

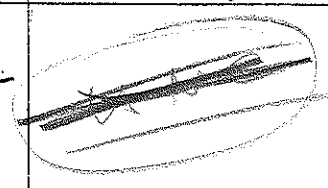
Hole No. 78-135	
DRILLING LOG	DIVISION Southwest Div
INSTALLATION	Gal. Dist
SHEET 1 OF 3 SHEETS	
1. PROJECT	Harsta Sh. cl
2. LOCATION (Coordinates or Station)	SL 49+000
3. DRILLING AGENCY	USGS
4. HOLE NO. (As shown on drawing title and file number)	78-135
5. NAME OF DRILLER	C. J. J.
6. DIRECTION OF HOLE	☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	55.0
10. SIZE AND TYPE OF BIT	6.50
11. DATUM FOR ELEVATION SHOWN (TEM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	Failor 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 4-JAR 11-CL
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 23 Feb 78 COMPLETED 23 Feb 78
17. ELEVATION TOP OF HOLE	Tide + 1.9
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	R. J. J.

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			water depth 11.8			11.8 to 40.0 3" sh
			11.5 to 29.0			40.0 to 50.0 3" sh
			GR. SAND (LN)	1-1	0.0	50 to 55.0 3" sh
						40' 4" core recovered
	15.0			15.0		
				2.5	0.0	
				17.5		
				3-C	0.0	
	20.0			20.0		
				4-C	0.0	
				32.5		
				5-C	0.0	
	25.0			35.0		
				6-C	0.0	
				37.5		
					.25	
				7-C		
	29.0 to 32.5		GR. ORGANIC CL (LN)	30.0		
	30.0		SDF			

DRILLING LOG		DIVISION	INSTALLATION <i>6011 D. 1st</i>	Hole No. <i>78-135</i>	SHEET <i>2</i> OF <i>3</i> SHEETS
1. PROJECT <i>Naval School</i>			10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station)			11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and file number) <i>78-135</i>			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN			16. DATE HOLE		STARTED COMPLETED
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE		
9. TOTAL DEPTH OF HOLE			18. TOTAL CORE RECOVERY FOR BORING		
			19. SIGNATURE OF INSPECTOR		

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			GR. ORG. CL (CH)	8-C	125	
				32.5		
				9-C	125	
				35.0		
35.0	35.0	1 to 40.0				
			GR. S&C (CH) STIFF	10-C	1.00	
				37.5		
				11-C	1.00	
40.0	40.0	1 to 50.0		40.0		
			BR. S&C (CH)	12-C	5/5	40.5 to 41.0 8 KL 41.0 to 41.5 11 KL
				45.0		
45.0					3/5	45.5 to 46.0 12 KL 46.0 to 46.5 16 KL
				13-C		
50.0				50.0		

DRILLING LOG		DIVISION		INSTALLATION GOLF DIST		SHEET 3 OF 3 SHEETS	
1. PROJECT Houston Sh. ch				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) 78-135				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE			
9. TOTAL DEPTH OF HOLE				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
		50.0 to 55.0				
			BR. CLCCH)	14-C	1.25	
			shuff to upstiff	53.5		
					2.50	
				15-C		
	55.0			55.0		Bottom 55.0

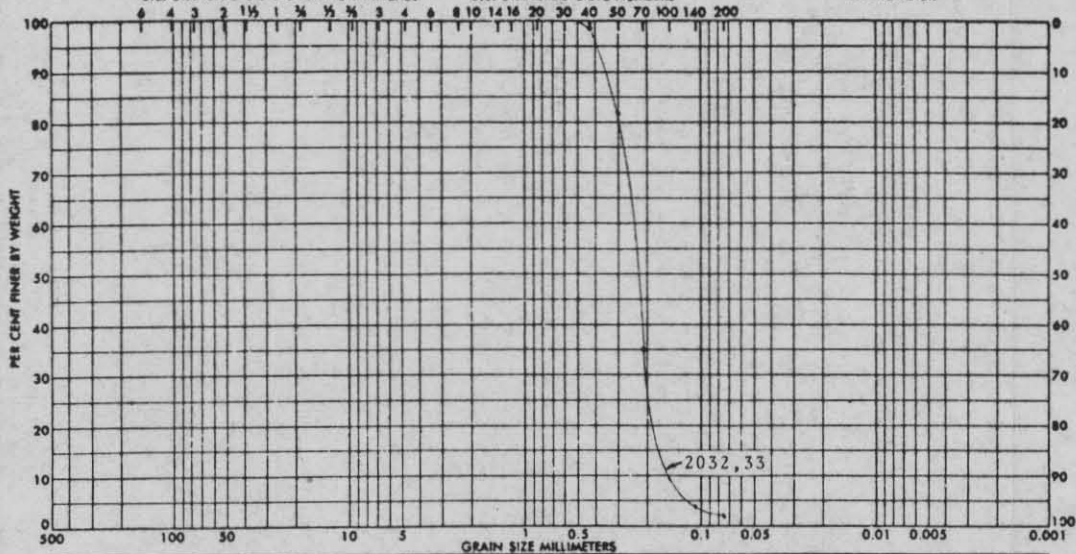
U.S. STANDARD SIEVE OPENING IN INCHES

U.S. STANDARD SIEVE NUMBERS

HYDROMETER

PER CENT FINER BY WEIGHT

PER CENT COARSER BY WEIGHT



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO	REF OR OPENING	m.s.l.	CLASSIFICATION	NAT W%	LL	PL	PI	PROJECT
78-1999	30.5'-43.5'		Fine sand					HOUSTON SHIP CHANNEL
78-2000	43.5'-48.5'		Fine sand					PASSING AREA
78-2001	48.5'-51.5'		Fine sand					STA 49+000
								BORING NO. 78-135
								DATE JUNE 1978

GRADATION CURVES