

Boring Designation VB-MCSP07-22

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-MCSP07-22		LOCATION COORDINATES X = 949,947 Y = 1,078,327		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		UNDISTURBED (UD) 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 -49.1 Ft.		COMPLETED 08-11-07	
8. TOTAL DEPTH OF BORING 18.2 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
-49.1	0.0						-49.1
			SHELL, mostly angular shell up to 1/2", 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	593			Vibracore
				NR	1		-52.1
							-52.6
				NR			
							-55.1
				NR	2		-55.6
				NR			-58.1
-58.4	9.3			NR	3		-58.6
			SAND, poorly-graded, mostly subrounded fine to medium-grained sand-sized carbonate, little angular shell up to 1/2", strong reaction with HCl, moist, 10YR 5/1 gray (SP)	NR			
							-61.1
				NR	4		-61.6
				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 = 949,947 Y = 1,078,327				ELEVATION TOP OF BORING -49.1 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 Ft.	N-VALUE															
-65.6	16.5																							
-66.9	17.8		CLAY, organic-H, mostly angular shell up to 1-1/2", some rounded fine-grained sand-sized silt, weak reaction with HCl, moist, 10YR 5/1 gray (OH)	NR																				
-67.3	18.2						-67.3																	
			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>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</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	9.0/9.5	SP*	4	12.0/12.5	SP*				Abbreviations: NR = Not Recorded.		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	6.0/6.5	SP*																						
3	9.0/9.5	SP*																						
4	12.0/12.5	SP*																						

Penetration Graph for Core No. VB-MCSP07-22, Run 1

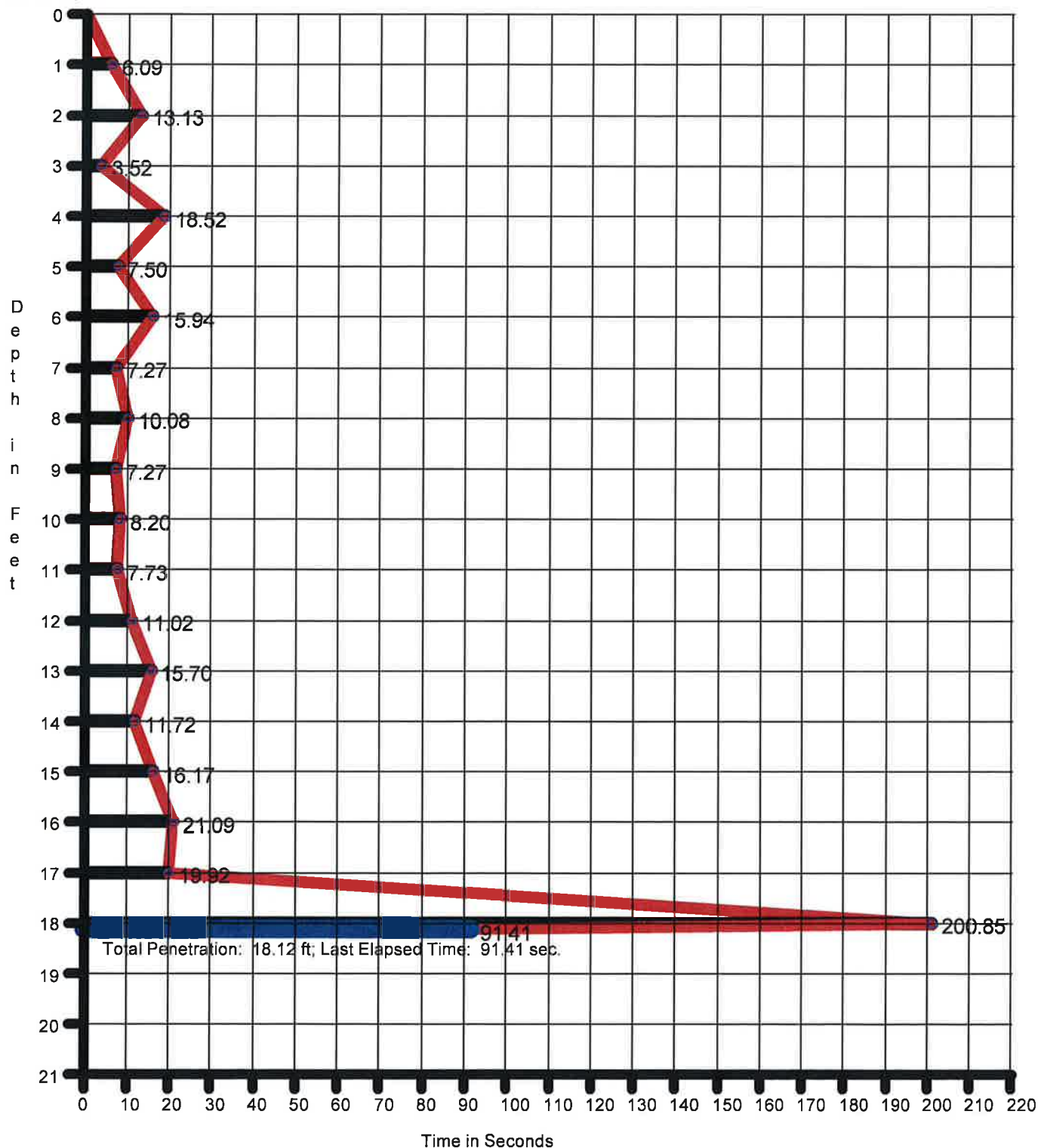
Date: 8/11/2007
Start Time: 8:39:10 AM
End Time: 8:47:23 AM

Penetration: 18.12 ft
Recovery: 17.8
W. D. Corrected: 49.1
W. D. Raw: 51.6

Easting: 949947
Northing: 1078327
Coord. System: FL East

Lat: 27d 17.8374' N
Long: 80d 5.7185' W
Datum: NAD-83

Comment:



Penetration Graph for Core No. VB-MCSP07-22, Run 2

Date: 8/11/2007
Start Time: 9:13:54 AM
End Time: 9:20:35 AM

Penetration: 18.19 ft
Recovery: 0
W. D. Corrected: 49.1
W. D. Raw: 51.6

Easting: 949943
Northing: 1078327
Coord. System: FL East

Lat: 27d 17.8536' N
Long: 80d 5.7464' W
Datum: NAD-83

Comment:

