

Boring Designation VB-MCSP07-39

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-MCSP07-39		LOCATION COORDINATES X = 950,525 Y = 1,081,135		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 -56.2 Ft.		COMPLETED 08-11-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 98 %		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
-56.2	0.0						-56.2		
		)))	SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, weak reaction with HCl, moist, 10YR 7/2 light gray	975			Vibracore		
-57.8	1.6	)))			1		-58.2		
		)))	SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR			-58.7		
		)))		NR					
		)))		NR	2		-60.2		
		)))		NR			-60.7		
		)))		NR					
		)))		NR					
-64.2	8.0	)))		NR	3		-64.2		
		)))	SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized carbonate, some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR			-64.7		
		)))		NR					
		)))		NR					
		)))		NR	4		-68.2		
		)))		NR			-68.7		
		)))		NR					
		)))		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 = 950,525 Y = 1,081,135			ELEVATION TOP OF BORING -56.2 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UP	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-75.7	19.5	NR	At El. -72.8 Ft., trace angular shell up to 1/4", strong reaction with HCl, moist, 10YR 8/2 very pale brown	NR																				
-76.2	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>8.0/8.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>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	8.0/8.5	SP-SM*	4	12.0/12.5	SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	4.0/4.5	SP*																						
3	8.0/8.5	SP-SM*																						
4	12.0/12.5	SM*																						

Penetration Graph for Core No. VB-MCSP07-39, Run 1

Date: 8/11/2007
Start Time: 10:54:05 AM
End Time: 11:02:29 AM

Penetration: 19.24 ft
Recovery: 19.5
W. D. Corrected: 56.2
W. D. Raw: 57.3

Easting: 950525
Northing: 1081135
Coord. System: FL East

Lat: 27d 18.3000' N
Long: 80d 5.6090' W
Datum: NAD-83

Comment:

