

## Boring Designation VB-MCSP07-36

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-MCSP07-36		LOCATION COORDINATES X = 953,468 Y = 1,079,749		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 08-12-07		STARTED 08-12-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -56.1 Ft.		COMPLETED 08-12-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 96 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS
-56.1	0.0		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to 1/4", trace angular fine to medium-grained sand-sized organic matter, no reaction with HCl, moist, 10YR 7/2 light gray (SP)	640			-56.1
				NR	1		-59.1
							-59.6
				NR			
				NR	2		-62.1
							-62.6
				NR			
-64.4	8.3		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, trace angular shell up to 3/8", strong reaction with HCl, moist, 10YR 5/1 gray (SP-SM)	NR	3		-65.1
							-65.6
				NR			
				NR	4		-68.1
							-68.6
-70.2	14.1		SAND, poorly-graded with silt, mostly subangular fine to medium-grained sand-sized quartz, some angular shell up to	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 = 953,468 Y = 1,079,749			ELEVATION TOP OF BORING -56.1 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 Ft.	N-VALUE														
-75.3	19.2		2", weak reaction with HCl, moist, 10YR 5/2 grayish brown (SP-SM)	NR																			
-76.1	20.0	NR					-76.1																
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>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP-SM*</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	3.0/3.5	SP*	2	6.0/6.5	SP*	3	9.0/9.5	SP-SM*	4	12.0/12.5	SP-SM*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	3.0/3.5	SP*																					
2	6.0/6.5	SP*																					
3	9.0/9.5	SP-SM*																					
4	12.0/12.5	SP-SM*																					

## Penetration Graph for Core No. VB-MCSP07-36, Run 1

Date: 8/12/2007  
Start Time: 11:20:38 AM  
End Time: 11:24:54 AM

Penetration: 19.56 ft  
Recovery: 19.2  
W. D. Corrected: 56.1  
W. D. Raw: 57.8

Easting: 953468  
Northing: 1079749  
Coord. System: FL East

Lat: 27d 18.0673' N  
Long: 80d 5.0657' W  
Datum: NAD-83

Comment:

