

Jul-15-03 08:56

From-SVERDRUP TECHNOLOGY

+8313936571

T-922 P.05/16 F-613

HTRW DRILLING LOG				DISTRICT		MOBILE		HOLE NUMBER	
1. COMPANY NAME JACOBS ENGINEERING				2. DRILLING SUBCONTRACTOR BART/CONTEAR				HOLE NUMBER MW-129	
3. PROJECT DDMT- MEMPHIS				4. LOCATION SEE SKETCH - MEMPHIS, TN				SHEET 1 OF 3	
5. NAME OF DRILLER JON WEEKS				6. MANUFACTURER'S DESIGNATION OF DRILL GWI PESCHE RD300 SONIC DRILL					
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 6" (CONTINUOUS) SAMPLE EXTENDED INTO PLASTIC SINCE				8. HOLE LOCATION SEE SKETCH					
				9. SURFACE ELEVATION					
				10. DATE STARTED 6/24/03				11. DATE COMPLETED 6/24/03	
12. OVERBURDEN THICKNESS NA				13. DEPTH DRILLED INTO ROCK 0				14. TOTAL DEPTH OF HOLE 85 FT	
15. GEOTECHNICAL SAMPLES				DISTURBED		UNDISTURBED		16. TOTAL NUMBER OF CORE BOXES	
17. SAMPLES FOR CHEMICAL ANALYSIS				VOC		METALS		OTHER (SPECIFY)	
18. DISPOSITION OF HOLE				BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
								21. TOTAL CORE RECOVERY %	
								22. SIGNATURE OF INSPECTOR Brent Smith	
LOCATION SKETCH/COMMENTS									
PROJECT DDMT- MEMPHIS								HOLE NO. MW-129	

Figure 4-2. HTRW Drilling Log

HTRW DRILLING LOG (CONTINUATION SHEET)

PROJECT		INSPECTOR		HOLE NO.		SHEET	
DOMT-MEMPHIS		K. SMITH		MW-129		2 OF 3 SHEETS	
DATE	DEPTH	DESCRIPTION OF MATERIALS	FIELD TESTS	COMBINED SAMPLES	ANALYTICAL	BLOW COUNT	REMARKS
		AS ABOVE					BEGAN @ 2805
		MIXED GRAVEL & CLAY	9999 ppm	5' / 5'			NO ODR
	5'	CLAY, SILTY, YELLOW-BROWN, MOIST, MED. PLASTICITY		5' / 5'			NO ODR
	10'	SILT, CLAY, DRY, LOW PLASTICITY	184 ppm	5' / 5'			NO ODR
	15'	CLAY, SILTY, MOIST, LT. BROWN, MED. PLASTICITY	999 ppm	5' / 5'			NO ODR
	20'	SILT, CLAY, MOIST, LT. BROWN, LOW PLASTICITY	32 ppm	5' / 5'			NO ODR
	25'		12.5 ppm	5' / 5'			NO ODR
	30'	AS ABOVE w/ SOME FINE SAND	5 ppm	5' / 10'			NO ODR
	35'		5 ppm	5' / 5'			NO ODR
	40'	CLAY, VERY SANDY, REDDISH BROWN, MOIST, MED. PLASTICITY	3.3 ppm	5' / 5'			NO ODR
	45'	SAND, MED. GRAINED, SOME GRAVEL, REDDISH BROWN, MOIST, SOME LT. BROWN BANDING	2.7 ppm	10' / 10'			NO ODR
	50'	SAND, FINE, REDDISH-BROWN, MOIST, SOME DARK STAINING					
PROJECT		DOMT-MEMPHIS		HOLE NO.		MW-129	

Figure 4-2 (Concluded)

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HTRW DRILLING LOG (CONTINUATION SHEET)

PROJECT		INSPECTOR		HOLE NO.		SHEET	
DDMT - MEMPHIS		K. SMITH		MW - 129		3 of 3	
DEPTH (ft)	DESCRIPTION OF MATERIALS	FIELD SOILS ANALYSIS (ppm)	REPORTED SAMPLE ANALYSIS (ppm)	ANALYTICAL SAMPLE NO.	BLOW COUNT (ft)	REMARKS	
55	AS ABOVE SAND, MOIST TO WET, REDDISH BROWN, MED. TO FINE GRAINED		10' / 10'			NO LOG	
60	SAND, MED. GRAINED, WET, LT. BROWN	0.5 ppm	10' / 10'			NO LOG	
65	AS ABOVE BUT BECOMING FINER						
70	SAND, COARSE, MOIST, LT. BROWN	0.6 ppm	10' / 10'			NO LOG	
75	AS ABOVE W/ SOME LAYERING OF FINE SAND						
80	CLAY, YELLOW-BROWN MOTTLED GRAY, STIFF	0.5 ppm	10' / 10'			NO LOG	
85	<u>T.D. 85'</u>					COMPLETE @ 1600 HAS	
90							
95							
100							
PROJECT DDMT - MEMPHIS						HOLE NO. MW - 129	

ENG FORM 5056A-R, AUG. 94

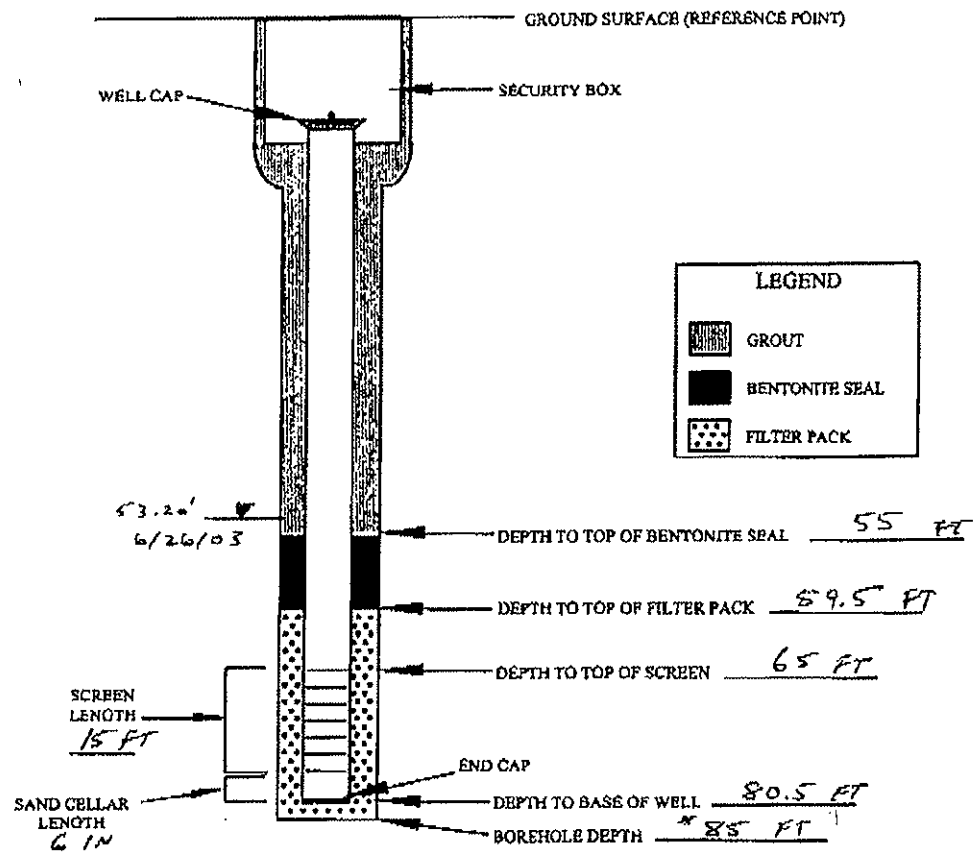
" (Proposed) (ECW-EQ)

Figure 4-2 (Concluded)

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: K. Smith TYPE OF FILTER PACK: #2 SAND
 GRADATION: _____
 DRILLING CONTRACTOR: B. AAT/LSNGEAR AMOUNT OF FILTER PACK USED: SEE DIAGRAM
 DRILLING TECHNIQUE: SONIC TYPE OF BENTONITE: HOLE AUG
 AUGER SIZE AND TYPE: 6 IN CONTINUOUS AMOUNT BENTONITE USED: SEE DIAGRAM
 BOREHOLE IDENTIFICATION: MW-129 TYPE OF CEMENT: Bentonite/Cement
 BOREHOLE DIAMETER: 6 IN AMOUNT CEMENT USED: SEE DIAGRAM
 WELL IDENTIFICATION: MW-129 GROUT MATERIALS USED: _____
 WELL CONSTRUCTION START DATE: 6/21/03
 WELL CONSTRUCTION COMPLETE DATE: 6/24/03 DIMENSIONS OF SECURITY BOX: 8 IN
 SCREEN MATERIAL: PVC TYPE OF WELL CAP: LOCKING
 SCREEN DIAMETER: 2 IN TYPE OF END CAP: 6 IN FLAT
 STRATUM-SCREENED INTERVAL (FT): 15
 COMMENTS:
 CASING MATERIAL: PVC
 CASING DIAMETER: 2 IN

SPECIAL CONDITIONS
(describe and draw)



* HOLE COLLAPSED TO 80.5 FT AS CASING WAS ADVANCED

NOT TO SCALE

INSTALLED BY: JOE WEEKS INSTALLATION OBSERVED BY: K. Smith

DISCREPANCIES: _____