



BUILDING A BETTER WORLD

TECHNICAL MEMORANDUM

TO: *Lance Hauer, G.E.*

DATE: *November 26, 2013*

FROM: *Jason Cumbers, PE and Clint Strachan, PE*

SUBJECT: *ConeTec CPT Interpretations - UNC Tailings Storage Facility*

This memorandum transmits the ConeTec plots for the 32 cone penetrometer test (CPT) completed through November 10, 2013 at the UNC tailings impoundment and presents a brief summary of the observations from impoundment tailings auger borings 1, 2 and 3. The auger boring and CPT locations are shown on the attached figure.

The ConeTec plots are a preliminary interpretation of the CPT test results, based on standard correlations. As outlined in MWH's work plan, the CPT investigation is the first phase of tailings and foundation material characterization. The supplemental investigation includes drilling and tailings sampling at selected CPT locations and laboratory testing of selected samples from the drilling program. MWH will be using the borehole samples and laboratory test data to refine the interpretation of the CPT results and profiles. Therefore, information presented in the ConeTec plots with regard to material types and properties for this site should be considered preliminary until the drilling, sampling and laboratory testing program is complete.

As described in the previous MWH memo (November 11, 2013), the CPT results thus far present relative information, and include a series of three different sets of profile plots: (1) frictional properties of the material including the friction ratio, (2) resistivity of the materials along with the tip and sleeve resistances, and (3) shear wave velocities, along with the tip and sleeve resistances. In addition to the profile characteristics, plots for the static pore pressure dissipation tests are included with the data. These tests were conducted at selected depths within some of the CPT holes. Actual material characteristics and water content will be determined after completion of material sampling and laboratory testing.

Tailings Impoundment Borings

The attached table (Table 1) summarizes the current drilling and sampling program. Tailings impoundment auger borings 1, 2, and 3 have been completed. The initial visual classifications from these boreholes indicate that softer layers identified in the CPT profiles (low resistivity and low resistance), i.e. below 26 feet at CPT-2 and below 39 feet at CPT-1, are within the alluvium underlying the impoundment, at the locations drilled. Generally, coarser-grained tailings were encountered at boring locations 1 and 2, with the depth of tailings and fill (total impoundment thickness) extending to about 35 feet at boring 1 and about 15 feet at boring 2. Fine-grained sand tailings were encountered below 30 feet at boring 1 and between about 12 and 13 feet at boring 2.

The boring at location 3 was performed through the embankment and encountered about 17 feet of sand or gravelly sand, overlying silty clay to about 47 feet. The silty clay is likely the starter dam. Alluvium was encountered below the dam and extended to the explored depth of

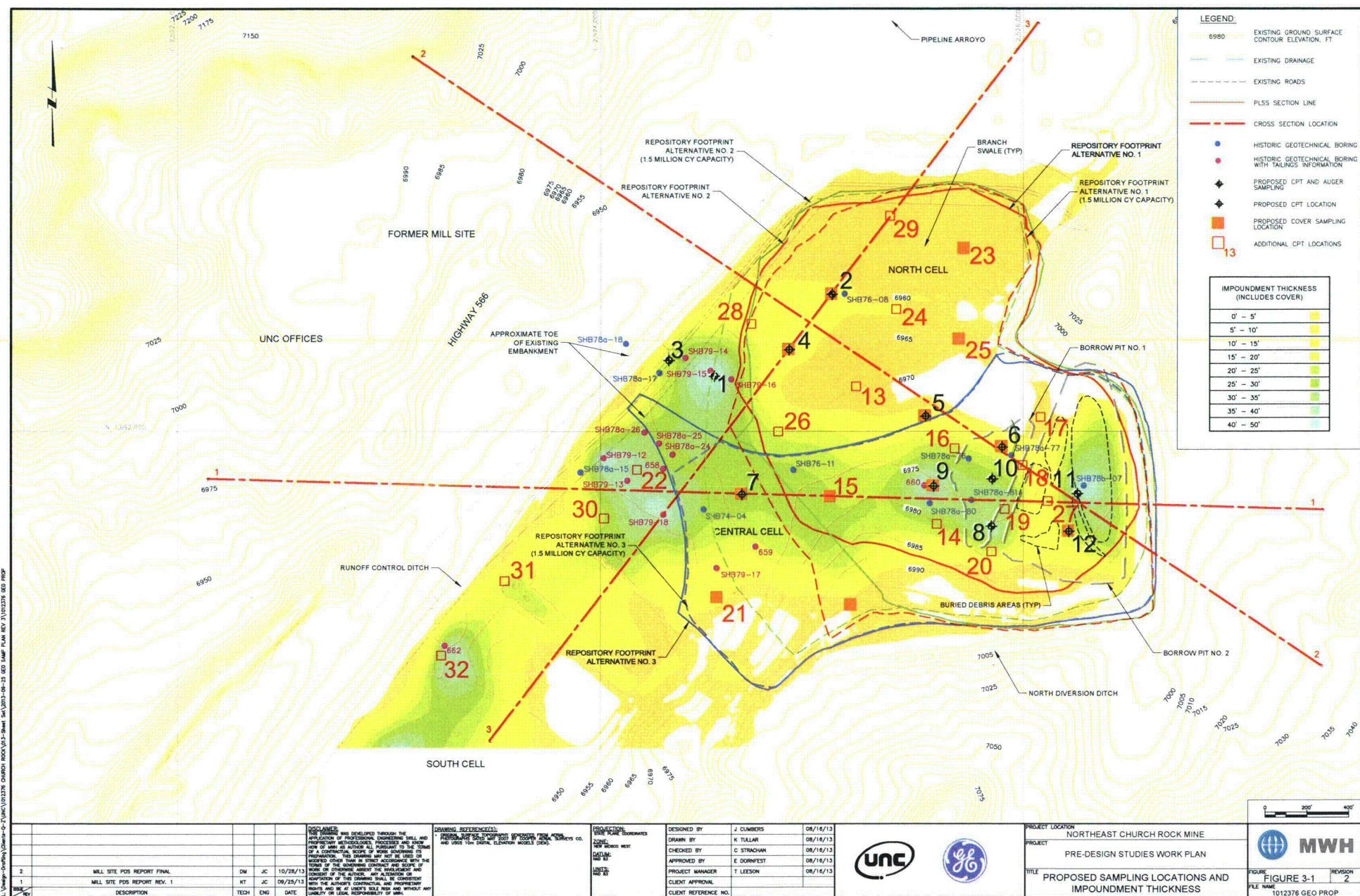
the borehole at 70 feet. The alluvium at location 3 includes interlayered sands and clays. The laboratory testing will provide further information on the materials, including grain-size and moisture contents.

Based on the CPT results and current auger drilling results, the plan is to implement the following changes to the drilling program:

- Drilling a borehole at CPT location 15 to evaluate conditions in the middle of the central cell;
- Drilling a borehole at CPT location 23 in the north cell to evaluate conditions in the northern portion of the north cell; and
- Eliminating borehole location 8, based on the CPT plots of conditions at location 8, which are very similar to conditions observed at location 10, where a soil boring is planned.

These changes to the drilling program will be further evaluated based on the results of the next two completed boreholes (10 and 11).

FIGURE



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TABLE

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Table 1
Church Rock
Tailings Impoundment Drilling and Sampling

Estimated Profile (based on CPT):	Location:	Dam	North Cell	North Cell	Borrow Pit 1	Borrow Pit 2	Central Cell	Borrow Pit 1	North Cell
	Original Map Name:	3	2	1	10	11	15*	8*	23
	Sample Location Name:	TI-B-03	TI-B-02	TI-B-01	TI-B-10	TI-B-11	TI-B-15	TI-B-08	TI-B-23
	Drill Order:	1	2	3	4	5	6	7	8
	Projected Date:	19-Nov	20-Nov	21-Nov	25-Nov	2-Dec	3-Dec	4-Dec	5-Dec
	Embankment:	47	-	-	-	-	-	-	-
	Cover/Fill/Coarse Tailings	-	15	30	18	42	25	25	13
	Fine Tailings	-	-	-	25	12	7	20	-
	Alluvium	23	18	40	17	33	22	13	31
	Sandstone 3		6		20	?	?	20	2
Sandstone 2				?		3	?	?	
Sandstone 1					20				

ATTACHMENT
CONETEC CPT INFORMATION

CPT PLOTS

With Non-Normalized SBT Classifications





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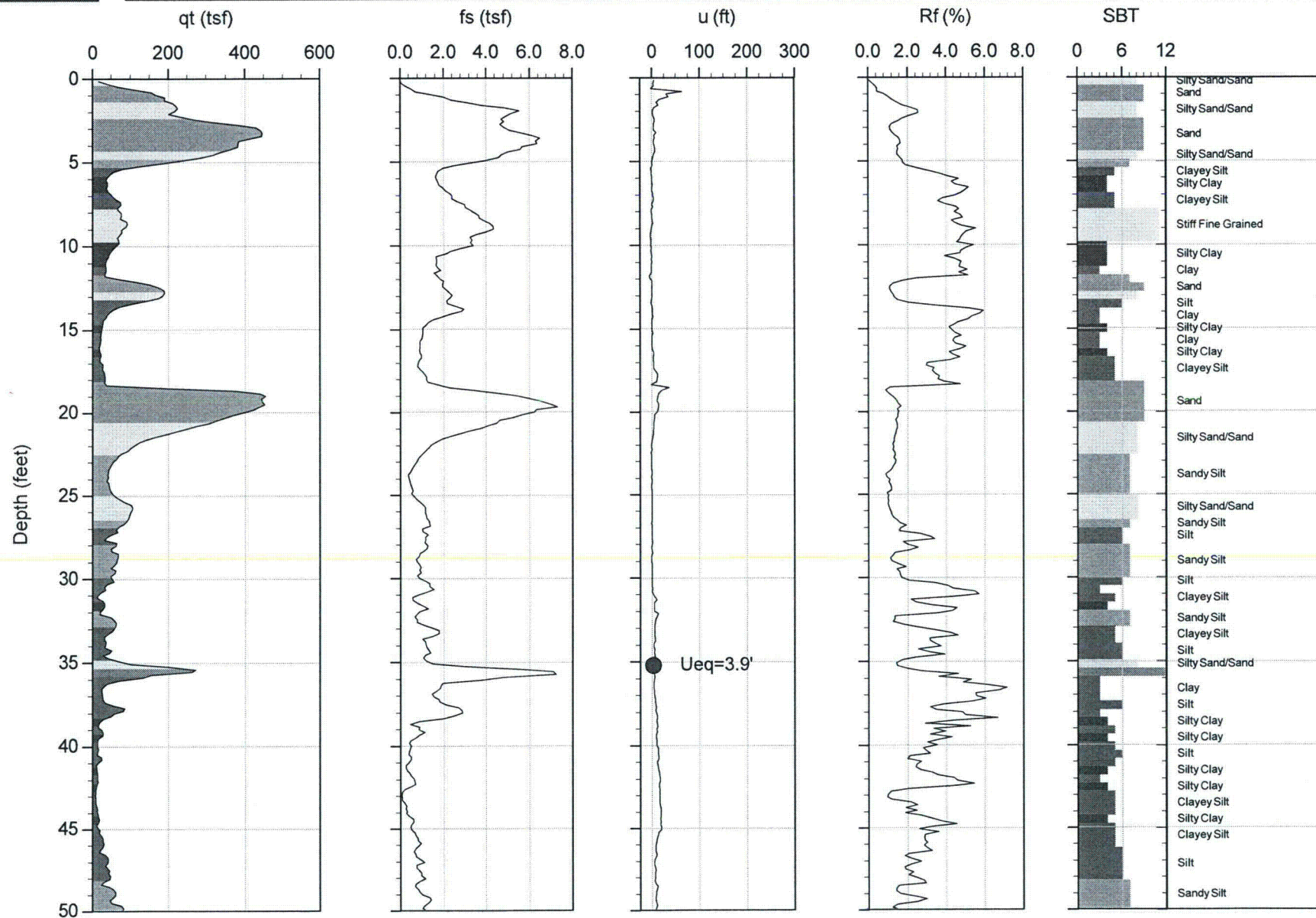
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Date: 11:07:13 15:36

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-01

Cone: 155:T1500F15U500



Max Depth: 26.950 m / 88.42 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP01.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649117 Long: -108.501667

● Equilibrium Pore Pressure from Dissipation



MWH Americas

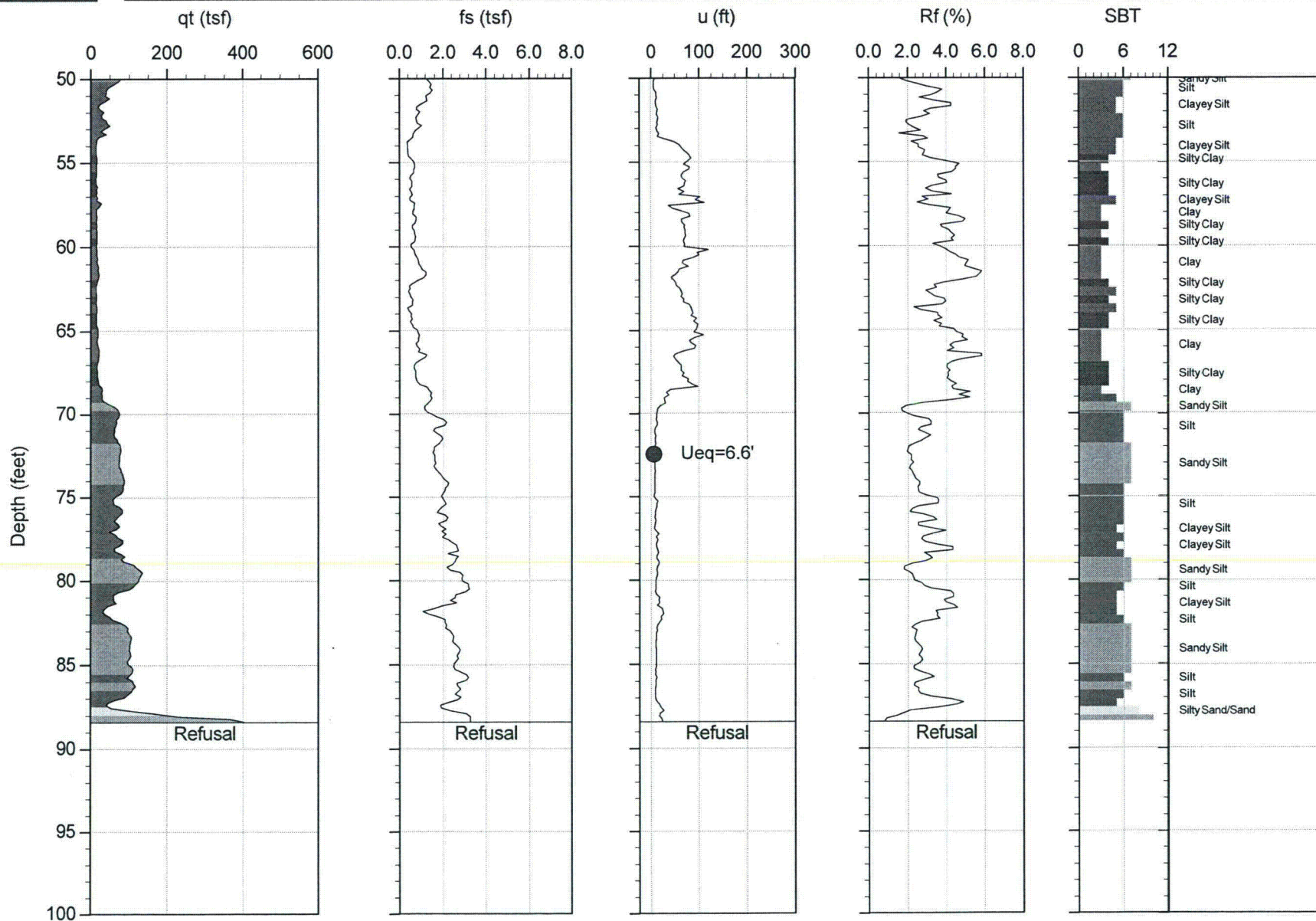
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Date: 11:07:13 15:36

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Sounding: RCPT-01

Cone: 155:T1500F15U500



Max Depth: 26.950 m / 88.42 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP01.COR
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SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation



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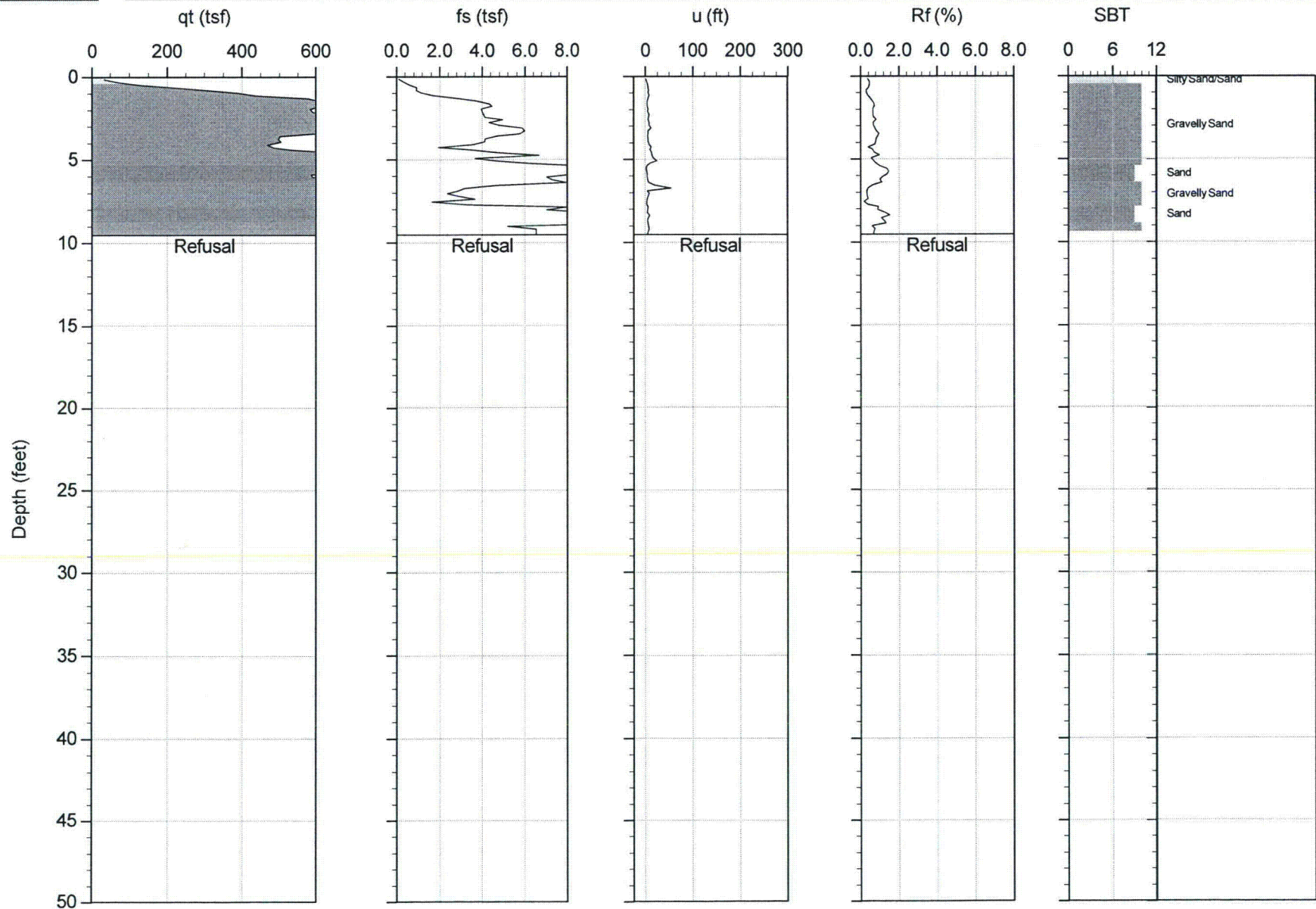
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-03

Cone: 155:T1500F15U500



Max Depth: 2.900 m / 9.51 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP03.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649350 Long: -108.502383
● Equilibrium Pore Pressure from Dissipation



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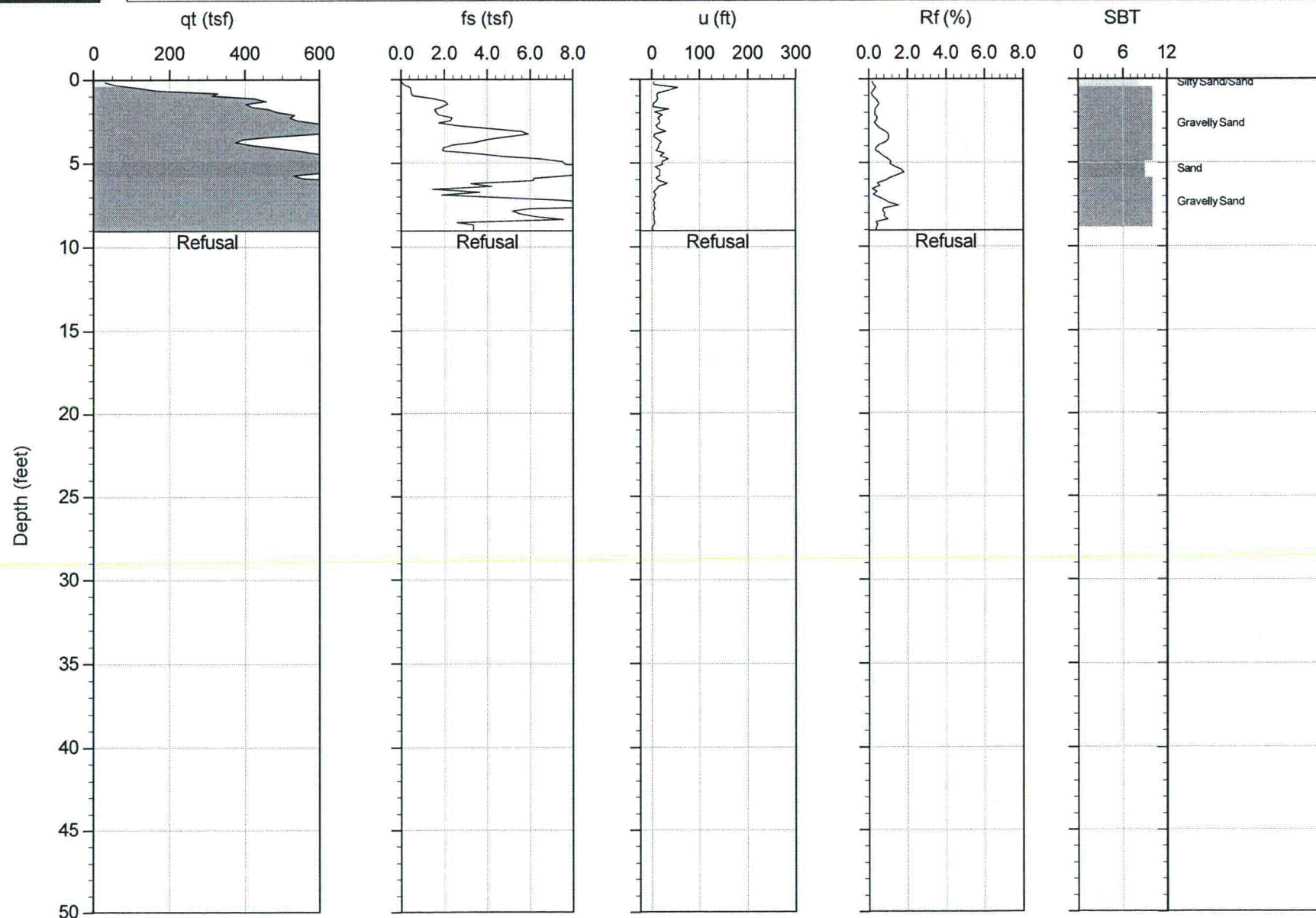
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-03B

Cone: 155:T1500F15U500



Max Depth: 2.750 m / 9.02 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP03B.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649333 Long: -108.502383
● Equilibrium Pore Pressure from Dissipation



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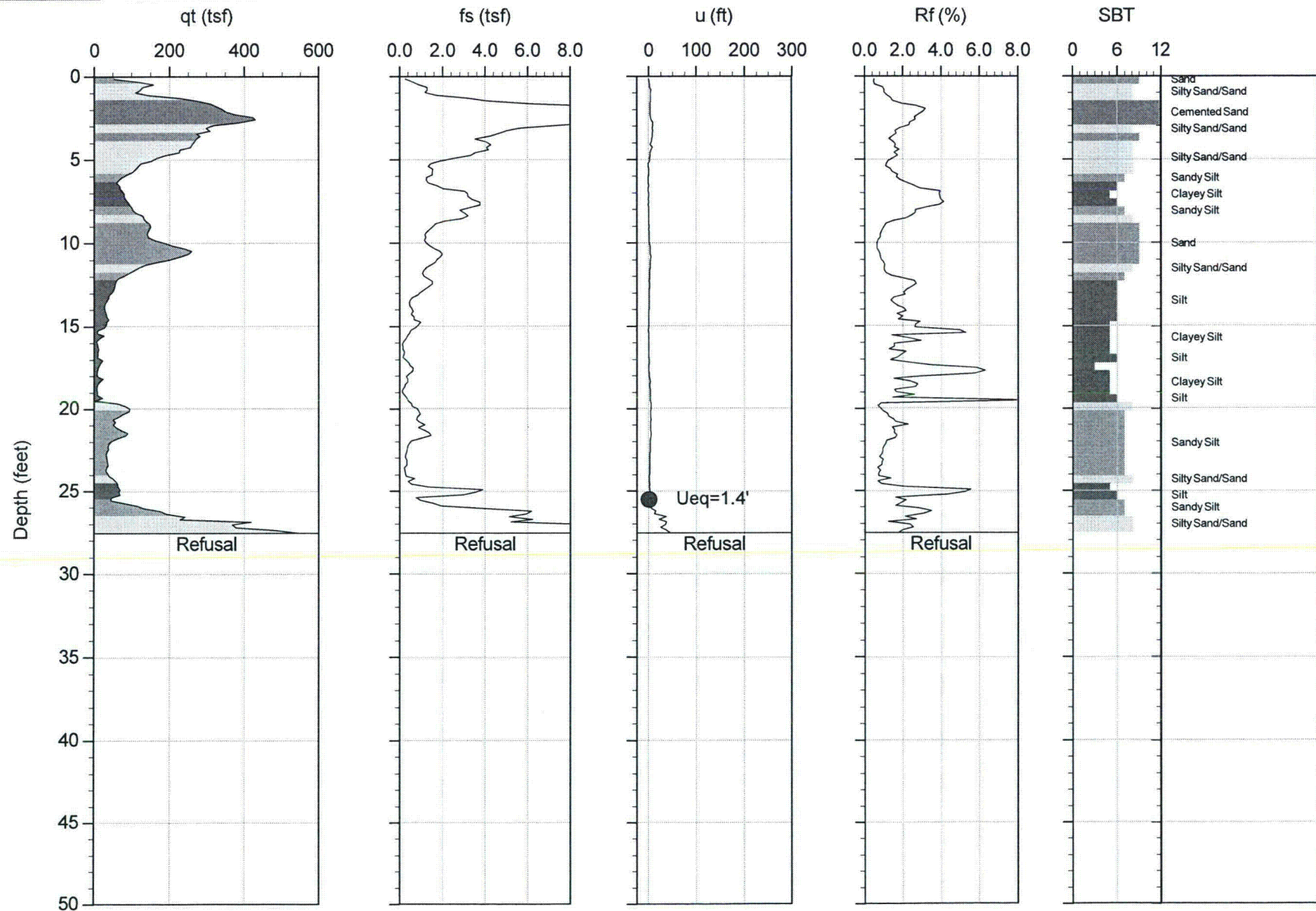
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-04

Cone: 155:T1500F15U500



Max Depth: 8.400 m / 27.56 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP04.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation



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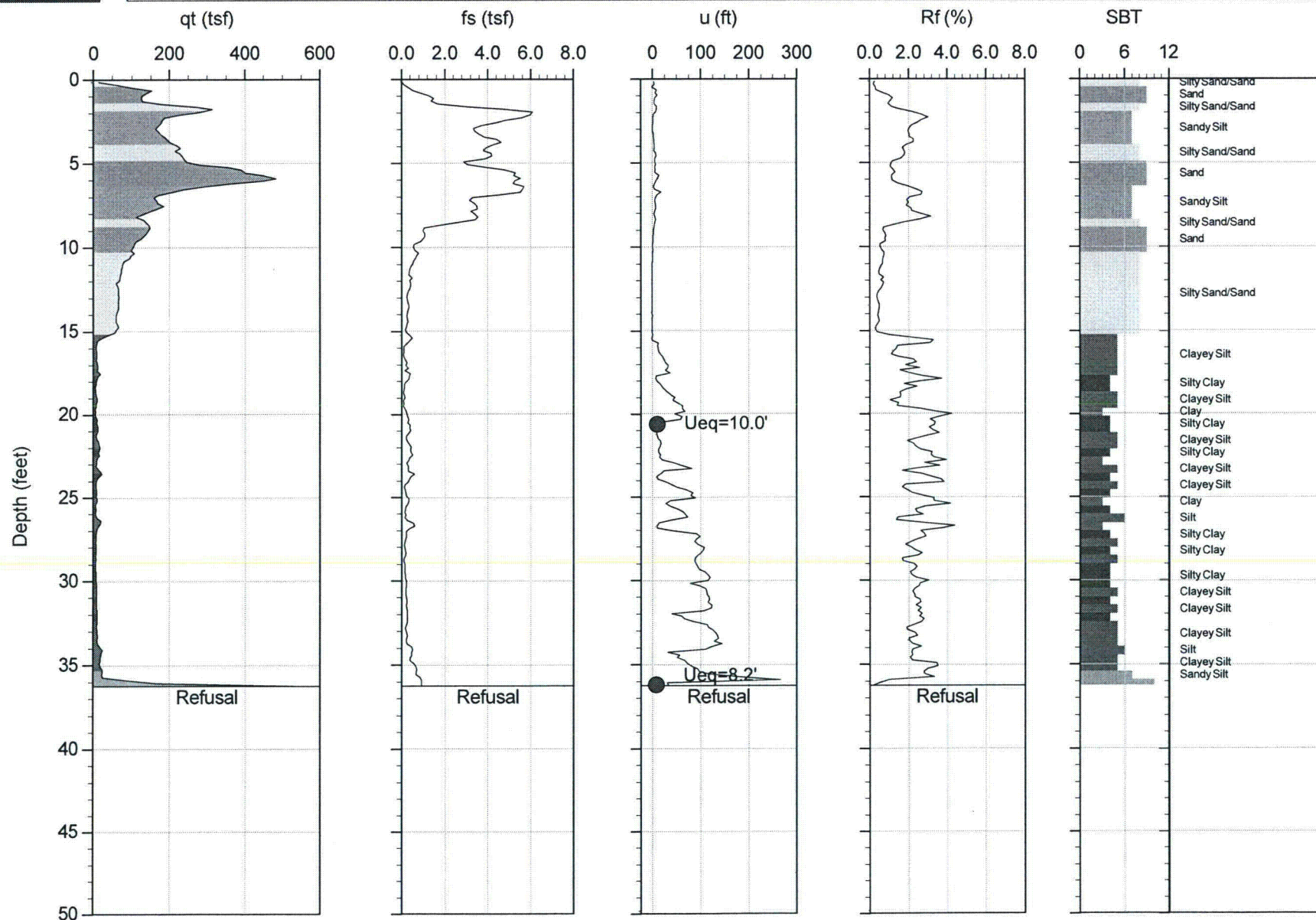
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-06

Cone: 155:T1500F15U500



Max Depth: 11.050 m / 36.25 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP06.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.648250 Long: -108.497050

● Equilibrium Pore Pressure from Dissipation

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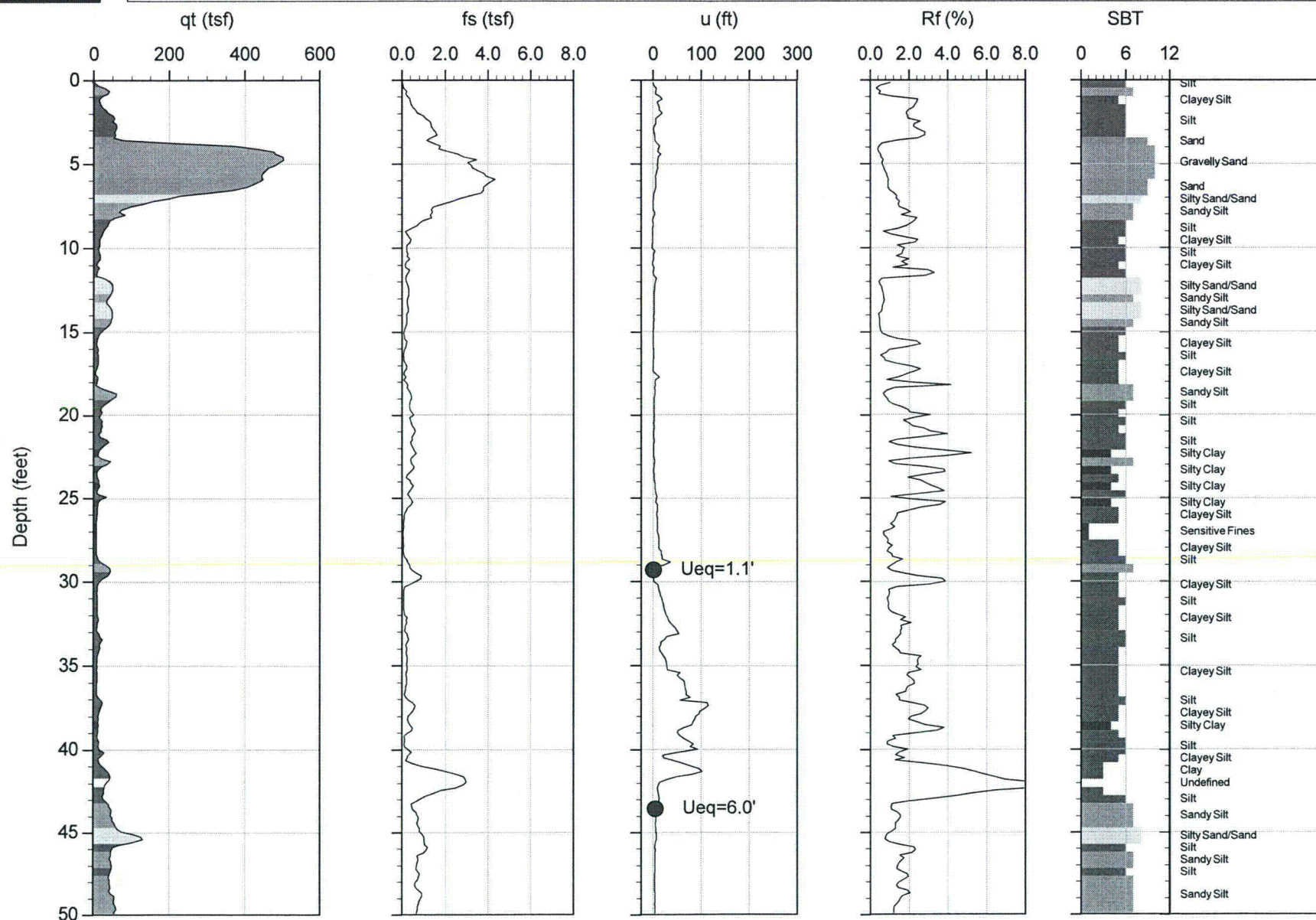
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-07

Cone: 155:T1500F15U500



CONEtec**MWH Americas**

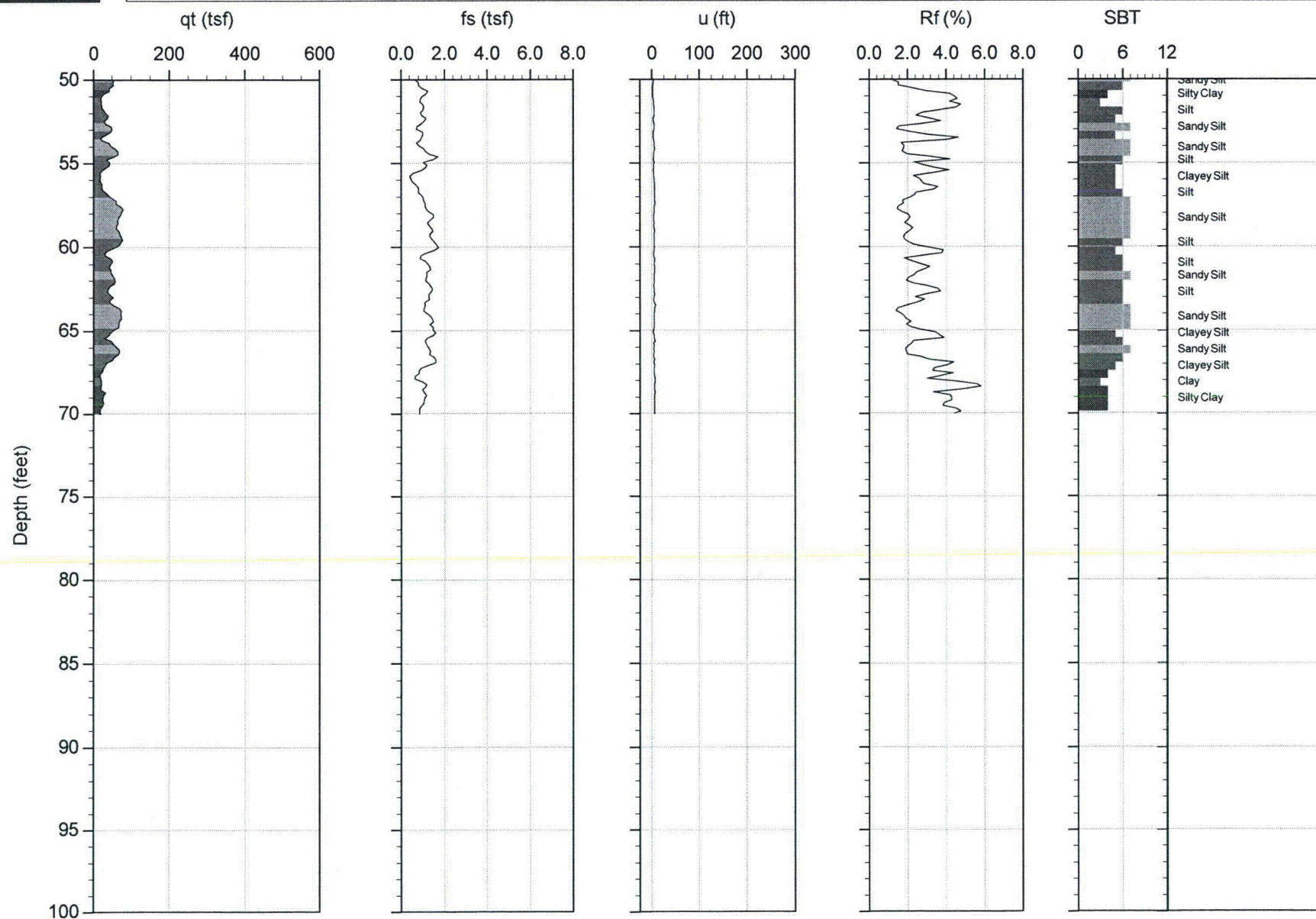
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-07

Cone: 155:T1500F15U500



Max Depth: 21.350 m / 70.05 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP07.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647600 Long: -108.501200

● Equilibrium Pore Pressure from Dissipation

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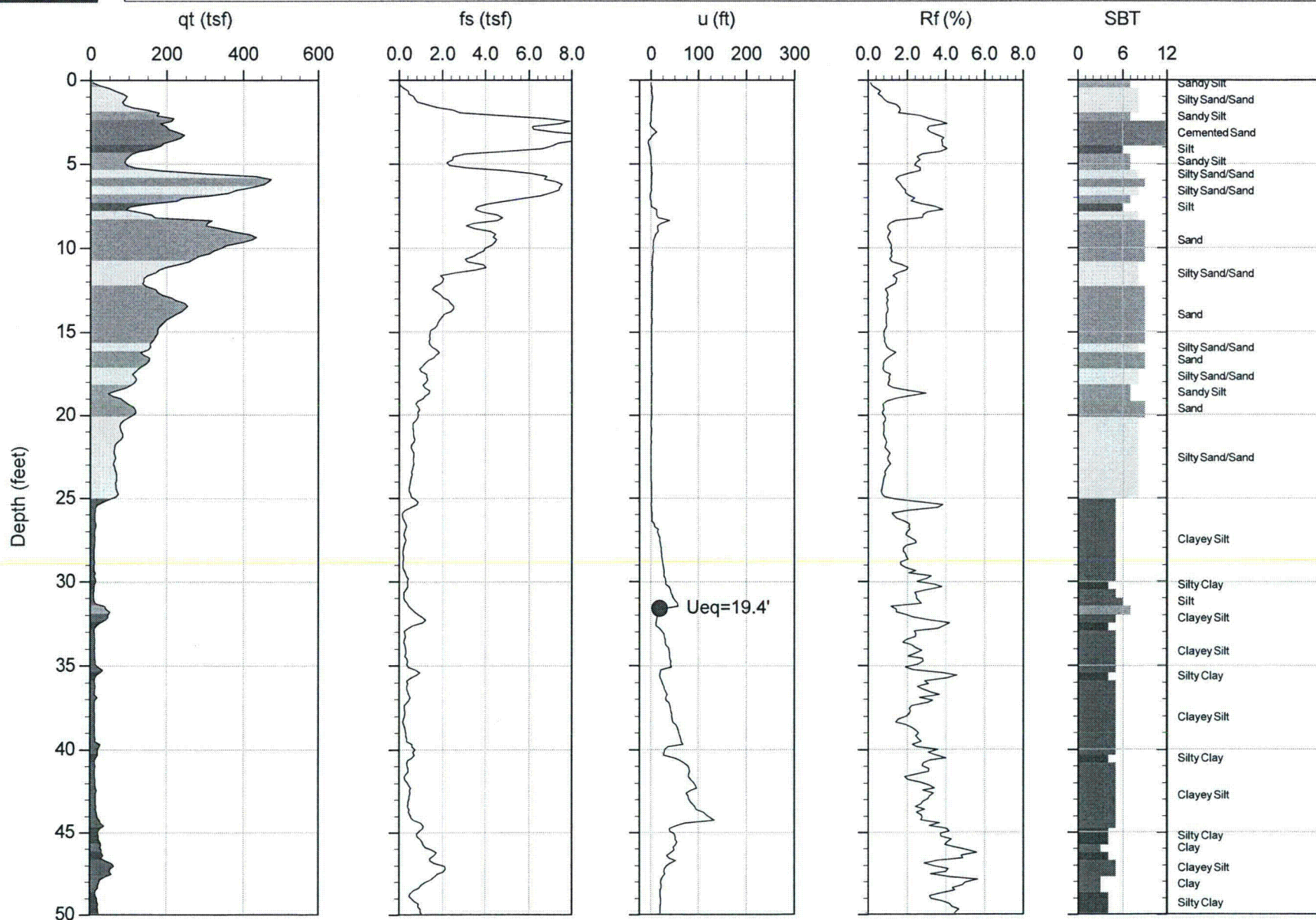
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-08

Cone: 155:T1500F15U500



Max Depth: 18.550 m / 60.86 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP08.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647250 Long: -108.497250

● Equilibrium Pore Pressure from Dissipation



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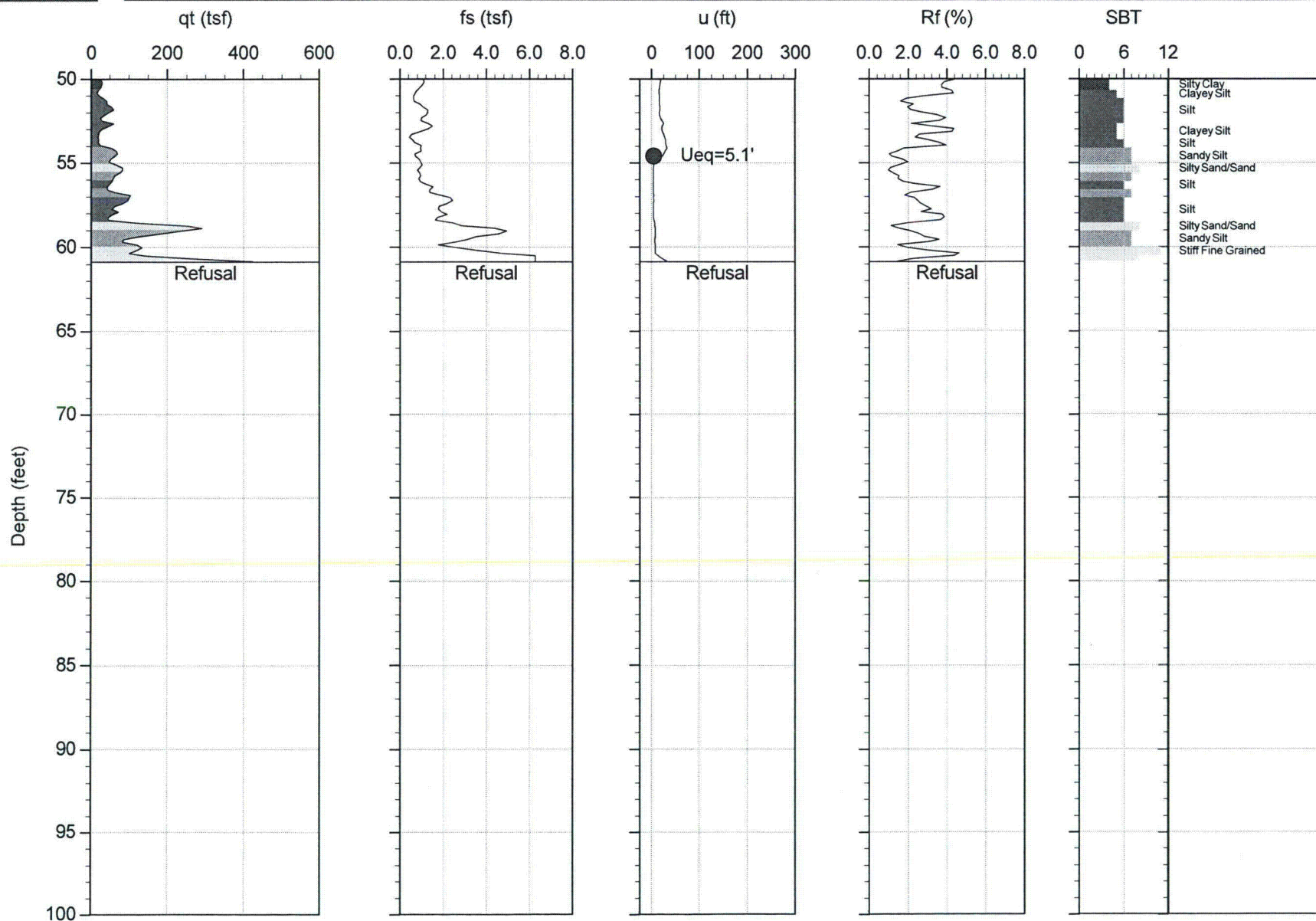
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Date: 11:07:13 08:21

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-08

Cone: 155:T1500F15U500



Max Depth: 18.550 m / 60.86 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP08.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647250 Long: -108.497250
● Equilibrium Pore Pressure from Dissipation

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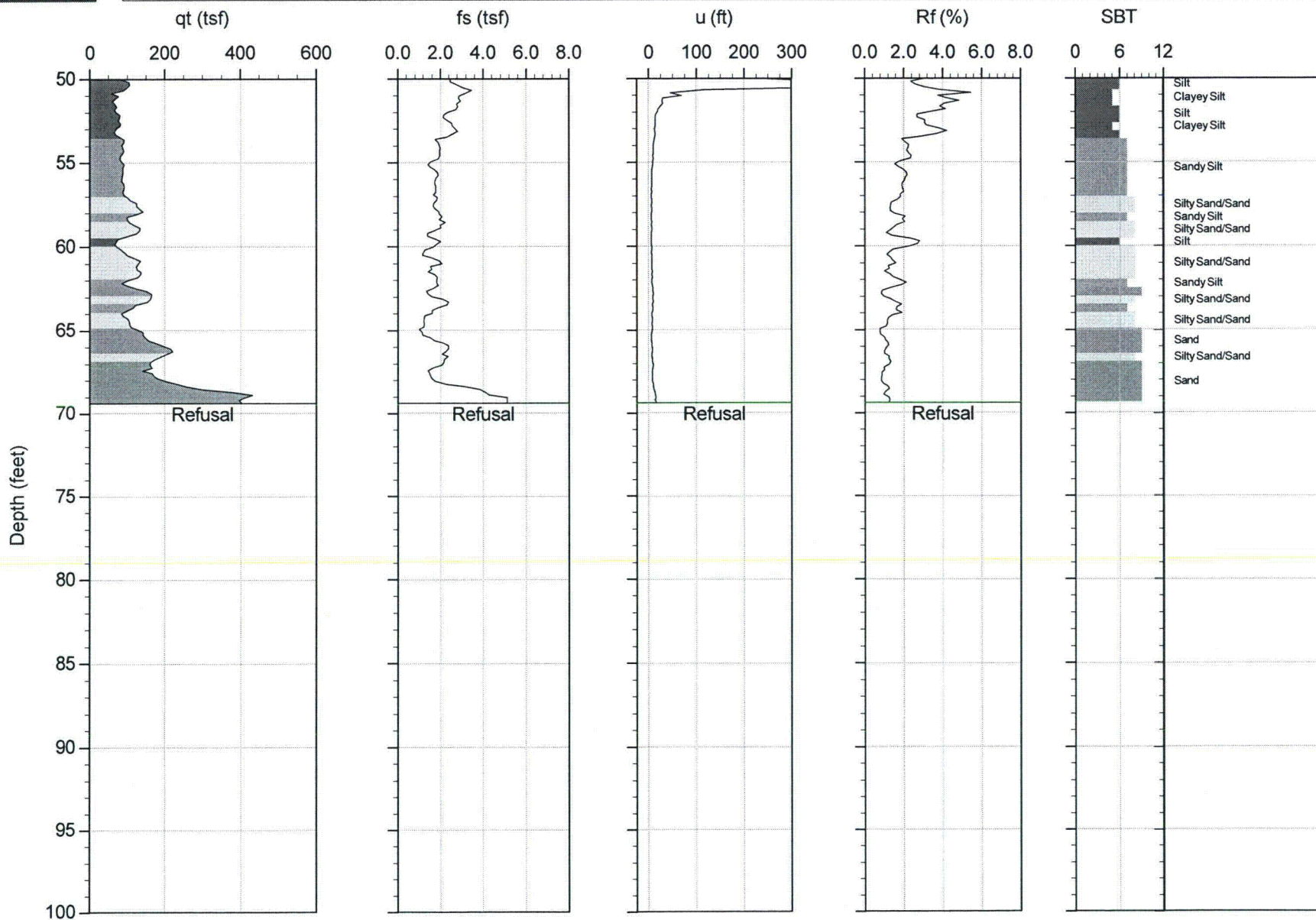
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Date: 11:06:13 14:52

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-09

Cone: 155:T1500F15U500



Max Depth: 21.150 m / 69.39 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP09.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647750 Long: -108.498150
● Equilibrium Pore Pressure from Dissipation



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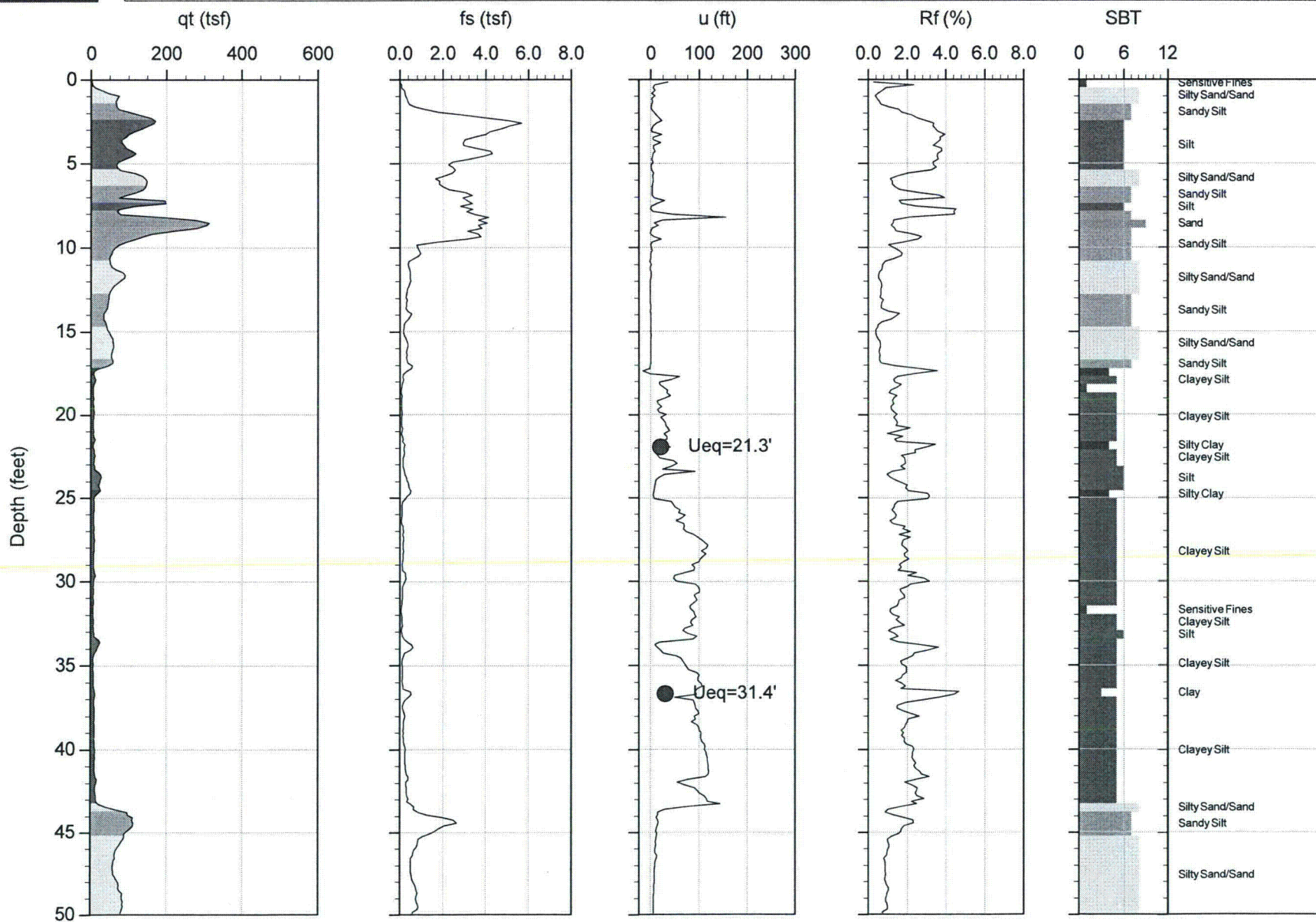
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-10

Cone: 155:T1500F15U500



Max Depth: 19.250 m / 63.16 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP10.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation

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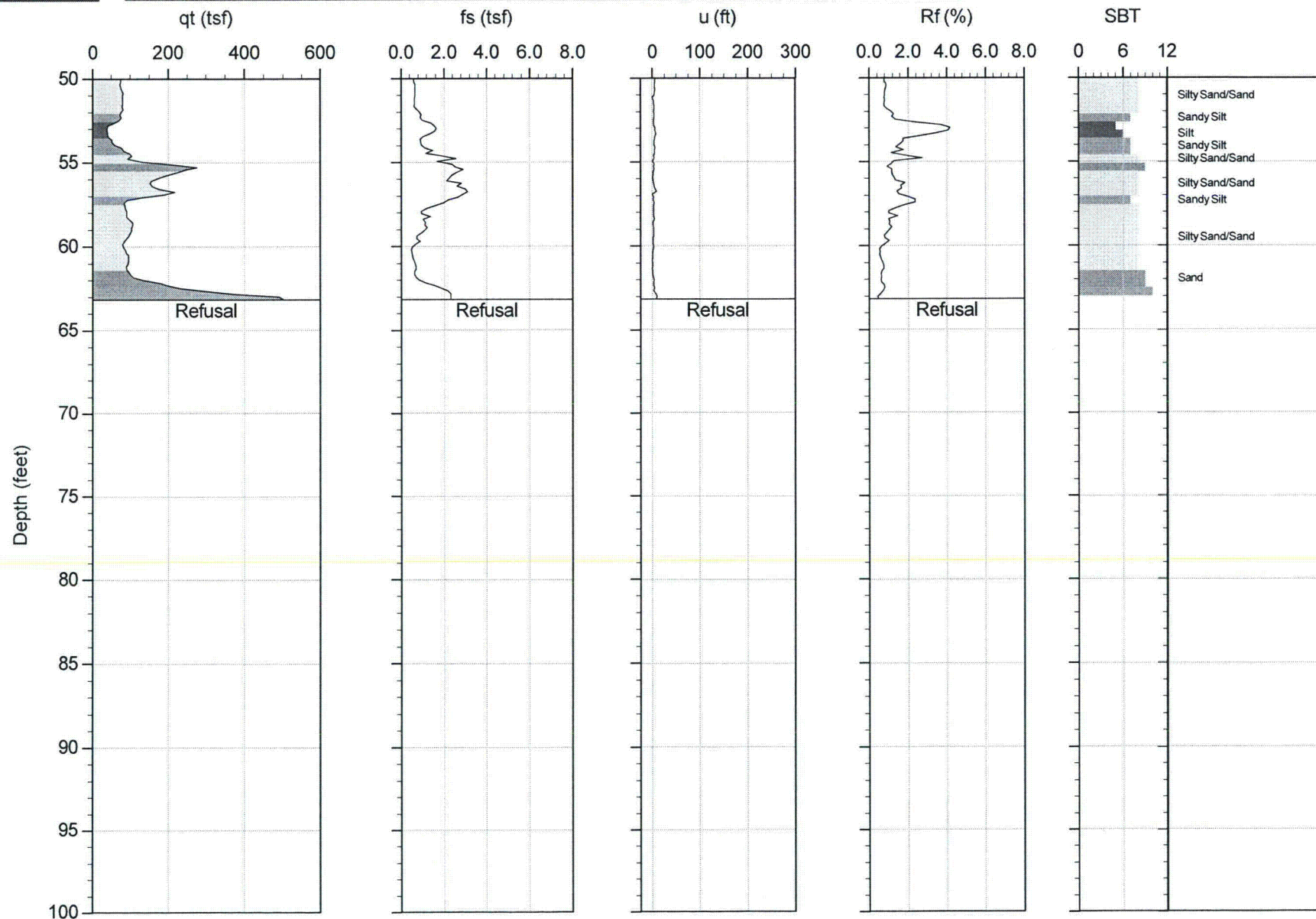
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-10

Cone: 155:T1500F15U500



Max Depth: 19.250 m / 63.16 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP10.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647833 Long: -108.497217

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

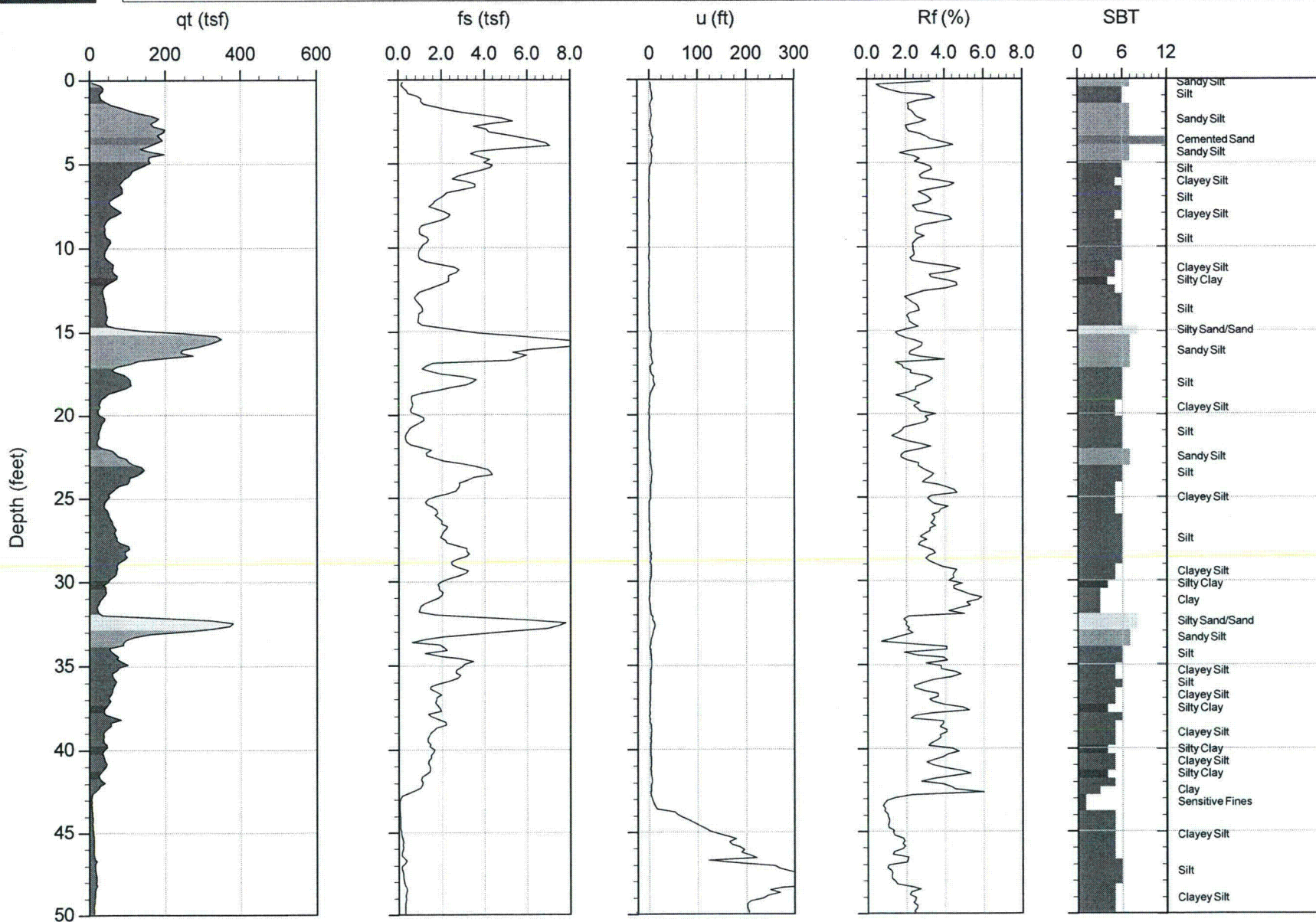
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-11

Cone: 155:T1500F15U500



Max Depth: 29.500 m / 96.78 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP11.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647650 Long: -108.495850

● Equilibrium Pore Pressure from Dissipation



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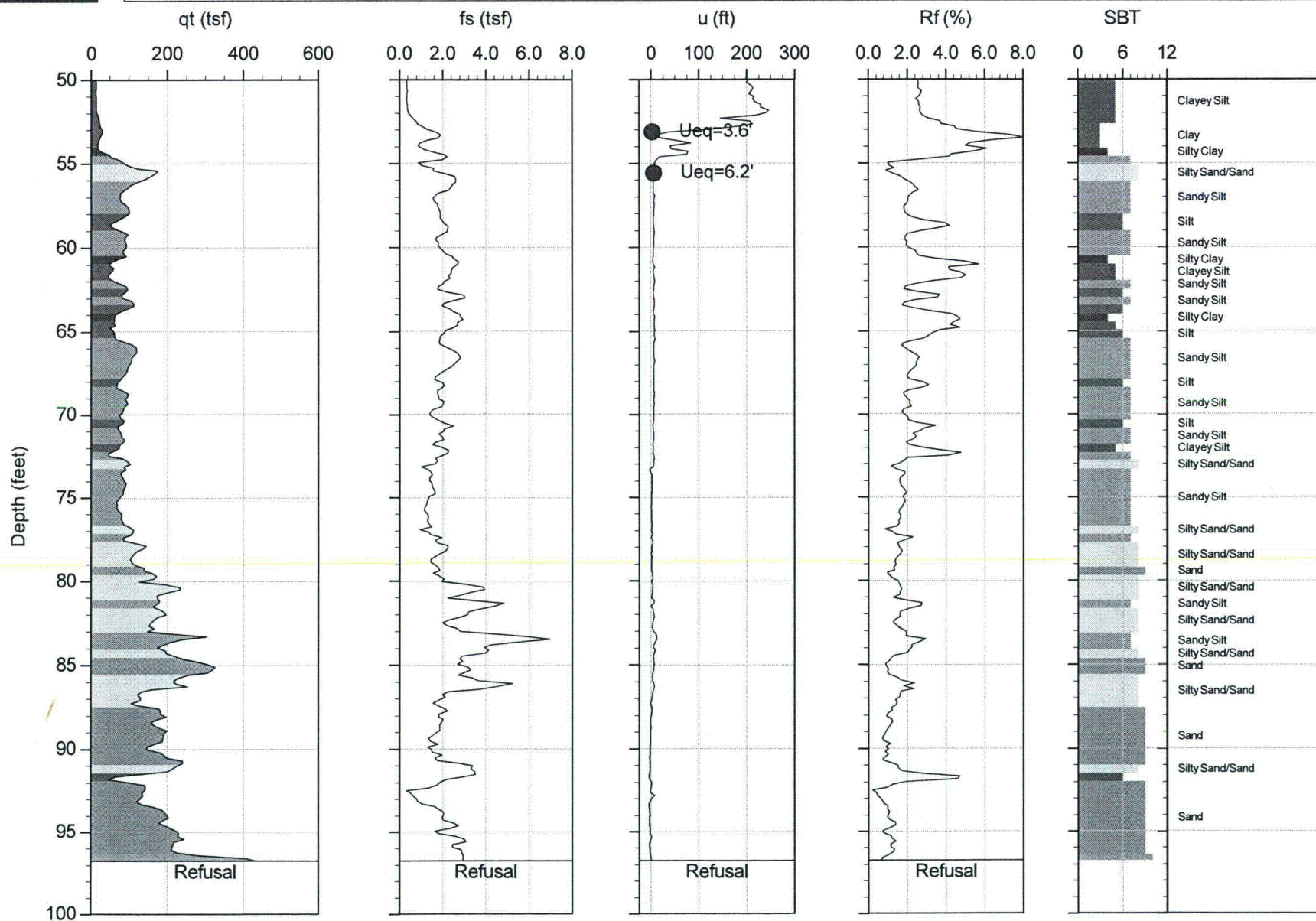
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Date: 11:07:13 12:13

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-11

Cone: 155:T1500F15U500



Max Depth: 29.500 m / 96.78 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP11.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation



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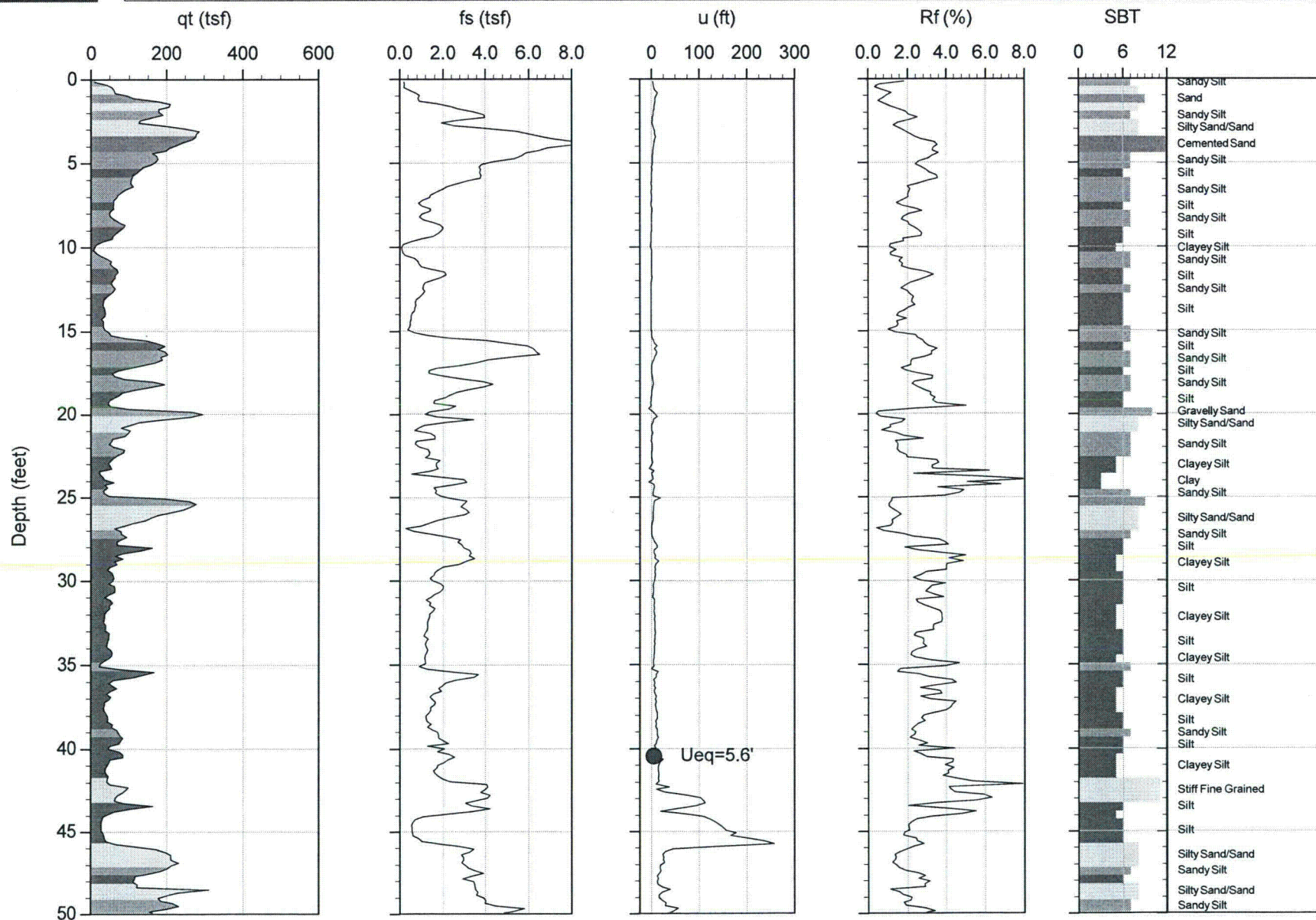
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-12

Cone: 155:T1500F15U500



Max Depth: 16.000 m / 52.49 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP12.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647150 Long: -108.496000

● Equilibrium Pore Pressure from Dissipation



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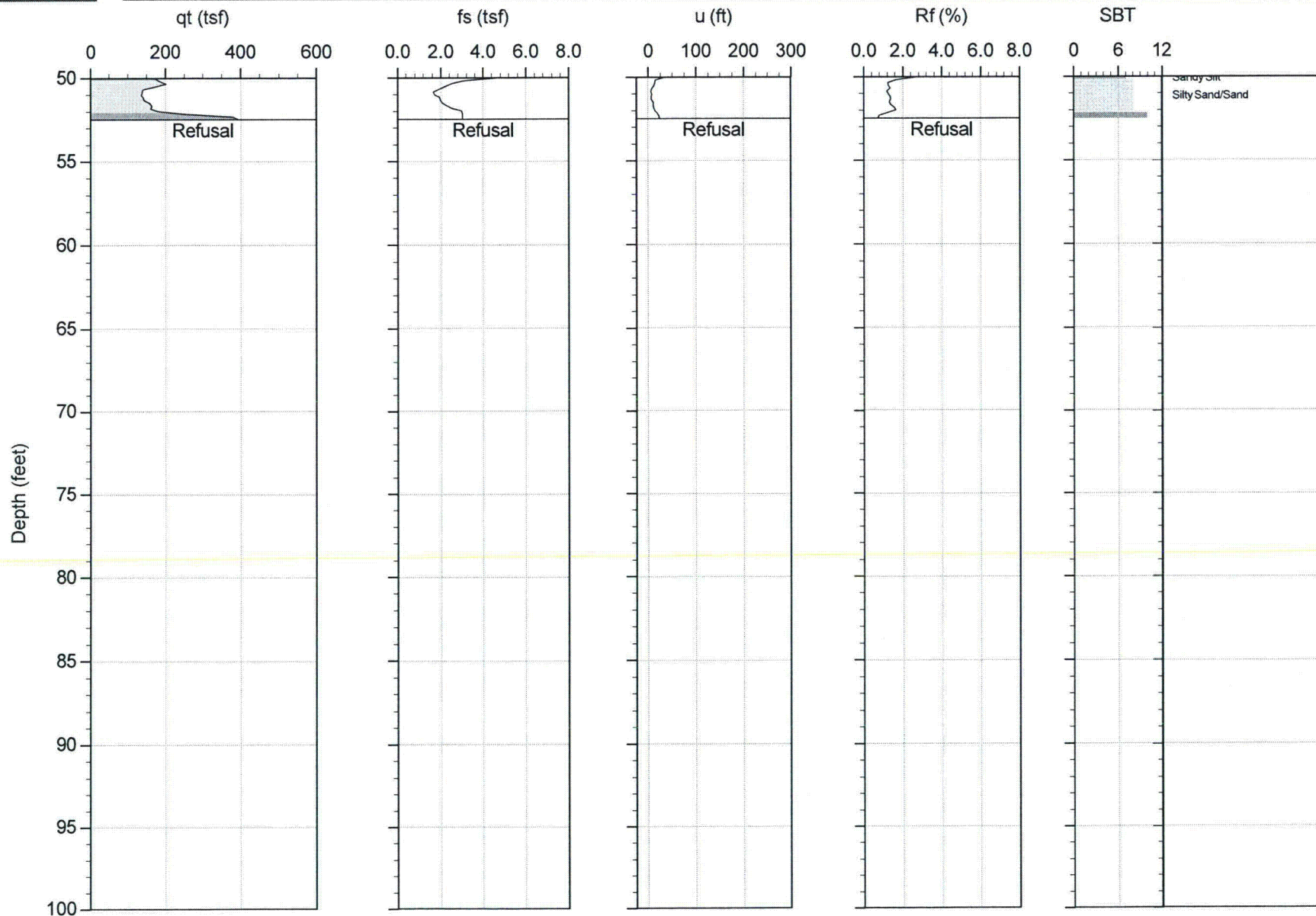
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Date: 11:07:13 10:22

Site: CHURCH ROCKMILL SITE TSF

Sounding: RCPT-12

Cone: 155:T1500F15U500



Max Depth: 16.000 m / 52.49 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP12.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647150 Long: -108.496000
● Equilibrium Pore Pressure from Dissipation

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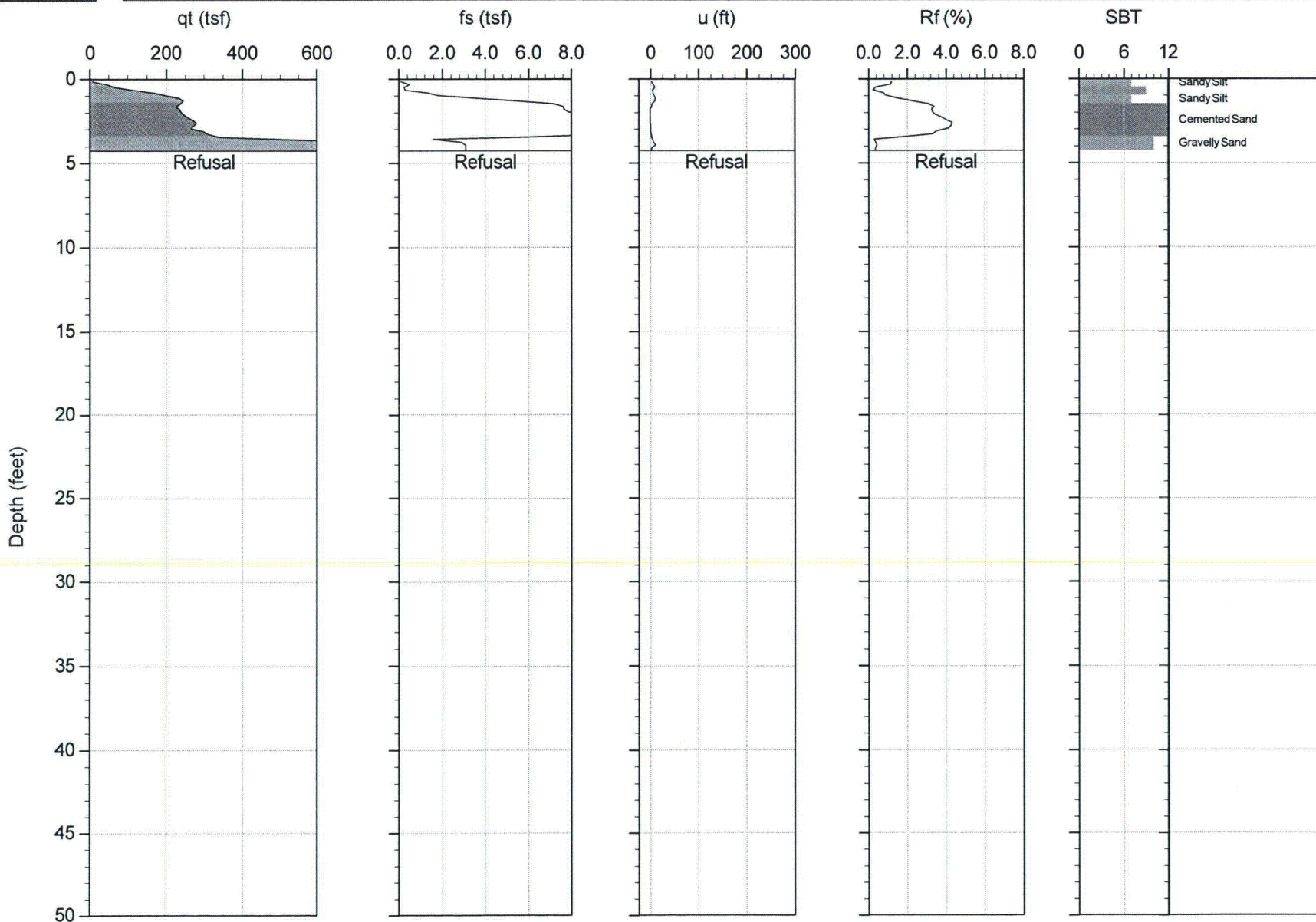
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-13

Cone: 155:T1500F15U500



Max Depth: 1.300 m / 4.27 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP13.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649067 Long: -108.499383
● Equilibrium Pore Pressure from Dissipation



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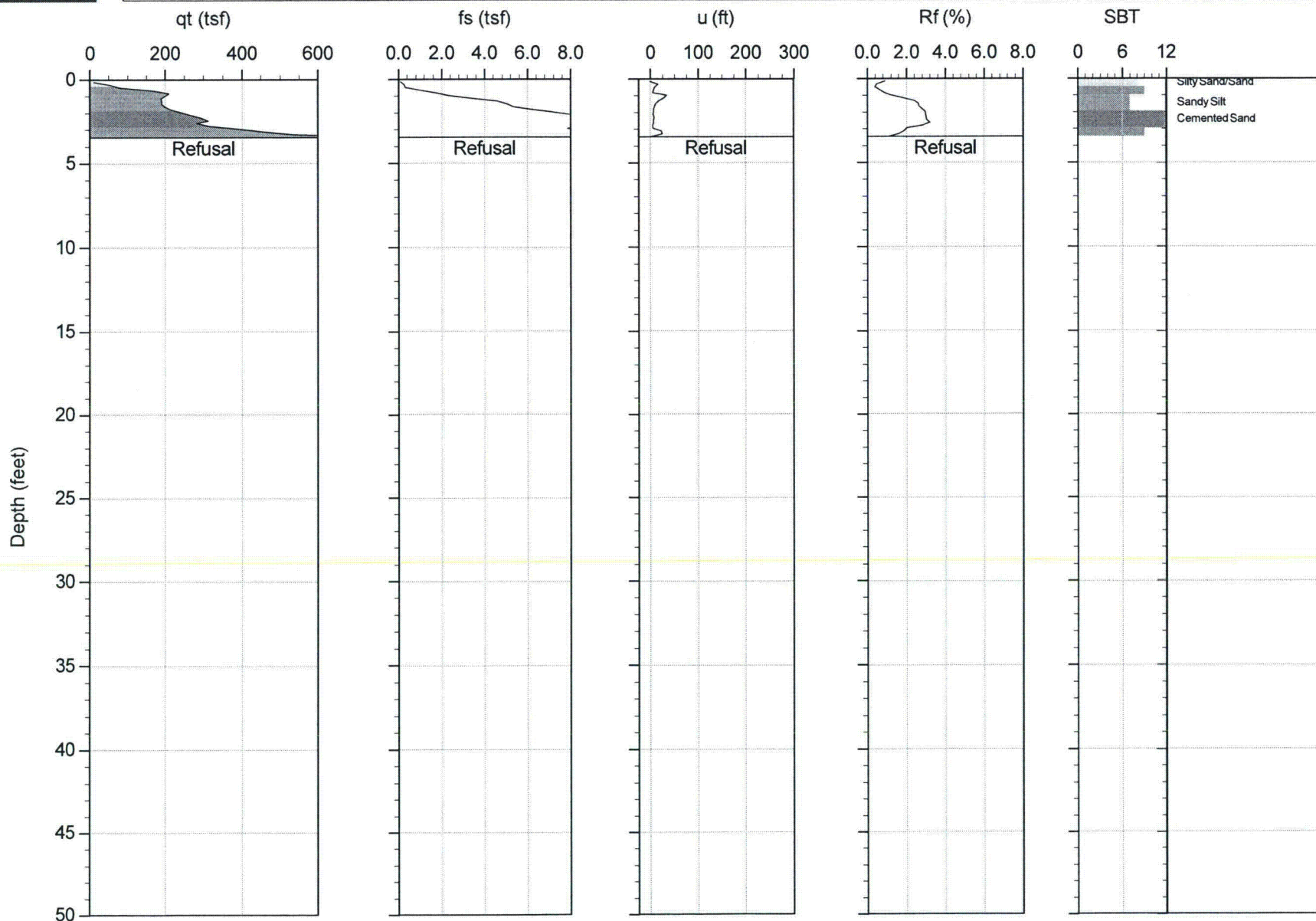
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Date: 11:08:13 10:03

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-13B

Cone: 155:T1500F15U500



Max Depth: 1.050 m / 3.44 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP13B.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649067 Long: -108.499367

● Equilibrium Pore Pressure from Dissipation



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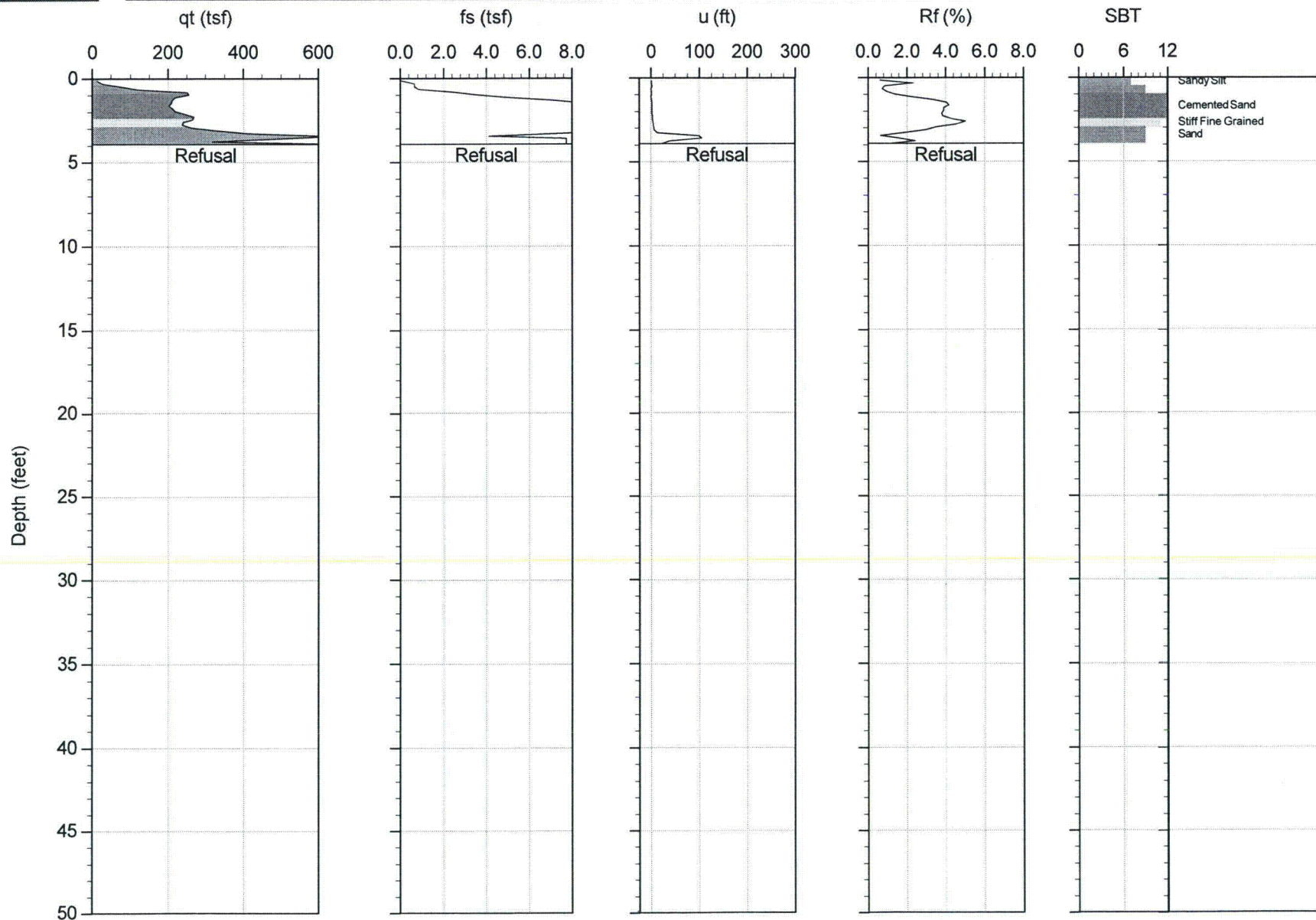
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Date: 11:08:13 10:21

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-13BC

Cone: 155:T1500F15U500



Max Depth: 1.200 m / 3.94 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP13C.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649083 Long: -108.499400
● Equilibrium Pore Pressure from Dissipation

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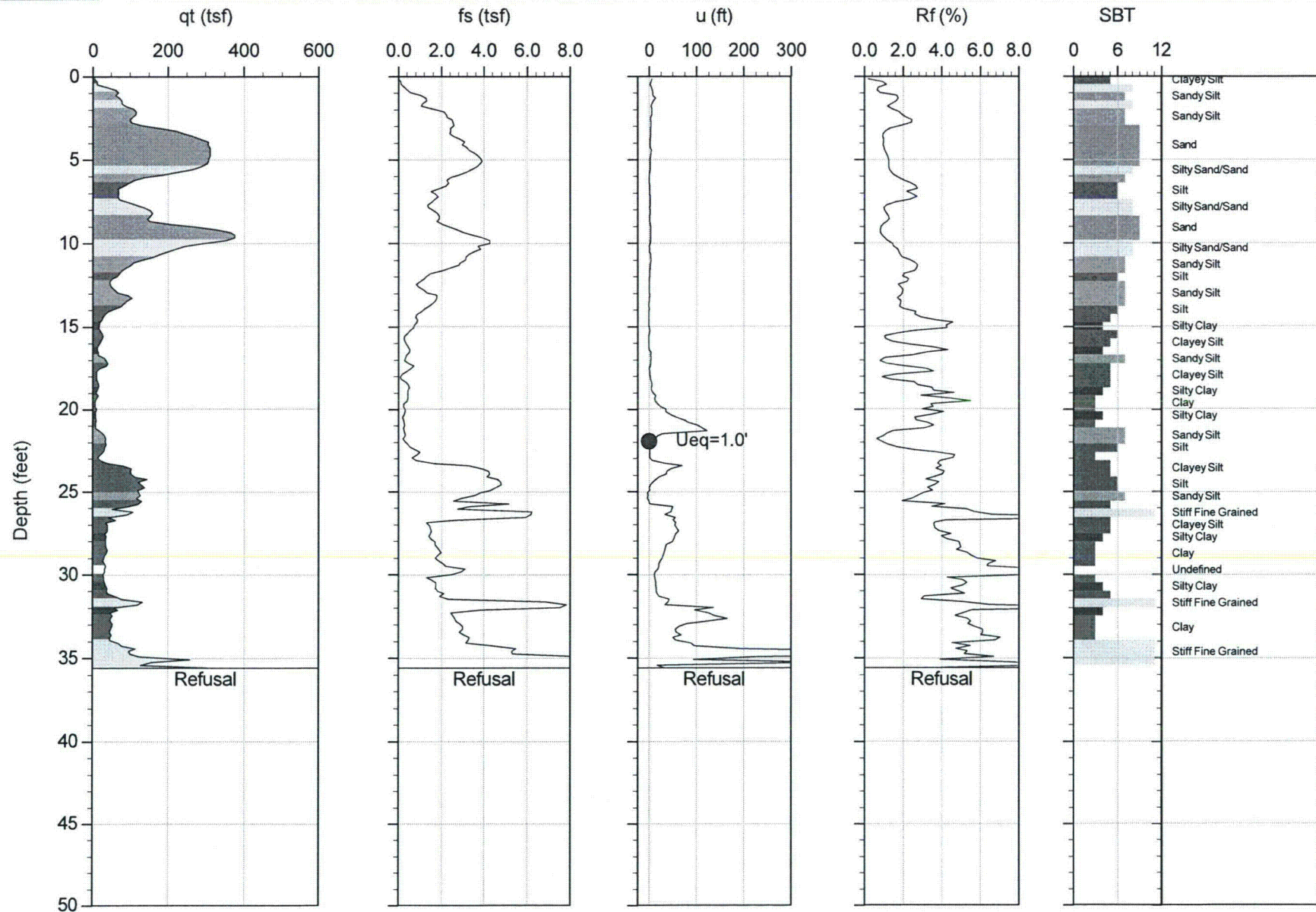
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Sounding: RCPT-14

Cone: 155:T1500F15U500



Max Depth: 10.850 m / 35.60 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP14.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647233 Long: -108.497867

● Equilibrium Pore Pressure from Dissipation



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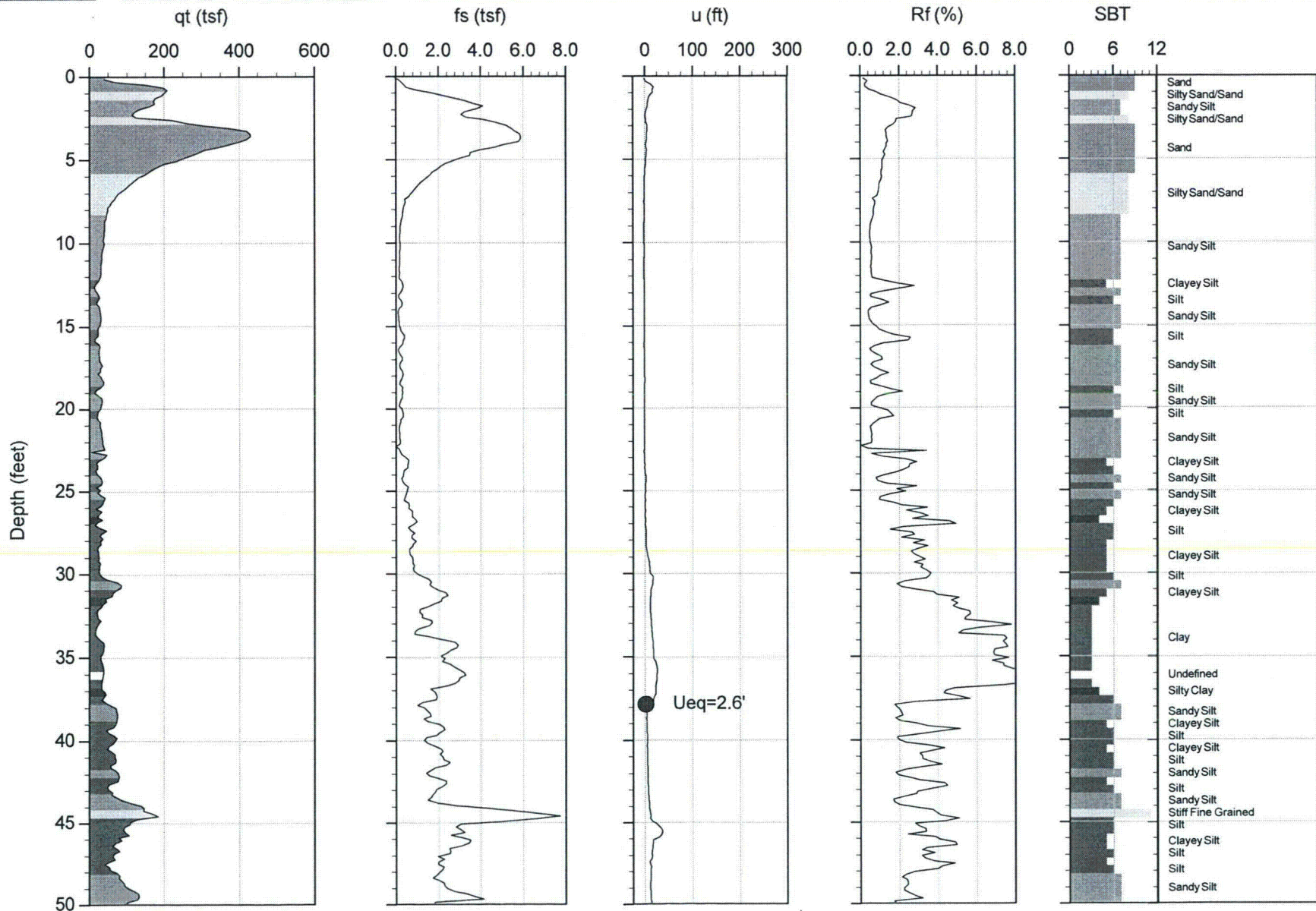
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Sounding: RCPT-15

Cone: 155:T1500F15U500

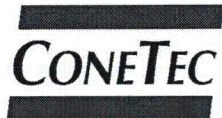


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Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP15.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation



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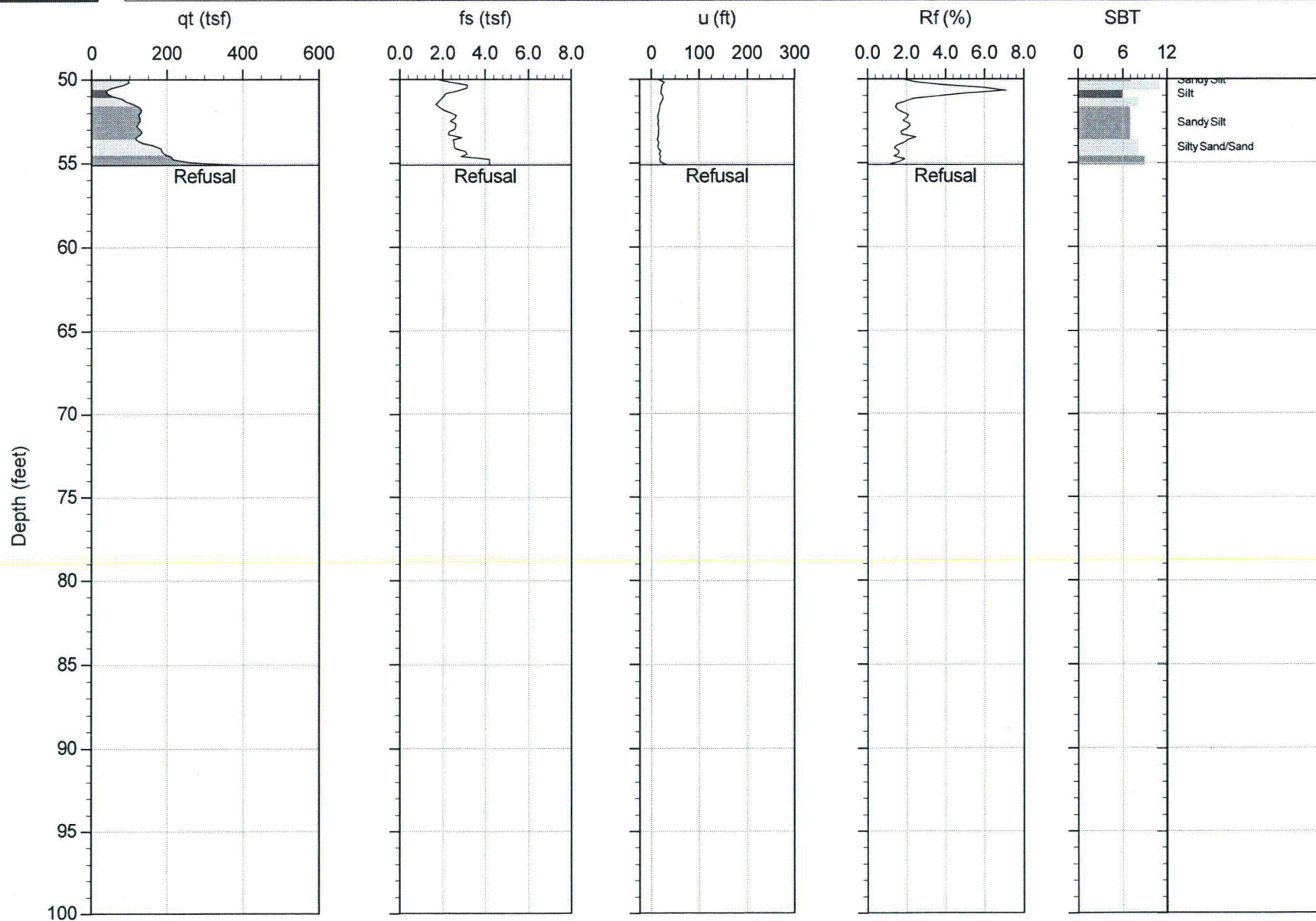
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Sounding: RCPT-15

Cone: 155:T1500F15U500



Max Depth: 16.800 m / 55.12 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP15.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647583 Long: -108.499800
● Equilibrium Pore Pressure from Dissipation

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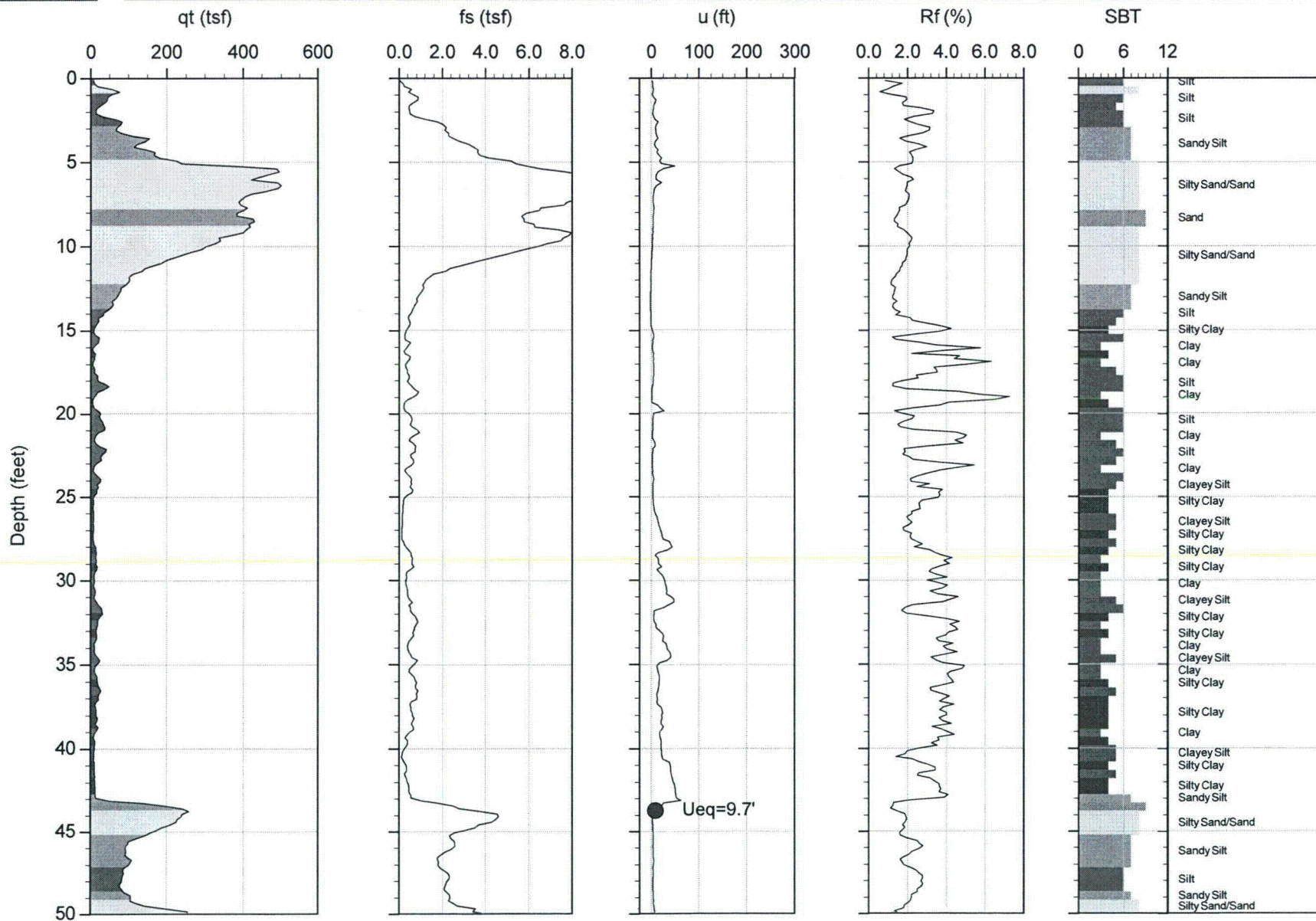
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Sounding: RCPT-16

Cone: 155:T1500F15U500

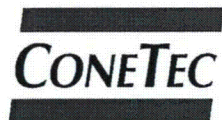


Max Depth: 16.800 m / 55.12 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP16.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.648200 Long: -108.497850

● Equilibrium Pore Pressure from Dissipation



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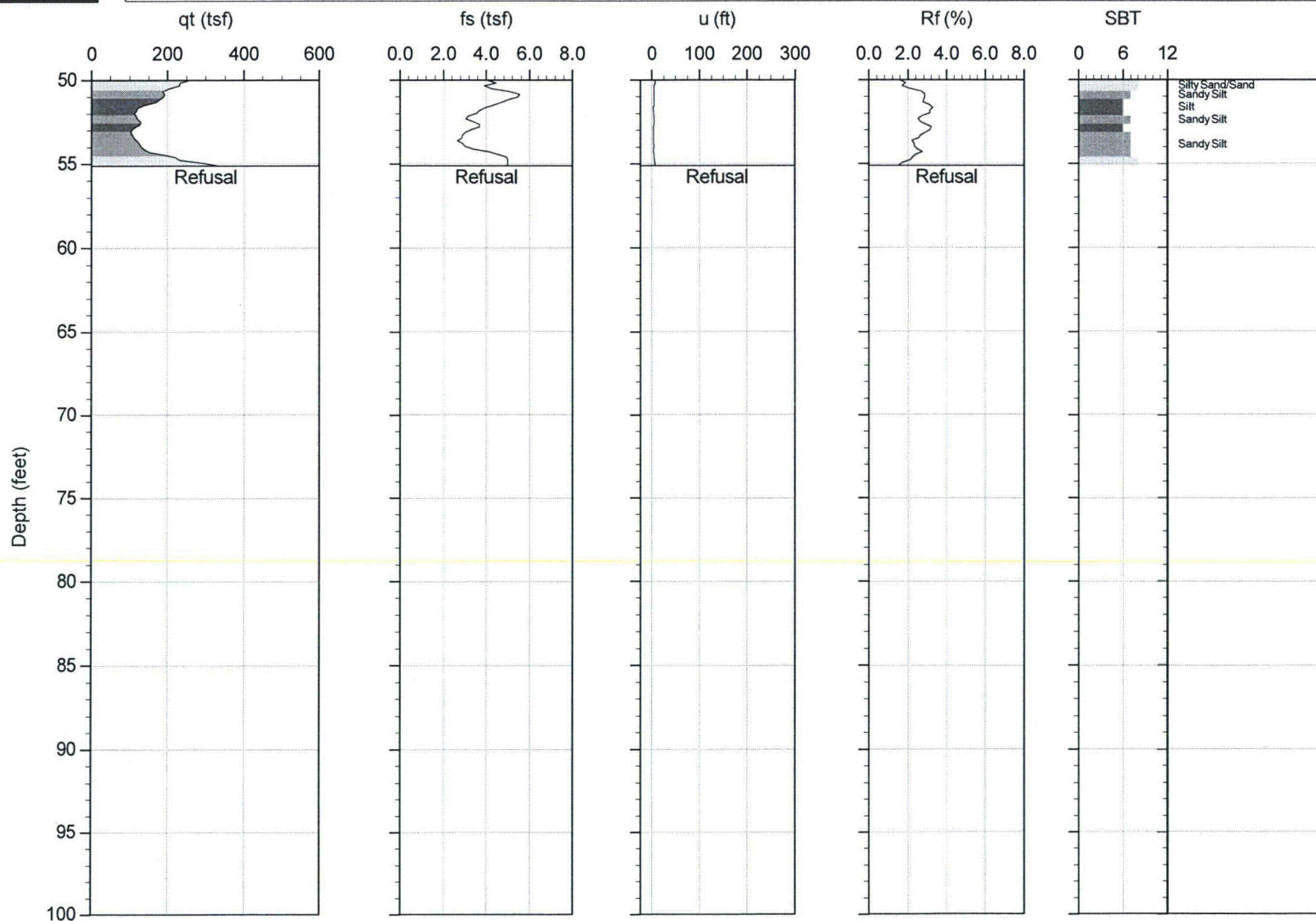
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Sounding: RCPT-16

Cone: 155:T1500F15U500



Max Depth: 16.800 m / 55.12 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP16.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
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● Equilibrium Pore Pressure from Dissipation



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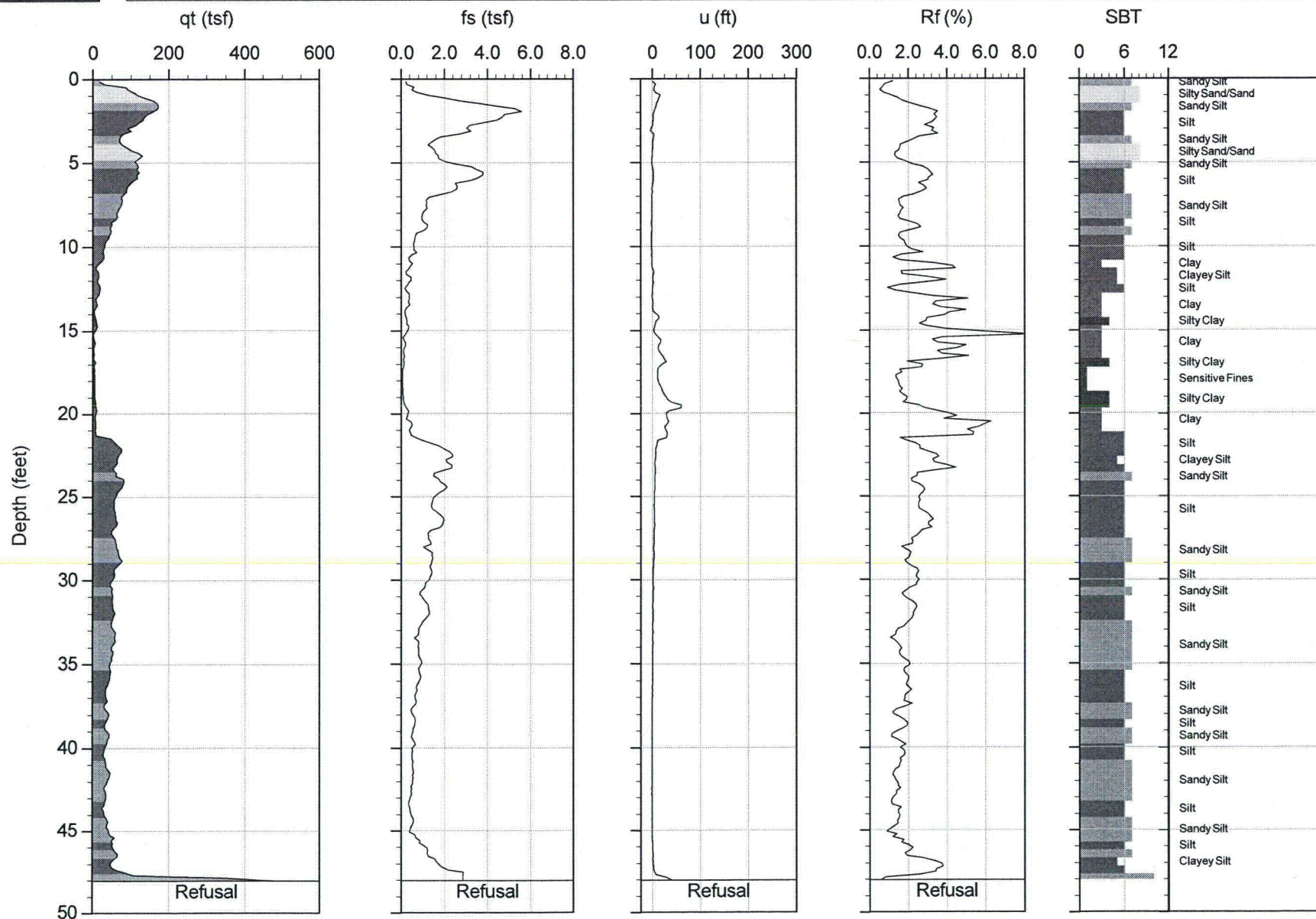
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Date: 11:09:13 14:32

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-17

Cone: 155:T1500F15U500



Max Depth: 14.650 m / 48.06 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP17.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.648617 Long: -108.496383

● Equilibrium Pore Pressure from Dissipation



MWH Americas

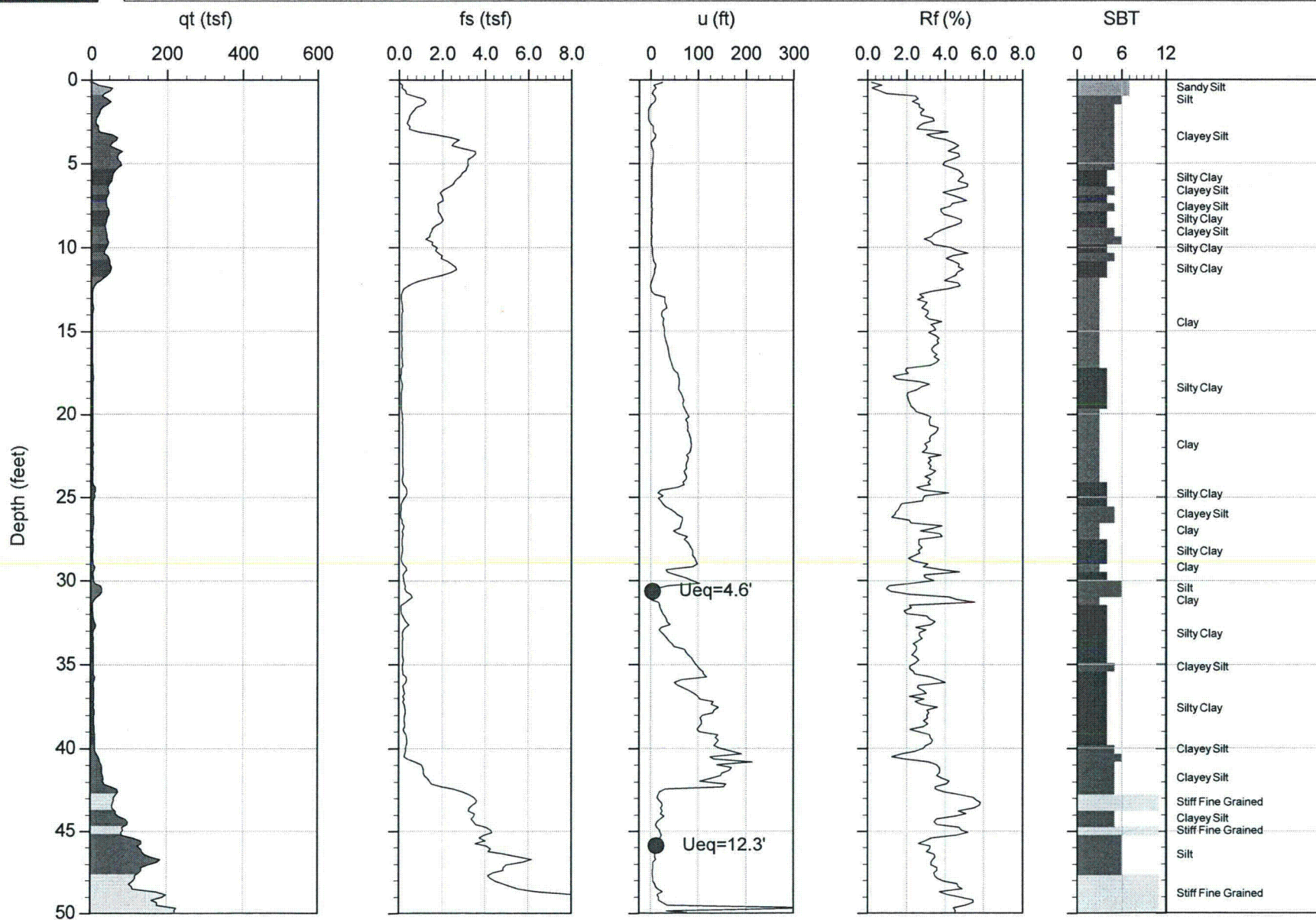
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Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-18

