

**Final Report**  
**ABSECON INLET TO MANASQUAN INLET, NJ**

**Vibracore sampling**

prepared for

**Rutgers University**  
**New Jersey Geological Survey**



**ALPINE OCEAN SEISMIC SURVEY INC.**

**70 Oak Street**  
**Norwood, NJ 07648**

- August 1997 -

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# **Vibracore Report**

## **Absecon Inlet to Manasquan Inlet, NJ**

### **1.0 INTRODUCTION**

Rutgers University along with New Jersey Geological Survey contracted Alpine Ocean Seismic Survey, Inc. to conduct a vibracore sample collection program offshore from Absecon Inlet to Manasquan, New Jersey.

A total of 20 cores (groups C, D, E, F, G) were collected from Absecon Inlet to Manasquan Inlet, NJ during the field work period , 28 August through 30 August 1997, to depths of 20 feet below mudline, as specified in the work. Table 1 lists the location of the samples and water depths. The field work included positioning of the coring vessel for the proposed vibracore site, obtaining continuous core samples by pneumatic vibration and jetting to the proposed sampled depth below mudline; field logging of vibracore samples, obtaining penetrometer records (rate of penetration of coring tube into sediment) and recording of water depths at final coring locations. The field work was conducted aboard the vessel R/V "Atlantic Twin."

This report presents the results of the coring operation, list of core sites with locations in Geographic WGS-84 and penetration graphs.

### **2.0 EQUIPMENT**

#### **2.1 Survey Vessel**

The R/V Atlantic Twin, a 90 foot steel catamaran hull research vessel with a 7 foot draft, was used as the platform for the vibracoring operations. The vessel has ample deck space, anchoring system, hydraulic crane, deck winches and A-frame capability for vibracore operations. The navigational equipment, with associated computer, printer and display unit were mounted in pilot house. The vessel has sleeping facilities to accommodate crew and vibracore staff during the survey period.

#### **2.2 Positioning System**

A Trimble 4000 DL Differential GPS Navigation System was used throughout this operation. The DGPS system consists of an 8-channel satellite receiver and radio data link receiver that obtained differential corrections signal from the USCG GPS transmitter at Cape Henlopen Delaware and at Sandy Hook, NJ.

#### **2.3 Navigational Data Acquisition and Logging System**

The WGS-84 Geographic positions obtained by the GPS navigational System were converted into

the local New Jersey 2900 (NAD 83) coordinate positions, using a computer with Sextant navigation software, version 8.09. The system consists of the following components:

1. Computer, 386 with 3.5" logging disks.
2. Color Video monitor (Helmsman Display).
3. Printer.
4. Sextant closure box and software.

## **2.4 Vibracore**

A model 271 B Alpine Pneumatic Vibracore configured to take cores 20 feet in length was used on this project. The model 271 B is a self-contained, free standing pneumatic vibracore unit. The unit consists of: an air-driven vibratory hammer assembly; an aluminum H-beam which acts as the vertical guide for the vibrator; a set of four steel support pads and legs which hold the beam upright on the sea bottom; a steel coring pipe; a cutting edge; a core retainer; a clear PVC core liner; and a penetrometer which records time and depth of penetration of the core pipe into the seabottom. An air hose array provides passage of compressed air from the compressor on deck to drive the vibracore.

## **2.5 Echosounder - Raytheon DE 719B**

Water depths were recorded using a Raytheon DE 719B survey echosounder. The transducer for this unit operates at a frequency of 208 khz and has a beam width of 8 degrees and was hull-mounted.

The bathymetric data was recorded as an analog profile on the point at the time of each coring attempt.

Water depths were corrected to Mean Lower Low Water (MLLW) using predicted tidal tables from the Sandy Hook Station, New Jersey, phase and amplitude corrected for locations from Absecon to Mansquan, NJ, provided by NOAA/National Ocean Service.

## **2.6 Personnel**

Contract Manager  
Senior Driller  
Navigator  
Vessel Captain

William T. McGuinness  
Ovidio Hernandez  
Andrea Belcher-Smith  
Darren McClave

## Summary Log of Field Operations

### **Absecon Inlet, Atlantic City, NJ**

#### **27 August**

- 0600 Clients DaveHall, Dave Pasicznyk on board.
- 0620 Depart dock, at worksite, barcheck.  
Complete G-7, G-8, G-6A, G-6, G-4, G-5, G-3, G-2 Runs 1, 2 and 3, G-1, D-16.
- 1845 Return to dock.

#### **28 August**

- 0600 Client Jeff Waltner arrives. Depart dock, at worksite, barcheck.  
Complete D-18, C-13, C-11, C-15, C-20, E-26, E-22, E-24 Runs 1 and 2.
- 1845 Steam to Manasquan Inlet, NJ for the night.
- 2000 At dock, Manasquan, NJ.

#### **29 August**

- 0600 Depart Manasquan, NJ, at worksite, barcheck.  
Complete F-28, F-27 Runs 1 and 2.
- 1745 Return to dock.

#### **3 August**

- 0610 Depart dock, Maintenance to drill rig, boat.
- 1330 Underway to Corson Inlet, at worksite, barcheck.  
Complete NJV-361, NJV-362, NJV-360, NJV-365, NJV-357, NJV-356.
- 1745 Return to dock.

#### **4 August**

- 0700 Maintenance to drill rig, boat.
- 1340 Depart dock, at worksite, barcheck.  
Complete NJV-370, NJV-377, NJV-376, NJV-378.
- 1830 Return to dock.

#### **5 August**

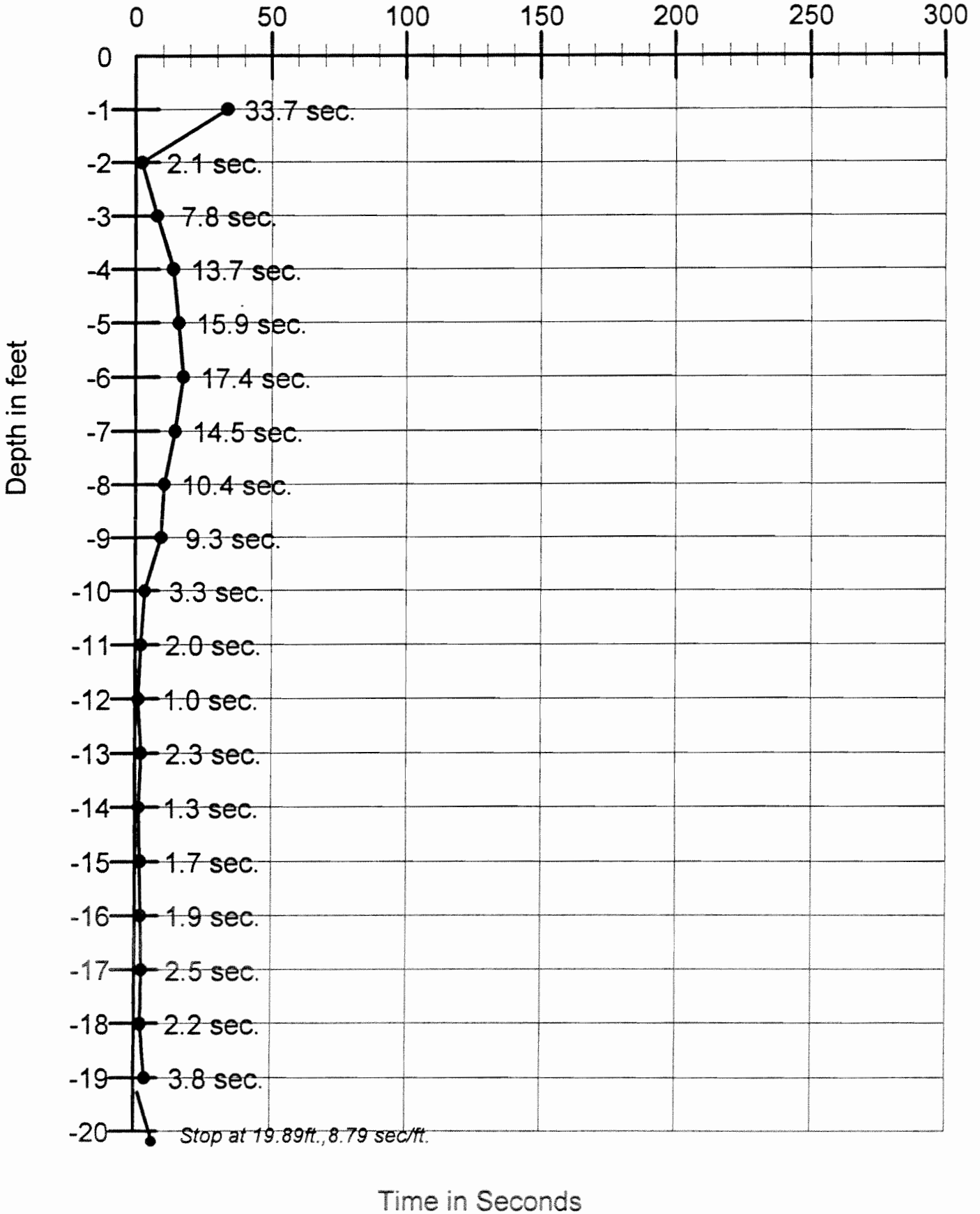
- 0550 Depart dock, at worksite, barcheck.  
Complete NJV-373, NJV-372, NJV-374 Runs 1 and 2, NJV-371, NJV-375, NJV-379.
- 1600 At dock, Atlantic City, NJ.

New Jersey - 2900 NAD83

Date	Core #	Run	Latitude N	Longitude W	WD Raw	MLLW (ft)
8/27/97	G-7	1	39 21 10.039	74 20 36.342	34.5	30.4
8/27/97	G-8	1	39 20.50.721	74 18 36.117	41.5	37.1
8/27/97	G-6A	1	39 22 00.532	74 18 38.092	39.5	35.1
8/27/97	G-6	1	39 22 41.284	74 17 06.448	44.5	40.4
8/27/97	G-4	1	39 23 29.821	74 15 55.366	42.0	38.2
8/27/97	G-5	1	39 24 06.115	74 16 49.971	39.8	36.7
8/27/97	G-3	1	39 24 27.493	74 15 08.730	41.5	39.1
8/27/97	G-2	1	39 25 37.938	74 15 55.386	38.0	37.0
8/27/97	G-2	2	39 25 37.953	74 15 55.361	39.0	38.2
8/27/97	G-2	3	39 25 37.964	74 15 55.063	38.0	37.4
8/27/97	G-1	1	39 26 07.826	74 14 07.741	54.8	54.4
8/27/97	D-16	1	39 32 28.700	74 05 29.905	61.5	61.0
8/28/97	D-18	1	39 35 52.507	74 02 21.342	61.5	61.1
8/28/97	C-13	1	39 39 07.569	74 04 21.677	51.5	51.7
8/28/97	C-11	1	39 41 14.420	74 02 37.393	52.8	51.8
8/28/97	C-15	1	39 41 49.164	74 03 59.435	53.0	51.9
8/28/97	C-20	1	39 51 10.547	73 59 14.832	57.0	56.6
8/28/97	E-26	1	39 52 46.091	73 59 24.102	62.5	62.2
8/28/97	E-22	1	39 53 26.639	73 59 27.707	69.0	68.7
8/28/97	E-24	1	39 58 21.530	73 59 44.830	68.5	68.3
8/28/97	E-24	2	39 58 21.561	73 59 45.052	68.0	67.7
8/29/97	F-28	1	40 01 50.115	73 55 44.039	58.0	58.0
8/29/97	F-27	1	39 59 32.009	73 55 19.946	62.0	62.0
8/29/97	F-27	2	39 59 31.878	73 55 19.942	61.0	60.9

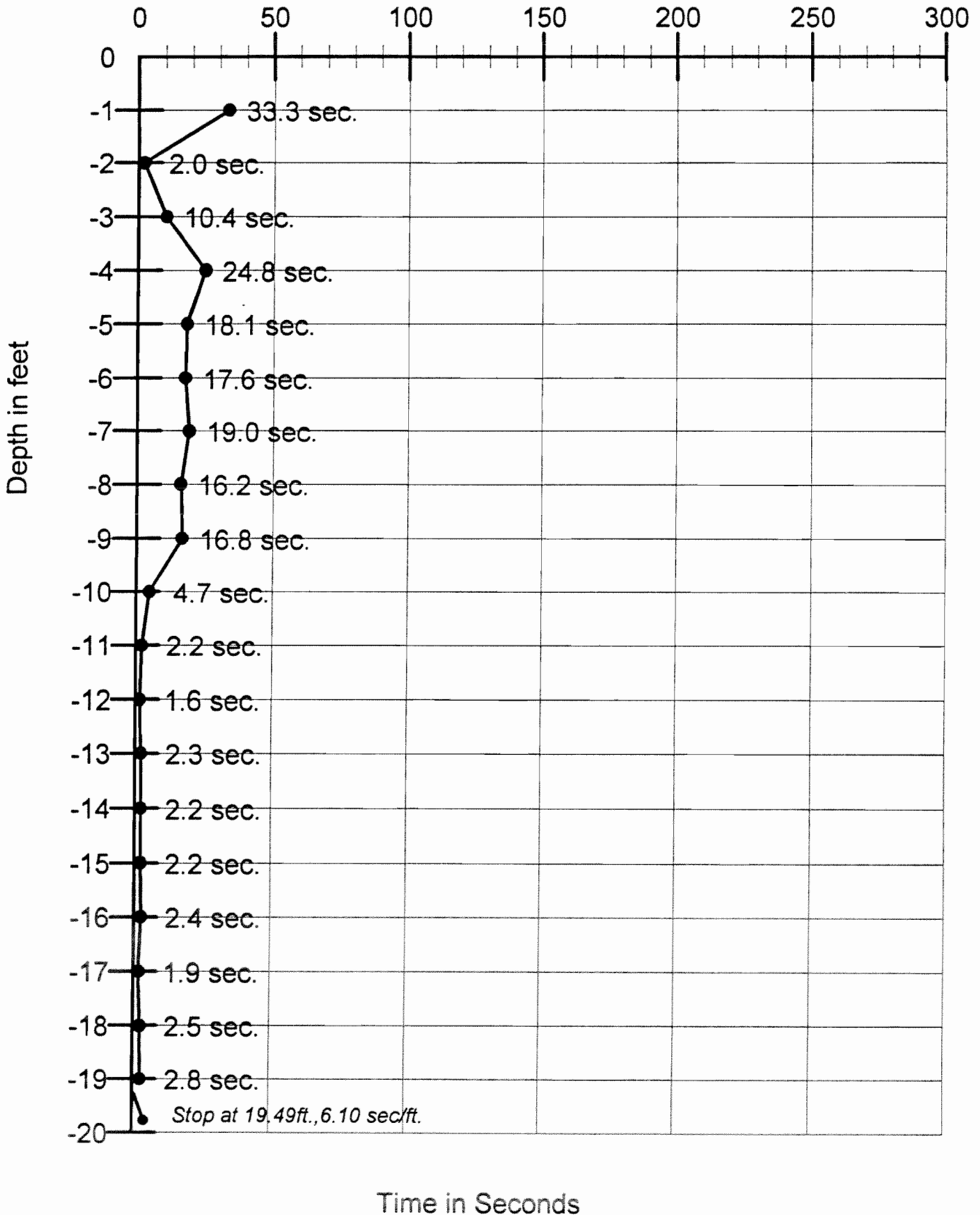
PENETRATION GRAPH

Core No: G-2    Run: 1    Location: Lat.: 39 25 37.938    Long.: 74 15 55.386  
Date: 8/27/97    Start Time: 12:54:37PM    Stop Time: 12:57:15PM    Jet to:  
W.D. Raw: 38.0 ft.    W.D. Corrected: 37.0 ft.    Total Penetration: 19.89 ft.    total Recovery: 0.0 ft.



PENETRATION GRAPH

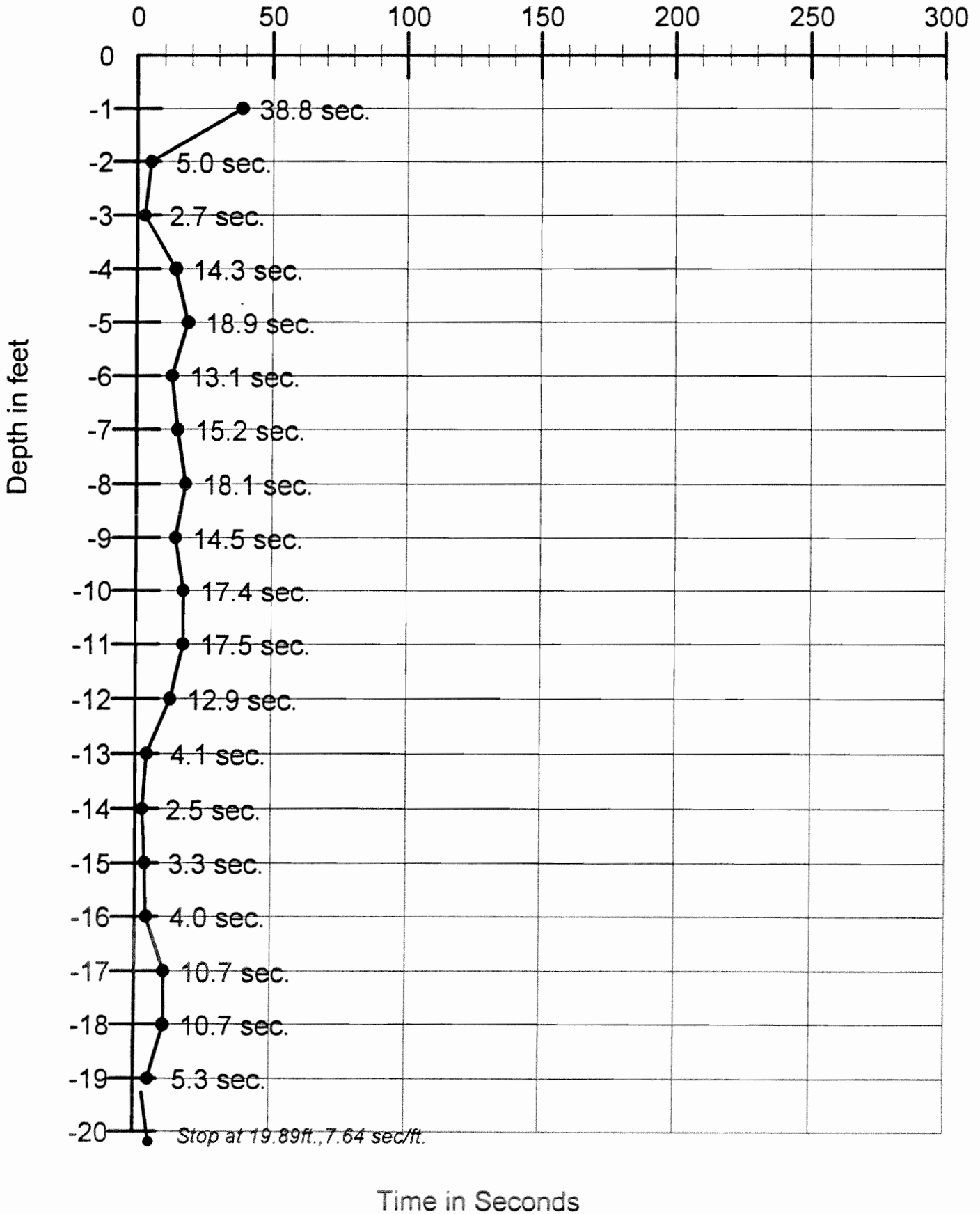
Core No: G-2    Run: 2    Location: Lat.: 39 25 37.9    Long.: 74 15 55.3  
Date: 8/27/97    Start Time: 1:07:53 PM    Stop Time: 1:11:05 PM    Jet to:  
W.D. Raw: 39.0 ft.    W.D. Corrected: 38.2 ft.    Total Penetration: 19.49 ft.    Total Recovery: 11.2 ft.





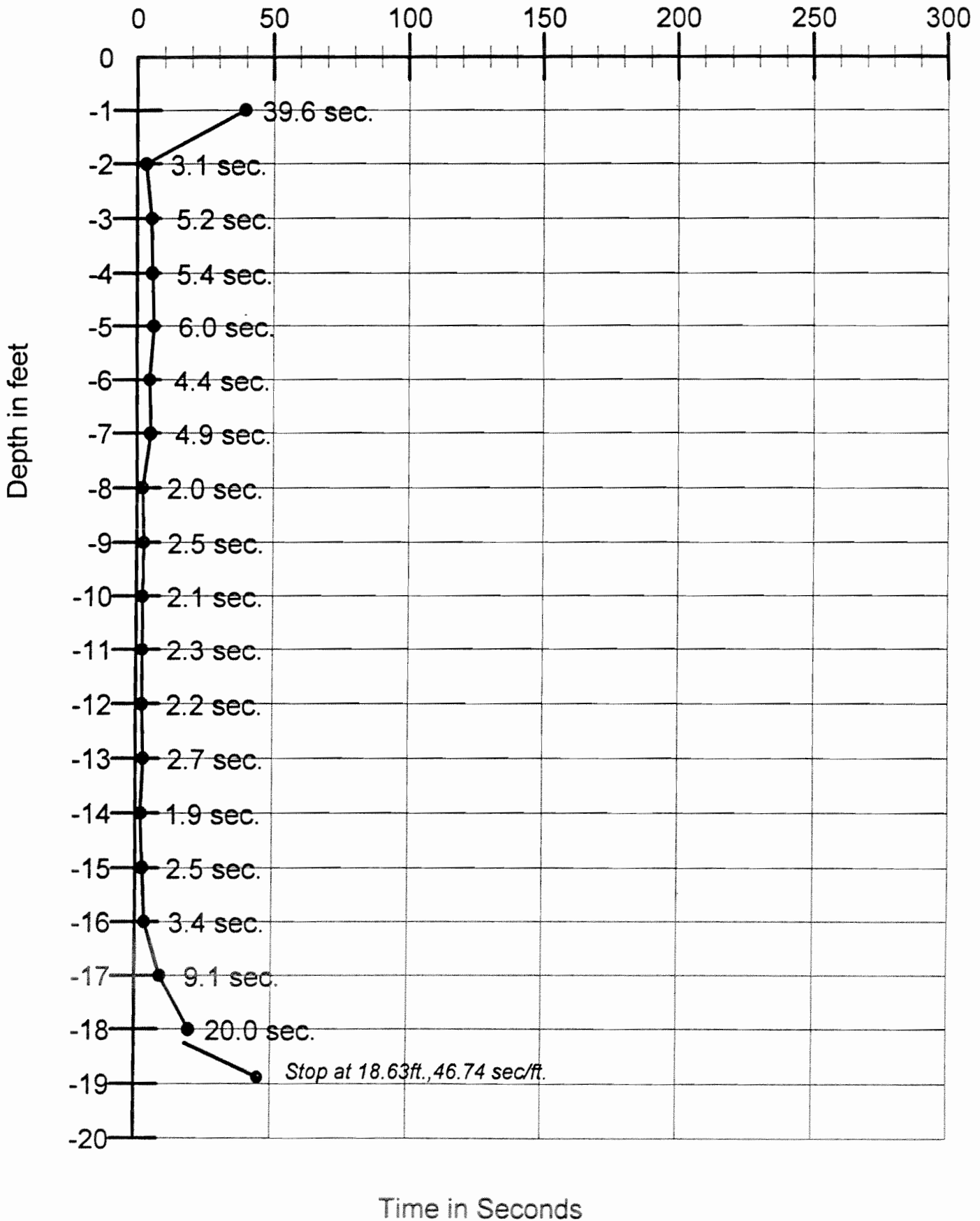
PENETRATION GRAPH

Core No: G-3    Run: 1    Location: Lat.: 39 24 27.4    Long.: 74 15 08.7  
Date: 8/27/97    Start Time: 11:19:48AM    Stop Time: 11:23:47AM    Jet to:  
W.D. Raw: 41.5 ft.    W.D. Corrected: 39.1 ft.    Total Penetration: 19.89 ft.    Total Recovery: 19.7 ft.



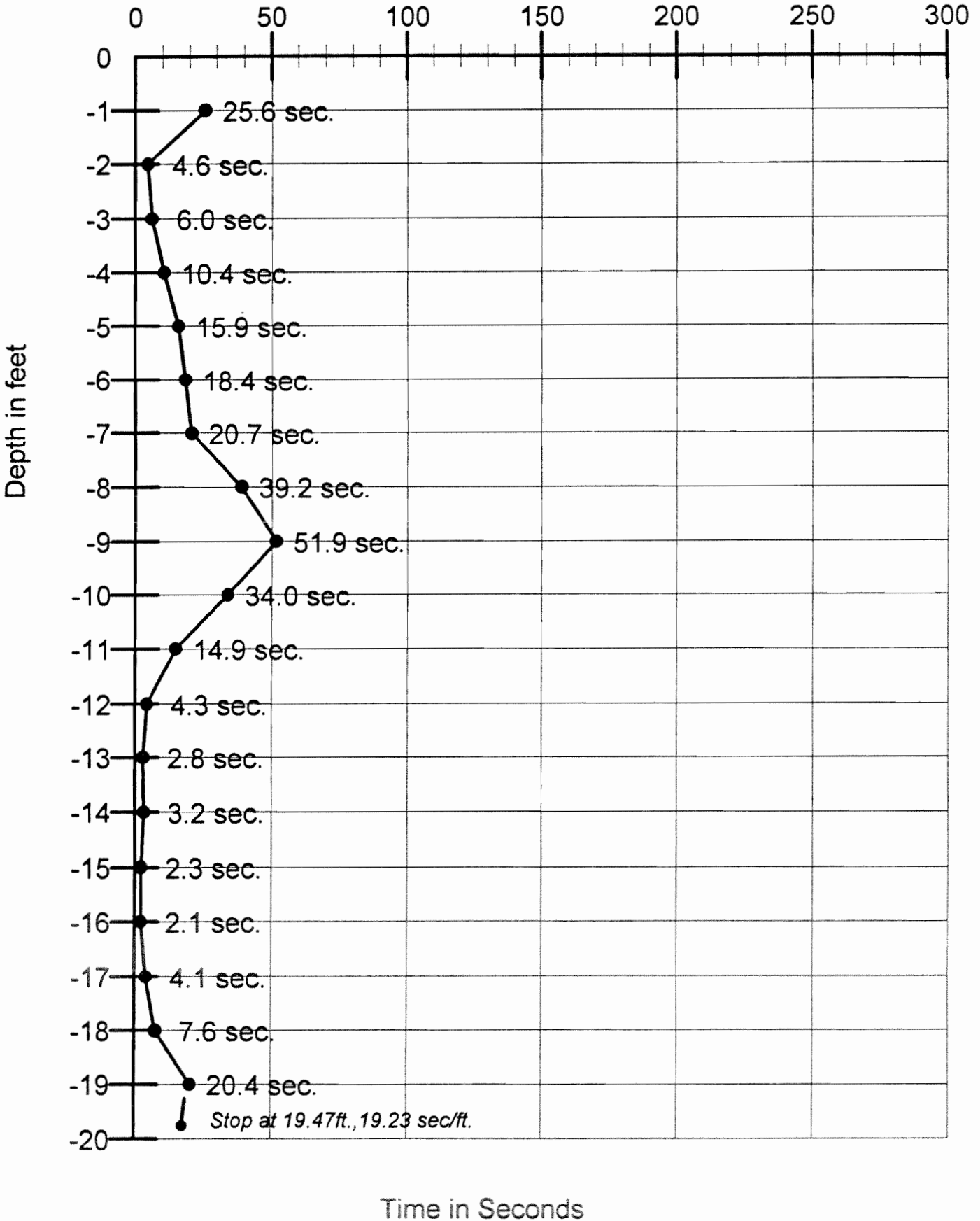
PENETRATION GRAPH

Core No: G-4    Run: 1    Location: Lat.: 39 23 29.8    Long.: 74 15 55.3  
Date: 8/27/97    Start Time: 9:56:56 AM    Stop Time: 9:59:45 AM    Jet to:  
W.D. Raw: 42.0 ft.    W.D. Corrected: 38.2 ft.    Total Penetration: 18.63 ft.    Total Recovery: 20.0 ft.



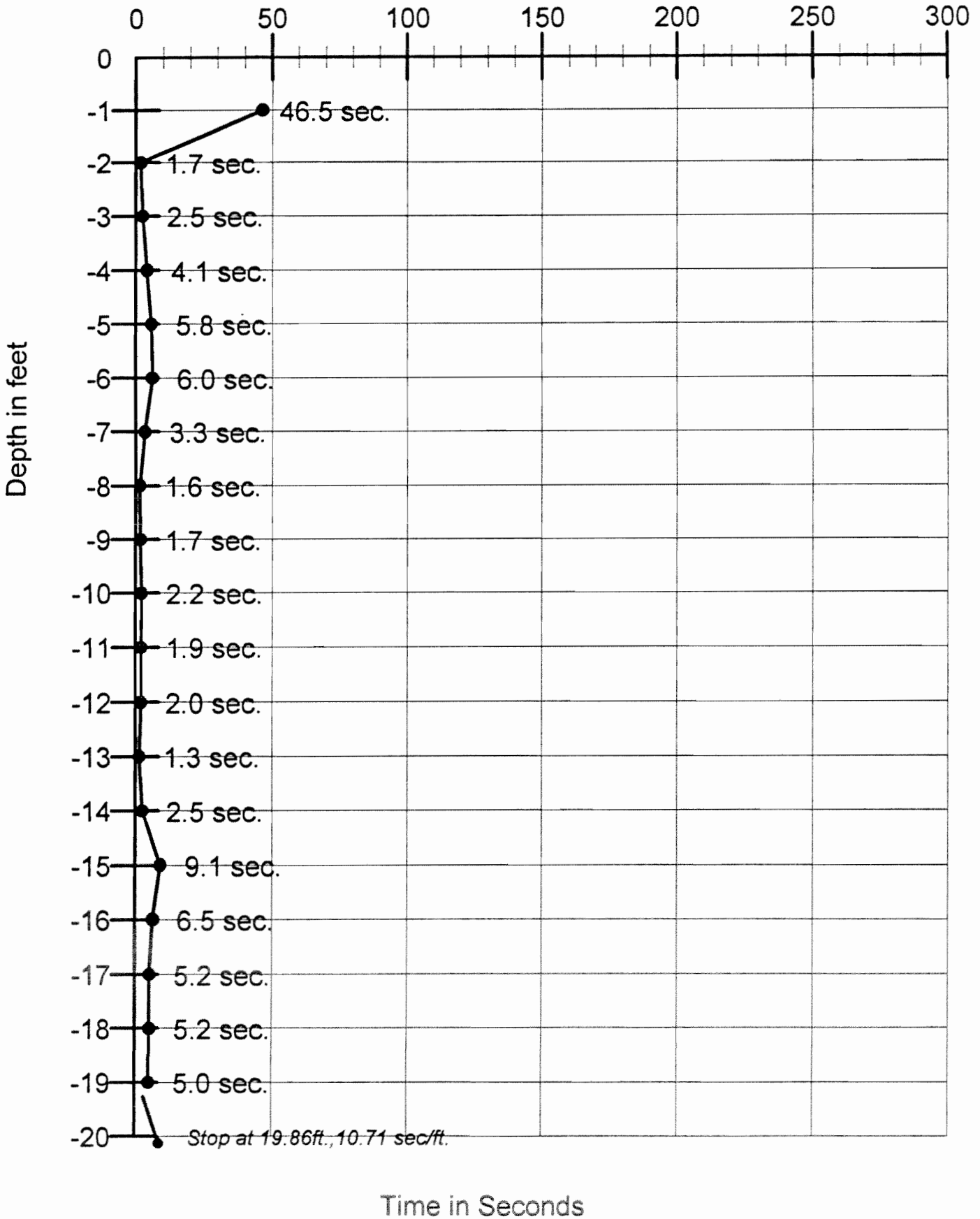
PENETRATION GRAPH

Core No: G-5    Run: 1    Location: Lat.: 39 24 06.1    Long.: 74 16 49.9  
Date: 8/27/97    Start Time: 10:44:54AM    Stop Time: 10:50:05AM    Jet to:  
W.D. Raw: 39.8 ft.    W.D. Corrected: 36.7 ft.    Total Penetration: 19.47 ft.    Total Recovery: 20.0 ft.



