

## Boring Designation VB-MCSP07-38

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-MCSP07-38		LOCATION COORDINATES X = 951,757 Y = 1,081,152		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 -53.3 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
-53.3	0.0						-53.3
			SHELL, mostly angular shell up to 1/4", some subangular fine to medium-grained sand-sized quartz, trace angular fine to medium-grained sand-sized organic matter, weak reaction with HCl, moist, 10YR 7/2 light gray	667			Vibracore
				NR	1		-56.3
				NR			-56.8
				NR			-58.3
				NR	2		-58.8
				NR			
-60.2	6.9		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	3		-60.3
				NR			-60.8
-64.3	11.0		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, Clay Lense, 10YR 5/1 gray (SP-SM)	NR	4		-65.3
				NR			-65.8
				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 = 951,757 Y = 1,081,152				ELEVATION TOP OF BORING -53.3 Ft.																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE															
-73.3	20.0		At El. -68.6 Ft., some angular shell up to 2", strong reaction with HCl, moist, 10YR 5/1 gray  At El. -70.4 Ft., some angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray	NR																			
			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>5.0/5.5</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	3.0/3.5	SP*	2	5.0/5.5	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	3.0/3.5	SP*																					
2	5.0/5.5	SP*																					
3	7.0/7.5	SP*																					
4	12.0/12.5	SP-SM*																					

## Penetration Graph for Core No. VB-MCSP07-38, Run 1

Date: 8/11/2007  
Start Time: 2:30:13 PM  
End Time: 2:33:36 PM

Penetration: 19.86 ft  
Recovery: 20  
W. D. Corrected: 53.3  
W. D. Raw: 53.5

Easting: 951757  
Northing: 1081152  
Coord. System: FL East

Lat: 27d 18.3041' N  
Long: 80d 5.3823' W  
Datum: NAD-83

Comment:

