

VTBRACORE LOG

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|--|------------------------|------------------------------------|--|
| Project: <u>CAPTIVA ISLAND, PHASE II</u> | | Core No: <u>C-20</u> | |
| Coordinates: | Date: <u>12-2-90</u> | Water Depth <u>26</u> NGVD | |
| N = <u>795700</u> | Start Time <u>1705</u> | Driller <u>RODNEY MEYER</u> | |
| E = <u>426400</u> | End Time _____ | Client Rep. <u>JEFF L. ANDREWS</u> | |

| Elev. | Depth | Legend | Description | Samp. No. | Remarks |
|-------|-------|--------|---|---------------------|---------|
| -26 | 0 | | DARK GREY SILTY FINE QUARTZ SAND W/SHELL HASH | (1) 1-0 (-27) | SM |
| | 4.3 | | DARK GREY VERY SILTY FINE QUARTZ SAND | | |
| | 5 | | WHITE LIMY SILTY SHELL FRAGMENTS | | |
| | 5.2 | | DARK GREY CONSOLIDATED SHELL ROCK | | |
| | 7.0 | | WHITE, LIMY, SILTY, SHELL HASH AND FRAGMENTS | | |
| | 7.5 | | | | |
| | 10 | | | | |
| | 11.0 | | WHITE SILTY LIMY CONSOLIDATED SHELL ROCK | | |
| | 12.2 | | | | |
| | 15 | | | | |
| | 20 | | | | |

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| Core Diam. <u>3"</u> Length of Barrel <u>20'</u> Penetration Depth <u>20'</u> Length Recovered <u>12.2'</u> Length Retained <u>12.2'</u> Remarks: _____ | Support Vessel <u>DANIELLE MARIE</u> Positioning System <u>TRIS PONDER</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> |
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GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-20
SAMPLE ELEV. (FT. NGVD): -27.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 239.80
SAMPLE WEIGHT AFTER WASH (GRAMS): 198.60

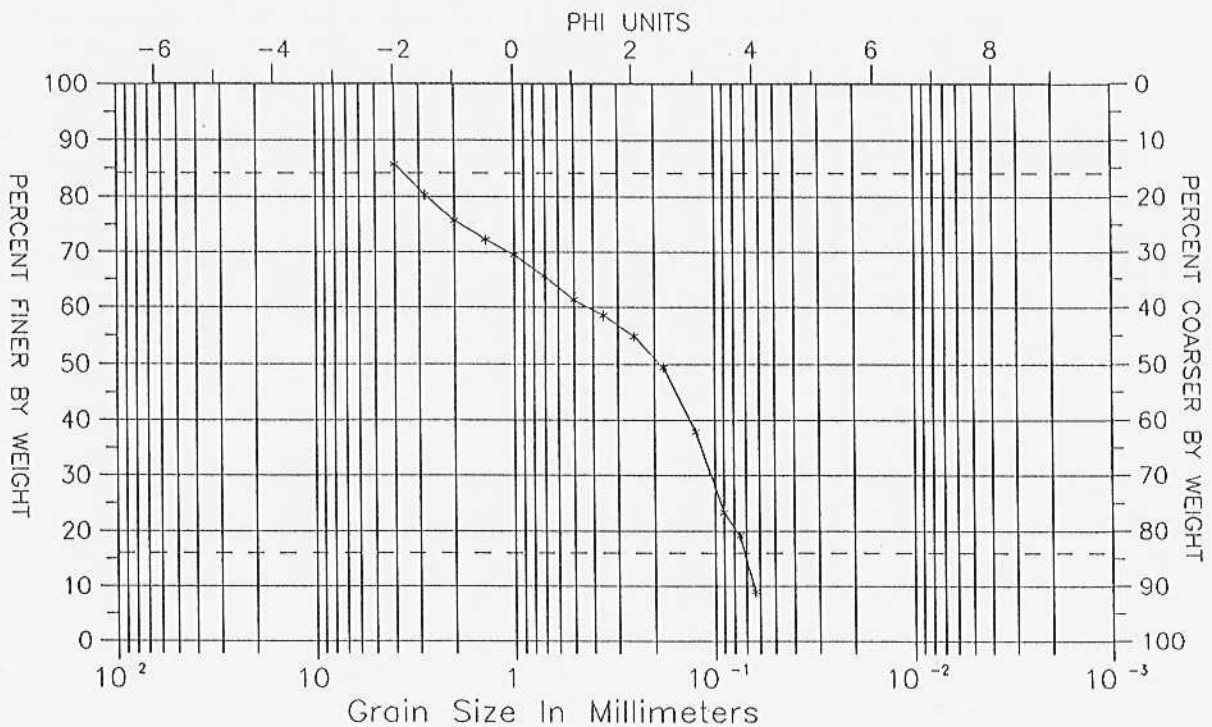
| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5 | -2.0 | 4.000 | 34.20 | 14.26 | 85.74 |
| 7 | -1.5 | 2.800 | 47.30 | 19.72 | 80.28 |
| 10 | -1.0 | 2.000 | 58.20 | 24.27 | 75.73 |
| 14 | -0.5 | 1.400 | 66.50 | 27.73 | 72.27 |
| 18 | 0.0 | 1.000 | 73.30 | 30.57 | 69.43 |
| 25 | 0.5 | .710 | 82.50 | 34.40 | 65.60 |
| 35 | 1.0 | .500 | 92.80 | 38.70 | 61.30 |
| 45 | 1.5 | .355 | 99.40 | 41.45 | 58.55 |
| 60 | 2.0 | .250 | 108.30 | 45.16 | 54.84 |
| 80 | 2.5 | .180 | 121.30 | 50.58 | 49.42 |
| 120 | 3.0 | .125 | 148.90 | 62.09 | 37.91 |
| 170 | 3.5 | .090 | 183.80 | 76.65 | 23.35 |
| 200 | 3.7 | .075 | 193.80 | 80.82 | 19.18 |
| 230 | 4.0 | .063 | 218.30 | 91.03 | 8.97 |
| PAN | | | 239.80 | 100.00 | .00 |

| | | | |
|----------------|--------|------------|-------|
| SIEVE LOSS(g): | .00 | MEAN (mm): | .455 |
| MEDIAN (mm): | .183 | SORTING: | 2.834 |
| SILT/CLAY: | 19.18% | KURTOSIS: | .656 |
| SKEWNESS: | -3.643 | | |

| | | |
|---------------|----------------|---------------|
| PHI(5): -2.85 | PHI(16): -1.84 | PHI(25): -.89 |
| PHI(50): 2.45 | PHI(75): 3.44 | PHI(84): 3.83 |
| PHI(95): 4.10 | | |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C201.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-20 | 1.0 | MEAN | MEDIAN | SORTING | USCS |
|-----------|-----|------|--------|---------|------|
| DEC. 1990 | | .455 | .183 | 2.834 | SM |
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