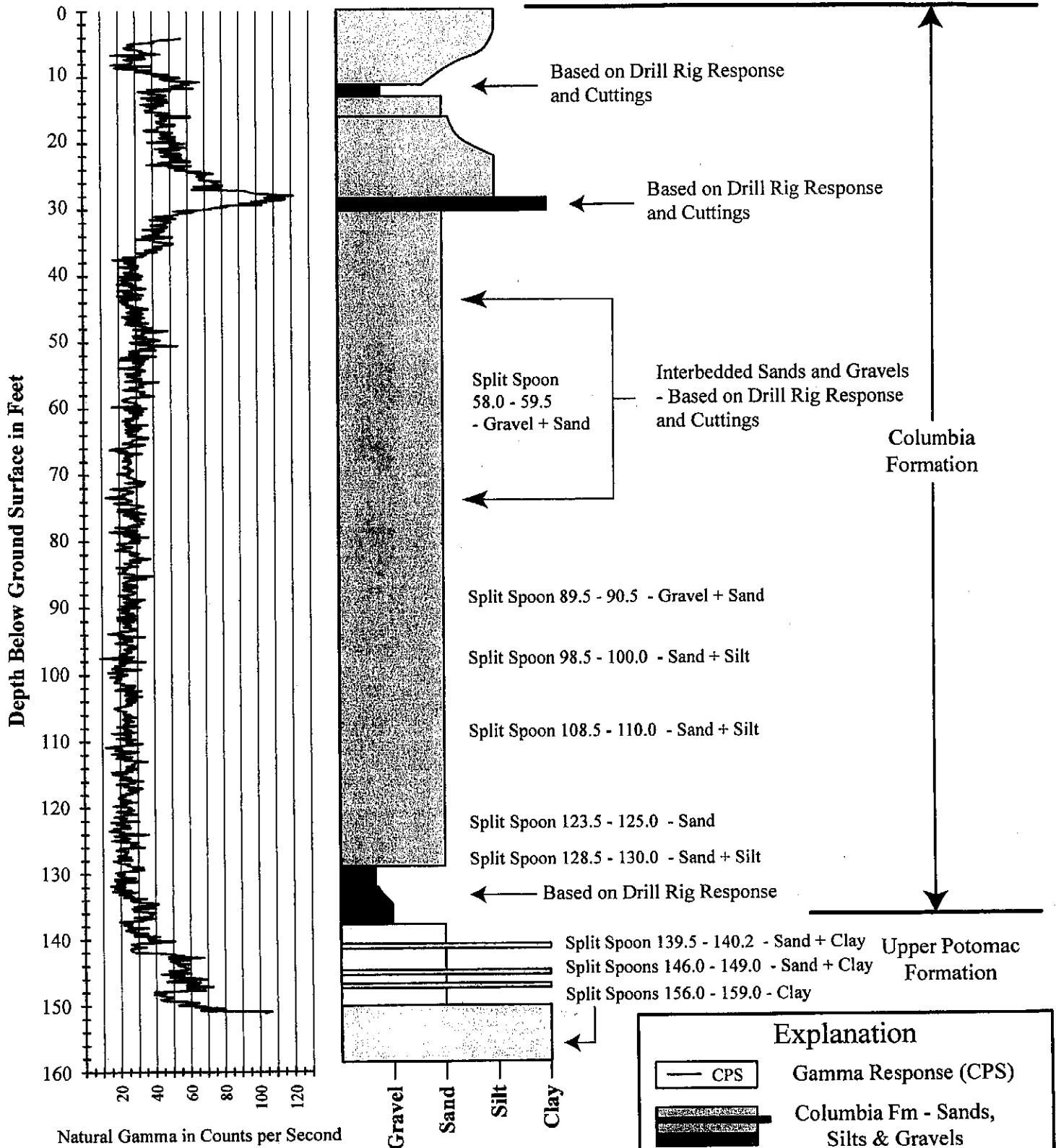


EC13-68

Groundwater Screening Boring 2J Natural Gamma Profile and Boring Log Delaware City Refinery

EC13-68



Explanation	
	Gamma Response (CPS)
	Columbia Fm - Sands, Silts & Gravels
	Upper Potomac Fm - Sands, Silts & Clays

Project: Motiva - Dissolved Phase Plume Investigation 2005
 Project Location: Delaware City, Delaware
 Project Number: 20240412.w1000

Log of GWSB 2J

ECB-68 Sheet 1 of 3

Date(s) Drilled	10/18/2005	Logged By	S.J. Zahniser	Checked By	
Drilling Method	Hollow Stem Auger & Mud Rotary	Drill Bit Size/Type		Total Depth of Borehole	159.0 feet
Drill Rig Type		Drilling Contractor	Walton Corporation	Surface Elevation	45.63
Groundwater Level(s)	Not Measured	Sampling Method(s)		Hammer Data	
Location	Delaware City Refinery - Soy Field	Borehole Completion	Cement & Bentonite Mix		

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace HNu, ppm			
0					Topsoil		
					brown SILT, very fine SAND and little to some Gravel + trace CLAY		
40					red brown, medium to coarse SAND with some to abundant fine to medium, subrounded GRAVEL + trace SILT		
10					red brown, medium to coarse SAND, abundant, fine to medium, subrounded GRAVEL and few COBBLES + trace SILT		
					brown, fine to coarse SAND + trace SILT and GRAVEL		
					yellow-brown, fine to coarse SAND + trace SILT and CLAY		
20					yellow-tan, fine to medium, sorted SAND + trace SILT		
20							
					dark brown, clayey SAND		
30					brown, fine SAND + trace SILT and CLAY		
40							
0							
50							
60							

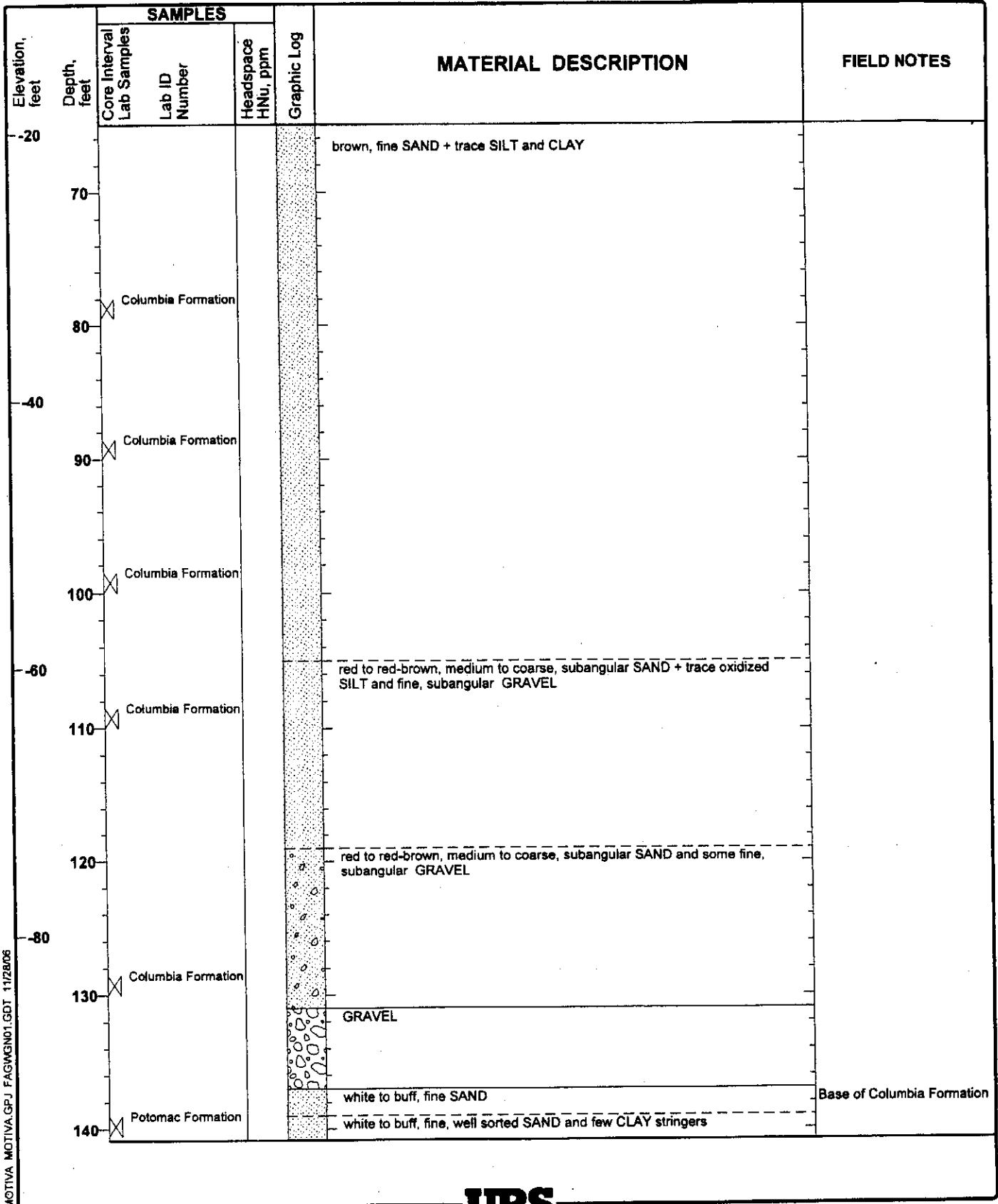
MOTIVA MOTIVA.GPJ FAGWGN01.GDT 11/28/06

RC

Project: Motiva - Dissolved Phase Plume Investigation 2005
 Project Location: Delaware City, Delaware
 Project Number: 20240412.w1000

Log of GWSB 2J

Sheet 2 of 3



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Project: Motiva - Dissolved Phase Plume Investigation 2005
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Log of GWSB 2J

Sheet 3 of 3

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace HNu, ppm			
-100						white to buff, fine, well sorted SAND and few CLAY stringers	
	150	Potomac Formation Potomac Formation				gray, very fine to fine SAND interbedded with gray, clayey SILTS	
		Potomac Formation Potomac Formation				gray, silty CLAY + trace SAND	
-120							
	170						
-140							
	190						
-160							
	210						

MOTIVA MOTIVA.GPJ FAGW3N01.GDT 11/28/06