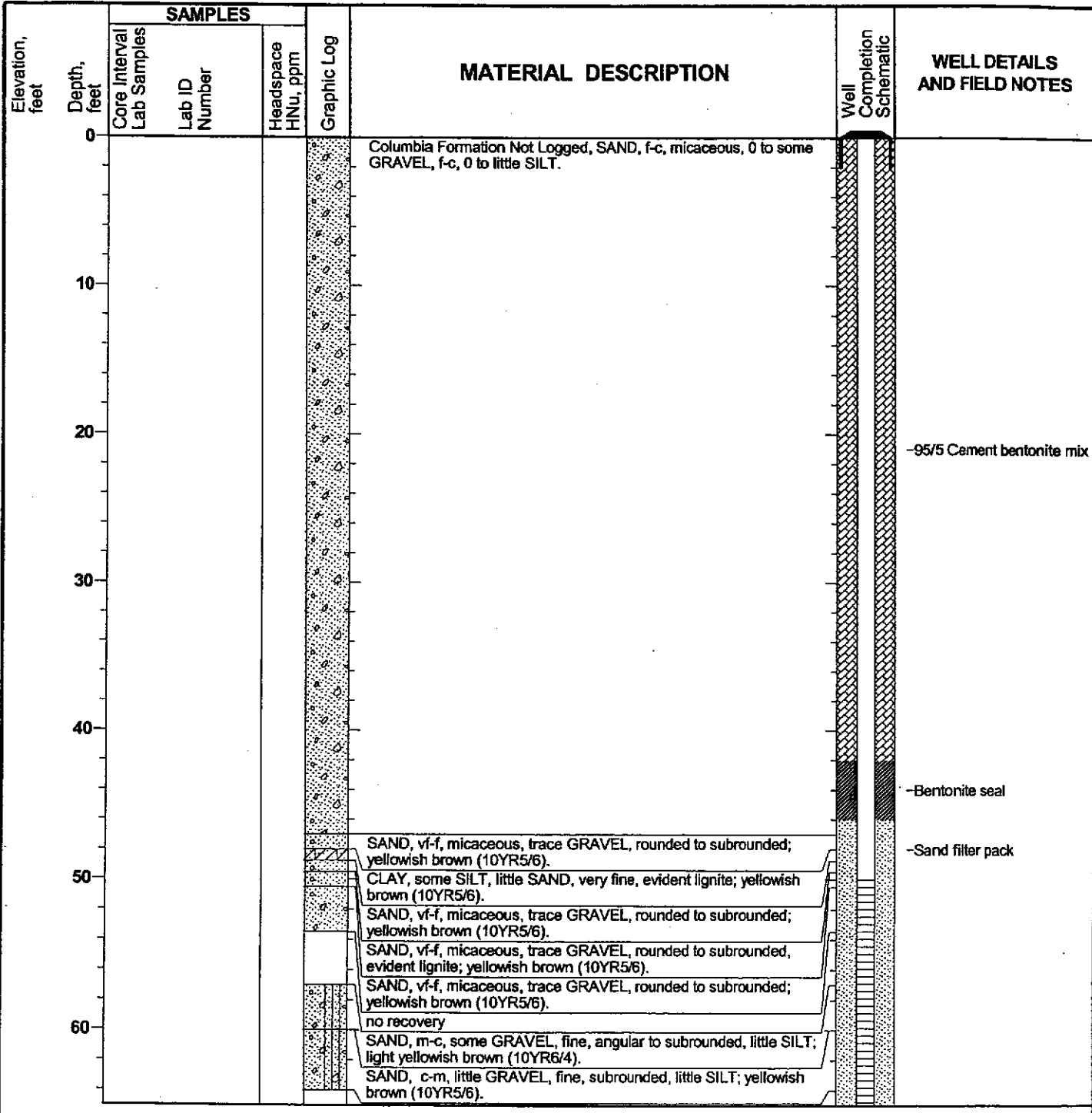


Project: DCR Eastern Remediation System  
 Project Location: Delaware City Refinery, Delaware City, DE  
 Project Number: 20240412.W1000

Log of Oxygen Injection Well IW-E105  
 ECB-50 Sheet 1 of 2

Date(s) Drilled	06/12/2006	Logged By	Nick Garner	Checked By	Mike Shadle
Drilling Method	Roto Sonic Drilling	Drill Bit Size/Type	NA	Total Depth of Borehole	137.0 feet
Drill Rig Type	Roto Sonic	Drilling Contractor	ProSonic Drilling	Surface Elevation	
Groundwater Level(s)		Sampling Method(s)	Core Barrel	Top of Casing Elevation	
Location	DCR, Delaware City, DE	Borehole Completion	NA		



MOTIVA EASTERN REMEDIATION SYSTEM INJECTION WELLS.GPJ FAGWGN01.GDT 9/15/06



1/2

Project: DCR Eastern Remediation System  
 Project Location: Delaware City Refinery, Delaware City, DE  
 Project Number: 20240412.W1000

Log of Oxygen Injection Well IW-E105

EC13-50 Sheet 2 of 2

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 H <sub>2</sub> Nu, ppm				
	70					no recovery		-4" Stainless Steel 0.020" slotted screen - No. 2 SAND
	80					SAND, m-c, and GRAVEL, fine, angular to subrounded, trace SILT; yellowish brown (10YR5/6).		
						SAND, medium, some SAND, coarse, some GRAVEL, fine, subrounded, trace SILT; yellowish brown (10YR5/6).		
	90					SAND, m-c, little GRAVEL, f-m, subrounded, little SILT; yellowish brown (10YR5/6).		
						no recovery		-Sand pack
	100					SAND, f-m, some GRAVEL, f-c, subangular to subrounded; brown (7.5YR4/4). - ironstone layer @ 99.25		
						no recovery		
	110							-Bentonite pellet backfill
	120					SAND, m-c, some GRAVEL, f-c, subangular to subrounded; brown (7.5YR4/4).		
	130					SAND, m-c, some GRAVEL, m-c, subrounded; brown (7.5YR4/4). SAND, very fine; brownish yellow (10YR6/8), mottled with SAND, very fine and SILT; white (Gley 1 8/N). SAND, m-c, some GRAVEL, m-c, subrounded, little SILT; yellowish brown (10YR5/6). This section is not representative of formation; driller raised core barrel during sample collection. SAND, very fine, some SILT, evident lignite; gray (10YR6/1). SILT, some CLAY, little SAND, very fine; gray (10YR6/1). CLAY and SILT; gray (10YR6/1).		Potomac Formation
	140					End of boring log at 137' bgs.		

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