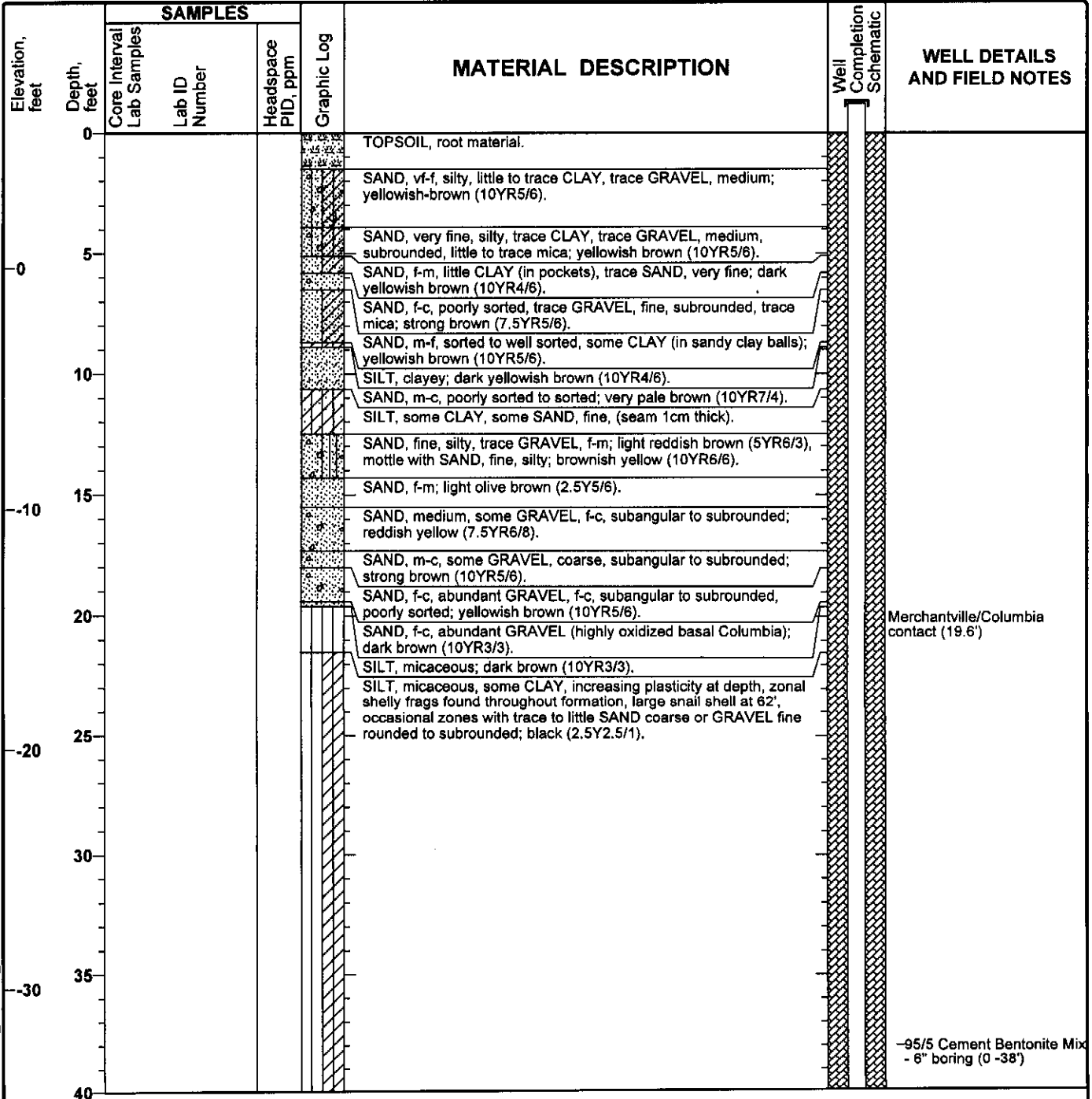


Project: Motiva Perimeter Wells  
 Project Location: DCR Delaware City, DE **Ec13-28**  
 Project Number:

**Log of Monitoring Well D45B**

Sheet 1 of 5

Date(s) Drilled	4/26/06	Logged By	Stephen Zahniser	Checked By	Cyrstal Kirby
Drilling Method	Roto Sonic	Drill Bit Size/Type	NA	Total Depth of Borehole	188.0 feet
Drill Rig Type	Roto Sonic	Drilling Contractor	ProSonic Drilling	Surface Elevation	5.60
Groundwater Level(s)		Sampling Method(s)	4" Core Barrel	Top of Casing Elevation	
Location	DCR, Delaware City, DE	Borehole Completion			



MOTIVA MOTIVA\_DSERIES\_2006.GPJ FAGWGN01.GDT 11/28/06



Project: Motiva Perimeter Wells  
 Project Location: DCR Delaware City, DE  
 Project Number:

Log of Monitoring Well D45B

Sheet 2 of 5

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace PID, ppm				
40	40							
45	45							
50	50							
55	55							
60	60							
65	65							
70	70							
75	75					SAA, more plastic (breaks differently).		
80	80					SILT, micaceous, some CLAY, increasing plasticity at depth, zonal shelly frags found throughout formation, large snail shell at 62', occasional zones with trace to little SAND coarse or GRAVEL fine rounded to subrounded; black (2.5Y2.5/1).		
85	85							

-95/5 Cement Bentonite Mix  
 - 6" boring (38'-188')

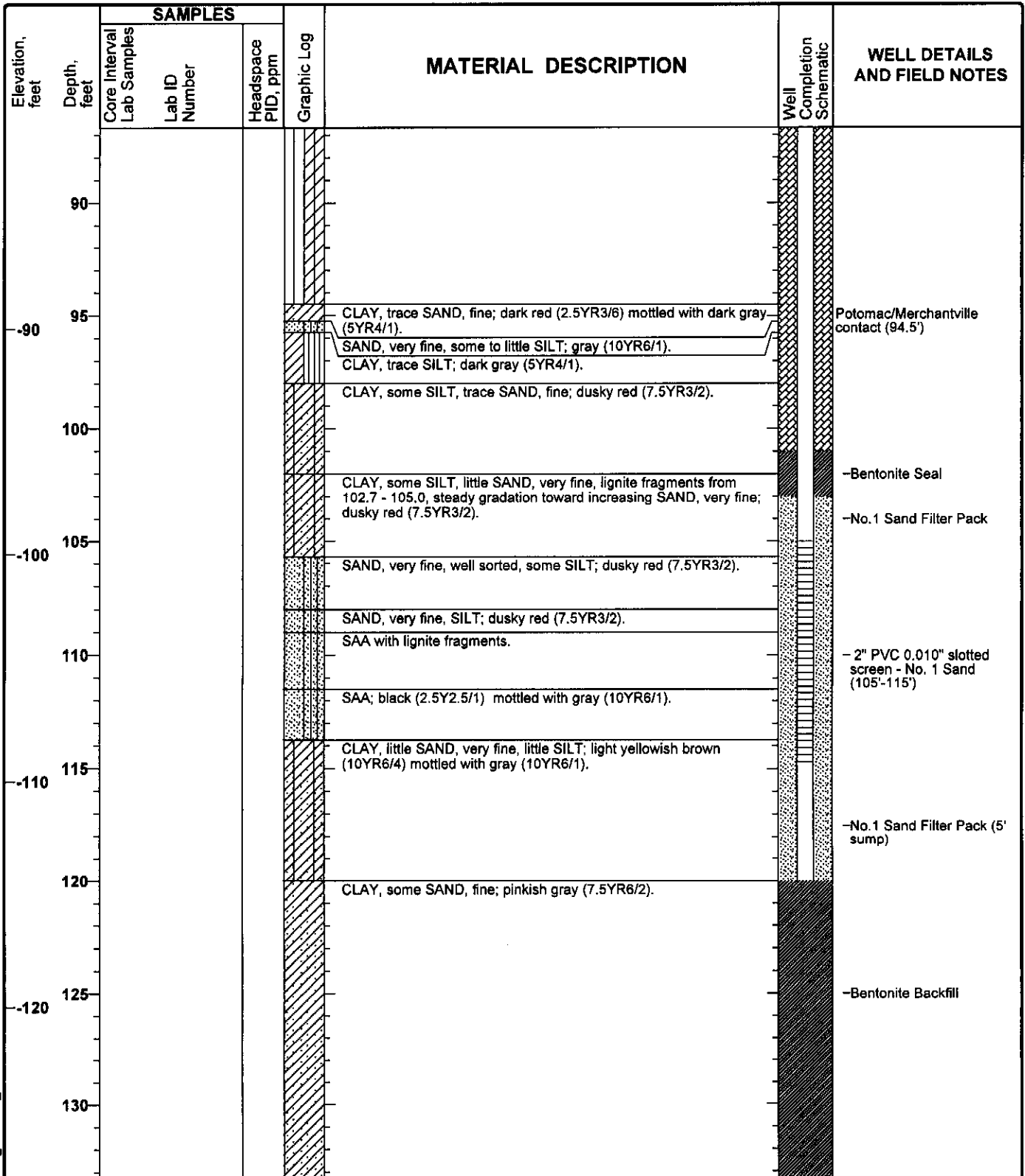
MOTIVA MOTIVA\_DSERIES\_2006.GPJ FAGWGN01.GDT 11/28/06



Project: Motiva Perimeter Wells  
 Project Location: DCR Delaware City, DE  
 Project Number:

### Log of Monitoring Well D45B

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Project: Motiva Perimeter Wells  
 Project Location: DCR Delaware City, DE  
 Project Number:

Log of Monitoring Well D45B

Sheet 4 of 5

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace PID, ppm				
-130	135							
						CLAY, little SAND, very fine, little SILT; dark gray (10YR4/1).		
	140							
						CLAY, little SAND, very fine, lignite fragments throughout; grayish brown (10YR5/2).		
-140	145					CLAY, some SAND, fine, abundant lignite fragments throughout; white (5YR8/1) mottled with light olive brown (2.5Y5/6). SAND, very fine, SILT; yellowish red (5YR5/6).		
						CLAY, little SAND, vf-f; pinkish gray (10YR7/2) mottled with olive brown (2.5Y4/4).		
	150					SAA; much less pinkish gray.		
						CLAY, some SILT; light gray (10YR7/2) mottled with brown (7.5YR5/3).		
-150	155					CLAY, some SILT; light brown (10YR6/4) mottled with white (2.5Y8/1).		
						CLAY, some lignite fragments from 166' - 167' bgs; gray (7.5YR5/1).		
	160							
	165						-Bentonite Backfill	
-160								
	170					CLAY, some SILT, little SAND, fine; gray (10YR5/1) mottled with red (5YR5/6).		
						CLAY, some SILT, trace SAND, very fine; reddish gray (5YR5/1).		
-170	175							
	180							

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Project: Motiva Perimeter Wells  
 Project Location: DCR Delaware City, DE  
 Project Number:

Log of Monitoring Well D45B

Sheet 5 of 5

Elevation, feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace PID, ppm	Graphic Log			
180								
-180	185							
-190	190						End of boring	
-200	200							
-210	210							
-220	220							

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