

## Boring Designation VB-MCSP07-28

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
1. PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS Offshore Borrow Area				9. SIZE AND TYPE OF BIT See Remarks					
2. BORING DESIGNATION VB-MCSP07-28		LOCATION COORDINATES X = 950,510 Y = 1,079,220		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83			
3. DRILLING AGENCY Challenge Engineering & Testing, Inc.		CONTRACTOR FILE NO. 2007D32		11. MANUFACTURER'S DESIGNATION OF DRILL Alpine Vibracore Unit		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER Alpine Ocean Seismic, Inc.				12. TOTAL SAMPLES 4		DISTURBED 0			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-11-07		STARTED 08-11-07			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -52.5 Ft.		COMPLETED 08-11-07			
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 100 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 Ft.	N-VALUE
-52.5	0.0						-52.5		
			SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized carbonate, trace angular fine to medium-grained sand-sized organic matter, strong reaction with HCl, moist, 10YR 7/2 light gray	1000			Vibracore		
-54.8	2.3			NR	1		-54.5		
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular fine to medium-grained sand-sized shell, strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR			-55.0		
				NR	2		-56.5		
				NR			-57.0		
				NR					
			At El. -59.1 Ft., trace angular coarse-grained sand-sized shell, strong reaction with HCl, moist, 10YR 5/1 gray	NR	3		-59.5		
				NR			-60.0		
				NR					
-64.5	12.0			NR	4		-64.5		
			SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, trace angular coarse-grained sand-sized shell, strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR			-65.0		
				NR					

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT MARTIN COUNTY OFFSHORE INVESTIGATIONS			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLLW																		
LOCATION COORDINATES X = 950,510 Y = 1,079,220			ELEVATION TOP OF BORING -52.5 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-68.2	15.7		SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 2", weak reaction with HCl, moist, 10YR 4/1 dark gray (SP-SM)	NR																				
-72.5	20.0																							
		NOTES:  1. Soils are field visually classified in accordance with the Unified Soils Classification System.  2. Laboratory Testing Results  <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	4.0/4.5	SP*	3	7.0/7.5	SP*	4	12.0/12.5	SP-SM*	Abbreviations: NR = Not Recorded.				
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	4.0/4.5	SP*																						
3	7.0/7.5	SP*																						
4	12.0/12.5	SP-SM*																						

## Penetration Graph for Core No. VB-MCSP07-28, Run 1

Date: 8/11/2007  
Start Time: 9:49:23 AM  
End Time: 9:57:51 AM

Penetration: 19.62 ft  
Recovery: 20  
W. D. Corrected: 52.5  
W. D. Raw: 54.5

Easting: 950510  
Northing: 1079220  
Coord. System: FL East

Lat: 27d 17.9928' N  
Long: 80d 5.6157' W  
Datum: NAD-83

Comment:

