

## VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-60</u>	
Coordinates: N = <u>786515</u> E = <u>427175</u>		Date: <u>12/2/90</u> Start Time <u>1524</u> End Time _____	
		Water Depth <u>27.0'</u> NGVD Driller <u>RODNEY MEYER</u> Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	<u>-27.0'</u>	<u>0</u>				
Length of Barrel <u>20'</u>						
Penetration Depth <u>3.5'</u>						
Length Recovered <u>2.2'</u>						
Length Retained <u>2.2'</u>						
Remarks: <u>SUDDEN REFUSAL AT 3.5'</u> <u>BIT SAMPLE, GREY CEMENTED SHELL.</u>	<u>-29.2'</u>	<u>2.2</u>		GREY, SILTY, FINE QUARTZ SAND W/ SHELL FRAGMENTS & HASH	(1) 1.0' (-28)	SM
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISponder</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind Dir: <u>NE</u>						
Est. Speed <u>10-15 KTS</u>						
Waves Dir: <u>NE</u>						
Height <u>1'-2' CALM-CHOP</u>						
Current Dir: <u>SOUTH</u>						
Est. Speed: <u>N/A</u>						
Analysis By: <u>KEN JACKSON</u>						
Date: <u>DEC. 20-27, 1990</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>						

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-6  
SAMPLE ELEV. (FT. NGVD): -28  
SAMPLE DEPTH (FT.): 1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 268.70  
SAMPLE WEIGHT AFTER WASH (GRAMS): 238.80

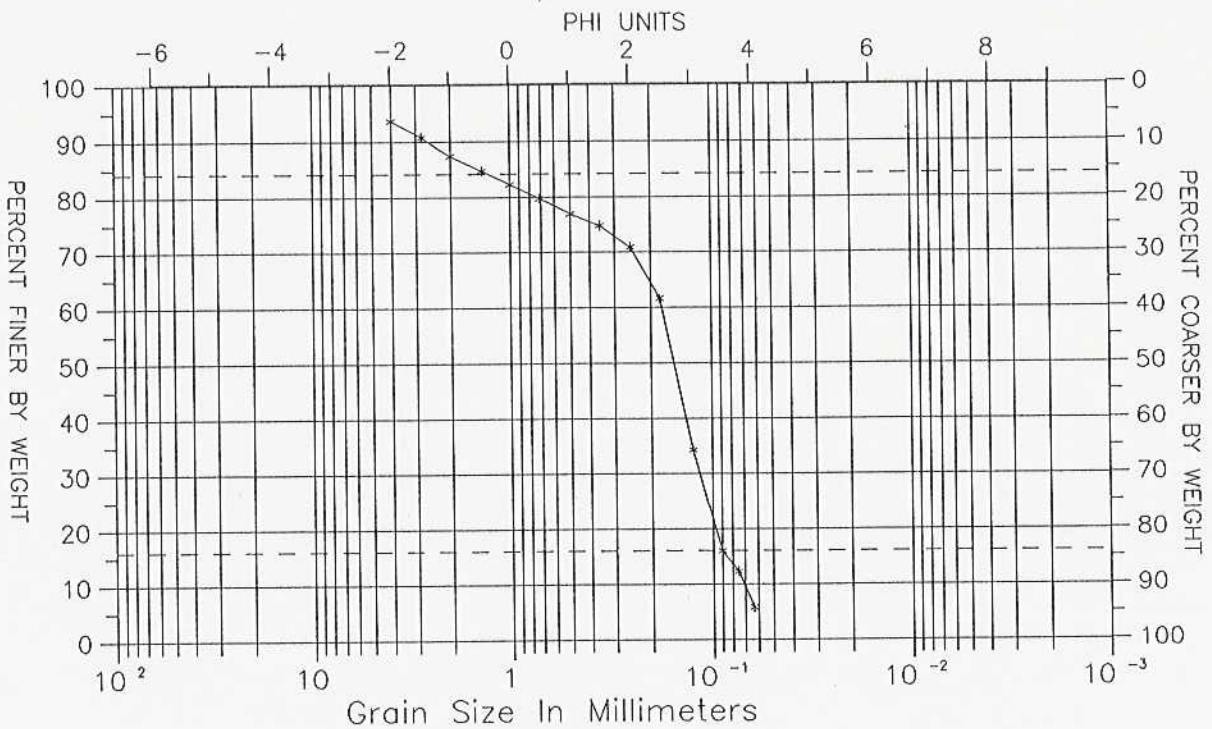
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	17.20	6.40	93.60
7	-1.5	2.800	24.80	9.23	90.77
10	-1.0	2.000	34.00	12.65	87.35
14	-0.5	1.400	41.10	15.30	84.70
18	0.0	1.000	47.70	17.75	82.25
25	0.5	.710	54.50	20.28	79.72
35	1.0	.500	61.90	23.04	76.96
45	1.5	.355	67.70	25.20	74.80
60	2.0	.250	78.40	29.18	70.82
80	2.5	.180	103.20	38.41	61.59
120	3.0	.125	176.80	65.80	34.20
170	3.5	.090	225.80	84.03	15.97
200	3.75	.075	235.70	87.72	12.28
230	4.0	.063	253.05	94.18	5.82
PAN			268.50	99.93	.07

SIEVE LOSS(g):	.20	MEAN (mm):	.347
MEDIAN (mm):	.153	SORTING:	1.928
SILT/CLAY:	12.28%	KURTOSIS:	1.432
SKEWNESS:	-3.639		

PHI(5): -2.25	PHI(16): -.36	PHI(25): 1.45
PHI(50): 2.71	PHI(75): 3.25	PHI(84): 3.50
PHI(95): 4.03		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC6.TAB

CAPTIVA ISLAND  
SAND SEARCH, PHASE 2  
GRAIN SIZE DISTRIBUTION CURVE  
CORE SAMPLE



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-6	1.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.347	.153	1.928	SM