Cone: 155:T1500F15U500



Max Depth: 15.250 m / 50.03 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP18.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.648000 Long: -108.496683

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

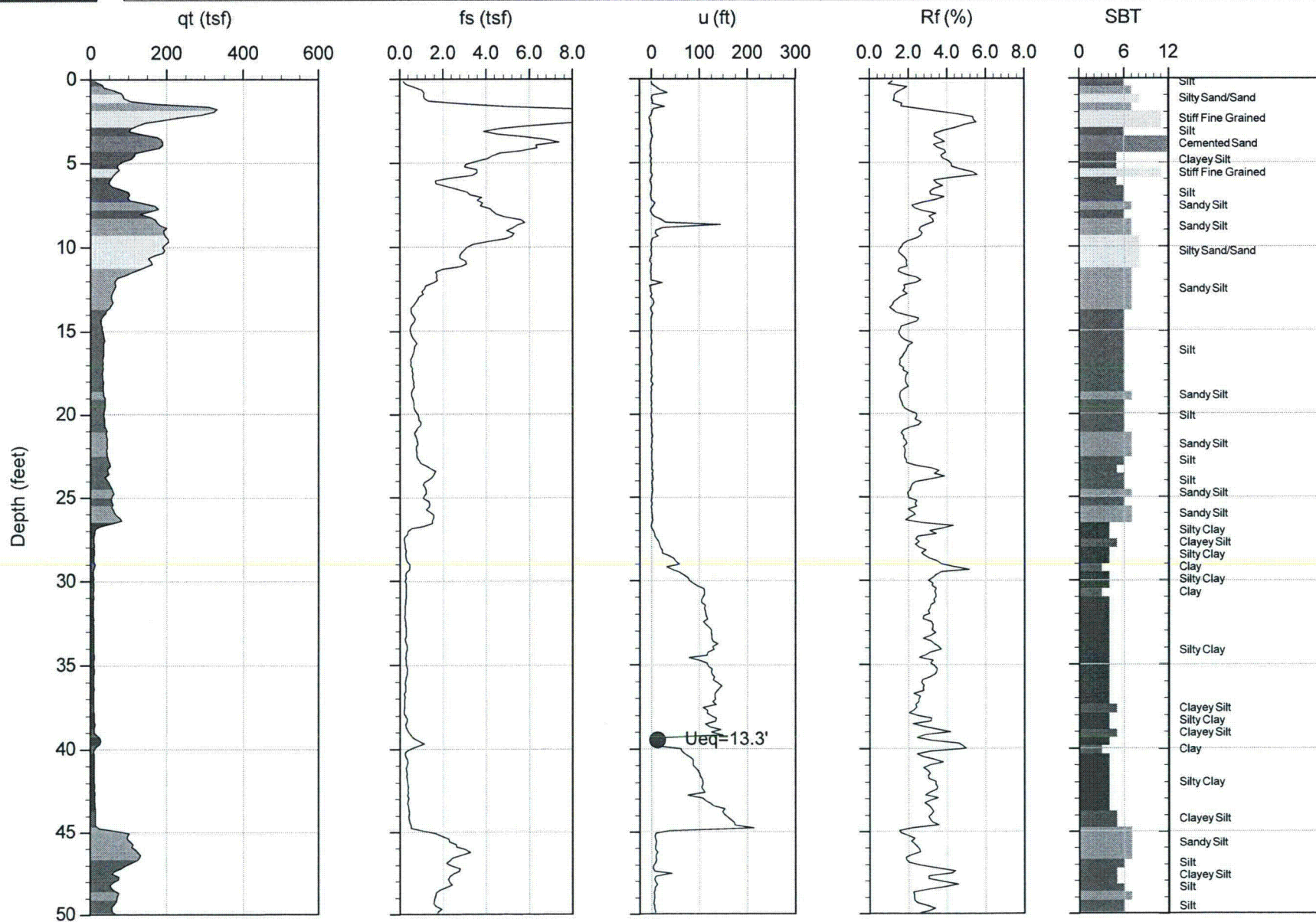
Job No: 13-52118

Date: 11:09:13 11:56

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-19

Cone: 155:T1500F15U500



Max Depth: 17.750 m / 58.23 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP19.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647450 Long: -108.497000

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

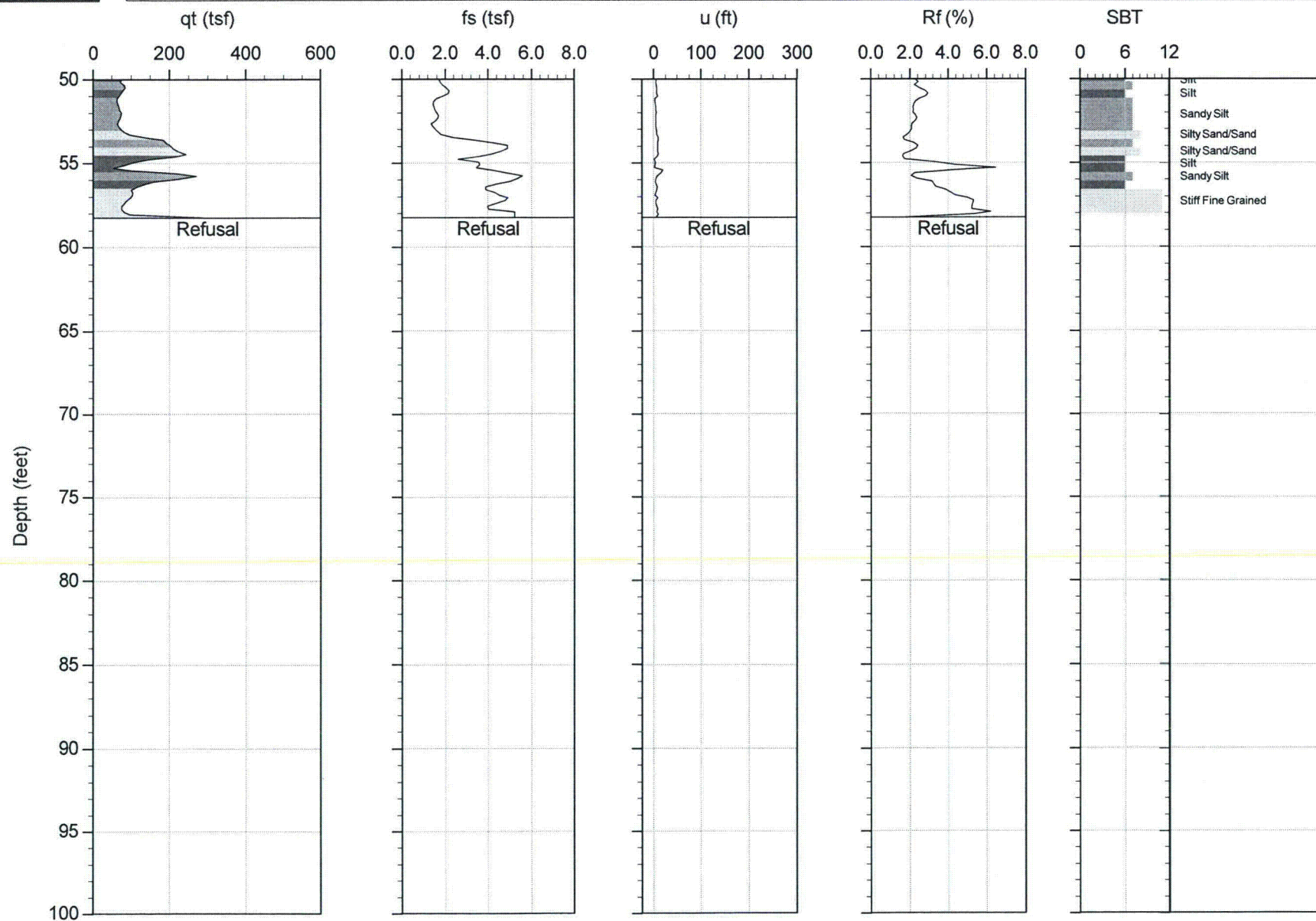
Job No: 13-52118

Date: 11:09:13 11:56

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-19

Cone: 155:T1500F15U500



Max Depth: 17.750 m / 58.23 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP19.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647450 Long: -108.497000
● Equilibrium Pore Pressure from Dissipation



MWH Americas

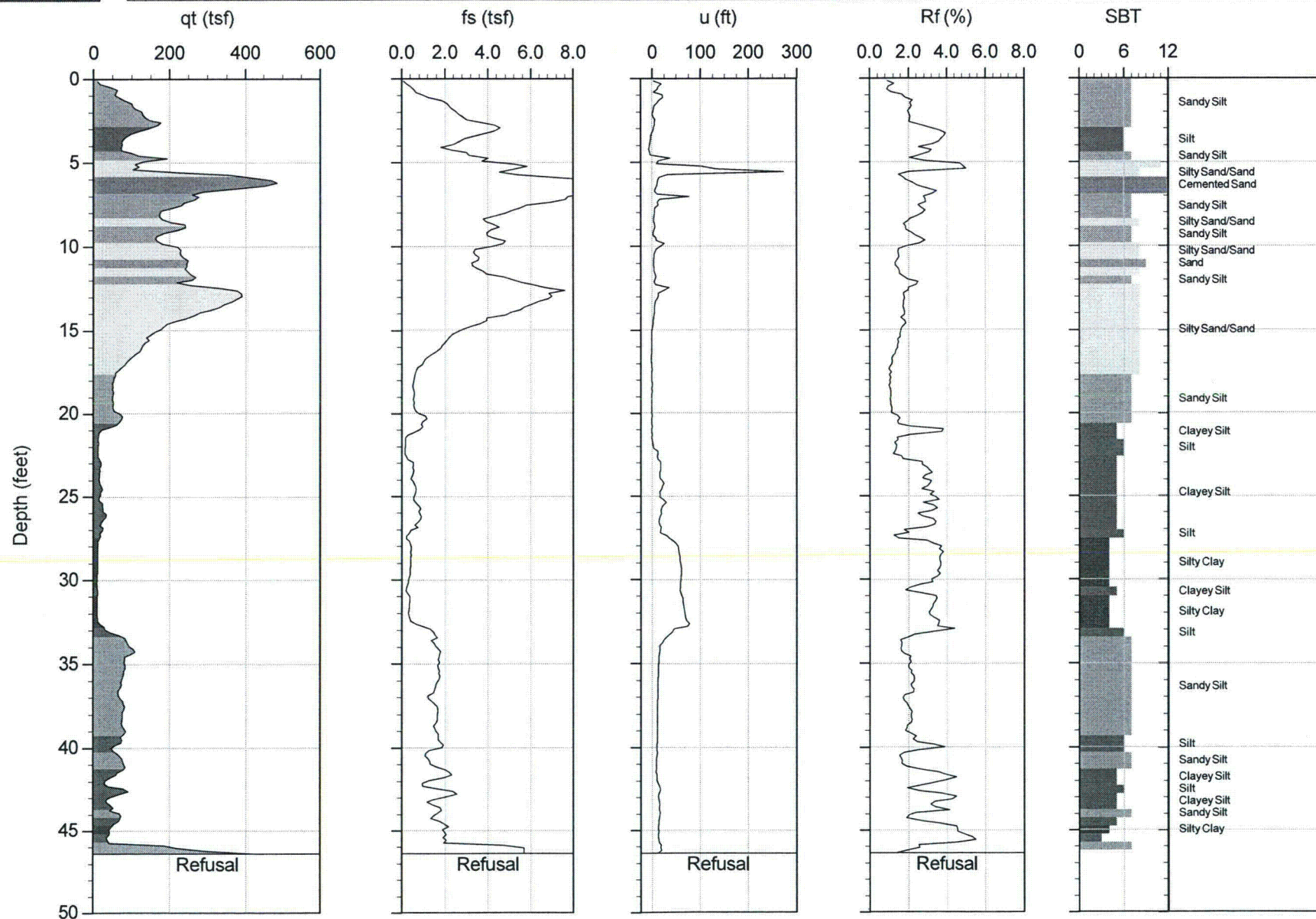
Job No: 13-52118

Date: 11:09:13 13:36

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-20

Cone: 155:T1500F15U500

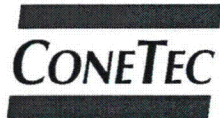


Max Depth: 14.150 m / 46.42 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP20.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.646883 Long: -108.497167

● Equilibrium Pore Pressure from Dissipation



MWH Americas

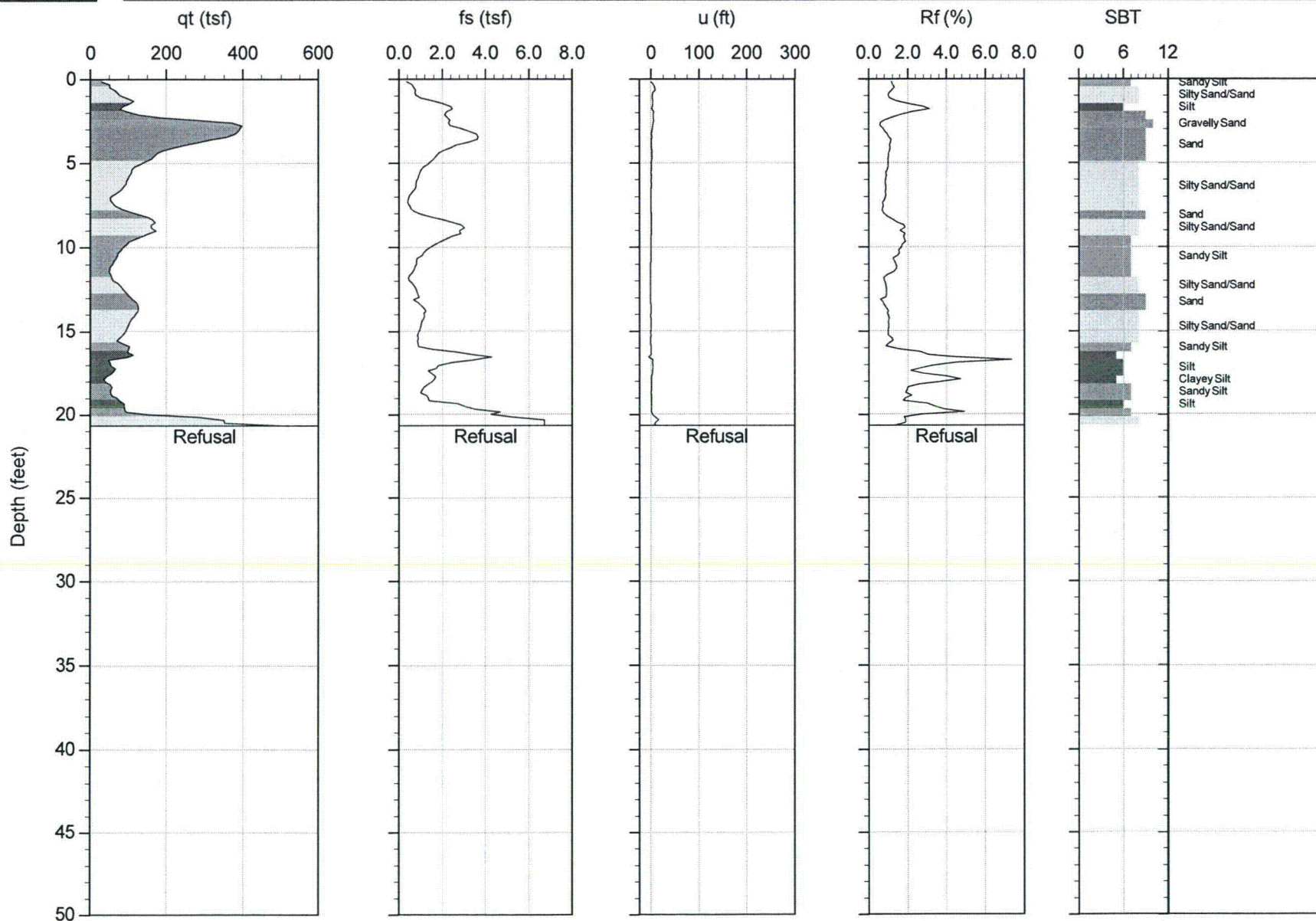
Job No: 13-52118

Date: 11:08:13 15:34

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-21

Cone: 155:T1500F15U500



Max Depth: 6.300 m / 20.67 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP21.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.646283 Long: -108.501583
● Equilibrium Pore Pressure from Dissipation



MWH Americas

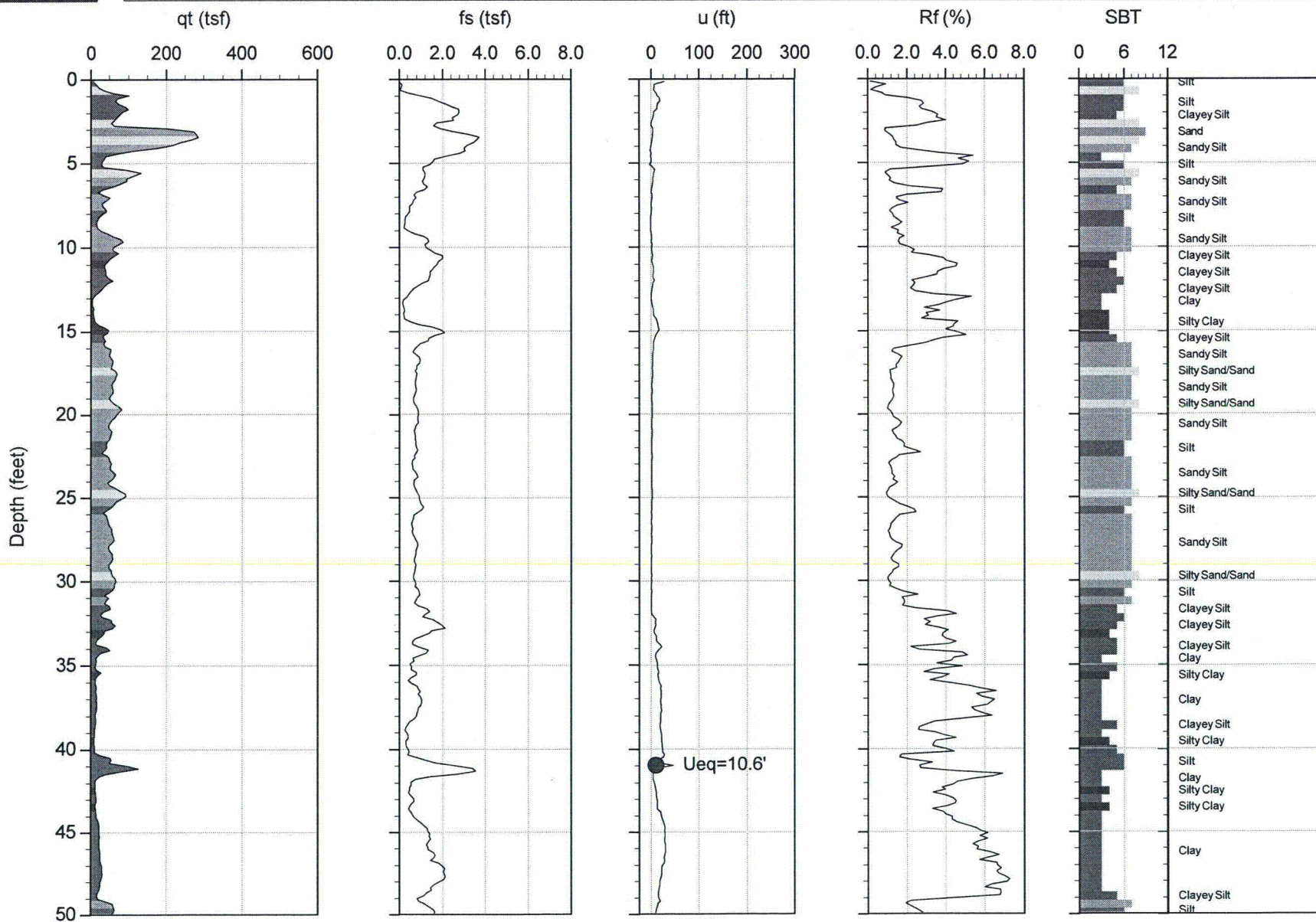
Job No: 13-52118

Date: 11:10:13 11:54

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-22

Cone: 155:T1500F15U500

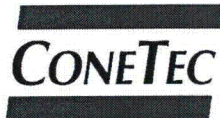


Max Depth: 28.750 m / 94.32 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP22.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647950 Long: -108.502917

● Equilibrium Pore Pressure from Dissipation



MWH Americas

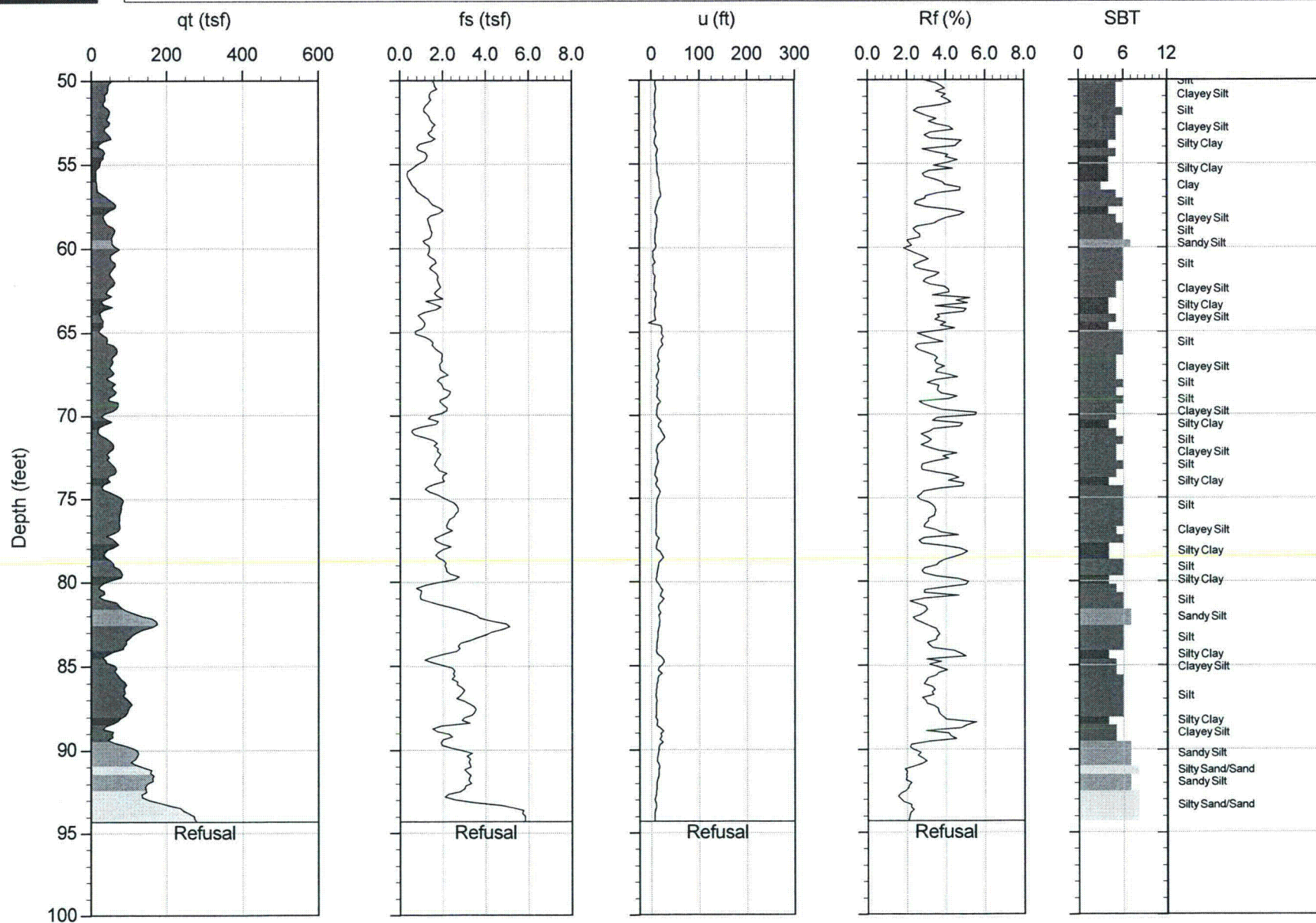
Job No: 13-52118

Date: 11:10:13 11:54

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-22

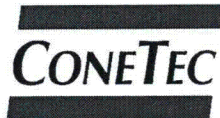
Cone: 155:T1500F15U500



Max Depth: 28.750 m / 94.32 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP22.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647950 Long: -108.502917
● Equilibrium Pore Pressure from Dissipation



MWH Americas

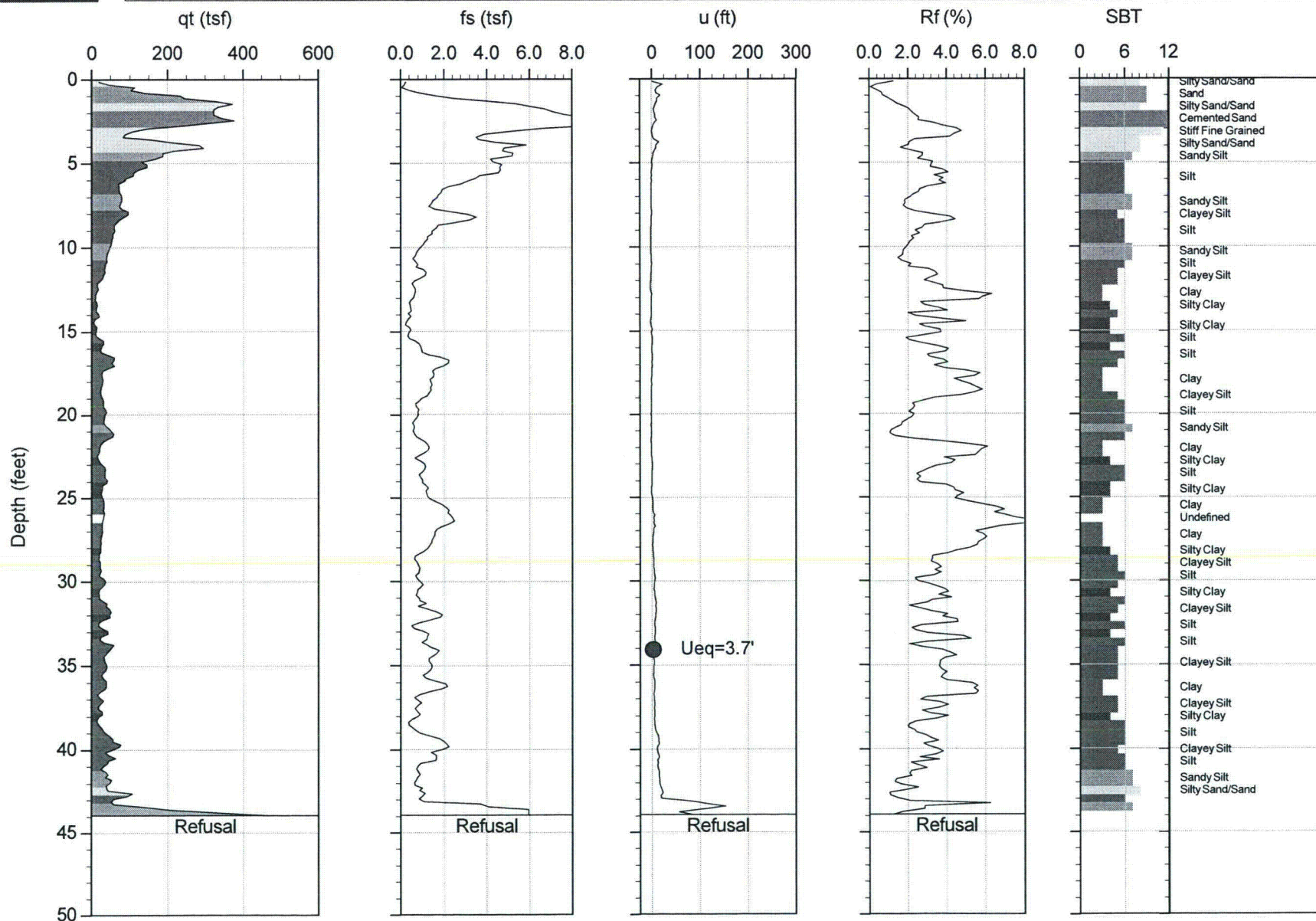
Job No: 13-52118

Date: 11:08:13 16:21

Site: CHURCH ROCKMILL SITE TSF

Sounding: RCPT-23

Cone: 155:T1500F15U500



Max Depth: 13.400 m / 43.96 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP23.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.650833 Long: -108.497700

● Equilibrium Pore Pressure from Dissipation



MWH Americas

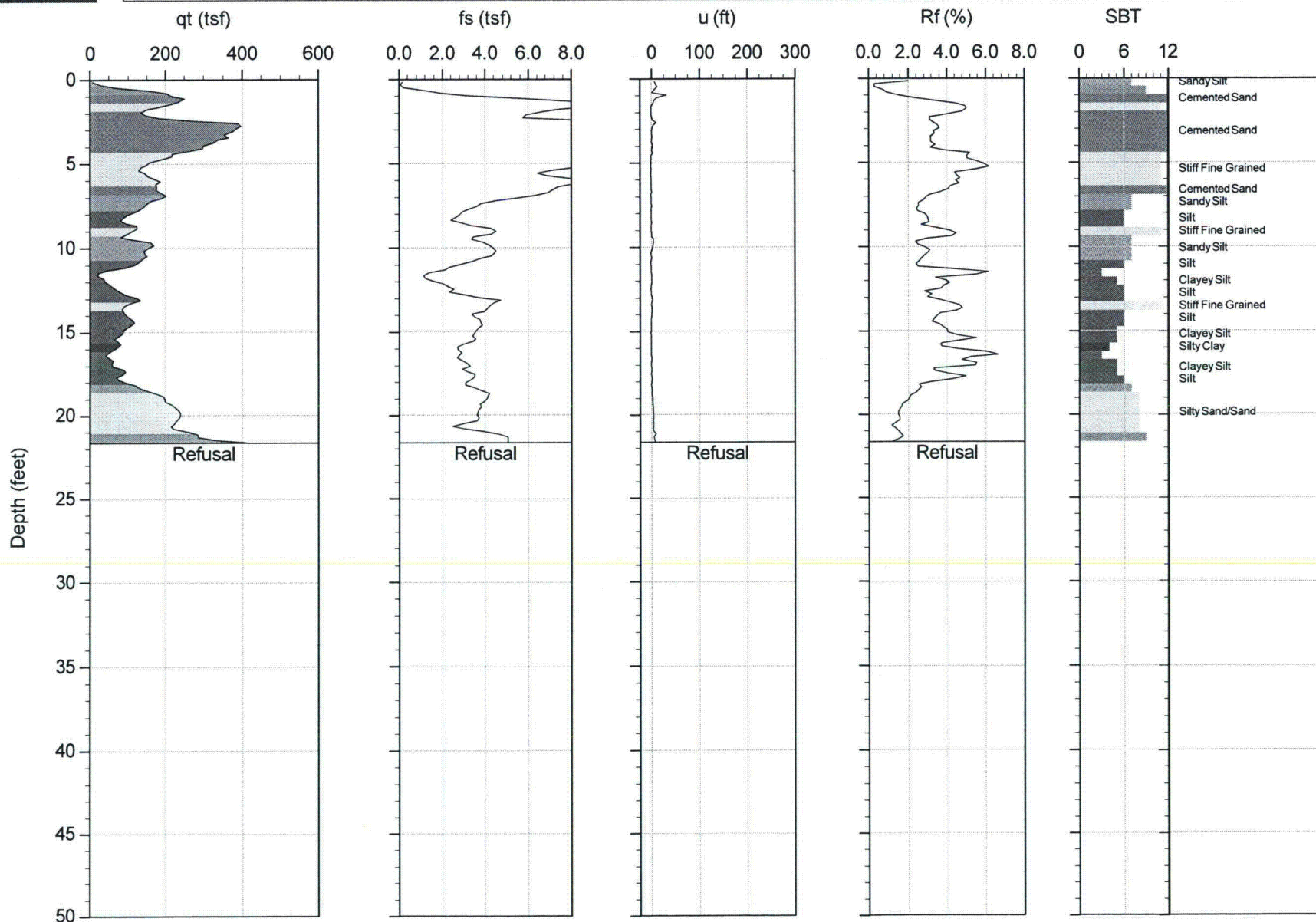
Job No: 13-52118

Date: 11:09:13 16:36

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-24

Cone: 155:T1500F15U500



Max Depth: 6.600 m / 21.65 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP24.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.650000 Long: -108.498717

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

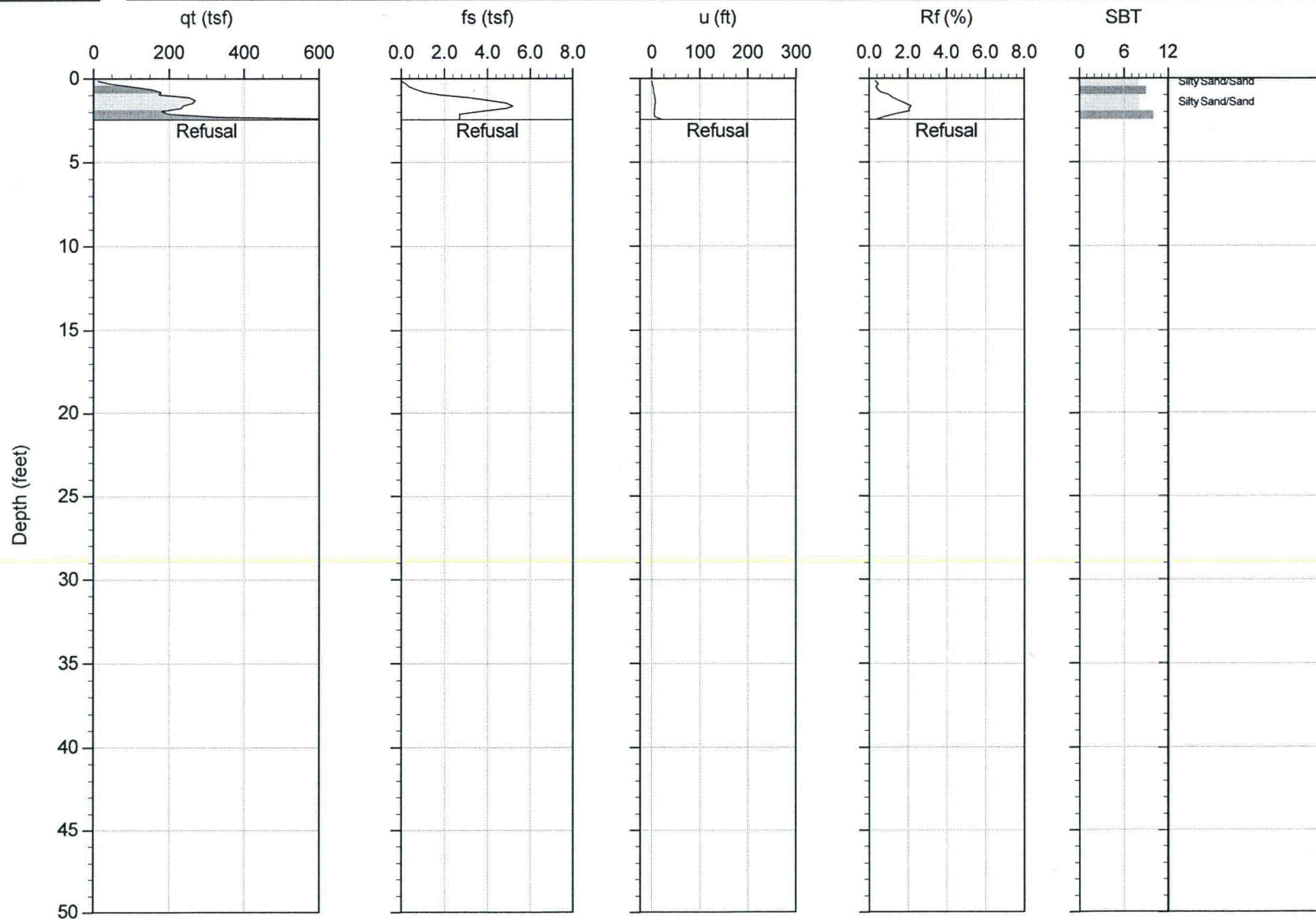
Job No: 13-52118

Date: 11:09:13 08:11

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-25

Cone: 155:T1500F15U500



Max Depth: 0.750 m / 2.46 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP25.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649650 Long: -108.497733
● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

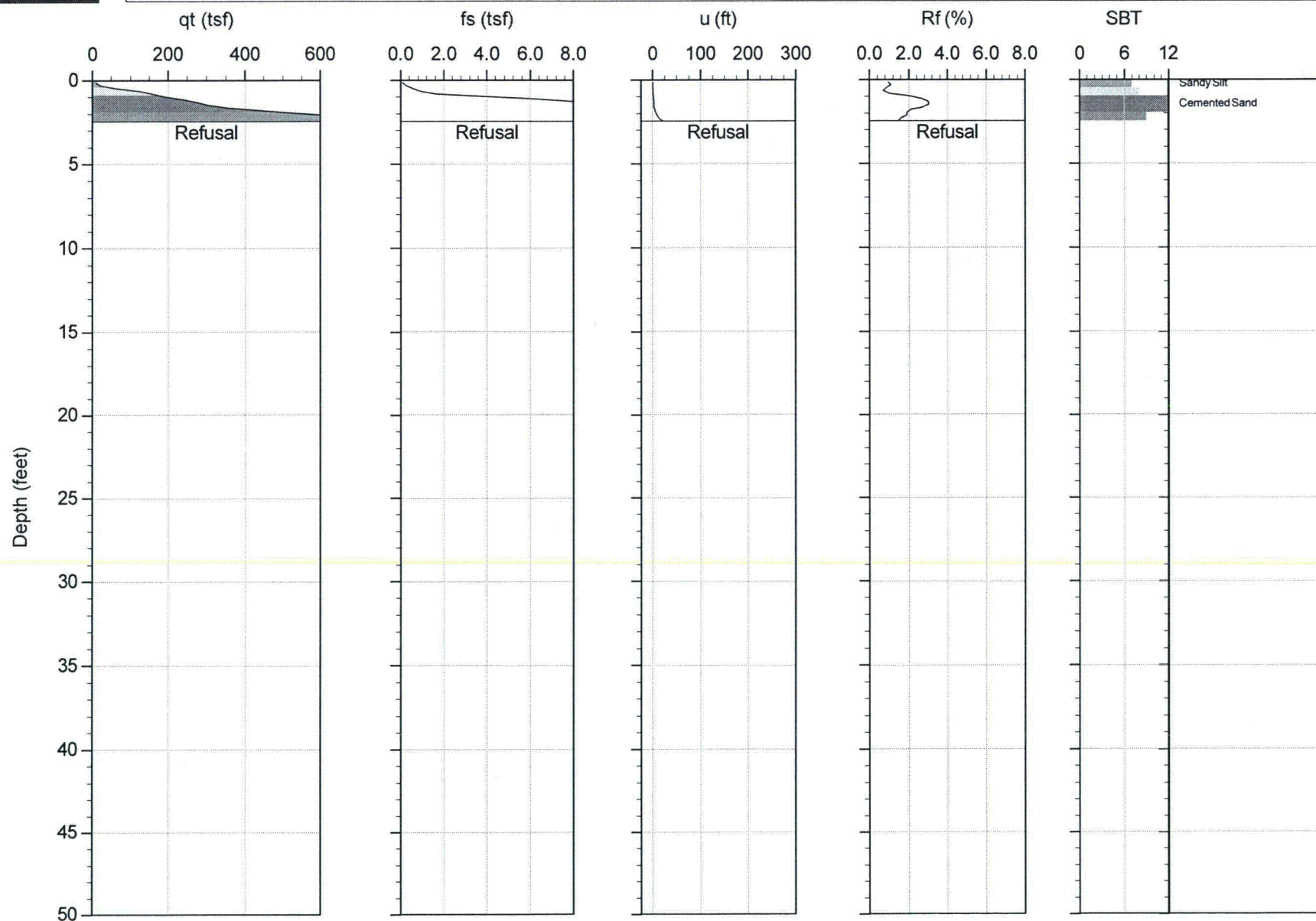
Job No: 13-52118

Date: 11:09:13 08:40

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-25B

Cone: 155:T1500F15U500



Max Depth: 0.750 m / 2.46 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP25B.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649650 Long: -108.497767

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

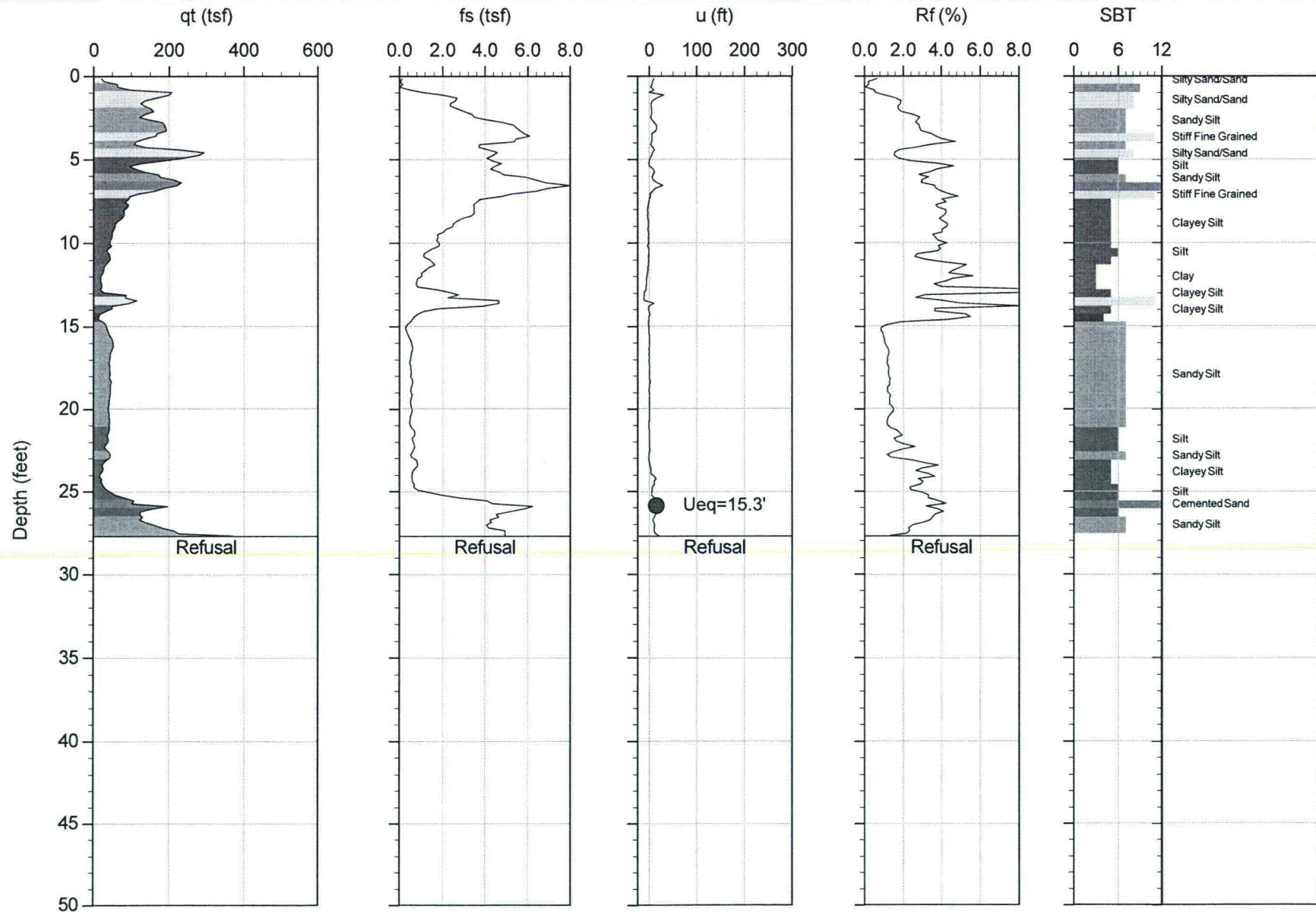
Job No: 13-52118

Date: 11:09:13 09:25

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-26

Cone: 155:T1500F15U500



Max Depth: 8.450 m / 27.72 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP26.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.648417 Long: -108.500567

● Equilibrium Pore Pressure from Dissipation



MWH Americas

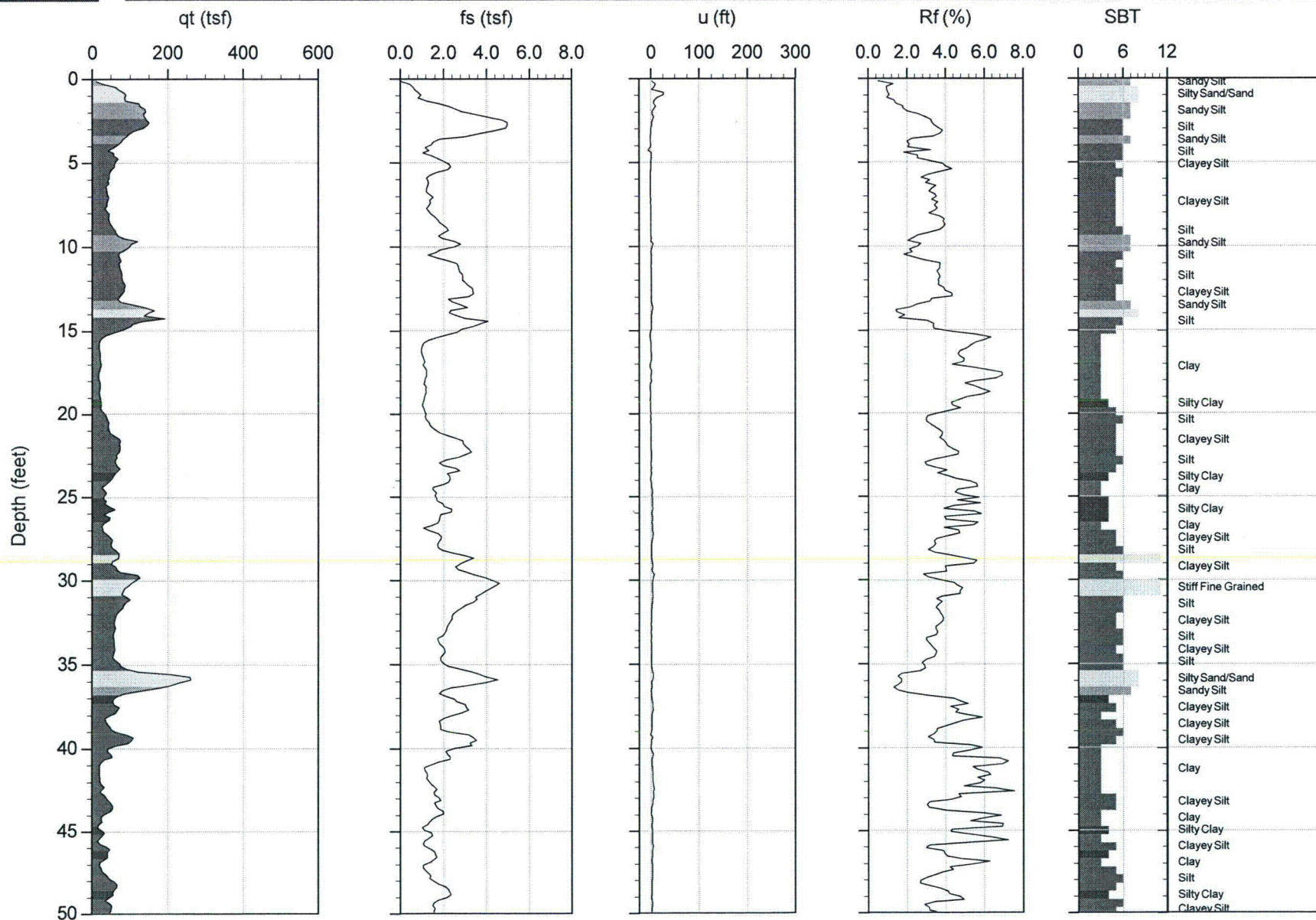
Job No: 13-52118

Date: 11:09:13 15:22

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-27

Cone: 155:T1500F15U500

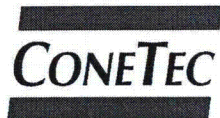


Max Depth: 24.300 m / 79.72 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP27.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647583 Long: -108.496367

● Equilibrium Pore Pressure from Dissipation



MWH Americas

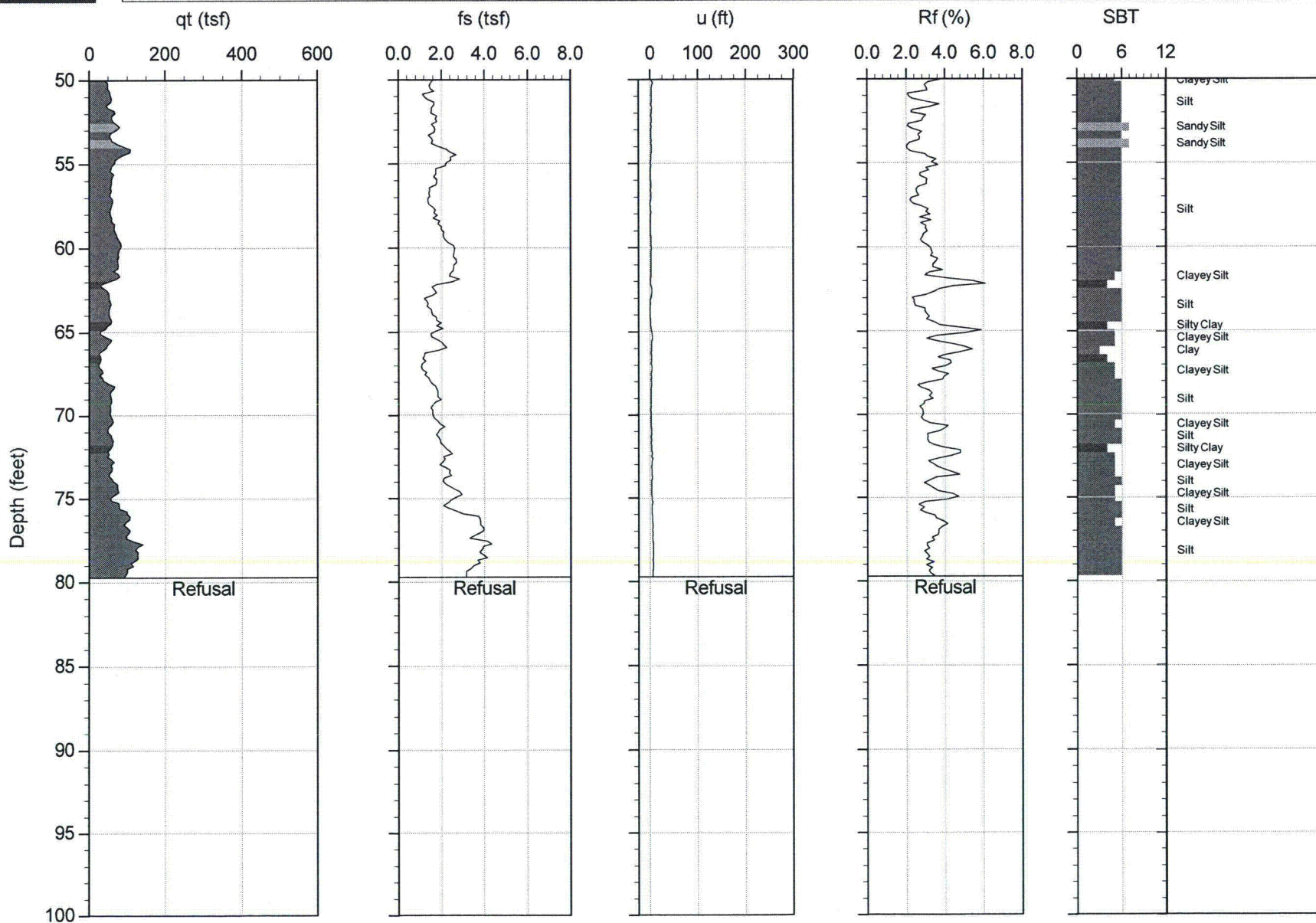
Job No: 13-52118

Date: 11:09:13 15:22

Site: CHURCH ROCKMILL SITE TSF

Sounding: RCPT-27

Cone: 155:T1500F15U500



Max Depth: 24.300 m / 79.72 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP27.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647583 Long: -108.496367

● Equilibrium Pore Pressure from Dissipation

CONEtec**MWH Americas**

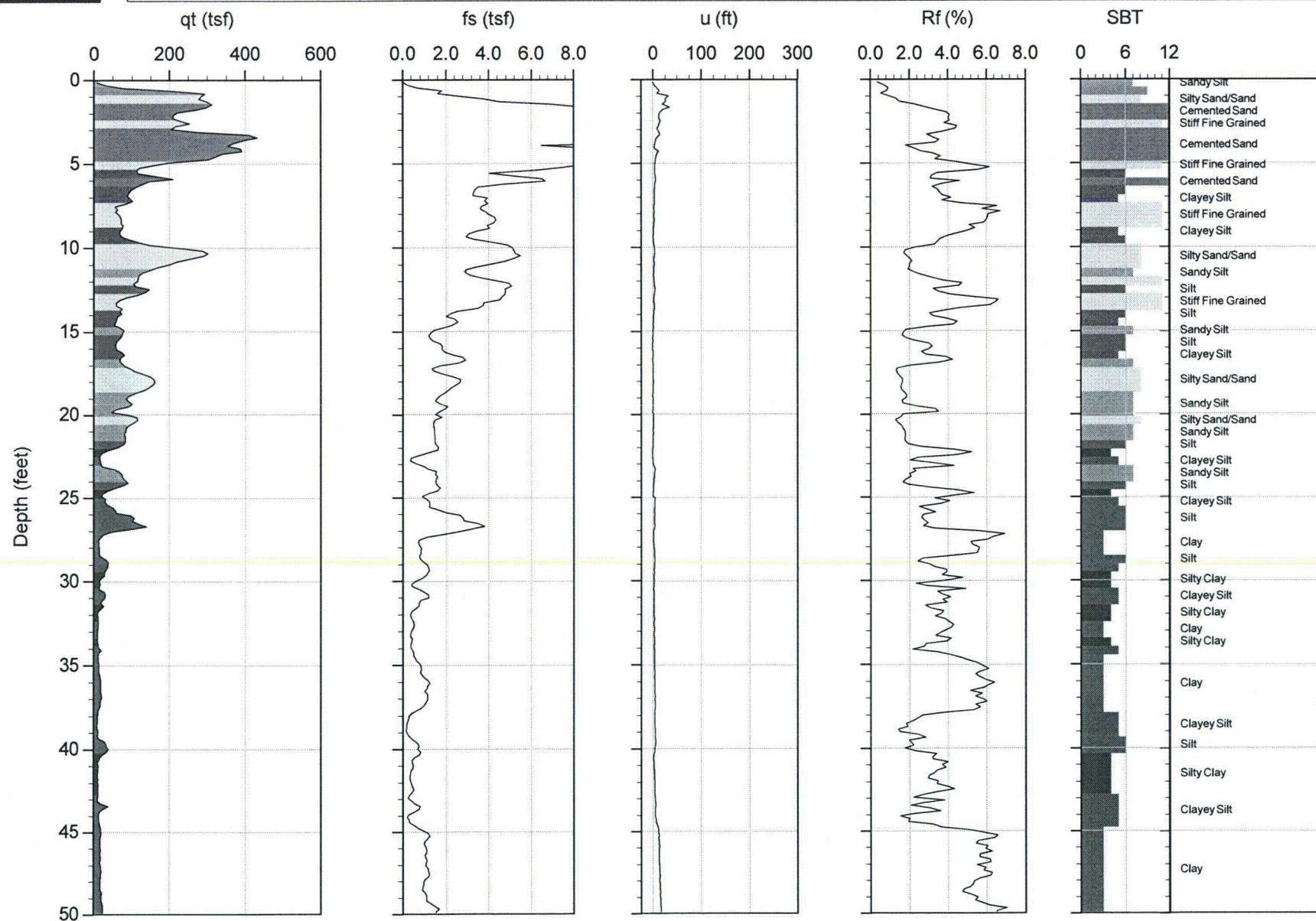
Job No: 13-52118

Date: 11:10:13 08:17

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-28

Cone: 155:T1500F15U500



Max Depth: 25.600 m / 83.99 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP28.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649767 Long: -108.501117

● Equilibrium Pore Pressure from Dissipation



MWH Americas

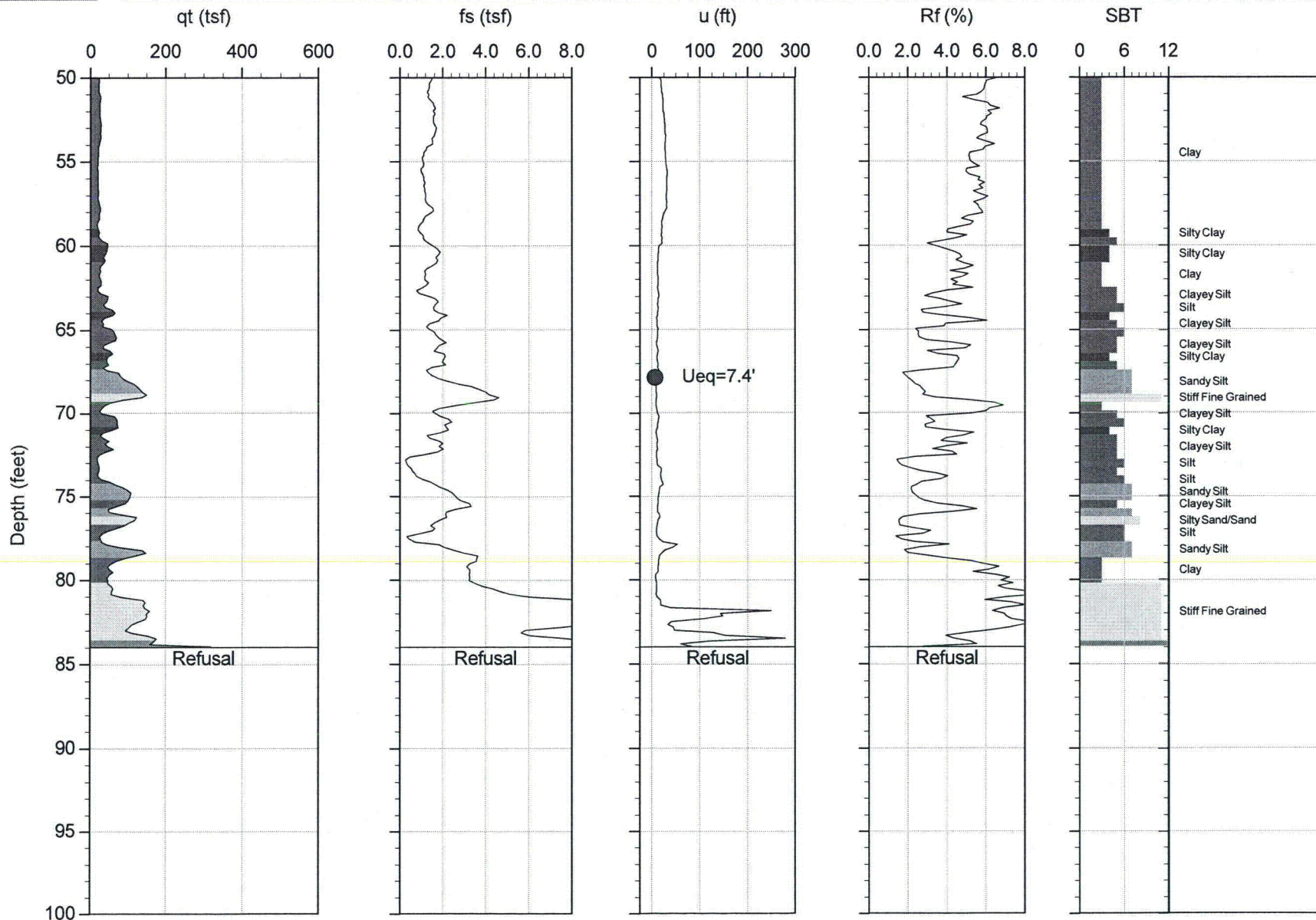
Job No: 13-52118

Date: 11:10:13 08:17

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-28

Cone: 155:T1500F15U500



Max Depth: 25.600 m / 83.99 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP28.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.649767 Long: -108.501117

● Equilibrium Pore Pressure from Dissipation



MWH Americas

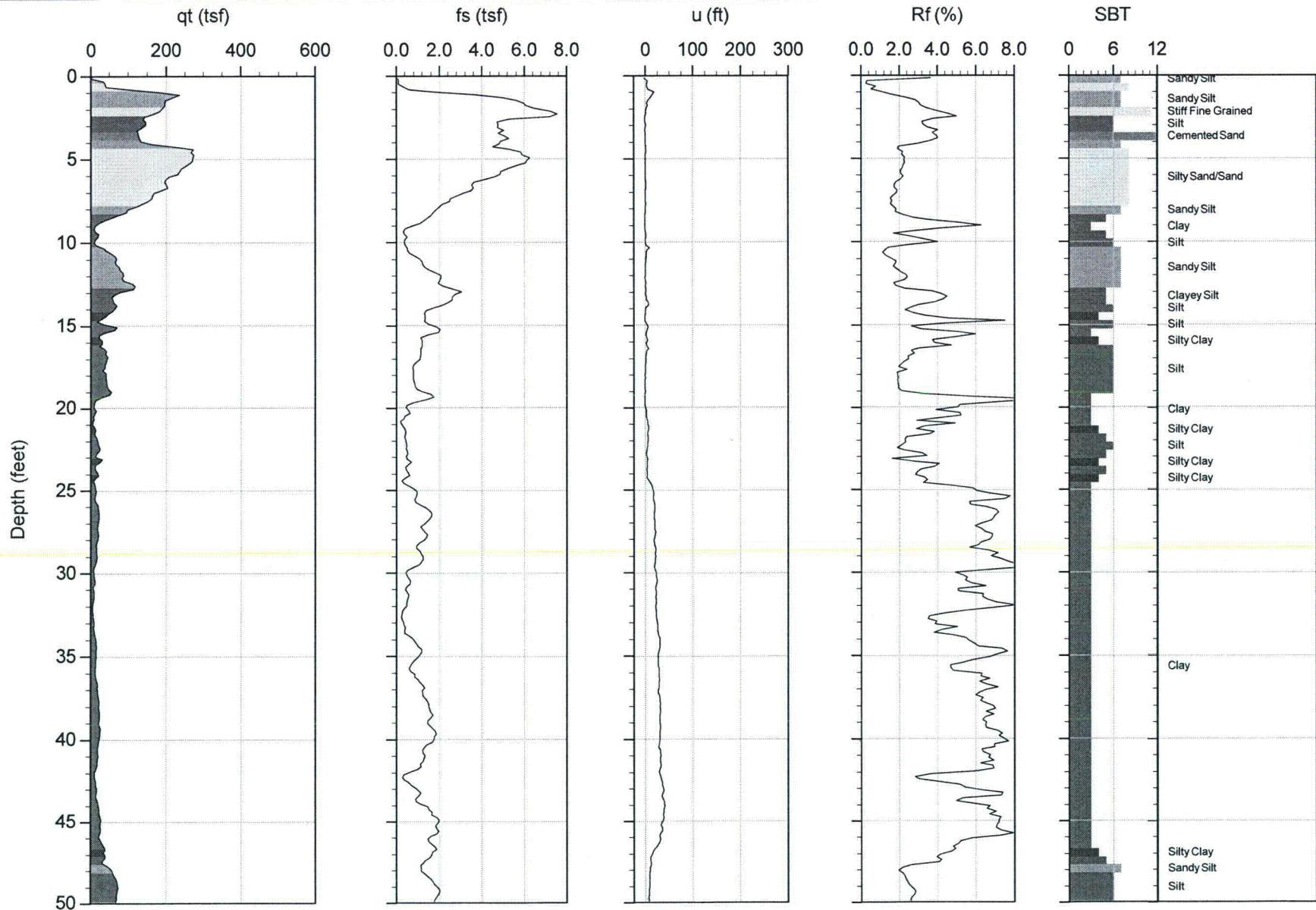
Job No: 13-52118

Date: 11:10:13 09:39

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-29

Cone: 155:T1500F15U500



Max Depth: 31.500 m / 103.35 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP29.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.651200 Long: -108.499183

● Equilibrium Pore Pressure from Dissipation



MWH Americas

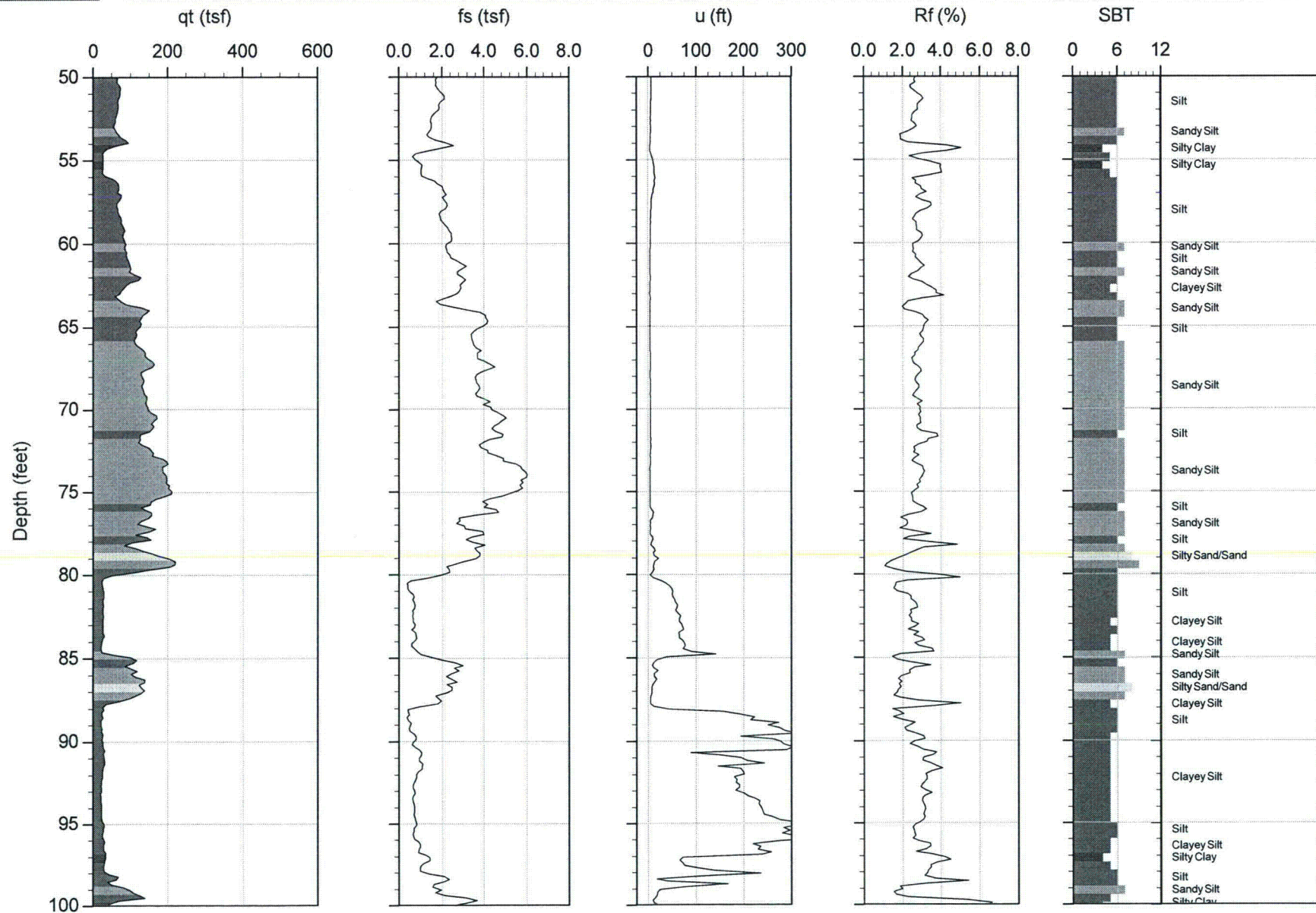
Job No: 13-52118

Date: 11:10:13 09:39

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-29

Cone: 155:T1500F15U500

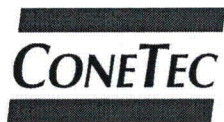


Max Depth: 31.500 m / 103.35 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP29.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.651200 Long: -108.499183

● Equilibrium Pore Pressure from Dissipation



MWH Americas

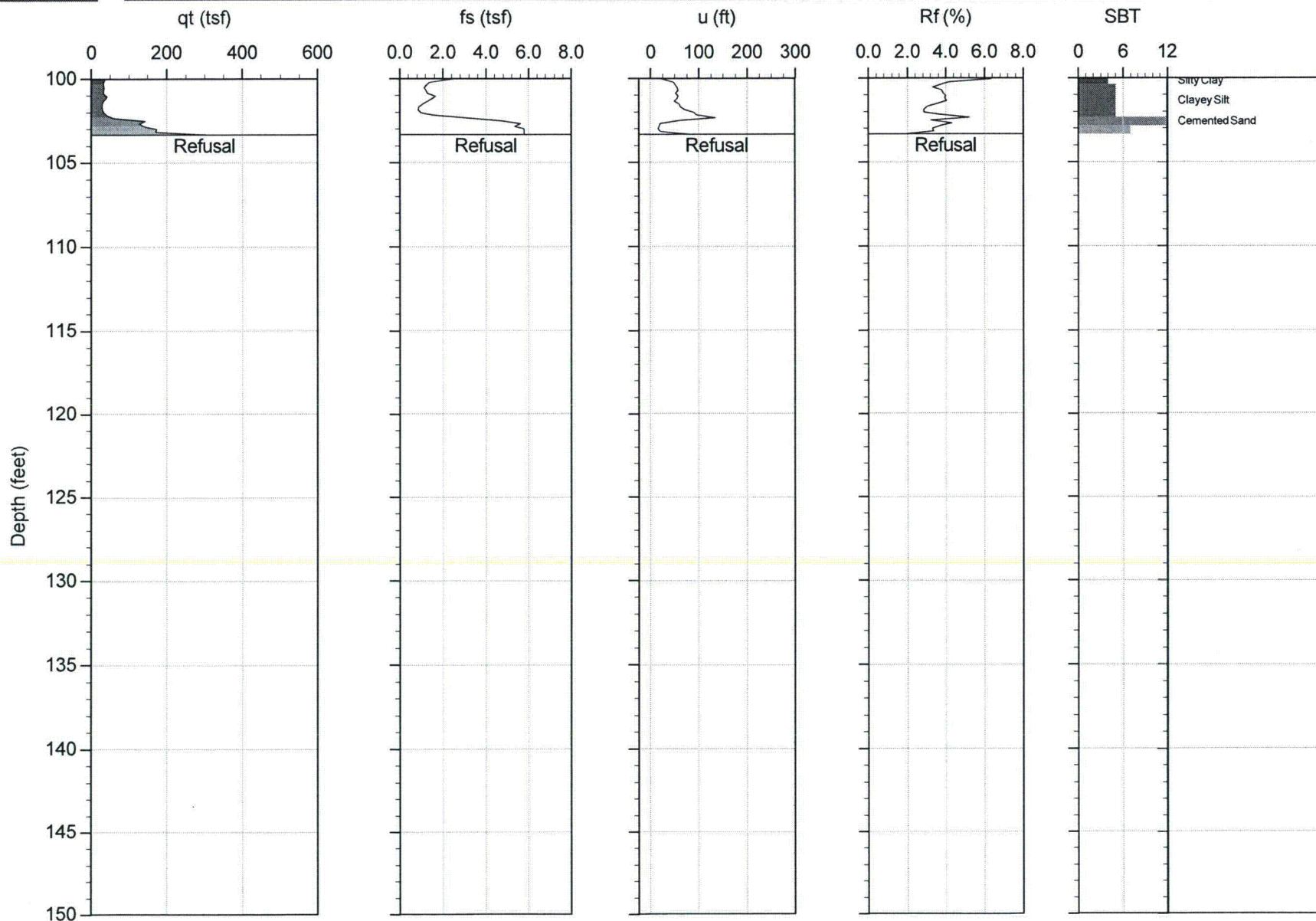
Job No: 13-52118

Date: 11:10:13 09:39

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-29

Cone: 155:T1500F15U500



Max Depth: 31.500 m / 103.35 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP29.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.651200 Long: -108.499183

● Equilibrium Pore Pressure from Dissipation



MWH Americas

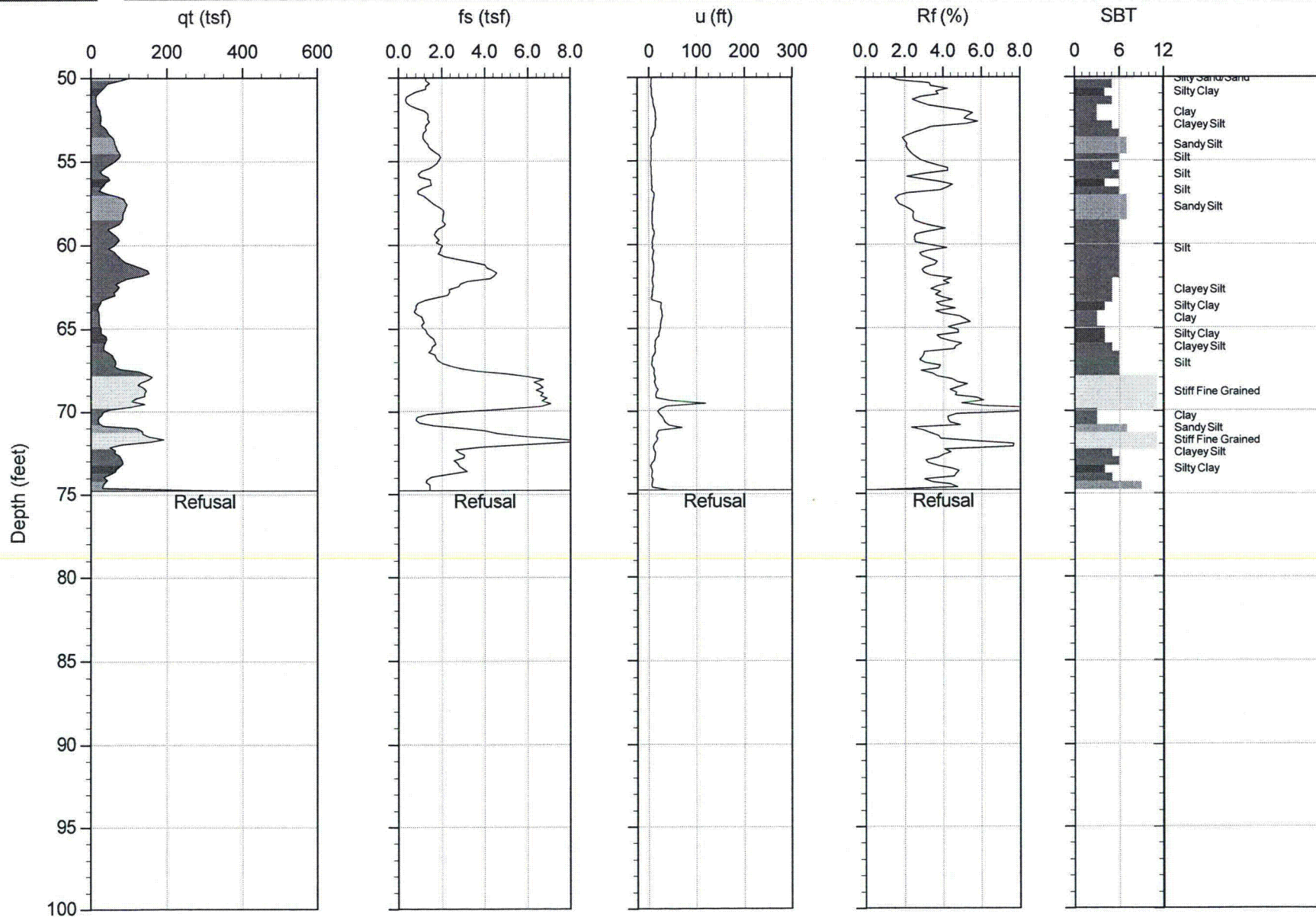
Job No: 13-52118

Date: 11:10:13 10:57

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-30

Cone: 155:T1500F15U500



Max Depth: 22.800 m / 74.80 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP30.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.647250 Long: -108.503350

● Equilibrium Pore Pressure from Dissipation



MWH Americas

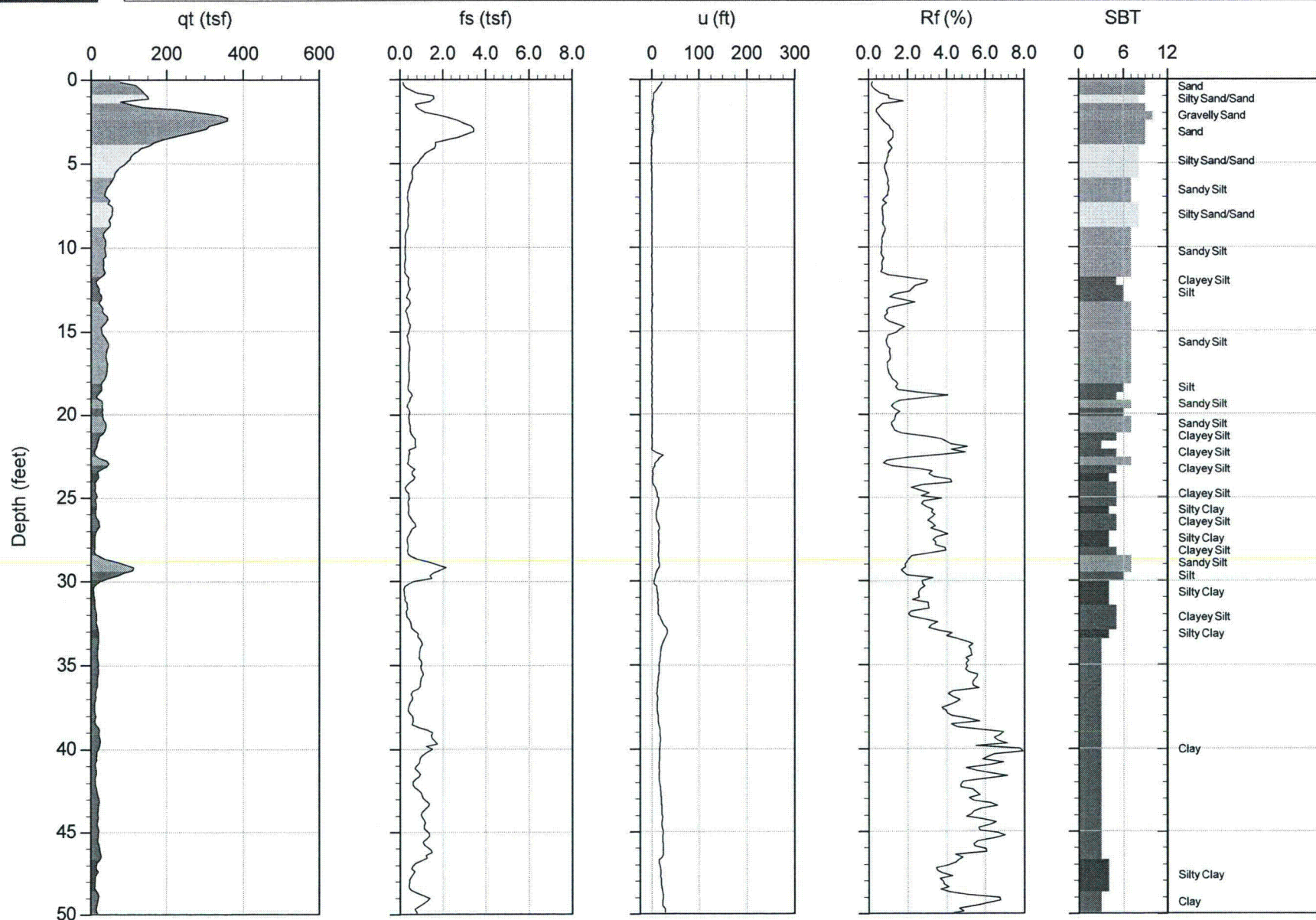
Job No: 13-52118

Date: 11:10:13 13:10

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-31

Cone: 155:T1500F15U500



Max Depth: 24.400 m / 80.05 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP31.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.646450 Long: -108.504917

● Equilibrium Pore Pressure from Dissipation



MWH Americas

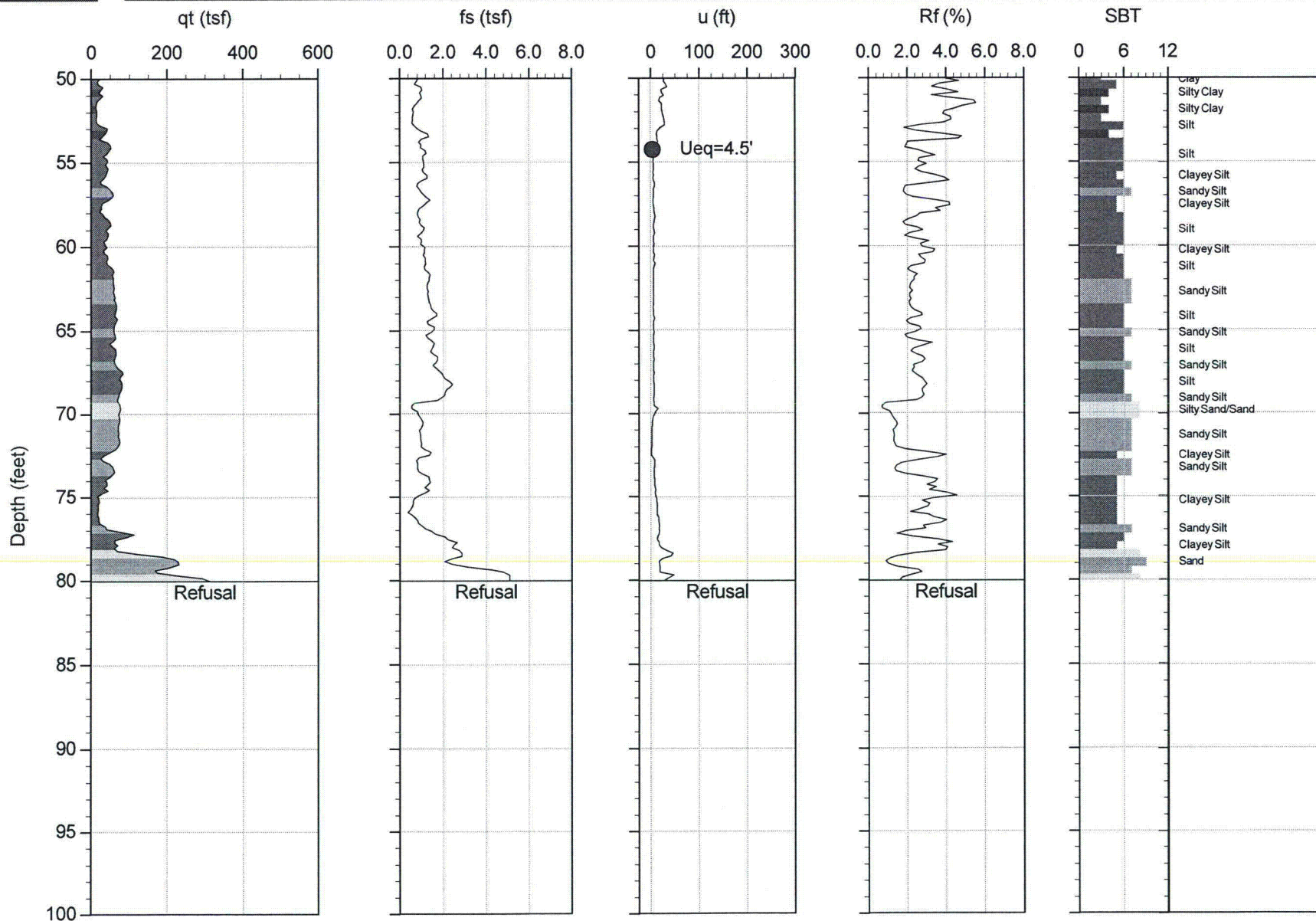
Job No: 13-52118

Date: 11:10:13 13:10

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-31

Cone: 155:T1500F15U500



Max Depth: 24.400 m / 80.05 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP31.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.646450 Long: -108.504917

