

| DRILLING LOG   |       | DIVISION |   | INSTALLATION   |  | SHEET 1 OF 1                              |      |
|--|-------|----------|---|--|--|---|------|
| 1. PROJECT<br>Gulf Shores, AL - Beach Restoration  |       |          |   | 10. SIZE AND TYPE OF BIT 4" VIBRACORE                                    |  |   |      |
| 2. LOCATION (Coordinates or Station)<br>X=1906992.800 Y=85972.800                                      |       |          |   | 11. DATUM FOR ELEVATION SHOWN (TBM or MSL)<br>MLLW                       |  |   |      |
| 3. DRILLING AGENCY<br>A.O.S.S./Olsen Associates, Inc.  |       |          |   | 12. MANUFACTURER'S DESIGNATION OF DRILL<br>PNEUMATIC VIBRACORE           |  |   |      |
| 4. HOLE NO. (As shown on drawing title and file number)<br>C-31  |       |          |   | 13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN<br>disturbed: 3 undisturbed: 0 |  |   |      |
| 5. NAME OF DRILLER<br>C.Dill/E. Olsen  |       |          |   | 14. TOTAL NUMBER OF CORE BOXES 2   |  |   |      |
| 6. DIRECTION OF HOLE<br><input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED |       |          |   | 15. ELEVATION GROUND WATER   |  |   |      |
| 7. THICKNESS OF BURDEN 0 Ft.   |       |          |   | 16. DATE HOLE STARTED COMPLETED<br>11-25-99 11-25-99                     |  |   |      |
| 8. DEPTH DRILLED INTO ROCK 0 Ft.   |       |          |   | 17. ELEVATION TOP OF HOLE -27.3 Ft.                                      |  |   |      |
| 9. TOTAL DEPTH OF HOLE 20.3 Ft.  |       |          |   | 18. TOTAL CORE RECOVERY FOR BORING 100 %                                 |  |   |      |
|  |       |          |   | 19. SIGNATURE OF G. ZARILLO, SEA, INC                                    |  |   |      |
| ELEV.  | DEPTH | LEGEND   | CLASSIFICATION OF MATERIALS<br>(Description)                                      | CORE<br>REC<br>%   | W<br>L<br>S<br>A<br>M<br>P<br>L<br>E<br>N<br>U<br>M<br>B<br>E<br>R | REMARKS                                   |      |
| -27.3  | .0    |          |   |  |  | -27.3                                     | 0    |
| -28.6  | 1.3   |          | White fine quartz sand. 10 YR 8/1 (SP)  |  | 0.5  |   |      |
|  |       |          | Pale brown fine sand, shell fragments 1/2 to 2 inches. 10 YR 7/3-7/4 (SP)         | 100  | 3.0  |   | 2.5  |
| -32.3  | 5.0   |          |   |  |  | -32.3                                     | 5    |
|  |       |          | Pale brown fine sand, small whole shells and shell fragments 10 YR 6/3 (SP)       |  |  |   |      |
| -34.4  | 7.1   |          | Pale brown fine sand. 10 YR 7/3 (SP)  | 100  | 8.0  |   | 7.5  |
| -36.1  | 8.8   |          | White fine sand. 10 YR 8/1 (SP)   |  |  | -37.3                                     | 10   |
| -38.3  | 11.0  |          |   |  |  |   |      |
|  |       |          | Dark grey plastic mud. 10 YR 4/1 (CL)   | 100  |  |   | 12.5 |
| -40.5  | 13.2  |          |   |  |  |   |      |
|  |       |          | Dark grey silty mud and shell fragments. Whole shells to 1/2 inch. 10 YR 4/1 (ML) |  |  | -42.3                                     | 15   |
| -42.3  | 15.0  |          |   |  |  |   |      |
|  |       |          | Dark grey medium to coarse sand and shell fragments. 10 YR 4/1 (SW)               | 100  |  | Large shell frag., 3 inches, 17.7-17.8 ft | 17.5 |
| -46.5  | 19.2  |          |   |  |  |   |      |
| -47.6  | 20.3  |          | Yellowish-brown medium to coarse sand and mud. 10 YR 5/4-5/5 (SM)                 |  |  | -47.6                                     | 20   |
|  |       |          |   |  |  | Composite 0.0-11.0 ft.                    | 22.5 |