

Boring Designation VB-MCSP07-9

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-MCSP07-9		LOCATION COORDINATES X = 949,229 Y = 1,074,376		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 08-10-07		STARTED 08-10-07	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -45.3 Ft.		COMPLETED 08-10-07	
8. TOTAL DEPTH OF BORING 20.0 Ft.				17. TOTAL RECOVERY FOR BORING 99 %		18. SIGNATURE AND TITLE OF INSPECTOR Eric Guarino, Geologist	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS
-45.3	0.0		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	660			-45.3
				NR	1		-48.3
							-48.8
				NR			
				NR	2		-51.3
							-51.8
-53.0	7.7		SAND, poorly-graded, mostly subangular fine to medium-grained sand-sized quartz, little angular shell up to 1/4", weak reaction with HCl, moist, 10YR 7/2 light gray (SP)	NR			
-55.3	10.0		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	NR	3		-57.3
				NR			-57.8
				NR	4		-58.3
							-58.8
				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 = 949,229 Y = 1,074,376				ELEVATION TOP OF BORING -45.3 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-61.9	16.6																							
			SAND, silty, mostly subrounded fine to medium-grained sand-sized carbonate, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 4/1 dark gray (SM)	NR																				
-64.2	18.9																							
-65.1	19.8		SILT, inorganic-L, mostly subrounded fine-grained sand-sized silt, little angular shell up to 1/4", strong reaction with HCl, moist, 10YR 5/1 gray (ML)																					
-65.3	20.0						-65.3																	
			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>12.0/12.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.0/13.5</td> <td>SP*</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	12.0/12.5	SP*	4	13.0/13.5	SP*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP*																						
3	12.0/12.5	SP*																						
4	13.0/13.5	SP*																						

Penetration Graph for Core No. VB-MCSP07-9, Run 1

Date: 8/9/2007
Start Time: 11:43:47 AM
End Time: 11:47:37 AM

Penetration: 19.84 ft
Recovery: 19.8
W. D. Corrected: 45.3
W. D. Raw: 45.4

Easting: 949229
Northing: 1074376
Coord. System: FL East

Lat: 27d 17.1875' N
Long: 80d 5.8593' W
Datum: NAD-83

Comment:

