

Boring Designation VB-MCSP07-34

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-MCSP07-34		LOCATION COORDINATES X = 951,656 Y = 1,080,220		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 -54.3 Ft.		COMPLETED 08-11-07	
8. TOTAL DEPTH OF BORING 16.7 Ft.				17. TOTAL RECOVERY FOR BORING 97 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS
-54.3	0.0						-54.3
			SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", trace organic matter, no reaction with HCl, moist, 10YR 7/2 light gray (SP)	1620			Vibracore
				NR	1		-55.3
				NR			-55.8
				NR	2		-57.3
				NR			-57.8
-58.6	4.3		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, little angular shell up to 1", strong reaction with HCl, moist, 10R 5/1 reddish gray (SP-SM)	NR			
				NR	3		-60.3
				NR			-60.8
				NR			
				NR	4		-64.3
				NR			-64.8
				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 = 951,656 Y = 1,080,220			ELEVATION TOP OF BORING -54.3 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-70.5	16.2	NR		NR																			
-71.0	16.7						-71.0																
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>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</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	1.0/1.5	SP*	2	3.0/3.5	SP*	3	6.0/6.5	SP-SM*	4	10.0/10.5	SP-SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	1.0/1.5	SP*																					
2	3.0/3.5	SP*																					
3	6.0/6.5	SP-SM*																					
4	10.0/10.5	SP-SM*																					

## Penetration Graph for Core No. VB-MCSP07-34, Run 1

Date: 8/11/2007  
Start Time: 1:26:20 PM  
End Time: 1:33:01 PM

Penetration: 16.68 ft  
Recovery: 16.2  
W. D. Corrected: 54.3  
W. D. Raw: 54.3

Easting: 951656  
Northing: 1080220  
Coord. System: FL East

Lat: 27d 18.1487' N  
Long: 80d 5.4002' W  
Datum: NAD-83

Comment:

