet.	 BENTONITE	
290		<b>SW</b> Sand. 10YR 8/1 White. Medium Grained. Well Sorted. Clean. Trace Lignite and Heavy Minerals. Wet.	 SAND PACK	
300		<b>SW</b> Sand. 10YR 7/2 Light Gray. Medium to Coarse Grained. Clean. Trace Lignite. Wet.	 SCREEN	

Created By: WTR

Checked By: JBS

PAGE: 5 of 6

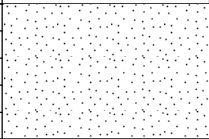
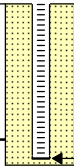




## FIELD BOREHOLE LOG

BOREHOLE NO.: MW-254

TOTAL DEPTH: 305

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
				
		End of Log	END CAP	
310				
320				
330				
340				
350				
360				

Created By: WTR

Checked By: JBS

PAGE: 6 of 6