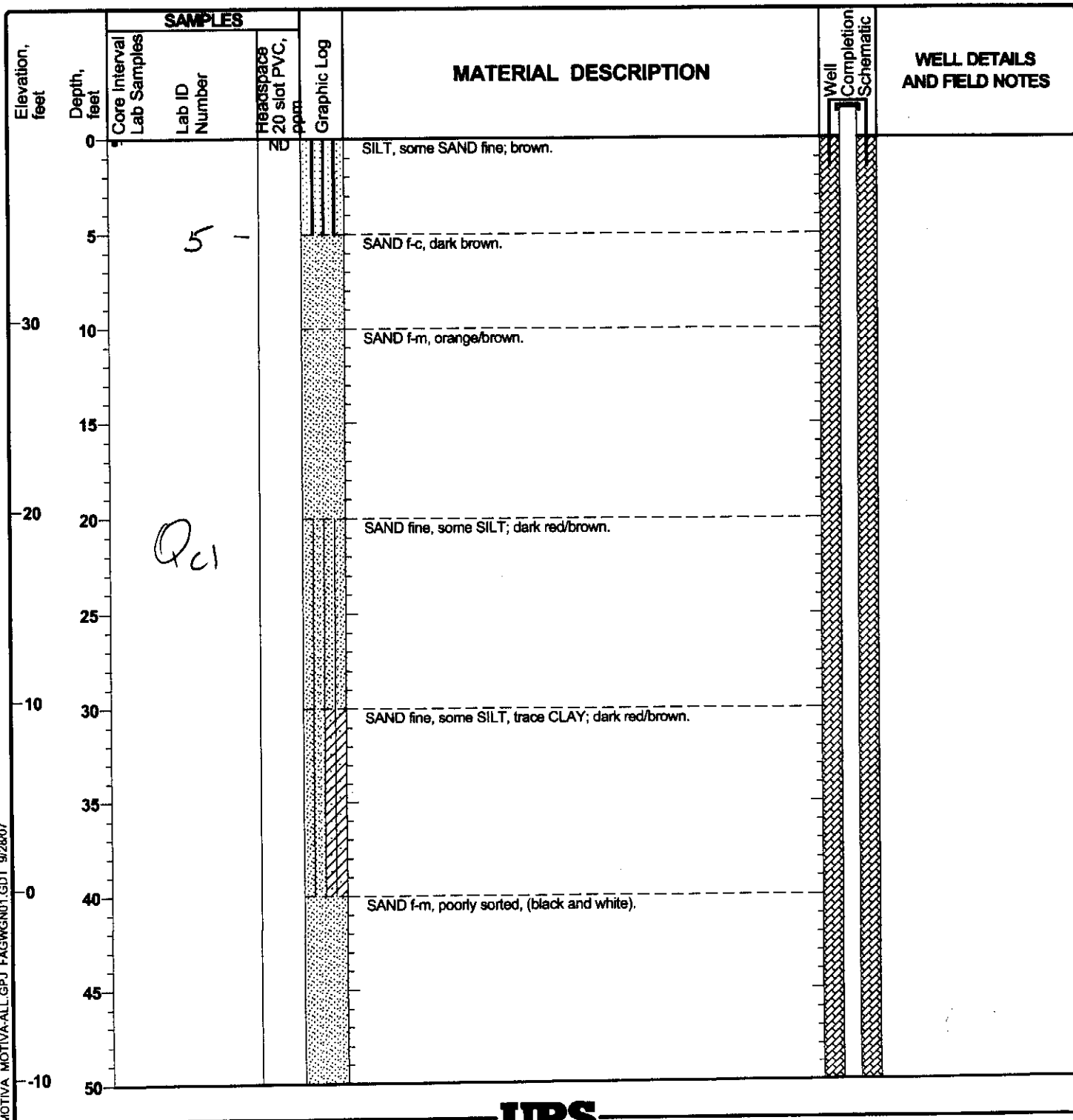


Project: Motiva - Monitoring Well and Soil Boring Data Project Location: Delaware City Refinery Project Number: 20240412.W1000	Log of Monitoring Well PW-E105C Sheet 1 of 3
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Date(s) Drilled: 12/06/2005	Logged By: Nick Garner	Checked By: Nick Garner
Drilling Method: Mud Rotary	Drill Bit Size/Type: 4.875 inch Roller Bit	Total Depth of Borehole: 128.0 feet
Drill Rig Type: Mud Rotary/ Auger	Drilling Contractor: B. L. Myers Bros.	Surface Elevation: 39.60 NAVD88
Groundwater Level(s)	Sampling Method(s): Split Spoon	Top of Casing Elevation
Location: S. of Dragon Run Rd btw tank 5 & 1	Borehole Completion: Gravel Pack, Bentonite, Portland Grout	



MOTIVA -MOTIVA-ALL.GPJ FAGWGN01.GDT 9/28/07

LC 13-07

Project: Motiva - Monitoring Well and Soil Boring Data
Project Location: Delaware City Refinery
Project Number: 20240412.W1000

Log of Monitoring Well PW-E105C

Sheet 2 of 3

Elevation, feet	Depth, feet	SAMPLES			MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval Lab Samples	Lab ID Number	Headspace 20 slot PVC, ppm			
50							
55							-95/5 Cement bentonite mix
-20	60				SAND f-m, poorly sorted, (black and white), some fine k-spar and mica clast.		
	65				SAND medium, sorted (light w/ some dark sand).		
-30	70				SAND medium, sorted (light w/ trace dark sand).		
	75				SAND m-c, sorted, k-spar, mica and iron stone clast.		
-40	80						
	85						
-50	90				SAND medium, sorted, light (k-spar and mica clast).		
	95				SAND m-c, poorly sorted and GRAVEL.		
-60	100				SAND f-c, moderately sorted, (k-spar and mica clast).		
	105						-Bentonite seal

Qc1

MOTIVA MOTIVA-ALL.GPJ FAGWGN01.GDT 9/28/07



Project: Motiva - Monitoring Well and Soil Boring Data

Log of Monitoring Well PW-E105C

Project Location: Delaware City Refinery

Sheet 3 of 3

Project Number: 20240412.W1000

Elevation, feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Well Completion Schematic	WELL DETAILS AND FIELD NOTES
		Core Interval	Lab ID Number	Headspace 20 slot PVC, ppm				
-70	110			ND		SAND f-m, some GRAVEL, little SILT; brown/tan.	-No. 2 SAND	
	115		Qc1	ND		SAND f-m, trace GRAVEL fine; brown/orange		
-80	120			ND		SAND f-m, brown/orange.		
	125			ND				
	127		107	ND		GRAVEL coarse, subrounded, some SILT, highly oxidized; orange/brown.	-Heave	
	128					GRAVEL, angular and SAND; orange/brown		
-90	130		kpt			SILT, some CLAY, little SAND, trace GRAVEL; gray/green.	-End of boring (128.0')	
	135					SAND fine, well sorted, light tan/brown.		
	140							
	145							
	150							
	155							
	160							
	165							

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