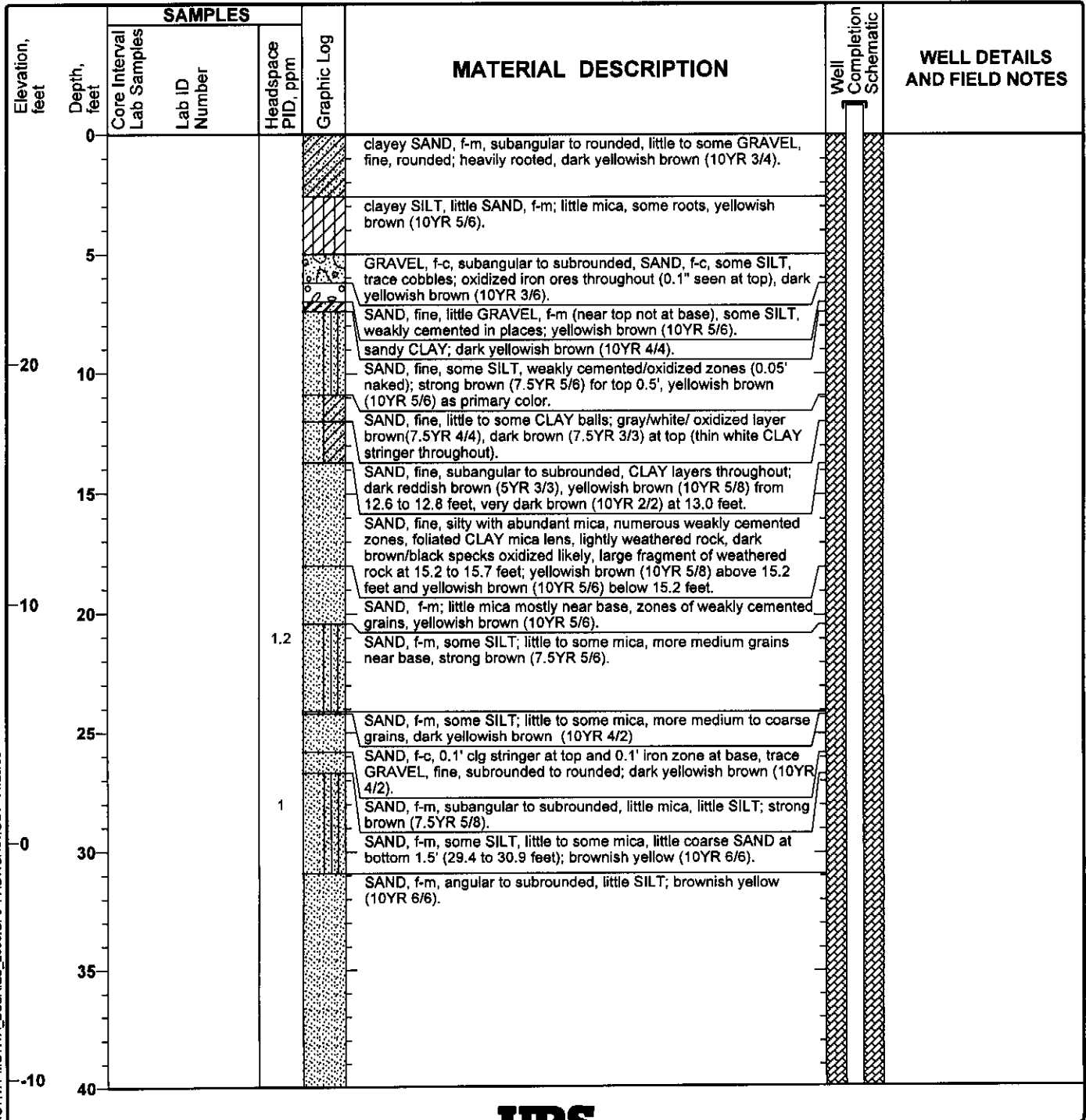


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Date(s) Drilled	6/13/06	Logged By	Stephen Zahniser	Checked By	Cyrstal Kirby
Drilling Method	Roto Sonic	Drill Bit Size/Type	NA	Total Depth of Borehole	187.0 feet
Drill Rig Type	Roto Sonic	Drilling Contractor	ProSonic Drilling	Surface Elevation	29.60
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 FAGMGN01.GDT 11/28/06



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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								
45					SAND, m-c, angular to subrounded, GRAVEL, fine, subrounded to rounded; brownish yellow (10YR 6/6), at 44 feet dark yellowish brown (10YR 3/6).			
					SAND, m-c, angular to subrounded, little GRAVEL, fine, rounded; dark yellowish brown (10YR 3/6).			
					SAND, m-c, angular to subrounded, GRAVEL, f-m, subrounded to rounded; dark yellowish brown (10YR 3/6).			
-20	50				No recovery			
					SAND, m-c, angular to subrounded, some GRAVEL, f-c, subrounded to rounded, coarse gravel at 48.4 to 49.0 feet; dark yellowish brown (10YR 3/6).		-95/5 Cement Bentonite Mix - 6" boring (0-195' bgs)	
		0.4			SAND, medium, angular to subrounded, some coarse grains at 51.5 feet, trace GRAVEL, fine; strong brown (7.5YR 5/8).			
		0.2			SAND, f-c, angular to subrounded, some to abundant GRAVEL, fine, subrounded to rounded; strong brown (7.5YR 5/8).			
55		0.2			SAND, f-c, angular to subrounded, abundant GRAVEL, f-m, subrounded to rounded; strong brown (7.5YR 5/8).			
		0.2			SAND, m-c, angular to subrounded, some to abundant GRAVEL, f-c, subrounded to rounded, trace COBBLES; strong brown (7.5YR 5/8).			
-30	60				SAND, m-c, angular to subrounded, some to abundant GRAVEL, f-c, subrounded to rounded, trace COBBLES; strong brown (7.5YR 5/8), COBBLES and coarse GRAVEL at 59.5 feet.			
					SAND, m-f, trace coarse, angular to subrounded; strong brown (7.5YR 5/8).			
					GRAVEL, f-c, subrounded to rounded, SAND, m-c, angular to subrounded, some COBBLES at 61.7 to 62.0 feet; strong brown (7.5YR 5/8).			
65					SAND, f-m, trace to little coarse, angular to subrounded, trace GRAVEL, fine; horizontal seams strained dark brown (different from above and below), very dark brown (7.5YR 2.5/3).			
		0.1			SAND, m-c, angular to subrounded, little GRAVEL, f-c, subrounded to rounded; little mica, coarse, dark yellowish brown (10YR 3/6).			
					SAND, medium, little to some GRAVEL, f-c, subangular to rounded; brownish yellow (10YR 6/6)			
-40	70				- increase in GRAVEL towards basal 1.5'			
		0.1			Iron ore layer, oxidized with minor CLAY and some SAND, medium; strong brown (7.5YR 4/6).			
		0.1			SAND, f-c, subangular to subrounded, GRAVEL, f-c, subrounded to rounded, trace to little COBBLES, rounded; brownish yellow (10YR 6/6).			
		0.2						
75		0.1			- 3 fining upward sequences (70.2 - 74.0 feet, 74.0-76.0 feet, 76.0-85.0 feet)			
		0.2						
-50	80							
		0.1						
		0.1						
		0.2						
		0.2						
85		0.1						
		0.1			SAND, m-c, angular to subrounded, trace to little GRAVEL, fine, subrounded to rounded, GRAVEL layer at 90.0-90.8 feet, f-c,			
		0.2						

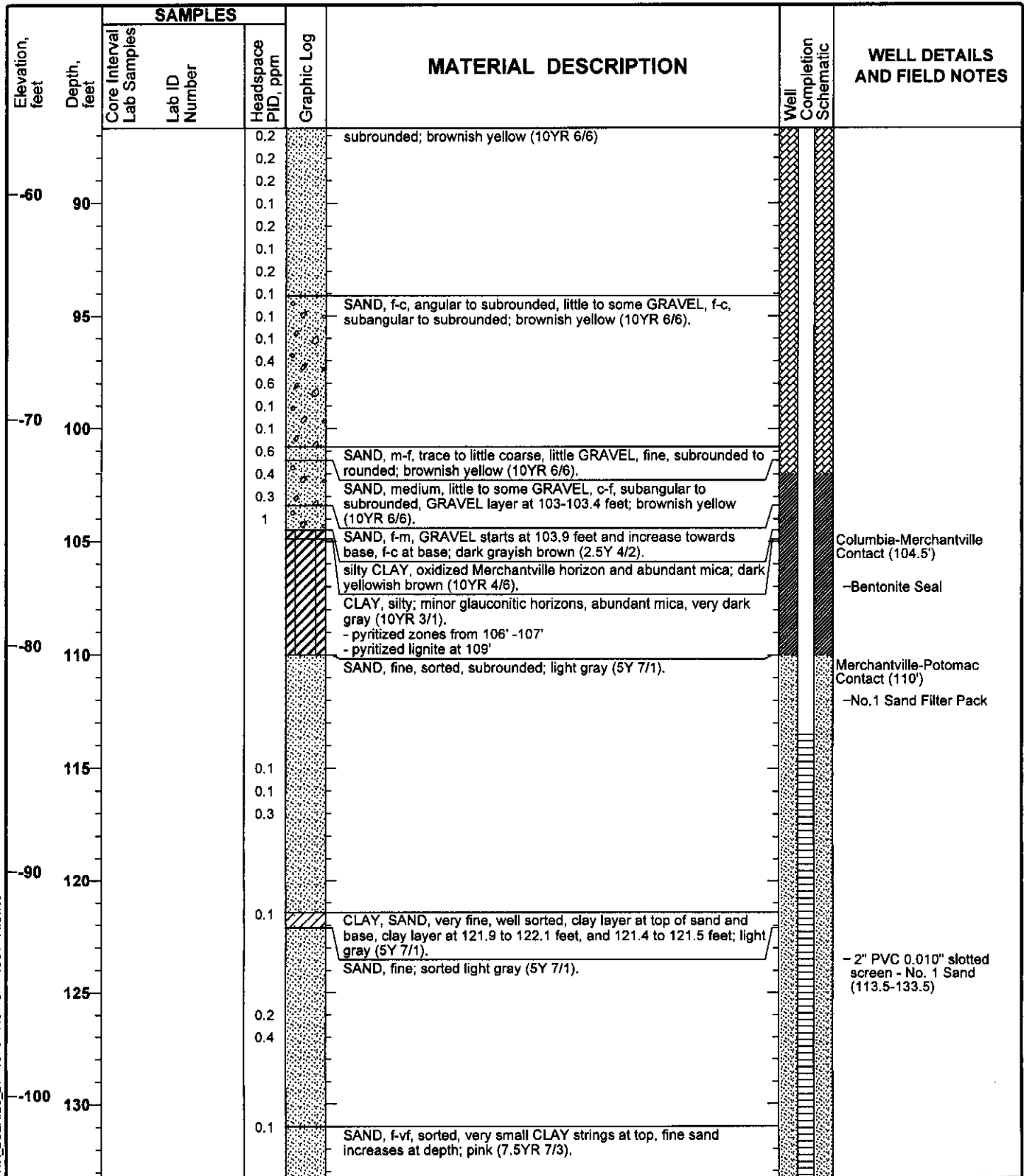
MOTIVA_MOTIVA_DSERIES_2006.GPJ FAGMGN01.GDT 11/28/06



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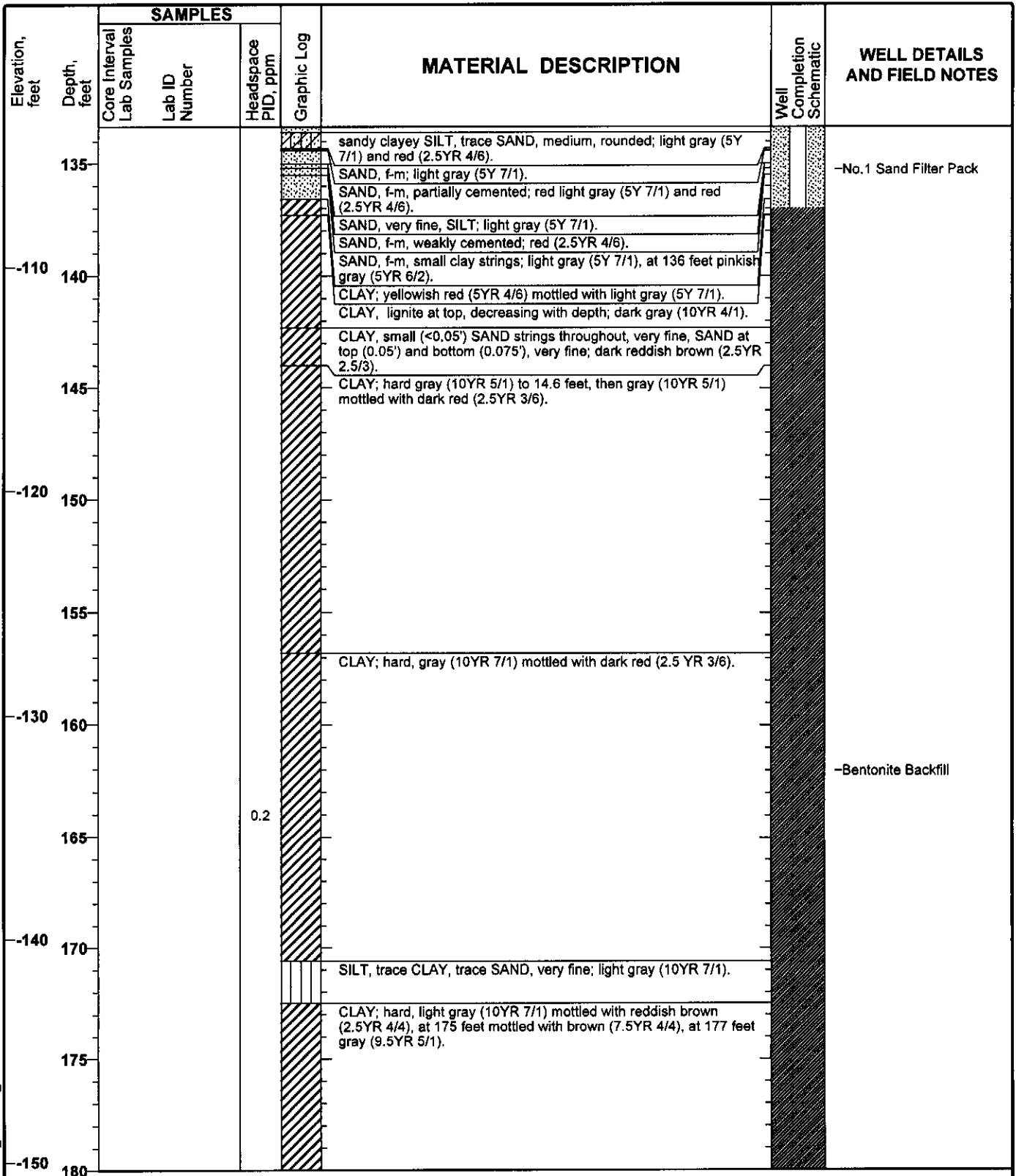
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Elevation, feet	Depth, feet	SAMPLES			MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace PID, ppm			
180							
185							
190							
195							
200							
205							
210							
215							
220							
225							

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