

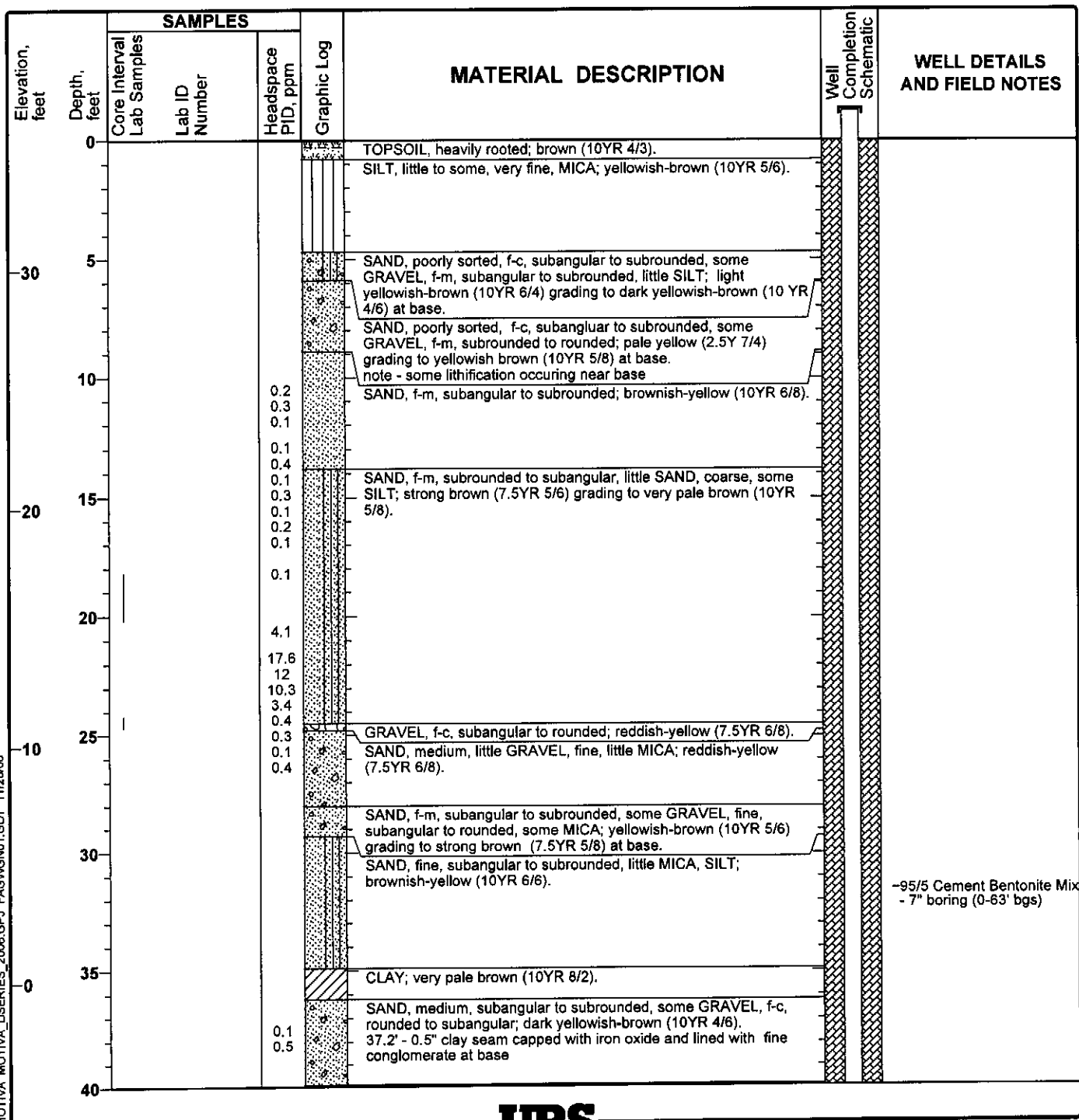
Project: Motiva Perimeter Wells
 Project Location: DCR Delaware City, DE
 Project Number:

Ec13-22

Log of Monitoring Well D28C

Sheet 1 of 6

Date(s) Drilled	5/8/06	Logged By	Stephen Zahniser & Crystal Kirby	Checked By	Crystal Kirby
Drilling Method	Roto Sonic	Drill Bit Size/Type	NA	Total Depth of Borehole	228.5 feet
Drill Rig Type	Roto Sonic	Drilling Contractor	ProSonic Drilling	Surface Elevation	35.50
Groundwater Level(s)		Sampling Method(s)	4" Core Barrel	Top of Casing Elevation	
Location	DCR, Delaware City, DE	Borehole Completion			



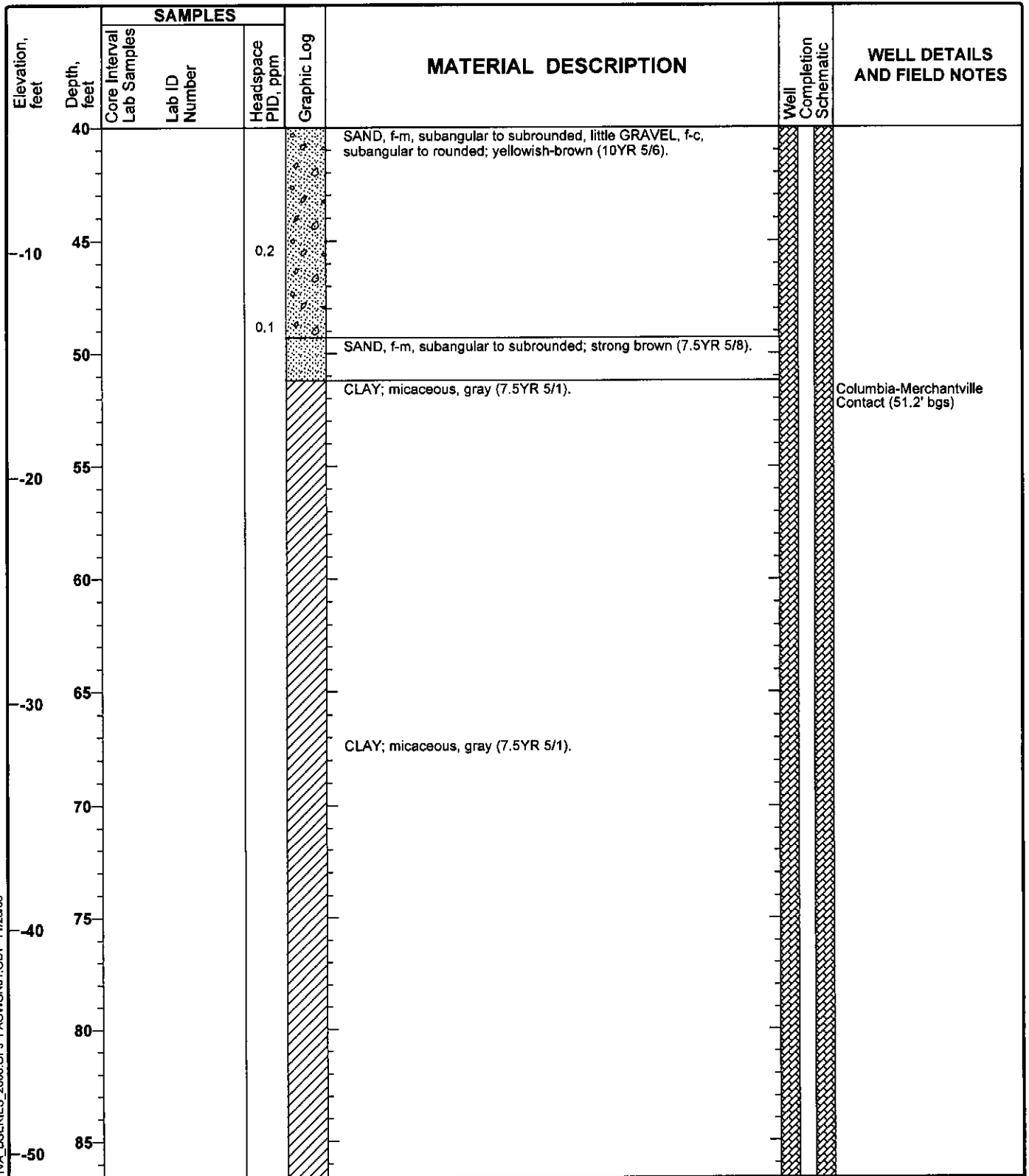
MOTIVA MOTIVA_DSERIES_2006.GPJ FAGMGN01.GDT 11/29/06



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

Log of Monitoring Well D28C

Sheet 2 of 6



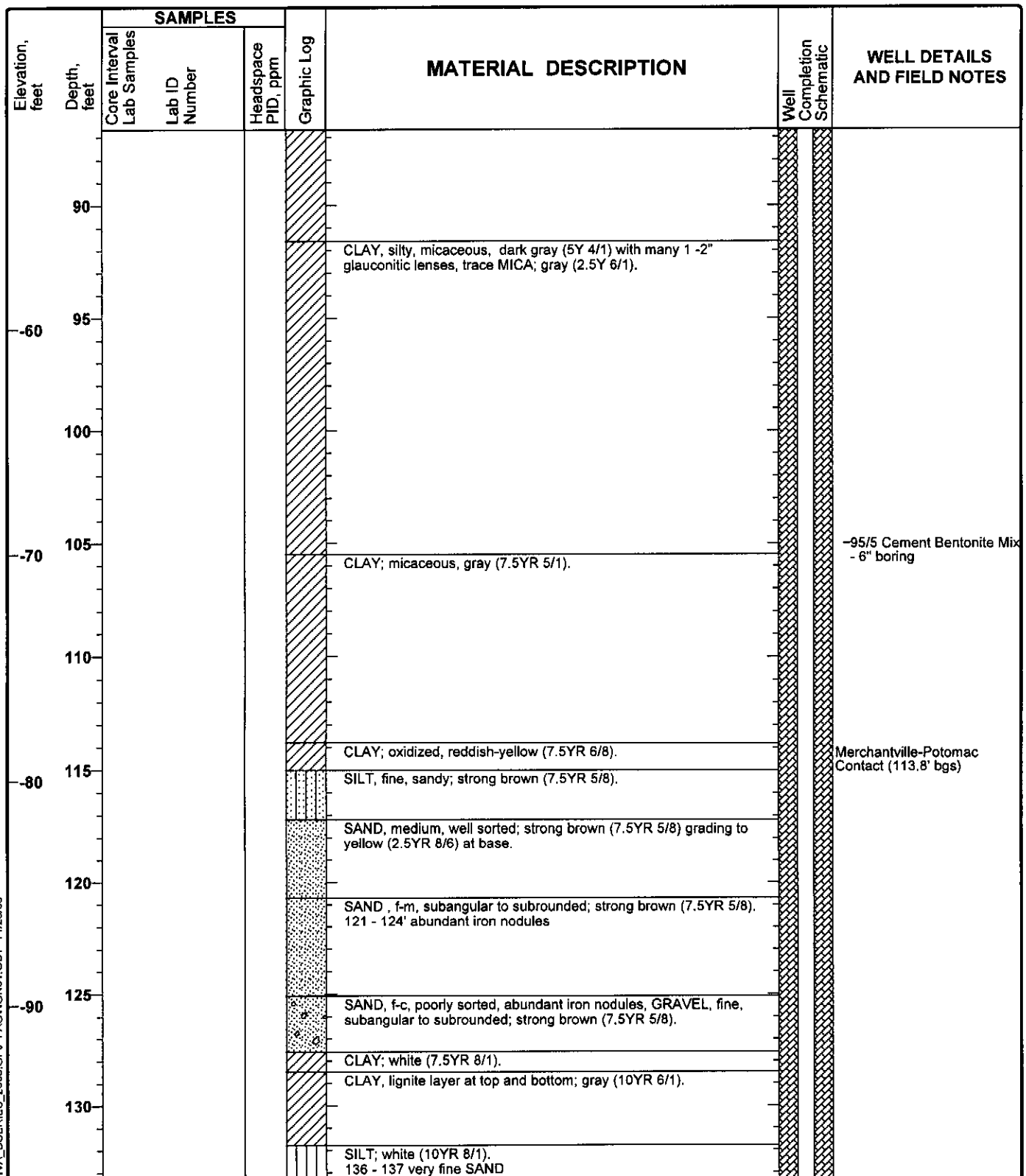
MOTIVA MOTIVA_DSERIES_2006.GPJ FAGMGN01.GDT 11/28/06



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

Log of Monitoring Well D28C

Sheet 3 of 6



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 D28C

Sheet 4 of 6

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				
-100	135							
	140			0.2	SAND, vf-f, brownish-yellow (10YR 6/8) grading to yellowish-brown (10YR 5/8) at base. CLAY, silty; white (2.5Y 8/1).			
	145				SAND, fine, subrounded; pale yellow (2.5Y 8/4). CLAY, silty; white (2.5Y 8/1). SAND, fine, subrounded to rounded; reddish-yellow (7.5YR 6/8). CLAY; white (2.5Y 8/1). SAND, fine, subrounded to rounded; reddish-yellow (7.5YR 6/8). SAND, very fine, some SILT; very pale brown (10YR 8/2). CLAY, mottled, some SILT; light gray (10YR 7/1) and yellowish-red (5YR 4/6).			
-110	150				SAND, very fine, SILT; brownish-yellow (10YR 6/8) grading to pale yellow (2.5Y 8/2) at base. increasing in SILT content toward base SAND, very fine, SILT, mottled; white (2.5 Y 8/1) and yellowish-red (5YR 4/6). SAND, very fine, SILT, mottled; white (2.5Y 8/1) and reddish-yellow (7.5YR 6/8).			
-120	155				SAND, vf-f, yellow (10YR 7/6) grading to reddish-yellow (7.5YR 7/6) to reddish-yellow (5YR 5/8) to very pale brown (10YR 8/2) to yellowish-red (5YR 5/8) at base. 155' - thin clay seam 157.5 - 158.0' - ironstone seam CLAY; hard with little to some lignite, light gray (2.5Y 7/1).			
	160						-95/5 Cement Bentonite Mix - 6" boring	
-130	165				CLAY; hard with little to some lignite, olive (5Y 5/3) and olive gray (5Y 4/2). CLAY; hard, gray (5Y 6/1). CLAY; white (2.5Y 8/1) and gray (2.5Y 7/2).			
	170							
	175				CLAY; hard, mottled, pale yellow (5Y 8/2), pinkish-gray (7.5YR 7/2) and pale yellow (5Y 7/3). CLAY; hard, mottled, gray (2.5Y 7/2) and olive (5Y 5/3) increase in lignite content towards the base.			
-140	180							

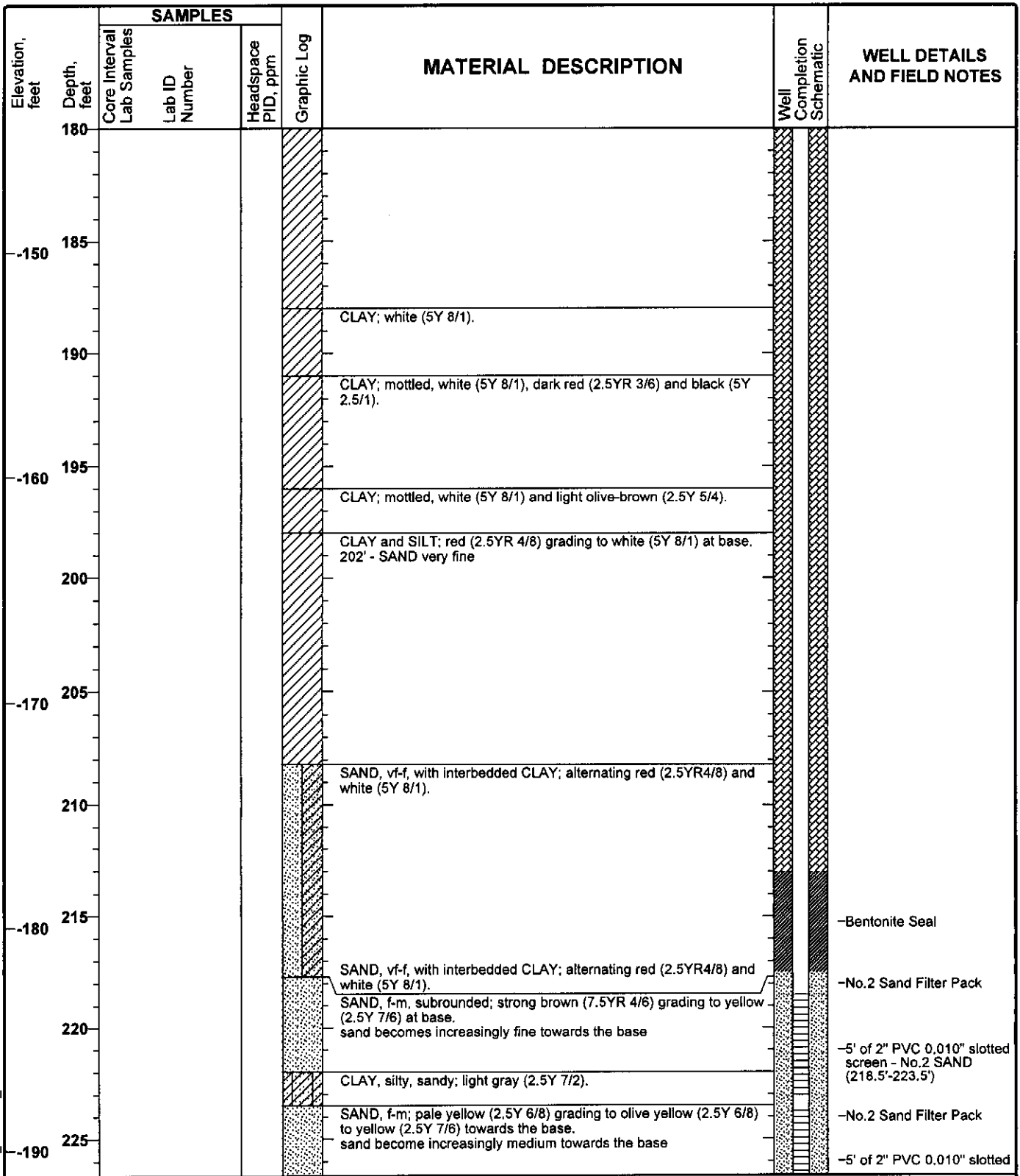
MOTIVA MOTIVA_DSERIES_2006.GPJ FAGWGN01.GDT 11/28/06



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

Log of Monitoring Well D28C

Sheet 5 of 6



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 D28C

Sheet 6 of 6

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				
							screen - No.2 SAND (223.5'-228.5')	
230								
-200	235							
	240							
-210	245							
	250							
-220	255							
	260							
-230	265							
	270							

MOTIVA MOTIVA_DSERIES_2006.GPJ FAGWGN01.GDT 11/28/06