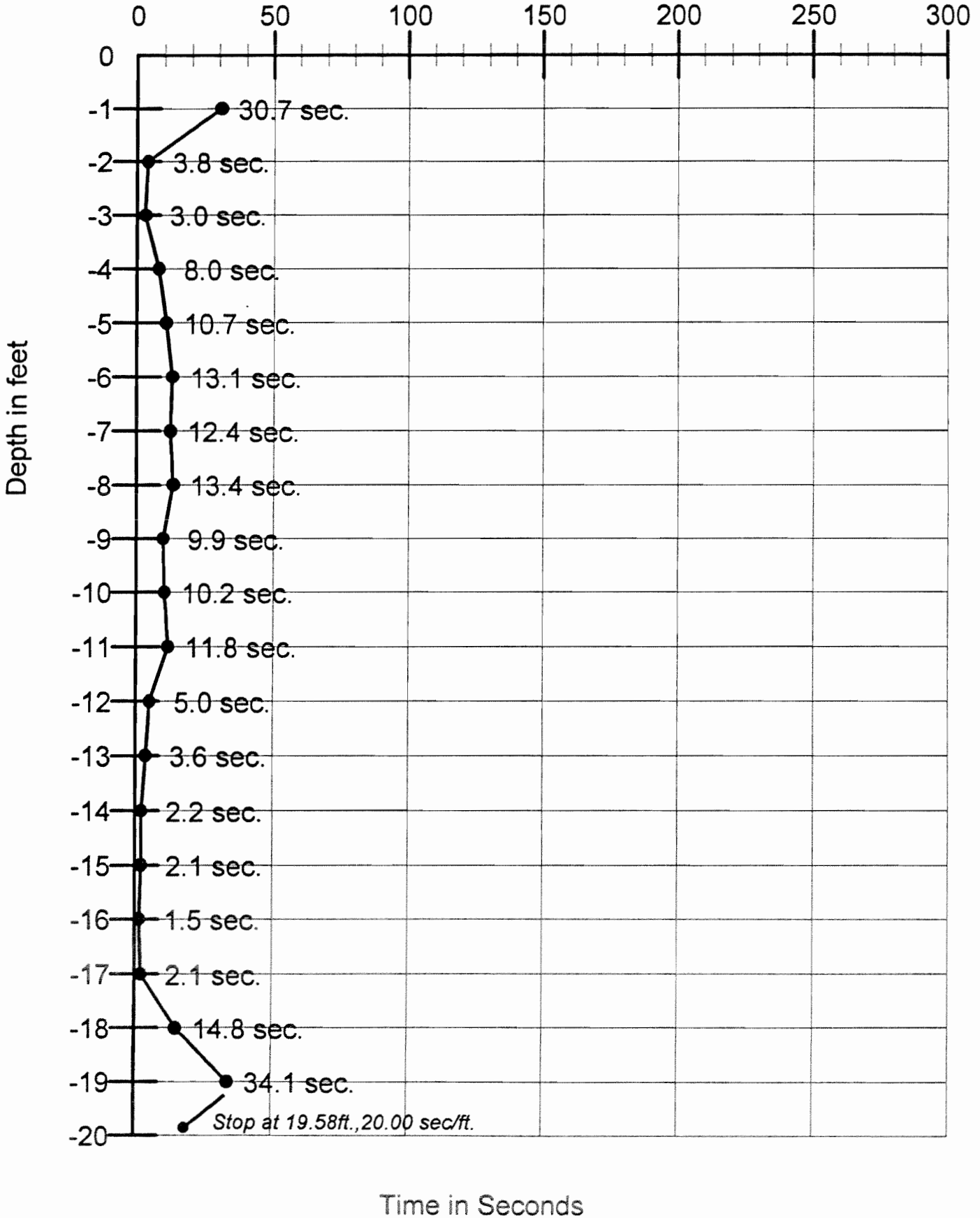
PENETRATION GRAPH

Core No: G-6    Run: 1    Location: Lat.: 39 22 41.284    Long.: 74 17 06.448  
Date: 8/27/97    Start Time: 9:22:48 AM    Stop Time: 9:24:55 AM    Jet to:  
W.D. Raw: 44.5 ft.    W.D. Corrected: 40.4 ft.    Total Penetration: 19.86 ft.    Total Recovery: 19.4 ft.



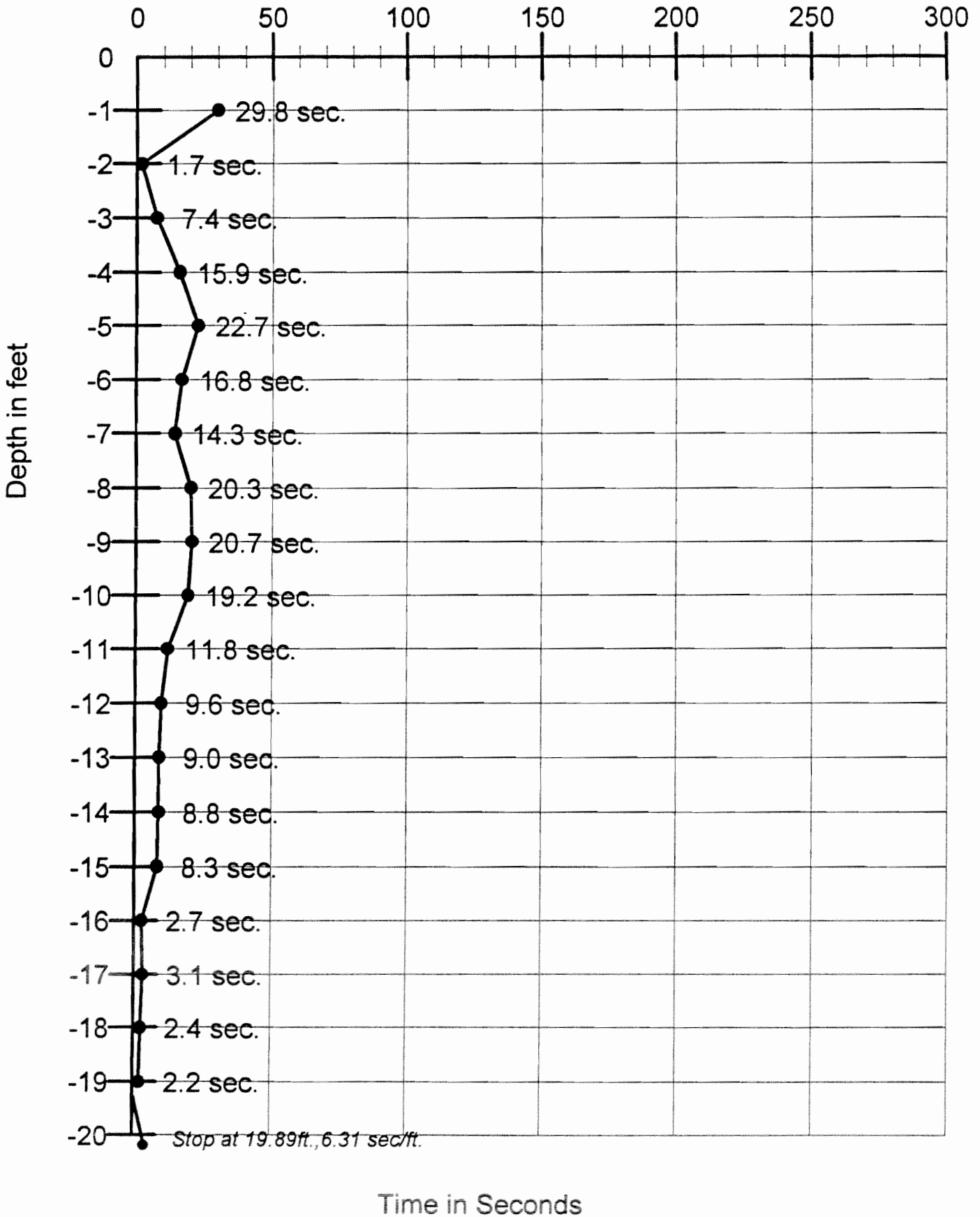
PENETRATION GRAPH

Core No: G-6A Run: 1 Location: Lat.: 39 22 00.532 Long.: 74 18 38.092  
Date: 8/27/97 Start Time: 8:48:38 AM Stop Time: 8:52:13 AM Jet to:  
W.D. Raw: 39.5 ft. W.D. Corrected: 35.1 ft. Total Penetration: 19.58 ft. Total Recovery: 20.0 ft.



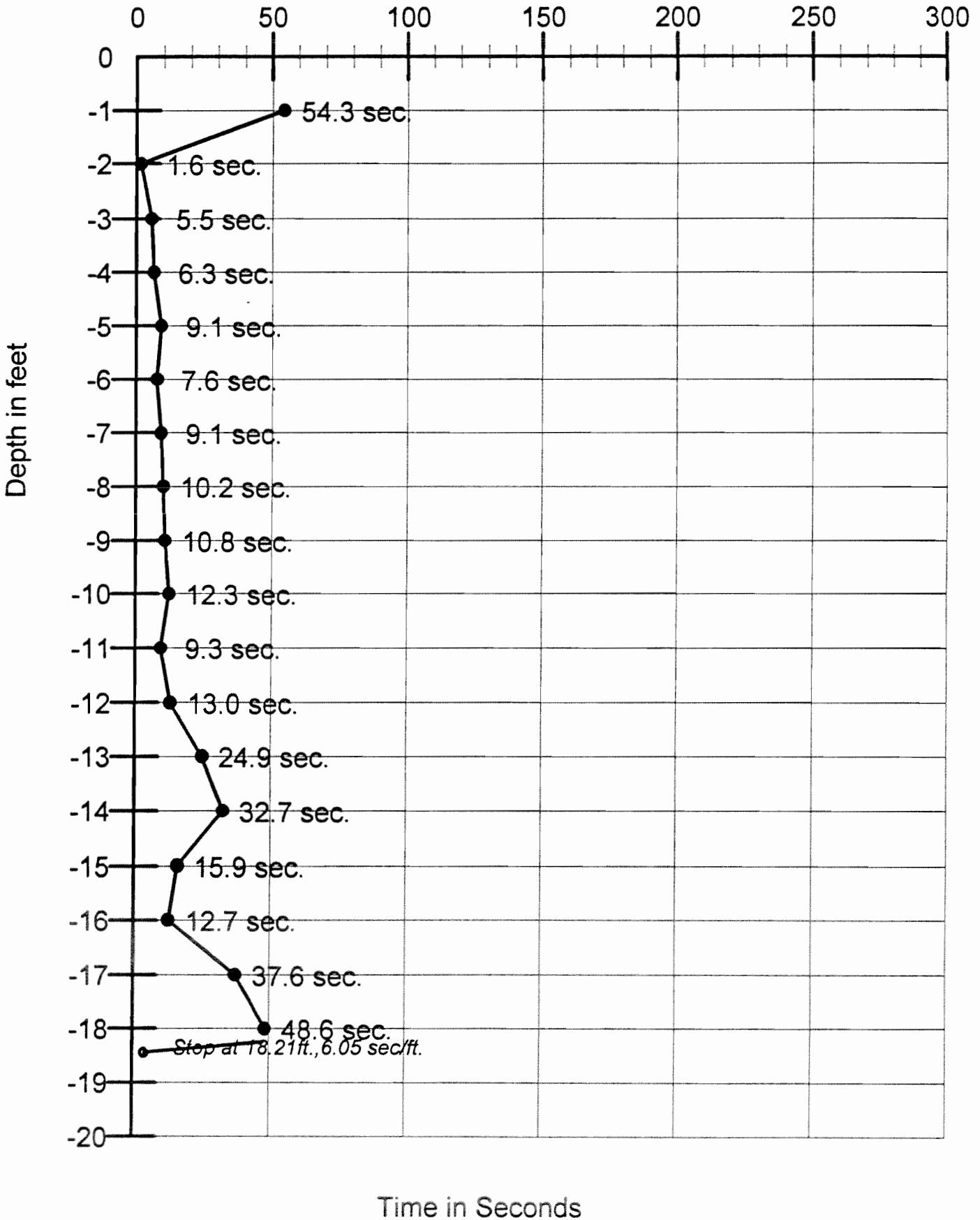
PENETRATION GRAPH

Core No: G-7    Run: 1    Location: Lat.: 39 21 10.039    Long.: 74 20 36.342  
Date: 8/27/97    Start Time: 7:34:32 AM    Stop Time: 7:38:28 AM    Jet to:  
W.D. Raw: 34.5 ft.    W.D. Corrected: 30.4 ft.    Total Penetration: 19.89 ft.    Total Recovery: 19.7 ft.



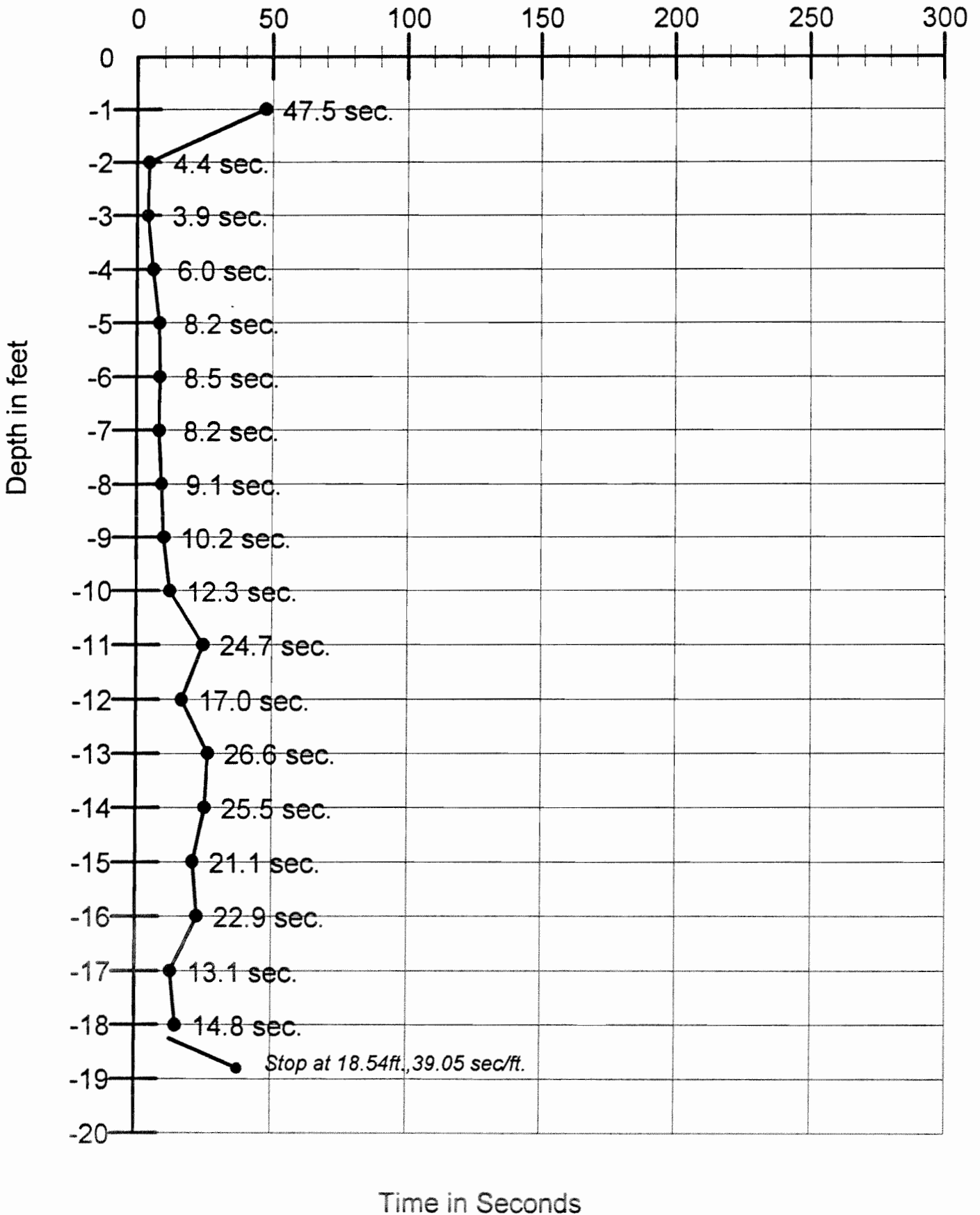
PENETRATION GRAPH

Core No: G-8 Run: 1 Location: Lat.: 39 20 50.721 Long.: 74 18 36.117  
Date: 8/27/97 Start Time: 8:13:43 AM Stop Time: 8:19:13 AM Jet to:  
W.D. Raw: 41.5 ft. W.D. Corrected: 37.1 ft. Total Penetration: 18.21 ft. Total Recovery: 20.0 ft.



PENETRATION GRAPH

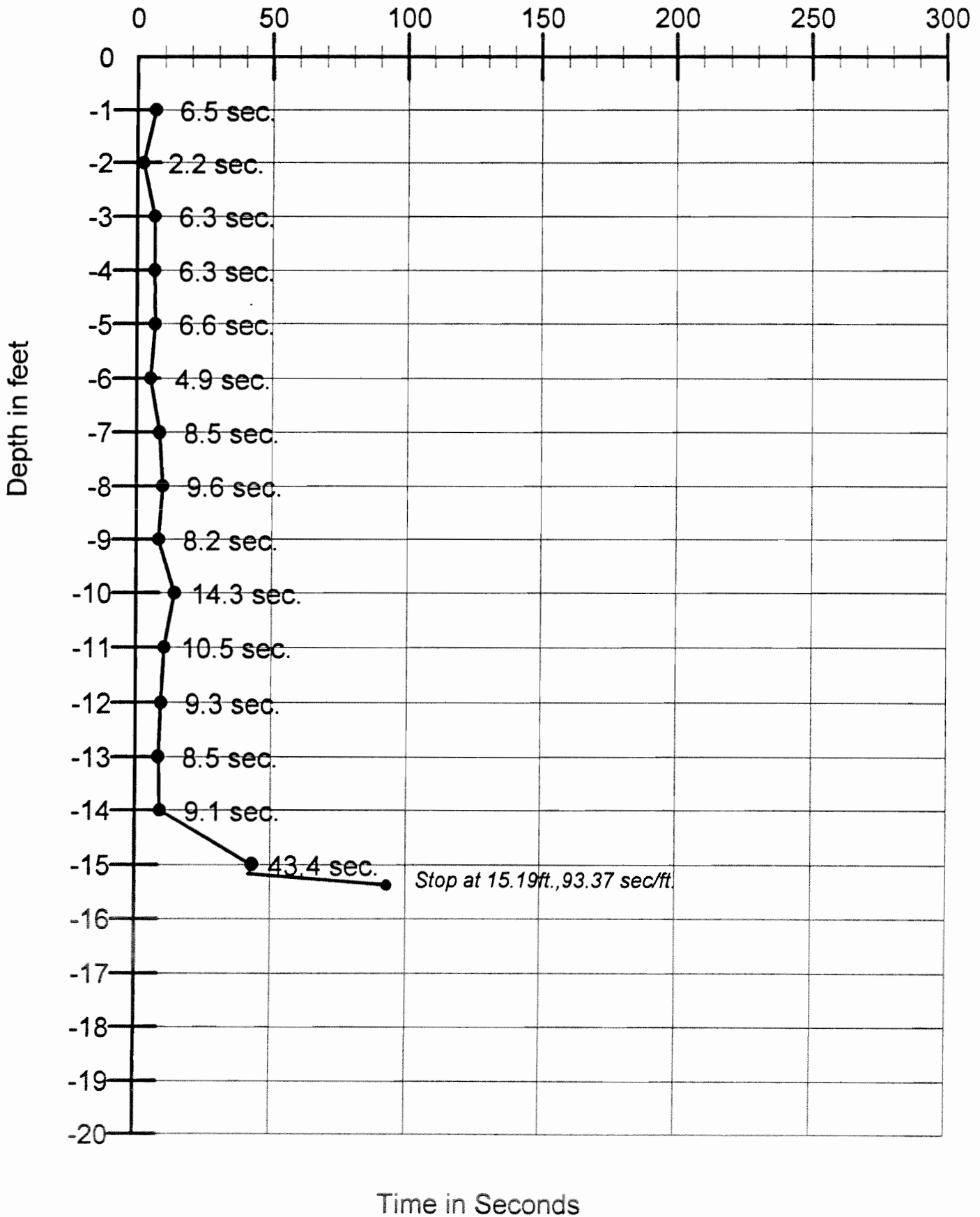
Core No: C-11    Run: 1    Location: Lat.: 39 41 14.420    Long.: 74 02 37.393  
Date: 8/28/97    Start Time: 10:55:29AM    Stop Time: 11:00:55AM    Jet to:  
W.D. Raw: 52.8 ft.    W.D. Corrected:    Total Penetration: 18.54 ft.    Total Recovery: 19.2 ft.





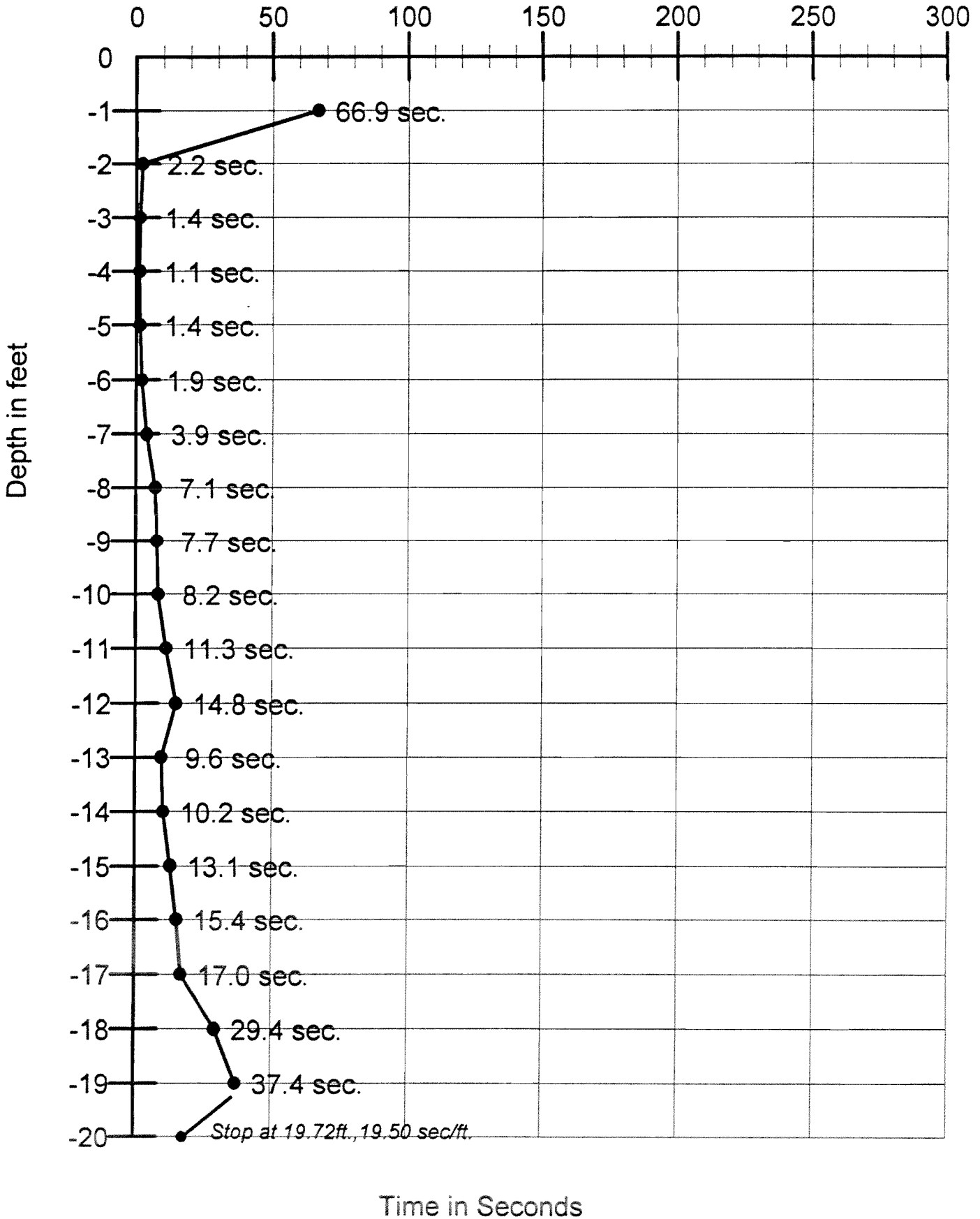
PENETRATION GRAPH

Core No: C-13    Run: 1    Location: Lat.: 39 39 07.569    Long.: 74 04 21.677  
Date: 8/28/97    Start Time: 10:02:21AM    Stop Time: 10:06:32AM    Jet to:  
W.D. Raw: 51.5 ft.    W.D. Corrected: 51.7 ft.    Total Penetration: 15.19 ft.    Total Recovery: 19.0 ft.



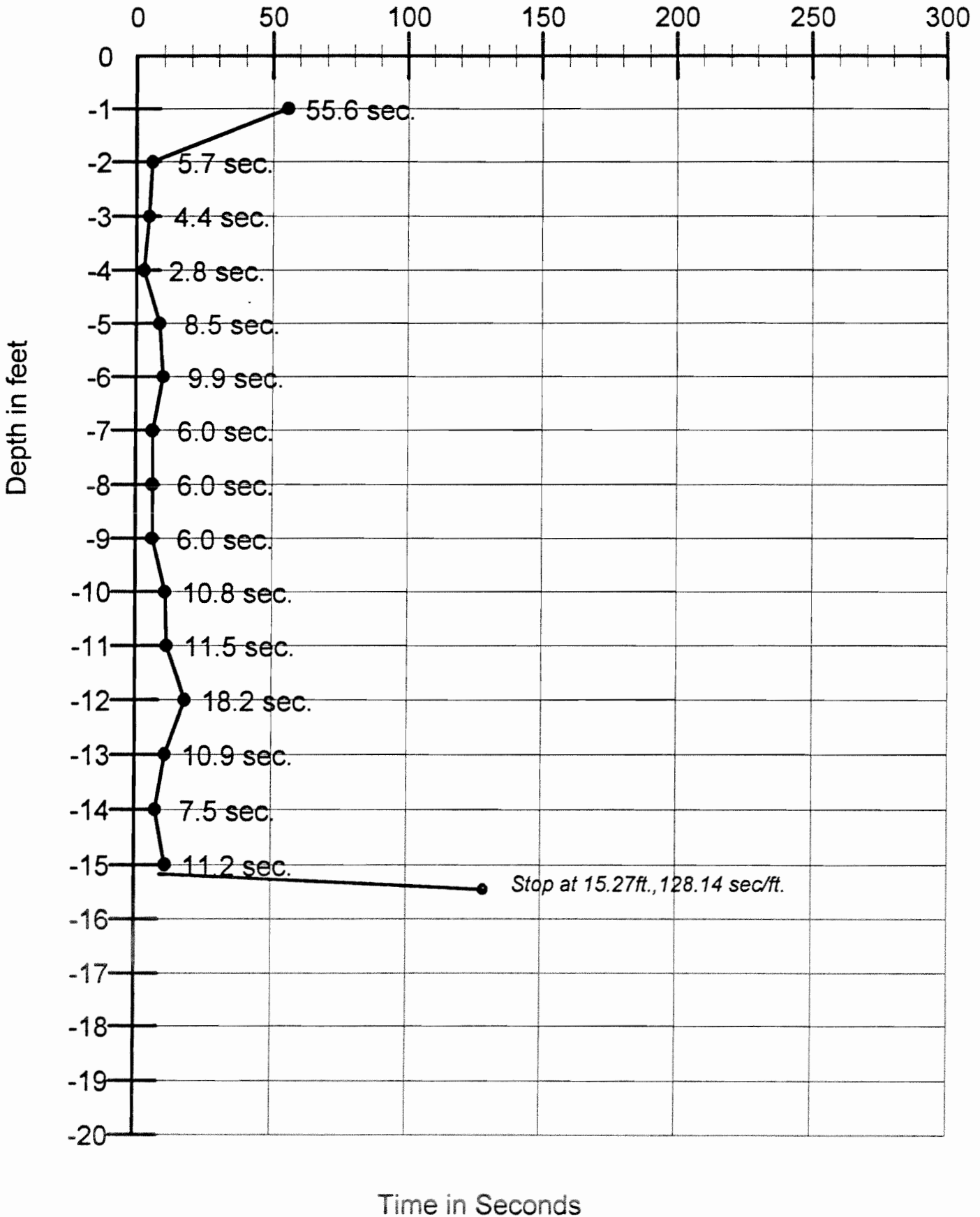
PENETRATION GRAPH

Core No: C-15 Run: 1 Location: Lat.: 39 41 49.164 Long.: 74 03 59.435  
Date: 8/28/97 Start Time: 11:32:33AM Stop Time: 11:37:16AM Jet to:  
W.D. Raw: 53.0 ft. W.D. Corrected: 51.9 ft. Total Penetration: 19.72 ft. total Recovery: 19.4 ft.



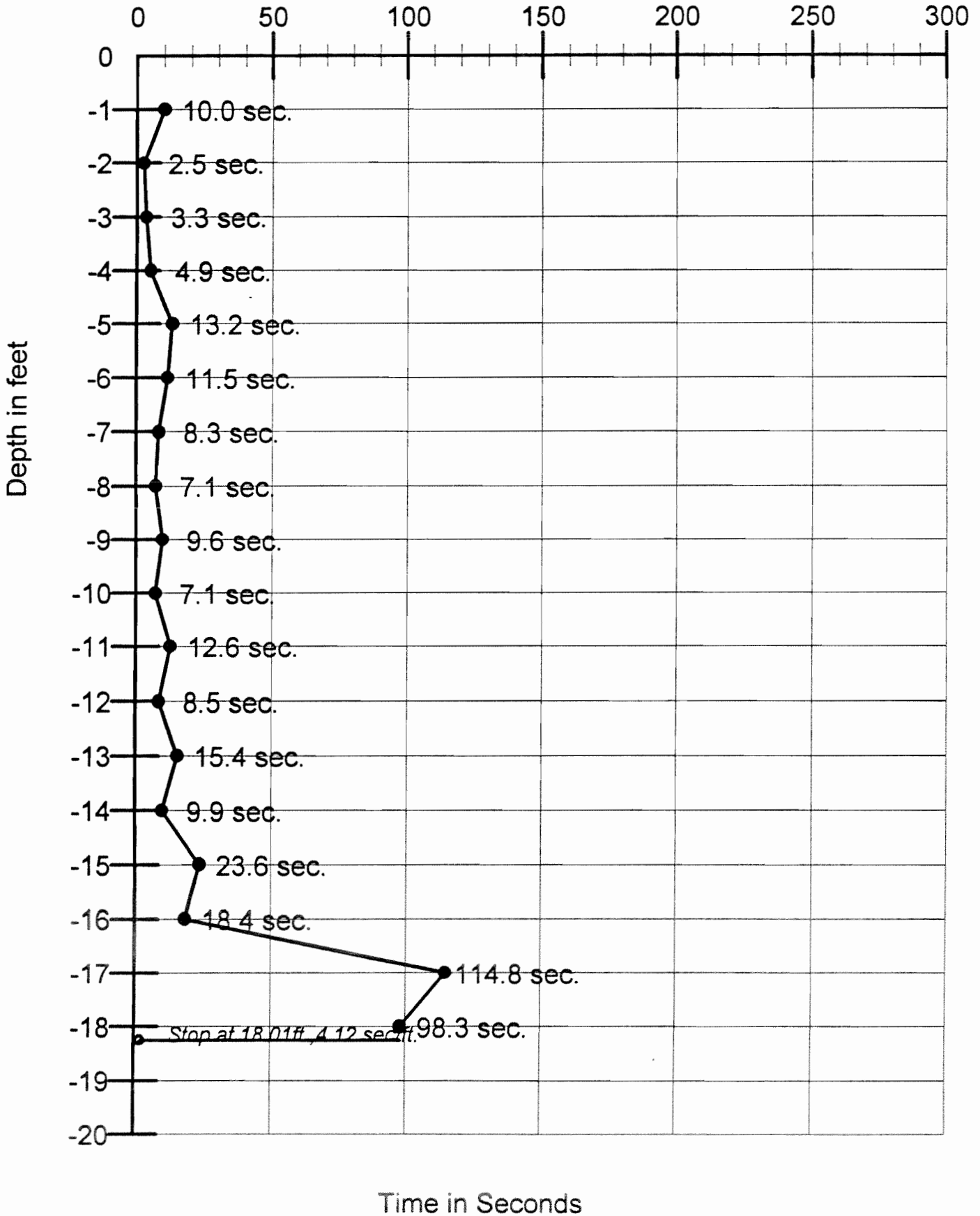
PENETRATION GRAPH

Core No: D-16 Run: 1 Location: Lat.: 39 32 28.700 Long.: 74 05 29.905  
Date: 8/27/97 Start Time: 3:42:49 PM Stop Time: 3:47:54 PM Jet to:  
W.D. Raw: 61.5 ft. W.D. Corrected: 61.0 ft. Total Penetration: 15.27 ft. Total Recovery: 17.5 ft.



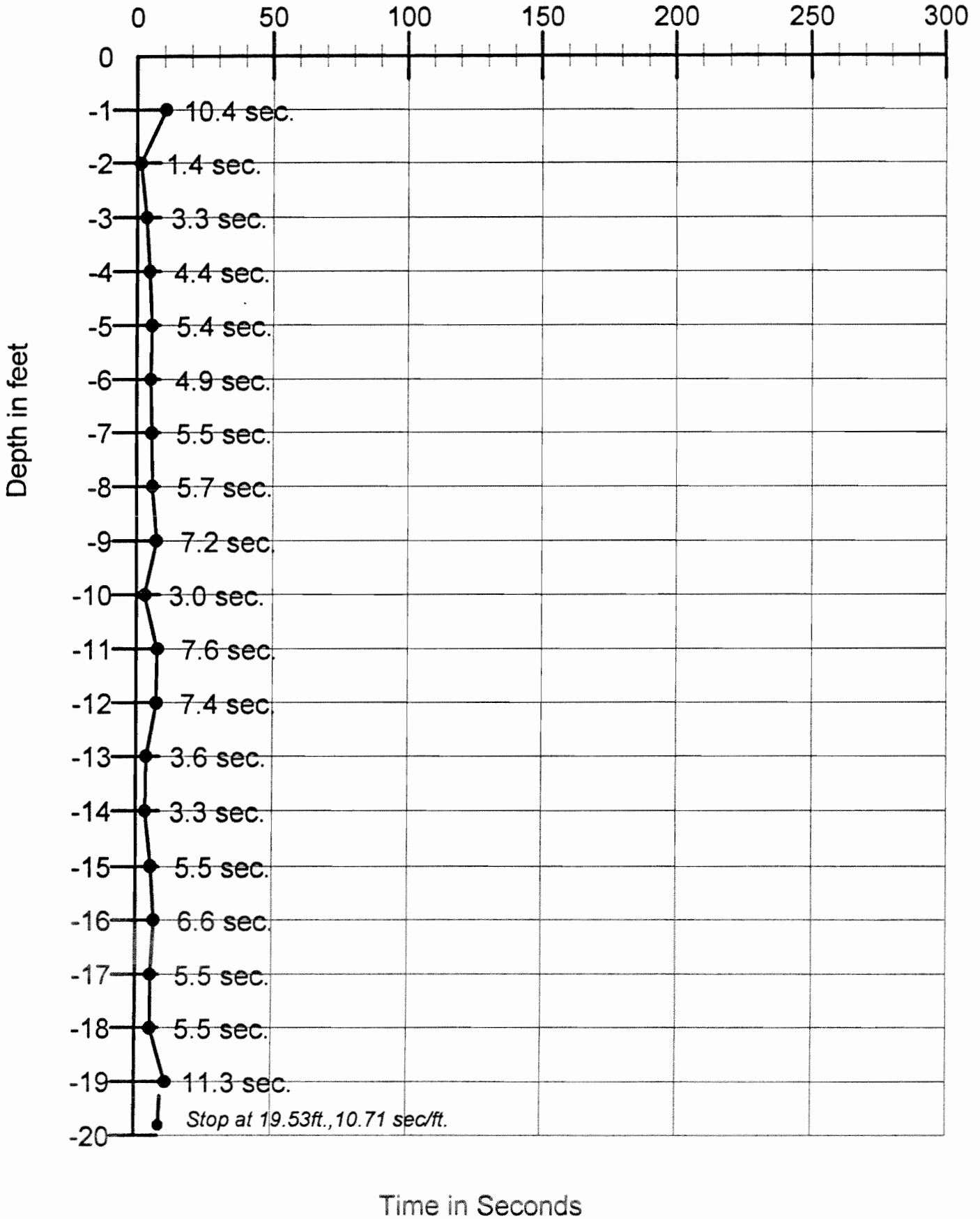
PENETRATION GRAPH

Core No: D-18 Run: 1 Location: Lat.: 39 35 52.507 Long.: 74 02 21.342  
Date: 8/28/97 Start Time: 9:02:50 AM Stop Time: 9:09:18 AM Jet to:  
W.D. Raw: 61.5 ft. W.D. Corrected: 61.1 ft. Total Penetration: 18.01 ft. Total Recovery: 20.0 ft.



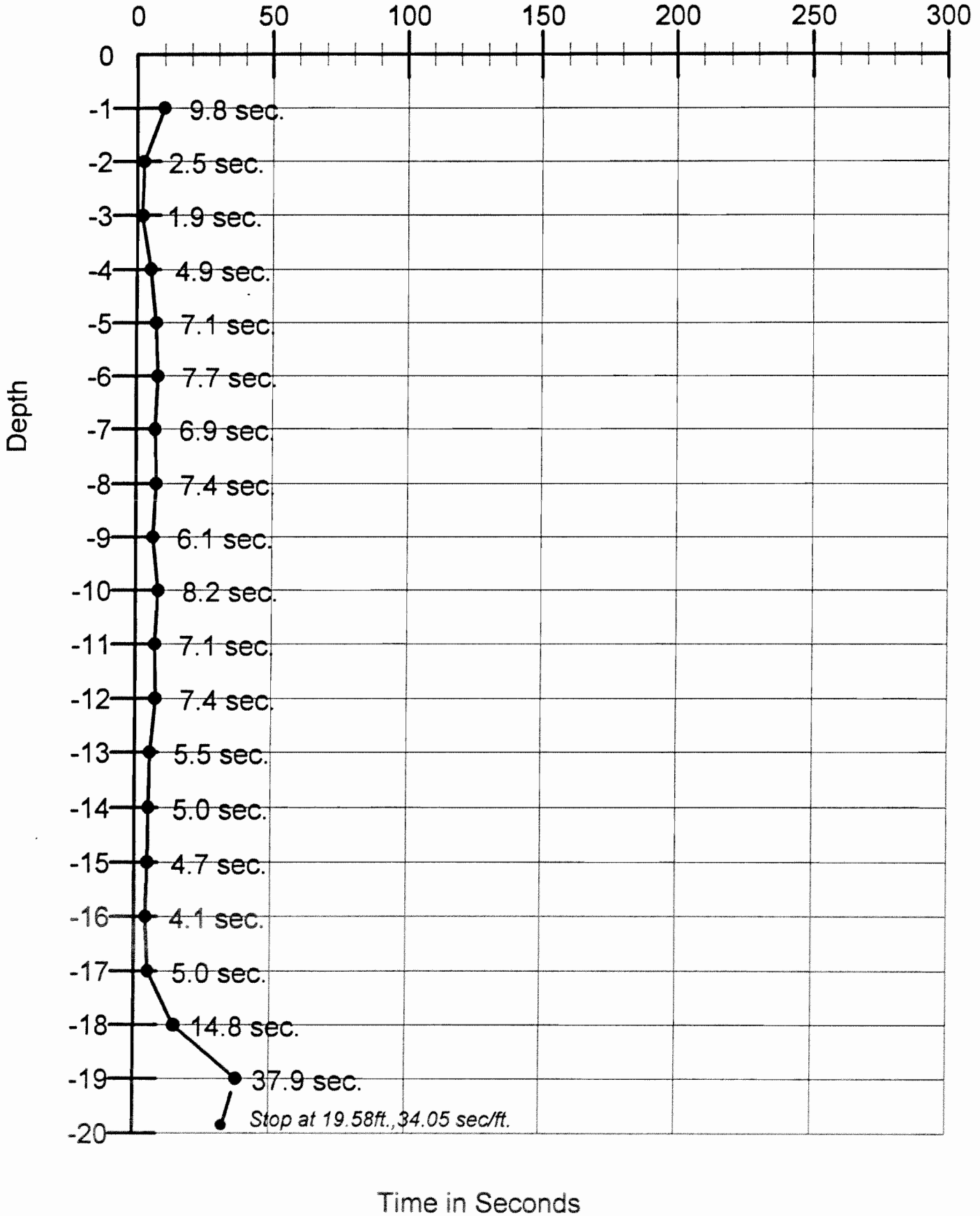
PENETRATION GRAPH

Core No: C-20 Run: 1 Location: Lat.: 39 51 10.547 Long.: 73 59 14.832  
Date: 8/28/97 Start Time: 1:17:07 PM Stop Time: 1:19:08 PM Jet to:  
W.D. Raw: 57.0 ft. W.D. Corrected: 56.6 ft. Total Penetration: 19.53 ft. Total Recovery: 20.0 ft.



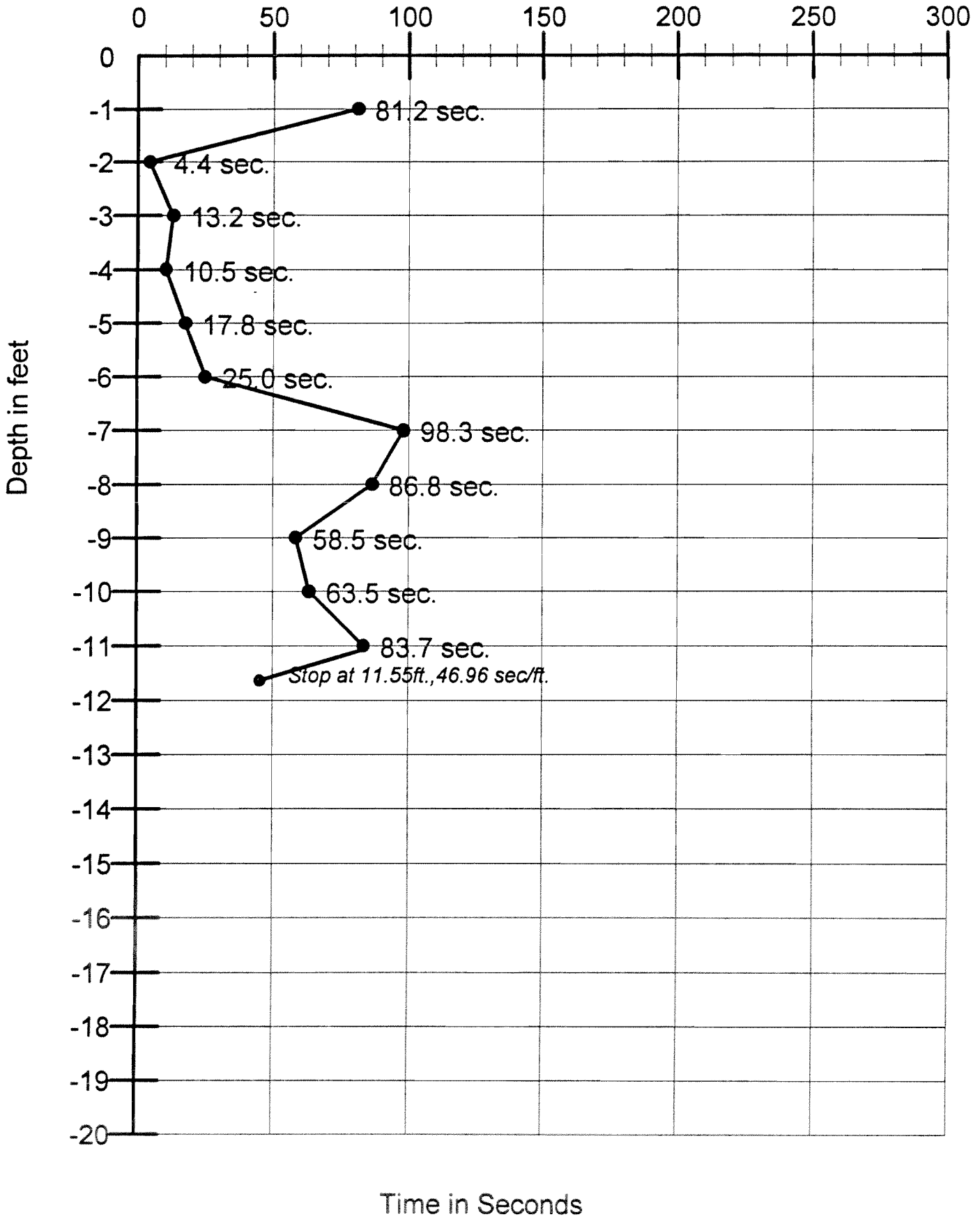
PENETRATION GRAPH

Core No: E-22 Run: 1 Location: Lat.: 39 53 26.639 Long.: 73 59 27.707  
Date: 8/28/97 Start Time: 2:22:57 PM Stop Time: 2:26:08 PM Jet to:  
W.D. Raw: 69.0 ft. W.D. Corrected: 68.7 ft. Total Penetration: 19.58 ft. Total Recovery: 20.0 ft.



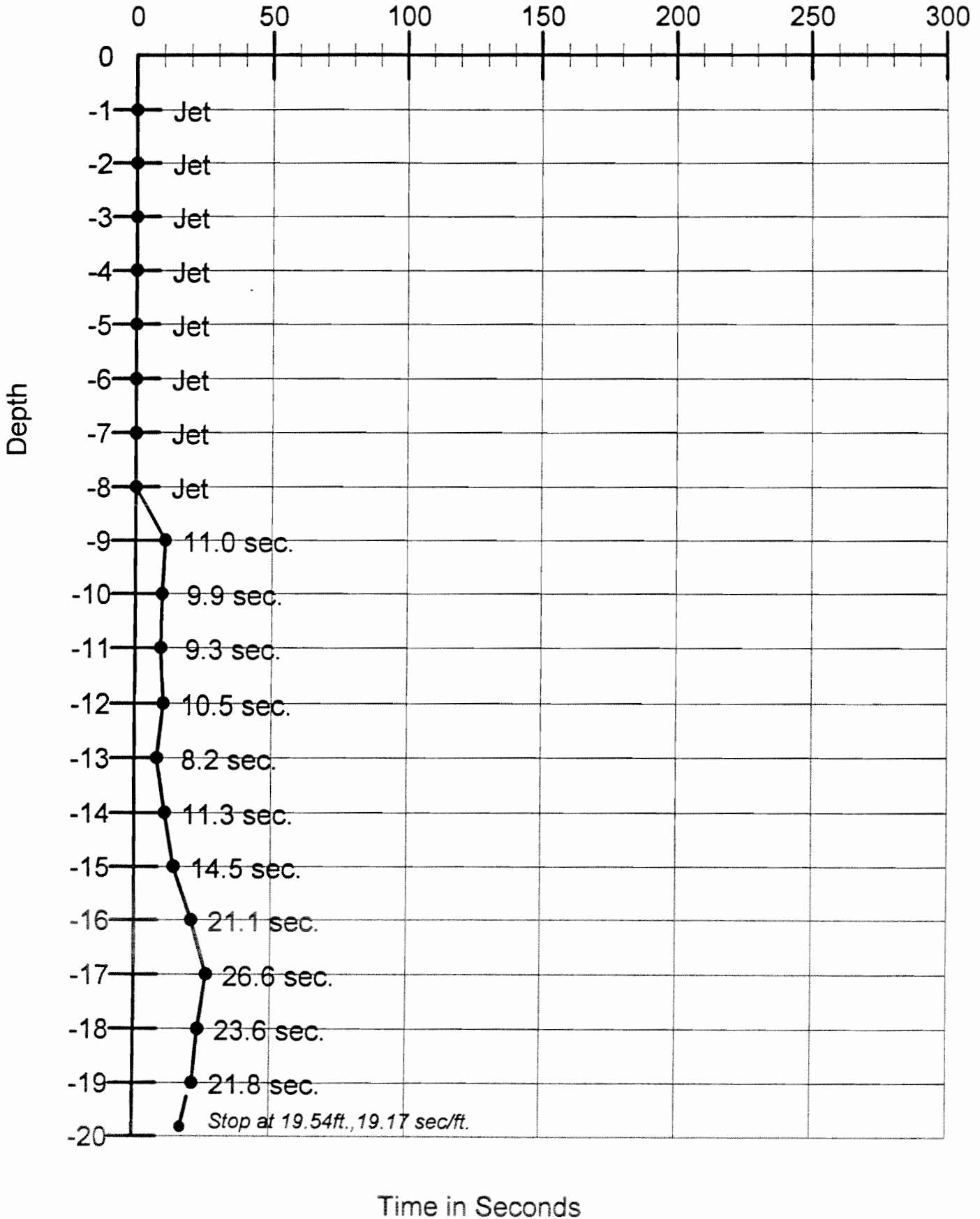
PENETRATION GRAPH

Core No: E-24 Run: 1 Location: East: 39 58 21.530 ft. North: 73 59 44.830 ft.  
Date: 8/28/97 Start Time: 3:25:45 PM Stop Time: 3:35:46 PM Jet to:  
W.D. Raw: 68.5 ft. W.D. Corrected: 68.3 ft. Total Penetration: 11.55 ft. Total Recovery: 9.7 ft.



PENETRATION GRAPH

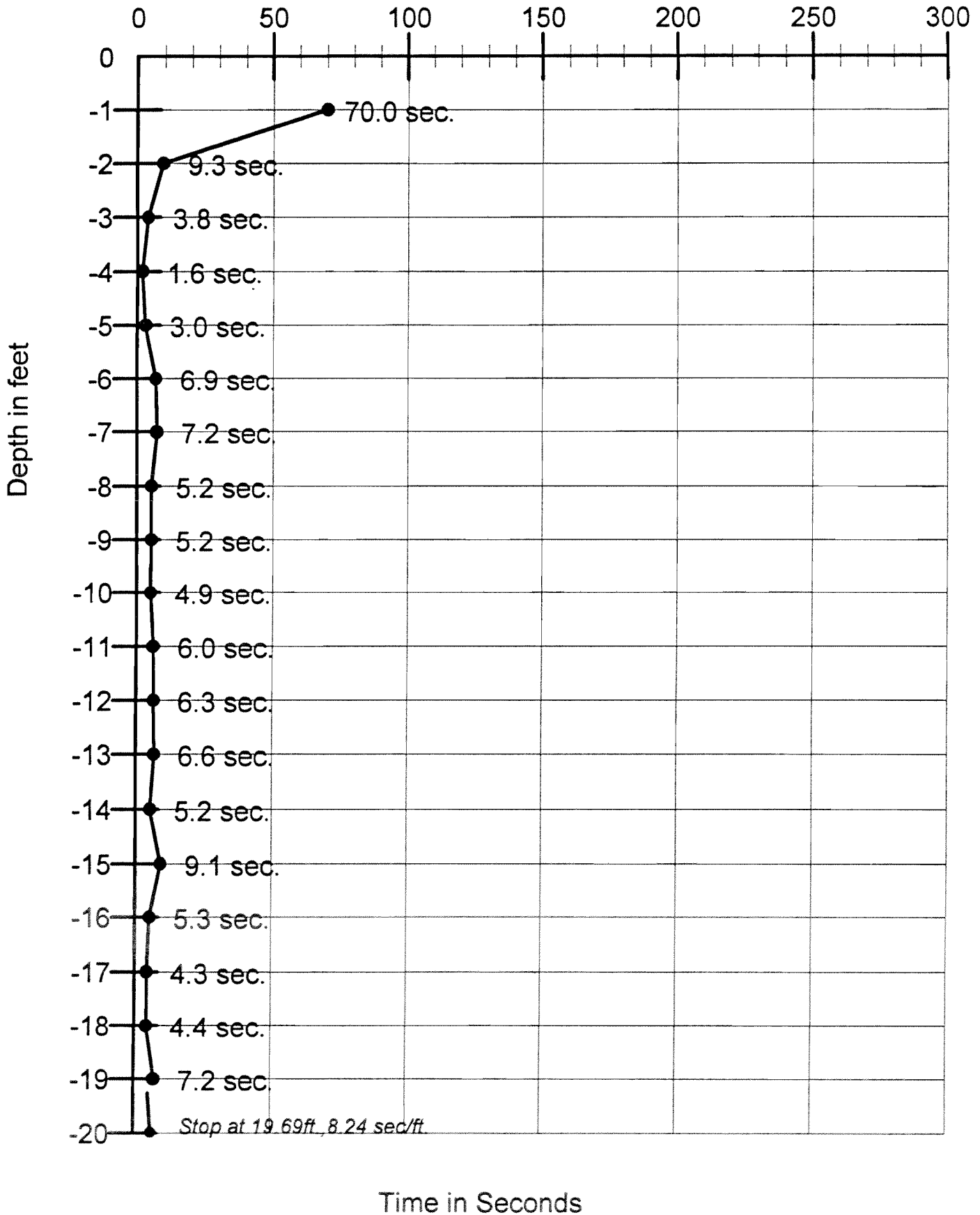
Core No: E-24    Run: 2    Location: Lat.: 39 58 21.561    Long.: 73 59 45.052  
Date: 8/28/97    Start Time: 6:14:39 PM    Stop Time: 6:20:01 PM    Jet to: 8.45 ft.  
W.D. Raw: 68.5 ft.    W.D. Corrected: 67.7 ft.    Total Penetration: 19.54 ft.    Total Recovery: 15.9 ft.





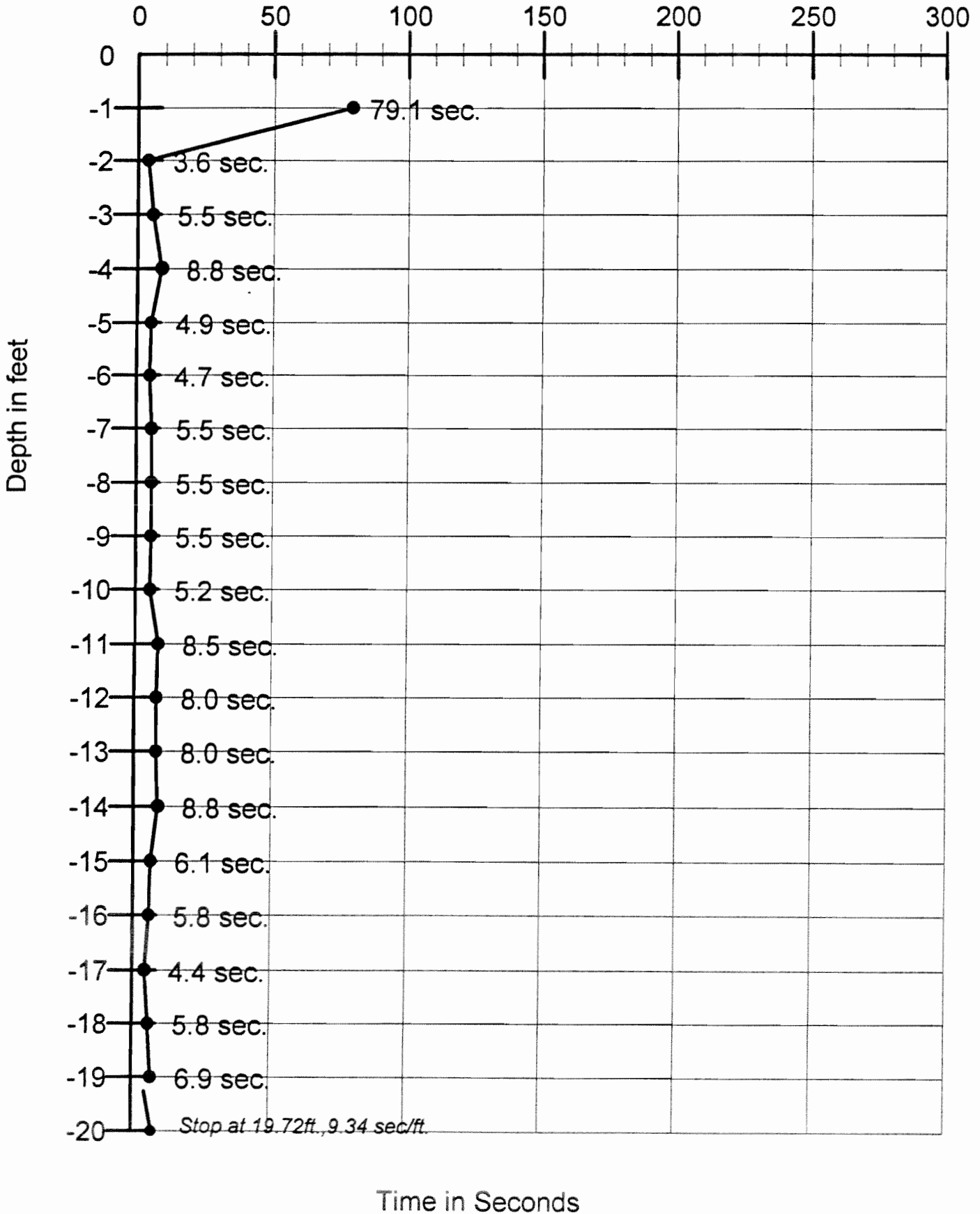
PENETRATION GRAPH

Core No: E-26 Run: 1 Location: Lat.: 39 52 46.091 Long.: 73 59 24.102  
Date: 8/28/97 Start Time: 1:51:29 PM Stop Time: 1:54:33 PM Jet to:  
W.D. Raw: 62.5 ft. W.D. Corrected: 62.2 ft. Total Penetration: 19.69 ft. Total Recovery: 19.3 ft.



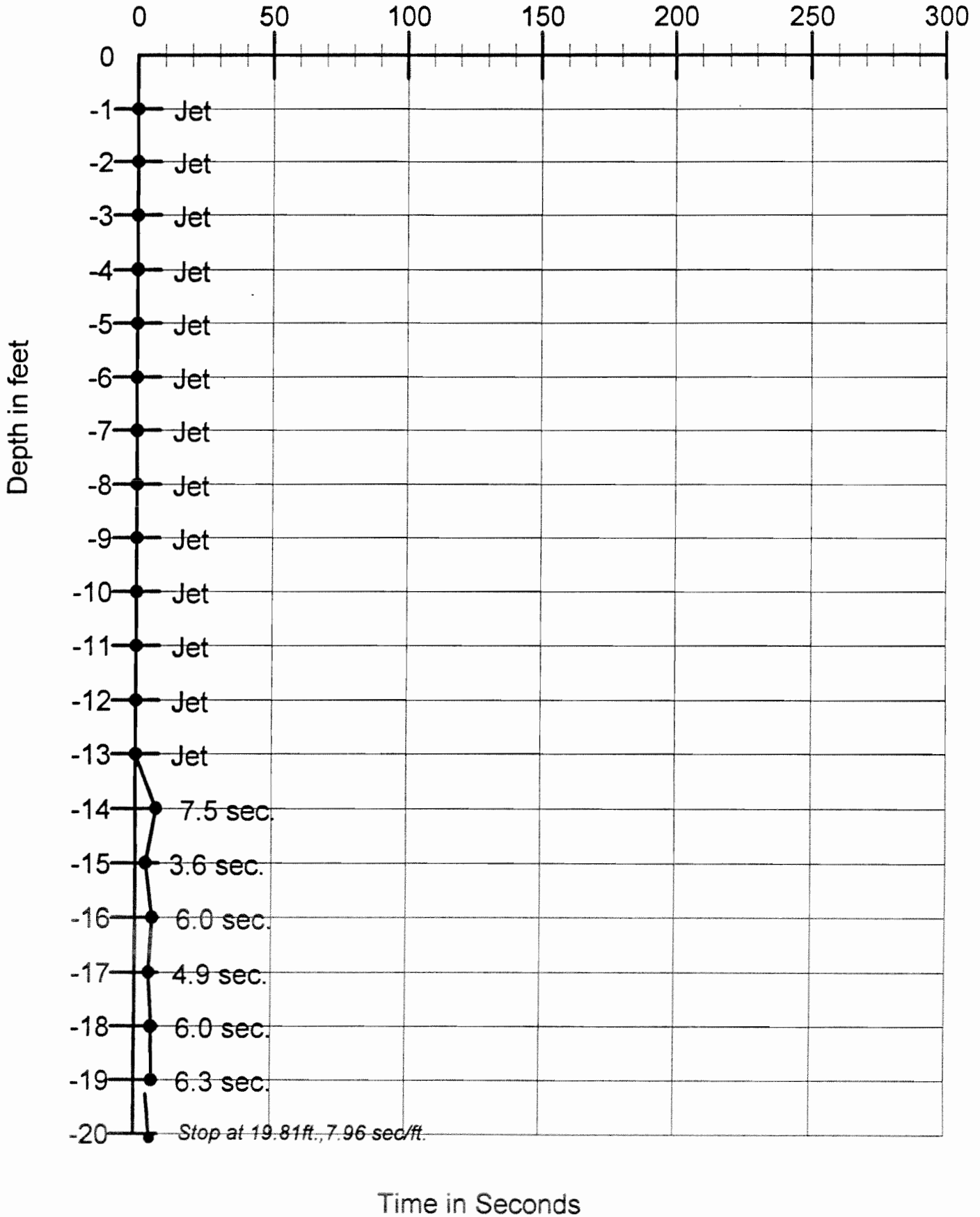
PENETRATION GRAPH

Core No: F-27 Run: 1 Location: Lat.: 39 59 32.009 Long.: 73 55 19.946  
Date: 8/29/97 Start Time: 8:01:06 AM Stop Time: 8:04:28 AM Jet to:  
W.D. Raw: 62.0 ft. W.D. Corrected: 62.0 ft. Total Penetration: 19.72 ft. Total Recovery: 14.0 ft.



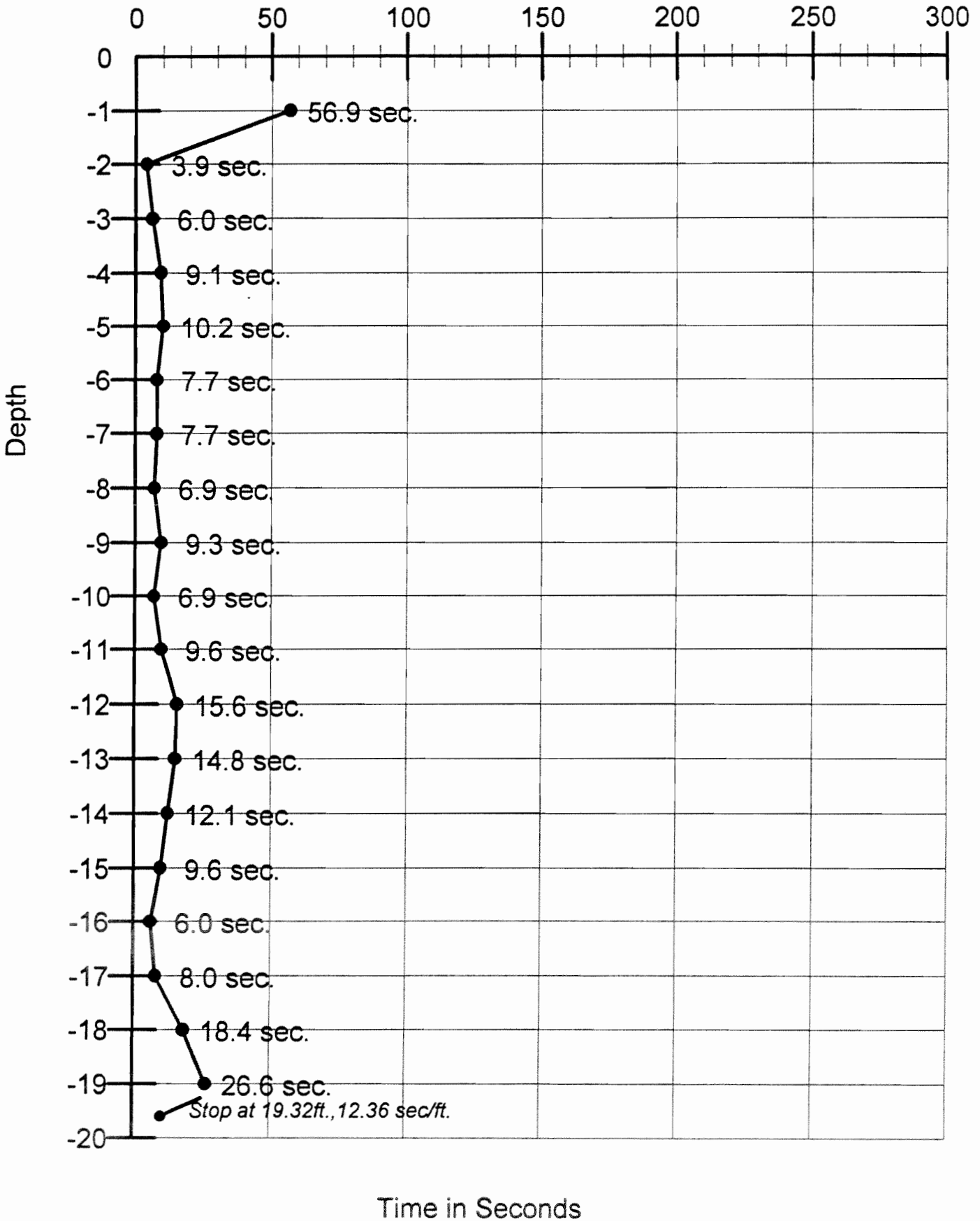
PENETRATION GRAPH

Core No: F-27    Run: 2    Location: Lat.: 39 59 31.878    Long.: 73 55 19.942  
Date: 8/29/97    Start Time: 8:37:27 AM    Stop Time: 8:40:35 AM    Jet to: 13.53 ft.  
W.D. Raw: 61.0 ft.    W.D. Corrected: 60.9 ft.    Total Penetration: 19.81 ft.    Total Recovery: 5.7 ft.



PENETRATION GRAPH

Core No: F-28 Run: 1 Location: Lat.: 40 01 50.1 Long.: 73 55 44.0  
Date: 8/29/97 Start Time: 7:11:20 AM Stop Time: 7:15:41 AM Jet to:  
W.D. Raw: 58.0 ft. W.D. Corrected: 58.0 ft. Total Penetration: 19.32 ft. Total Recovery: 18.0 ft.





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# CORE LOG

Job # \_\_\_\_\_

Core No. 6-1 Run No. 1 Date: 27 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 56683' Northing 719418.4 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 26' 07.826" N Long. 74° 14' 07.741" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 54.8 Stop: 1414 Penetration: 19.9

Tide: 0.4 Start: 1411 Recovery: 18.4

= Corrected: 54.4 = Elapsed: 2min 27sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/ SHELL WASH	21	
1	MED TO COARSE W/ COARSE	22	
2		23	
3		24	
4		25	
5	LT GREY SAND MEDIUM	26	
6		27	
7		28	
8		29	
9		30	
10	LT GREY SAND MEDIUM	31	
11		32	
12		33	
13		34	
14		35	
15	GREY SAND w/ TRACE SHELL	36	
16	WASH MEDIUM TO FINE	37	
17		38	
18	GREY SILT w/ TRACE SHELL	39	
19	WASH, TRACE FINE SAND	40	
20			

Comments: \_\_\_\_\_



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 70 Oak Street Norwood, New Jersey 07648  
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# CORE LOG

Job # \_\_\_\_\_

Core No. G-2 Run No. 1 Date: 27 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 552794.8 Northing 216371.3 Filename J

Geographic Position: Lat. 39° 25' 37.938" N Long. 74° 15' 55.386" W

<u>Water Depth</u>	<u>Vibration Time</u>	<u>Core Depth</u>	<u>Fix #</u>
Uncorrected: <u>38.0</u>	Stop: <u>1257</u>	Penetration: <u>19.89</u>	
Tide: <u>1.0</u>	Start: <u>1254</u>	Recovery: <u>0.0</u>	
= Corrected: <u>39.6</u>	= Elapsed: <u>2min 38sec</u>		

<u>Depth</u>	<u>Core Description</u>	<u>Depth</u>	<u>Core Description</u>
0			
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20		40	

WASHED OUT  
 RETAINER FAILURE  
 NOT ENOUGH  
 RECOVERY

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



ALPINE OCEAN SEISMIC SURVEY, INC.  
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 E-mail alpine@mail.idt.net

# CORE LOG

Job # \_\_\_\_\_

Core No. G-2 Run No. 2 Date: 27 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 558396.7 Northing 211372.8 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 25' 37.453" N Long. 74° 15' 55.361" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 39.0 Stop: 1311 Penetration: 19.49

Tide: 0.8 Start: 1307 Recovery: 11.2'

= Corrected: 38.2 = Elapsed: 3min 8sec

Depth	Core Description	Depth	Core Description
0	LT BROWN SAND w/ TRACE SHELL COARSE	21	
1		22	
2		23	
3		24	
4	COLOR CHANGE TO LT. GRAY	25	
5	LT. GRAY SAND w/ TRACE SHELL M-C	26	
6		27	
7		28	
8		29	
9		30	
10		31	
11.2	GREEN SILTY CLAY w/ SAND, SHELL MAT GRAVEL, COARSELY SORTED	32	
12	FINE TO COARSE	33	
13		34	
14		35	
15		36	
16		37	
17		38	
18		39	
19		40	
20			

Comments: W/IN RE C CONTAINER SILT LAYER LOST  
OFF BOTTOM



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# CORE LOG

Job # \_\_\_\_\_

Core No. G-2 Run No. 3 Date: 27 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 558420.1 Northing 7123740 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 25' 37.964" N Long. 74° 15' 55.063" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 38.0 Stop: 1337 Penetration: 19.89

Tide: 0.6 Start: 1336 Recovery: 0.0'

= Corrected: 37.4 = Elapsed: 1min 5sec TESTO: 10.34

Depth	Core Description	Depth	Core Description
0			
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20		40	

*WASHTO NOT ON OWN*

Comments: → SILT LAYER LOST, INVERTED F. F. 11.





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# CORE LOG

Job # \_\_\_\_\_

Core No. G-3 Run No. 1 Date: 27 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting E62075.0 Northing 7092541 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 24' 27.493" N Long. 74° 15' 08.730" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 41.5 Stop: 1123 Penetration: 19.89

Tide: 2.4 Start: 1119 Recovery: 19.7

= Corrected: 39.1 = Elapsed: 3min 50sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/ SHELL HASH MEDIUM		
1		21	
2		22	
3		23	
4		24	
5	GREY SAND w/ LITTLE SHELL HASH MEDIUM	25	
6		26	
7		27	
8		28	
9		29	
10	LT GREY SAND w/ SHELL MAT MEDIUM	30	
11		31	
12		32	
13	COLOR CHANGE - 150' TO GREEN GREY	33	
14		34	
15	GREEN/GREY SAND MED	35	
16		36	
17		37	
18		38	
19	GREEN/GREY SAND MED	39	
20		40	

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. 6-4 Run No. 1 Date: 27 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 558430.0 Northing 702409.6 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 23' 29.82" N Long. 74° 15' 55.36" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 42.0 Stop: 0959 Penetration: 18.63

Tide: 3.8 Start: 0956 Recovery: 20.0

= Corrected: 38.2 = Elapsed: 2 min 46 sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/ SOME SHELL FRAGMENTS MEDIUM		
1		21	
2		22	
3		23	
4		24	
5	GREY SILT w/ SOME SAND ROCKY & SOME COARSE	25	
6	COMPOSITION CHANGE	26	
7		27	
8		28	
9		29	
10	GREY SILT w/ SOME SHELL FRAGMENTS, TRACE FINE SAND	30	
11		31	
12		32	
13		33	
14		34	
15	GREY SILT w/ SOME SHELL FRAGMENTS, TRACE FINE SAND	35	
16		36	
17	TRACE CHANGE TO LIGHT BROWN	37	
18		38	
19		39	
20	YELLOW SAND. FINE	40	

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. 6-S Run No. 1 Date: 27AUG97 Area: Atlantic City NJ

Grid Position: Easting 5541345 Northing 707070.7 Filename \_\_\_\_\_

Geographic Position: Lat. 39°24'06.15"N Long. 74°16'49.97"W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 39.8 Stop: 1050 Penetration: 19.47

Tide: 3.1 Start: 1044 Recovery: 70.0

= Corrected: 36.7 = Elapsed: 5min 7sec

Depth	Core Description	Depth	Core Description
0	LT GREY SAND, SHELL MAT.		
1	FOOTING SAMPLE, COARSE TO V. COARSE	21	
2		22	
3		23	
4	COMP CHANGE, LITTLE SHELL	24	
5	LT. GREY SAND w/TRACE SHELL	25	
6	MED TO COARSE	26	
7		27	
8		28	
9		29	
10	LT GREY SAND w/SOME SHELL	30	
11	MATERIAL, MEDIUM	31	
12		32	
13	COLOR CHANGE TO GREY, COMP	33	
14	CHANGE TO SILTY MAF	34	
15	GREY SILTY SAND w/TRACE SHELL	35	
16	FINE TO MED	36	
17		37	
18		38	
19		39	
20	GREY GRAVEL w/SILT SAND, MED	40	

~35

~13.0

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. G-6 Run No. 1 Date: 27 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 55286.7 Northing 198485.3 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 22' 41.284" N Long. 74° 17' 06.448" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 44.5 Stop: 0924 Penetration: 19.86

Tide: 4.1 Start: 0922 Recovery: 19.4

= Corrected: 40.4 = Elapsed: 2min 4sec

Depth	Core Description	Depth	Core Description
0	GREY SAND/SHELL UP TO 1 FEET MEDIUM	21	
1		22	
2		23	
3		24	
4	COLOR CHANGE TO D. GREY	25	
5	D. GREY SILTY SAND W/ FINE SHELL FINE	26	
6		27	
7		28	
8		29	
9		30	
10	D. GREY SAND/CLAY MEDIUM	31	
11		32	
12	COLOR CHANGE TO LT. BROWN	33	
13		34	
14		35	
15	LT. BROWN SAND W/ FINE FINE GRAVEL MEDIUM	36	
16		37	
17		38	
18		39	
19	LT. BROWN SAND W/ GRAVEL COARSE M/MED	40	
19.4			

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. G6A Run No. 1 Date: 27 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 545597.0 Northing 194346.1 Filename \_\_\_\_\_

Geographic Position: Lat. 39°22'00.532"N Long. 74°18'38.092"W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 39.5 Stop: 0852 Penetration: 19.58

Tide: 4.4 Start: 0848 Recovery: 20.0

= Corrected: 35.1 = Elapsed: 3min 32sec

Depth	Core Description	Depth	Core Description
0	D. GREY SAND w/ SOME SHELL MAT MED TO COARSE		
1		21	
2		22	
3		23	
4		24	
5	GREY SAND w/ TRACE SHELL MED TO COARSE	25	
6		26	
7	COARSE CLAYEY TO CLAYEY SAND?	27	
8		28	
9		29	
10	GREY SAND MEDIUM	30	
11		31	
12	COMP (MAYBE TO SILTY SAND?)	32	
13		33	
14		34	
15	GREY SILTY SAND w/ SHELL FRAGMENTS MODERATELY SORTED, MEDIUM	35	
16		36	
17		37	
18	COARSE (MAYBE TO M. FINE?)	38	
19		39	
20	M. (Silty) SAND MEDIUM	40	

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. 6-7 Run No. 1 Date: 27 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 536397.5 Northing 189220.2 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 21' 10.039" N Long. 74° 20' 36.342" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 34.5' Stop: 0738 Penetration: 19.89

Tide: 4.1 Start: 0734 Recovery: 19.7

= Corrected: 30.4 = Elapsed: 3min 53sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/SOME SHELL FRAGMENTS, MEDIUM	21	
1		22	
2		23	
3		24	
4		25	
5	GREY SAND w/LITTLE SHELL FINE	26	
6		27	
7		28	
8		29	
9		30	
10	D GREY, CLAY w/TRACE SAND FINE	31	
11		32	
12		33	
13		34	
14		35	
15	GREY SAND MEDIUM	36	
16		37	
17		38	
18		39	
19		40	
20	GREY SAND w/LITTLE SHELL MEDIUM w/ FINE		

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. 6-8 Run No. 1 Date: 27 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 545844.7 Northing 187283.9 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 20' 50.72" N Long. 74° 18' 26.17" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 41.5 Stop: 0819 Penetration: 18.21

Tide: 4.4 Start: 0813 Recovery: 20.0

= Corrected: 37.1 = Elapsed: 5min 27sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/ SHELL FRAG & FINE COARSE	21	
1		22	
2		23	
3		24	
4	GREY SAND, TRACE SHELL FRAG	25	
5	COARSE	26	
-6.0' 6	COMP CHANGE TO MED SAND?	27	
7		28	
8		29	
9		30	
10	GREY SAND w/ SHELL FRAG COARSE TO MED	31	
11		32	
12		33	
13		34	
14		35	
15	GREY SAND w/ TRACE SHELL MED	36	
16		37	
17		38	
18		39	
19		40	
20	GREY SAND w/ CLAY MED TO FINE		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. C-11 Run No. 1 Date: 28 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 670526.2 Northing 311358.1 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 41' 14.420" N Long. 74° 02' 37.393" W

<u>Water Depth</u>	<u>Vibration Time</u>	<u>Core Depth</u>	<u>Fix #</u>
Uncorrected: <u>52.8</u>	Stop: <u>1100</u>	Penetration: <u>18.54</u>	
Tide: <u>1.0</u>	Start: <u>1055</u>	Recovery: <u>19.2</u>	
= Corrected: <u>51.8</u>	= Elapsed: <u>5min 23sec</u>		

Depth	Core Description	Depth	Core Description
0	LT. GRAY/WH. FINE SAND w/ shell fragments, coarse calc. particles	21	
1		22	
2		23	
3		24	
4		25	
5	LT. GRAY SAND/SOME SILT WELL SORTED, COARSE	26	
6		27	
7		28	
8		29	
9		30	
10	LT. GRAY SAND w/ coarse shell fragments, well sorted, well sorted	31	
11		32	
12		33	
13		34	
14		35	
15	LT. GRAY SAND w/ coarse shell fragments, well sorted, well sorted	36	
16	fine	37	
17		38	
18		39	
19.2	LT. GRAY SAND w/ shell fragments, coarse sorted	40	
20			

Comments: \_\_\_\_\_





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# CORE LOG

Job # \_\_\_\_\_

Core No. C-13 Run No. 1 Date: 28 AUG 97 Area: Atlantic City

Grid Position: Easting 617435.2 Northing 798483.7 Filename \_\_\_\_\_

Geographic Position: Lat. 39°39' 07.569 Long. 74°04' 21.677 W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 51.5 Stop: 1006 Penetration: 15.19

Tide: 0.8 Start: 1002 Recovery: 10.0

= Corrected: 51.7 = Elapsed: 4 min 2 sec

Depth	Core Description	Depth	Core Description
0	(T. Brown) SAND w/ GRAVEL, SHELL		
1	COARSE	21	
2		22	
3		23	
4	COMP. CHANGE TO CLAY	24	
5	COARSE (CLAY w/ SAND & SHELL FRAG.)	25	
6	MEDIUM	26	
7		27	
8	COMP CHANGE TO SAND	28	
9		29	
10	D. GRIT SAND w/ GRAVEL, SHELL MAT	30	
11	V. COARSE	31	
12		32	
13		33	
14		34	
15	SAND V. COARSE	35	
16	TO COARSE	36	
17		37	
18		38	
19	SAND V. COARSE TO	39	
20	COARSE	40	

Comments: CLAY LAYER FROM ~4.5' TO 9.0' COULD CAUSE



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# CORE LOG

Job # \_\_\_\_\_

Core No. C-15 Run No. 1 Date: 28 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 6014096.1 Northing 314841.5 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 41' 49.164" N Long. 74° 03' 59.435" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 530 Stop: 1137 Penetration: 19.72

Tide: 1.1 Start: 1132 Recovery: 19.4

= Corrected: 51.9 = Elapsed: 4min 39sec

Depth	Core Description	Depth	Core Description
0	GREEN CLAY & SILT (DOK CLAY)		
1	w/ SOME FINE SAND, TRACE SHELL	21	
2		22	
3		23	
4		24	
5	GREEN SANDY CLAY w/ SILT	25	
	COARSE SAND, TRACE SHELL	26	
6		27	
7		28	
8		29	
9		30	
10		31	
11	IT GREEN SAND w/ SHELL, MPT	32	
	PROKIN SORTED COARSE	33	
12		34	
13		35	
14		36	
15	IT GREEN SAND w/ SOME SHELL	37	
	HACH COARSE TO MED	38	
16		39	
17		40	
18			
19.4	GREEN SAND w/ CLAY & SHELL		
	HACH MEDIUM PROKIN SORTED		
20			

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. D-16 Run No. 1 Date: 27 AUG 97 Area: Atlantic City/Little Egg

Grid Position: Easting 1607282.8 Northing 2581038 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 37' 28.700"N Long. 74° 05' 29.905"W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 615 Stop: 1547 Penetration: 15.27

Tide: 0.5 Start: 1542 Recovery: 175

= Corrected: 610 = Elapsed: 5min 35s

Depth	Core Description	Depth	Core Description
0	LT. BLEN SAND w/ SHELL MAT, GRAVEL, COARSE TO MED		
1		21	
2.0	CLAY	22	
3		23	
4		24	
5	GRY CLAY - @ 5.1' COARSE SAND	25	
6		26	
7		27	
8		28	
9		29	
10	LT. BLEN / LT. BROWN SAND w/ SHELL MATERIAL COARSE TO MED	30	
11		31	
12		32	
13		33	
14		34	
15	LT. BLEN / LT. BROWN SAND w/ FINE GRAVEL, V. COARSE	35	
16		36	
17	LT. BLEN SAND w/ GRAVEL & SHELL MAT, V. COARSE	37	
17.5		38	
19		39	
20		40	

Comments: OVERPENETRATED TO 20.0' & LOST 2.5' OFF BOTTOM.



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# CORE LOG

Job # \_\_\_\_\_

Core No. D18 Run No. 1 Date: 28 AUG 97 Area: Atlantic City

Grid Position: Easting 1621948.0 Northing 778795.0 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 35' 52.507" N Long. 74° 02' 21.342" W

<u>Water Depth</u>	<u>Vibration Time</u>	<u>Core Depth</u>	<u>Fix #</u>
Uncorrected: <u>61.5</u>	Stop: <u>0909</u>	Penetration: <u>18.01</u>	
Tide: <u>0.4</u>	Start: <u>0902</u>	Recovery: <u>20.0</u>	
= Corrected: <u>61.1</u>	= Elapsed: <u>6min 23sec</u>		

<u>Depth</u>	<u>Core Description</u>	<u>Depth</u>	<u>Core Description</u>
0	GREY CLAY		
1		21	
2		22	
3		23	
4		24	
5	GREY SAND W/ GRAVEL	25	
	POORLY SORTED, COARSE SAND	26	
6		27	
7		28	
8		29	
9		30	
10	GREY SAND W/ GRAVEL	31	
	POORLY SORTED, COARSE	32	
11		33	
12		34	
13		35	
14		36	
15	GREY SAND W/ SHELL FRAG, GRAVEL	37	
	POORLY SORTED, COARSE	38	
16		39	
17		40	
18			
19			
20	LT GREY SAND W/ GRAVEL, SHELL FRAG		
	MEL TO COARSE		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. E-20 Run No. 1 Date: 28 AUG 97 Area: Atlantic City NJ

Grid Position: Easting 1036015.2 Northing 371758.0 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 51' 10.547" N Long. 73° 59' 14.832" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 57.0 Stop: 1319 Penetration: 19.53

Tide: 0.4 Start: 1317 Recovery: 70.0

= Corrected: 56.6 = Elapsed: 1min58sec

Depth	Core Description	Depth	Core Description
0	GREY SAND w/ GRAPE, SHAL FRAG MEDIUM	21	
1		22	
2		23	
3		24	
4		25	
5	LT GREY SAND w/ SILT GRAPE COARSE w/ SOME MFC	26	
6		27	
7		28	
8		29	
9		30	
10	GREY SAND w/ SILT GRAPE SILT N. COARSE PROBABLY GRAPE	31	
11		32	
12		33	
13		34	
14		35	
15	GREY SAND w/ SOME GRAPE, SOME SILT, MFC, COARSE N. COARSE	36	
16		37	
17		38	
18		39	
19		40	
20	LT. GREY / BROWN SAND, MEDIUM, WELL SORTED		

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. E-22 Run No. 1 Date: 28 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 634932.7 Northing 385521.9 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 53' 26.639" N Long. 73° 59' 27.707" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 69.0 Stop: 1426 Penetration: 19.58

Tide: 0.3 Start: 1422 Recovery: 20.0

= Corrected: 68.7 = Elapsed: 3min 58sec

Depth	Core Description	Depth	Core Description
0	GREEN SAND (1/4" w/ GRAVEL FINE		
1		21	
2		22	
3		23	
4		24	
5	GREEN SAND (1/4" w/ GRAVEL COARSE	25	
6		26	
7		27	
8		28	
9		29	
10	GREEN SILTY SAND WITH TRACE GRAVEL FINE TO MEDIUM	30	
11		31	
12		32	
13		33	
14		34	
15	GREEN SILTY SAND FINE w/ TRACE OF COARSE	35	
16		36	
17		37	
18		38	
19		39	
20	GREEN SAND MEDIUM TO FINE, WELL SORTED	40	

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. E-24 Run No. 1 Date: 28 Aug 97 Area: Atlantic City NJ

Grid Position: Easting 1633429.6 Northing 415351.4 Filename \_\_\_\_\_

Geographic Position: Lat. 39°58'21.530"N Long. 73°59'41.830"W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 68.5 Stop: 1535 Penetration: 11.55

Tide: 0.2 Start: 1525 Recovery: 9.7

= Corrected: 68.3 = Elapsed: 9min 49sec

Depth	Core Description	Depth	Core Description
0	<u>gray SANDY CLAY w/ SILT</u>	21	
1	<u>SANDY CLAY</u>	22	
2		23	
3		24	
4		25	
5	<u>LT. BROWN SAND w/ SILT</u>	26	
6	<u>MEDIUM TO FINE</u>	27	
7		28	
8		29	
9		30	
10	<u>LT. BROWN SAND w/ SILT</u>	31	
11	<u>MEDIUM TO FINE</u>	32	
12		33	
13		34	
14		35	
15		36	
16		37	
17		38	
18		39	
19		40	
20			

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Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. 1-24 Run No. 2 Date: 28 AUG 99 Area: Atlantic City, NJ

Grid Position: Easting 633412.3 Northing 415354.4 Filename \_\_\_\_\_

Geographic Position: Lat. 39°58' 21.56"N Long. 73°59' 45.052"W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 68.0 Stop: 1820 Penetration: 19.54

Tide: 0.3 Start: 1814 Recovery: 15.9

= Corrected: 67.7 = Elapsed: 5min 20sec JETTO: 8.45

Depth	Core Description	Depth	Core Description
0			
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20		40	

8.45

JET

13.45  
 13. BROWN SAND, WELL SORTED  
 FINE TO MED

13.45  
 13. BROWN SAND W/ GRASS LUMEN  
 V. COARSE, WELL SORTED

18.45

18. BROWN SANDY CLAY  
 WELL SORTED FINE TO MED

19.45  
 20. BROWN SAND, CLAY, FINE TO MED

Comments: \_\_\_\_\_





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# CORE LOG

Job # \_\_\_\_\_

Core No. E-210 Run No. 1 Date: 28 AUG 97 Area: Atlantic City 115

Grid Position: Easting 635737.1 Northing 281420.9 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 52' 46.091" N Long. 73° 59' 24.102" W

<u>Water Depth</u>	<u>Vibration Time</u>	<u>Core Depth</u>	<u>Fix #</u>
Uncorrected: <u>62.5</u>	Stop: <u>1351</u>	Penetration: <u>19.59</u>	
Tide: <u>0.3</u>	Start: <u>1354</u>	Recovery: <u>2.3</u>	
= Corrected: <u>62.2</u>	= Elapsed: <u>7min 59sec</u>		

Depth	Core Description	Depth	Core Description
0	GREY SAND SILT GRATE TRAP SHELL SAND COARSE GRAVEL W/ L ROUND	21	
1		22	
2		23	
3		24	
4		25	
5	GREY SAND SILT GRATE TRAP SHELL SAND COARSE GRAVEL W/ L ROUND	26	
6		27	
7		28	
8		29	
9		30	
10	GREY CLAY-DRY W/ FINE SAND SILT (L) COARSE SILT	31	
11		32	
12		33	
13		34	
14		35	
15	GREY SILTY SAND MEDIUM GRAIN	36	
16	CLAY	37	
17		38	
18		39	
19	GREY SILTY SAND MEDIUM GRAIN	40	
20	CLAY		

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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. F-27 Run No. 1 Date: 29 AUG 97 Area: Atlantic City, NJ

Grid Position: Easting 654003.8 Northing 422607.6 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 59' 32.009" N Long. 73° 55' 19.946" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 62.0 Stop: 0804 Penetration: 19.72

Tide: 0.0 Start: 0801 Recovery: 14.0

= Corrected: 62.0 = Elapsed: 3 min 19 sec

Depth	Core Description	Depth	Core Description
0	LT. GRAY SAND w/ TRACE GRAVEL TRACE SHELL, WITH SOME MEDIUM		
1		21	
2		22	
3		23	
4		24	
5	LT. GRAY SAND, WITH SOME MED. COARSE, TRACE SHELL	25	
6		26	
7		27	
8		28	
9		29	
10	LT. GRAY SAND w/ TRACE GRAVEL TRACE SHELL, WITH SOME MEDIUM	30	
11		31	
12		32	
13		33	
14.0	LT. GRAY GRAVELY COARSE SAND COARSE SILT, COARSE GRAVEL, M. SHELL	34	
15	LT. GRAY SAND, WITH SOME MEDIUM GRAVEL	35	
16		36	
17		37	
18		38	
19		39	
20		40	

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. f-27 Run No. 2 Date: 29 AUG 97 Area: Atlantic (G) NJ

Grid Position: Easting 654004.2 Northing 422594.4 Filename \_\_\_\_\_

Geographic Position: Lat. 39° 59' 31.878" N Long. 73° 55' 19.942" W

Water Depth                      Vibration Time                      Core Depth      Fix #

Uncorrected: 61.0                      Stop: 0840                      Penetration: 19.81

Tide: 0.1                      Start: 0837                      Recovery: 5.7'

= Corrected: 60.9                      = Elapsed: 3min 4sec                      JET TO: 13.53

<u>Depth</u>	<u>Core Description</u>	<u>Depth</u>	<u>Core Description</u>
0			
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14	TRAP (GRAVEL) SAND w/ SOME GRVEL COARSE	34	
15		35	
16		36	
17		37	
18	TRAP SILTY SAND w/ FINE GRVEL	38	
19	TRAP SILTY SAND w/ GRVEL	39	
20	TRAP SAND, COARSE	40	

13.53

14.53

19.2

Comments: \_\_\_\_\_



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# CORE LOG

Job # \_\_\_\_\_

Core No. F-28 Run No. 1 Date: 29 Aug 97 Area: Atlantic City, NJ

Grid Position: Easting 652039.2 Northing 4136569.3 Filename C

Geographic Position: Lat. 40° 01' 50.115" N Long. 73° 55' 44.039" W

Water Depth \_\_\_\_\_ Vibration Time \_\_\_\_\_ Core Depth \_\_\_\_\_ Fix # \_\_\_\_\_

Uncorrected: 58.0 Stop: 0715 Penetration: 19.32

Tide: 0.0 Start: 0711 Recovery: 18.0

= Corrected: 58.0 = Elapsed: 4min 17sec

Depth	Core Description	Depth	Core Description
0	LT GREY SAND w/ SOME FINE SHEL, SHEL. COARSE & MED	21	
1		22	
2		23	
3		24	
4		25	
5	LT GRAY/WH BROWN SAND w/ SOME SHEL, SHEL COARSE	26	
6		27	
7		28	
8	TOPPY MUDS TO FINE SAND	29	
9		30	
10	LT GREY SAND WELL SORTED COARSE	31	
11		32	
12	GRAVELLY SAND COARSE TO MEDIUM	33	
13		34	
14		35	
15	LT BROWN SAND w/ SHEL COARSE	36	
16		37	
17		38	
18	LT GRAY SAND w/ SOME SHEL, COARSE TO MEDIUM	39	
19		40	
20			

Comments: LOG - 1' OFF BOTTOM