● Equilibrium Pore Pressure from Dissipation



MWH Americas

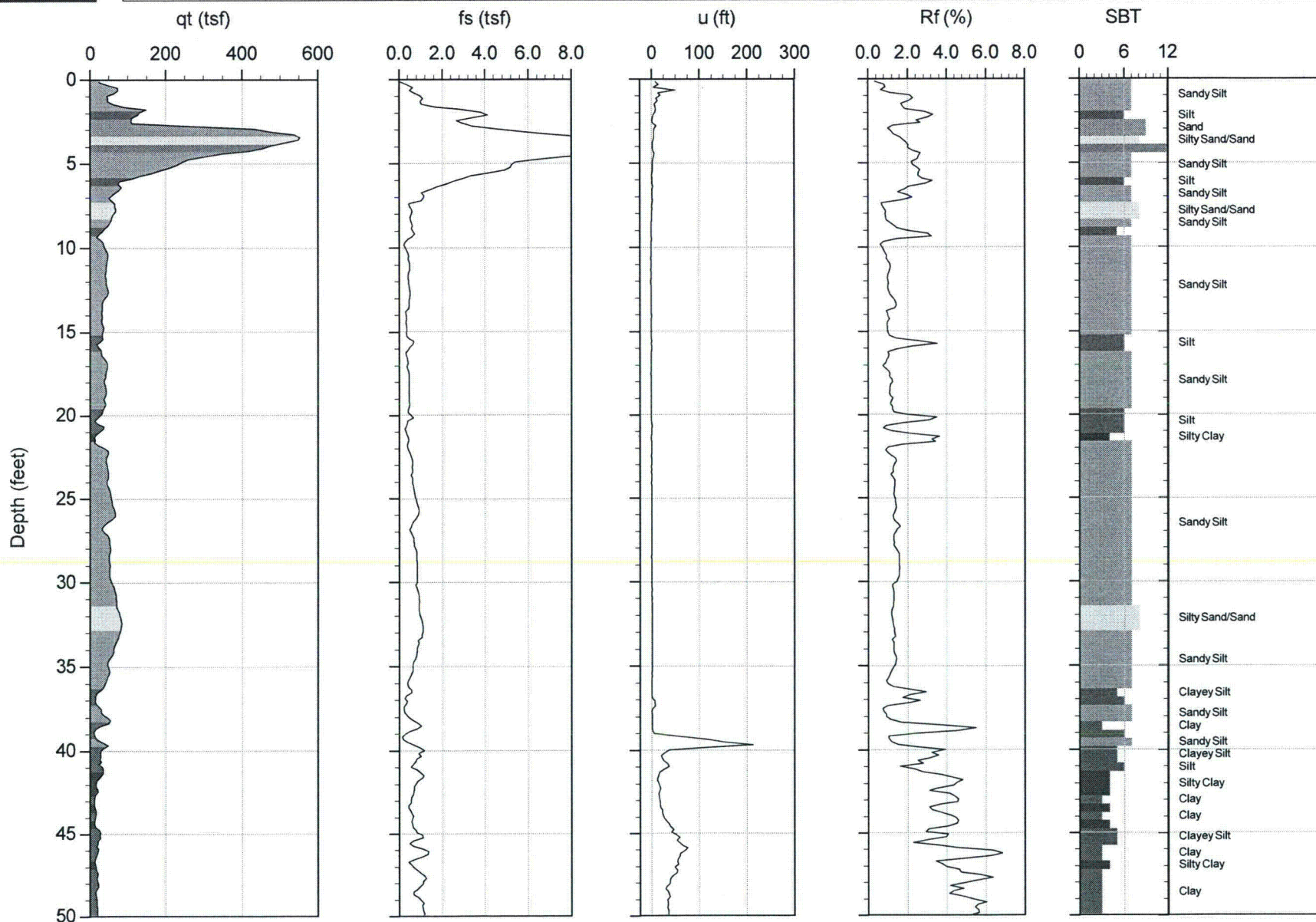
Job No: 13-52118

Date: 11:10:13 14:12

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-32

Cone: 155:T1500F15U500



Max Depth: 36.300 m / 119.09 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP32.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.645383 Long: -108.505983

● Equilibrium Pore Pressure from Dissipation



MWH Americas

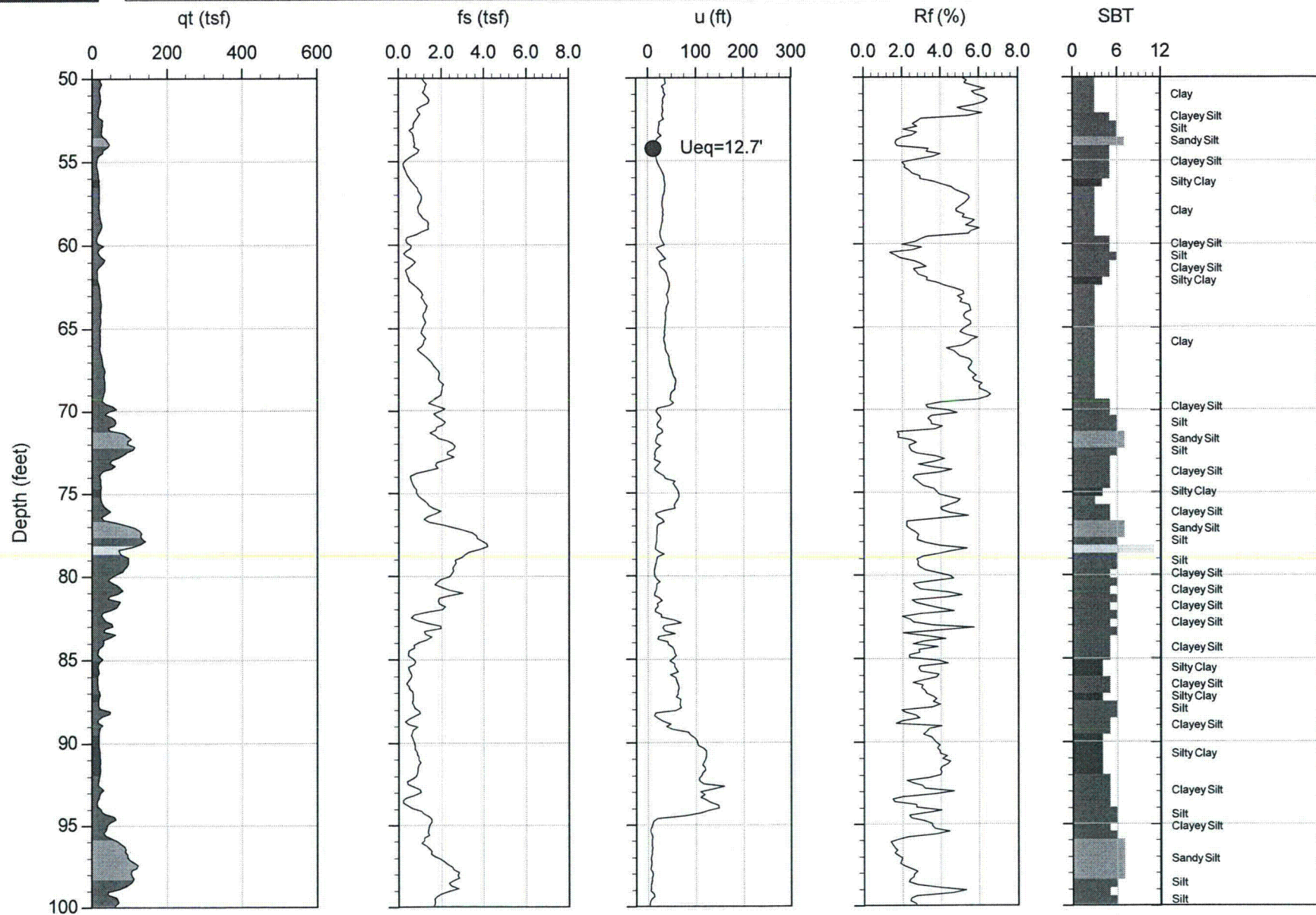
Job No: 13-52118

Date: 11:10:13 14:12

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-32

Cone: 155:T1500F15U500



Max Depth: 36.300 m / 119.09 ft
Depth Inc: 0.050 m / 0.164 ft
Avg Int: 0.150 m

File: 13-52118_RP32.COR
Unit Wt: SBT Chart Soil Zones

SBT: Lunne, Robertson and Powell, 1997
Coords: Lat: 35.645383 Long: -108.505983

● Equilibrium Pore Pressure from Dissipation

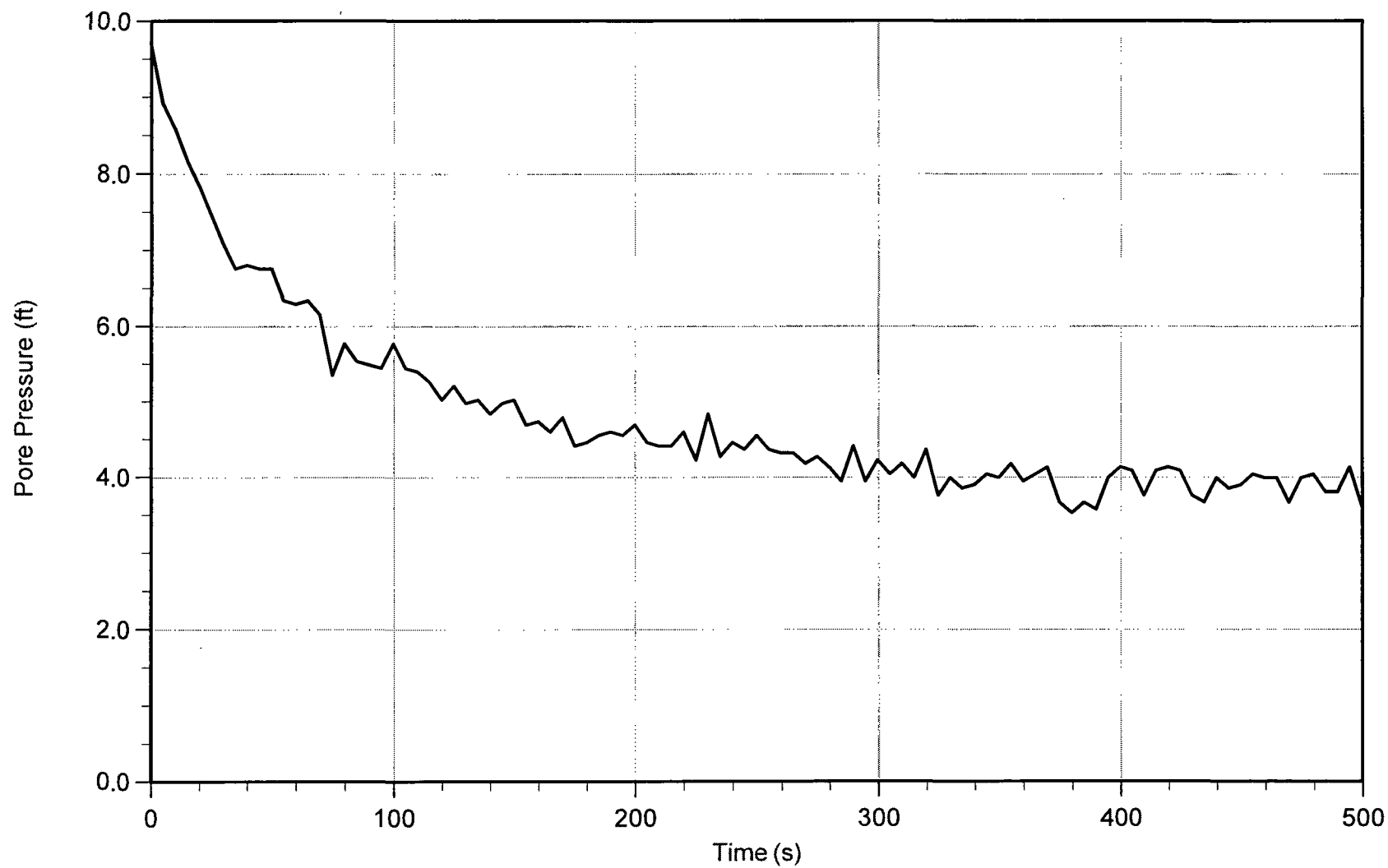
PPD Plots



MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 15:36:46
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-01
Cone: 155
Cone Area: 15 sq cm



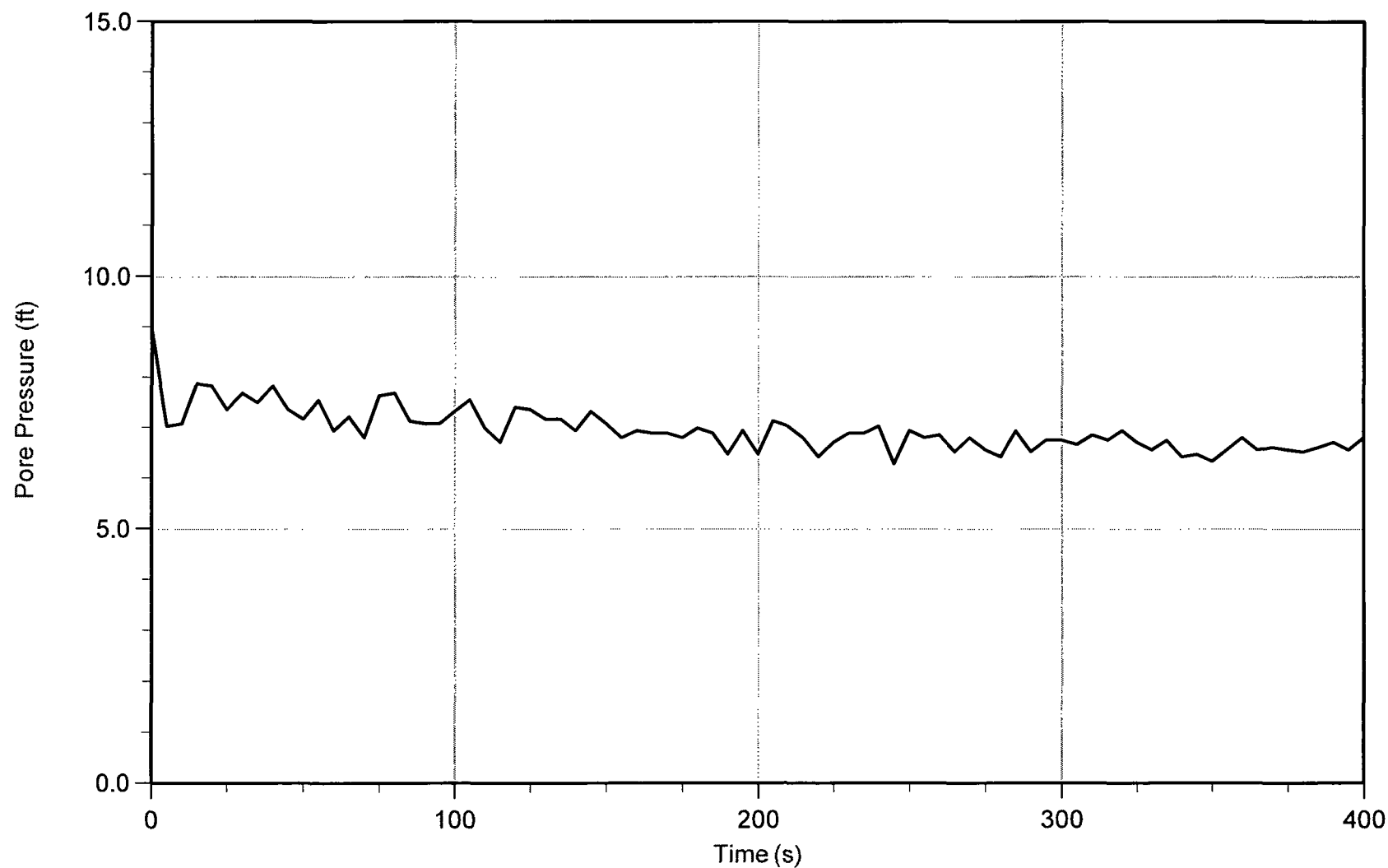
Trace Summary: Filename: 13-52118_RP01.PPD U Min: 3.5 ft WT: 9.573 m / 31.407 ft
 Depth: 10.750 m / 35.269 ft U Max: 9.7 ft Ueq: 3.9 ft
 Duration: 500.0 s



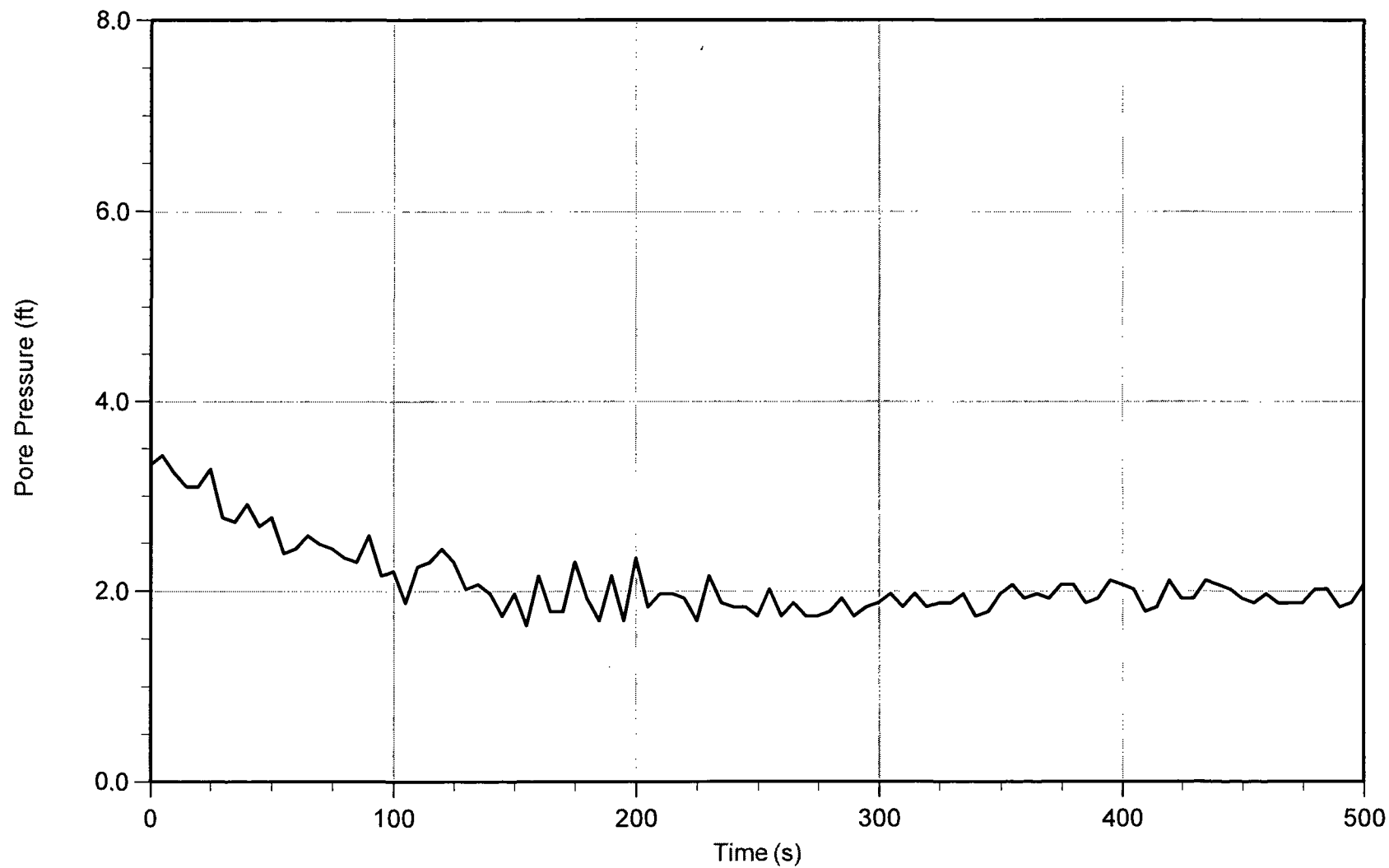
MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 15:36:46
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-01
Cone: 155
Cone Area: 15 sq cm



Trace Summary:	Filename: 13-52118_RP01.PPD	U Min: 6.3 ft	WT: 20.098 m / 65.937 ft
	Depth: 22.100 m / 72.506 ft	U Max: 9.0 ft	Ueq: 6.6 ft
	Duration: 400.0 s		



Trace Summary: Filename: 13-52118_RP02.PPD
Depth: 8.050 m / 26.410 ft
Duration: 500.0 s

U Min: 1.6 ft
U Max: 3.4 ft

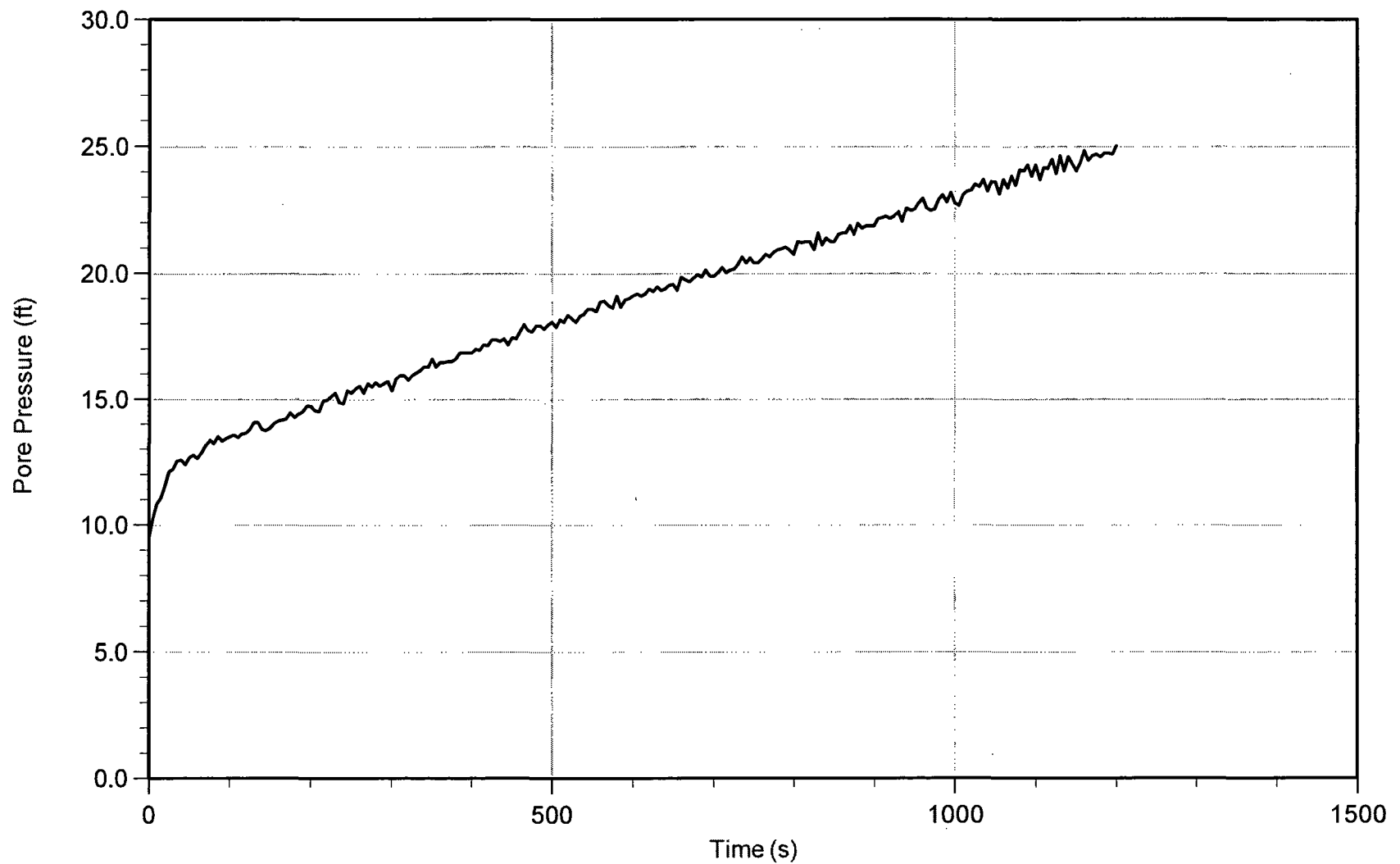
WT: 7.461 m / 24.479 ft
Ueq: 1.9 ft



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Job No: 13-52118
Date: 05-Nov-2013 13:37:58
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-02
Cone: 155
Cone Area: 15 sq cm



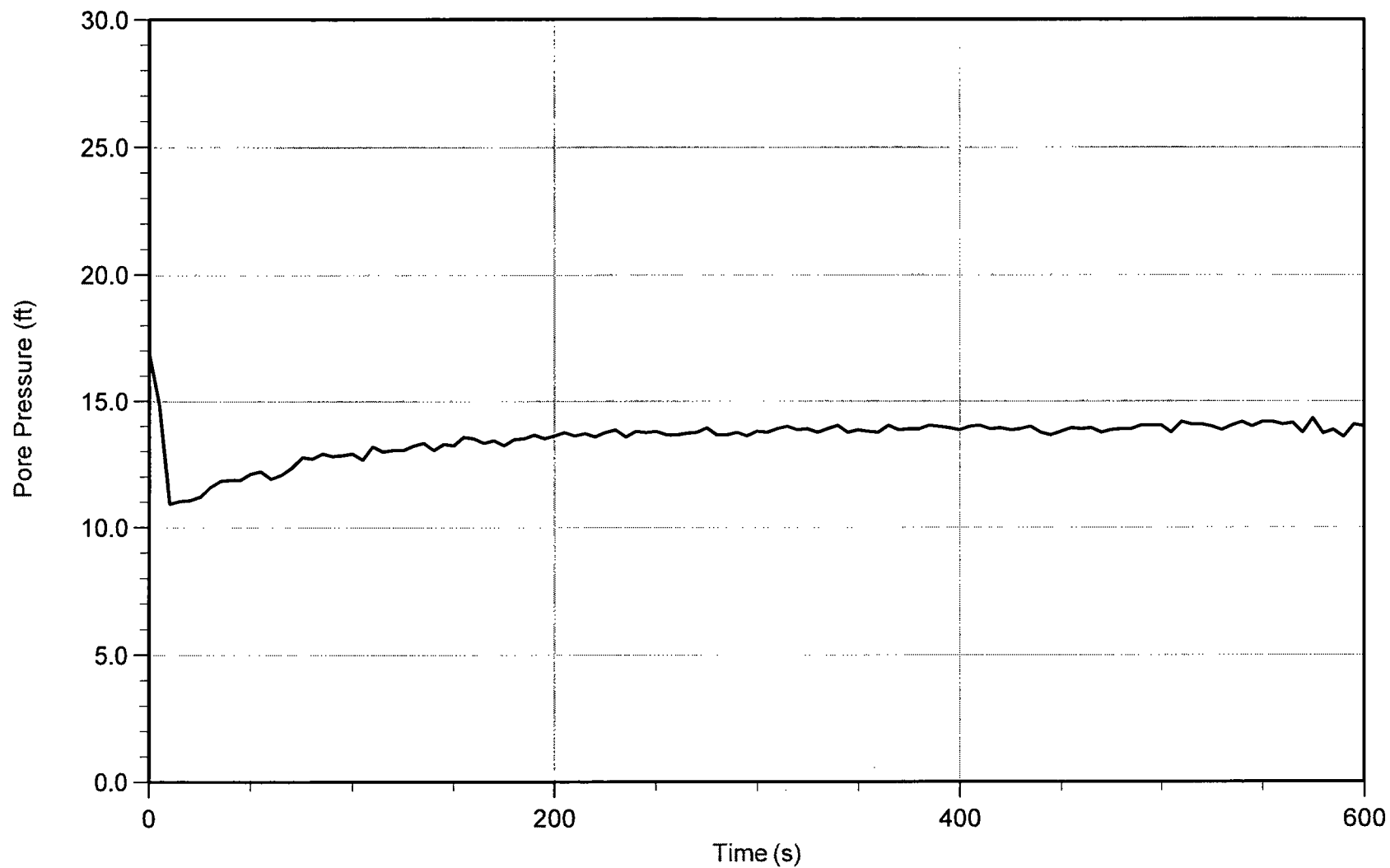
Trace Summary: Filename: 13-52118_RP02.PPD U Min: 9.5 ft
Depth: 9.150 m / 30.019 ft U Max: 25.0 ft
Duration: 1200.0 s



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Job No: 13-52118
Date: 05-Nov-2013 13:37:58
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-02
Cone: 155
Cone Area: 15 sq cm



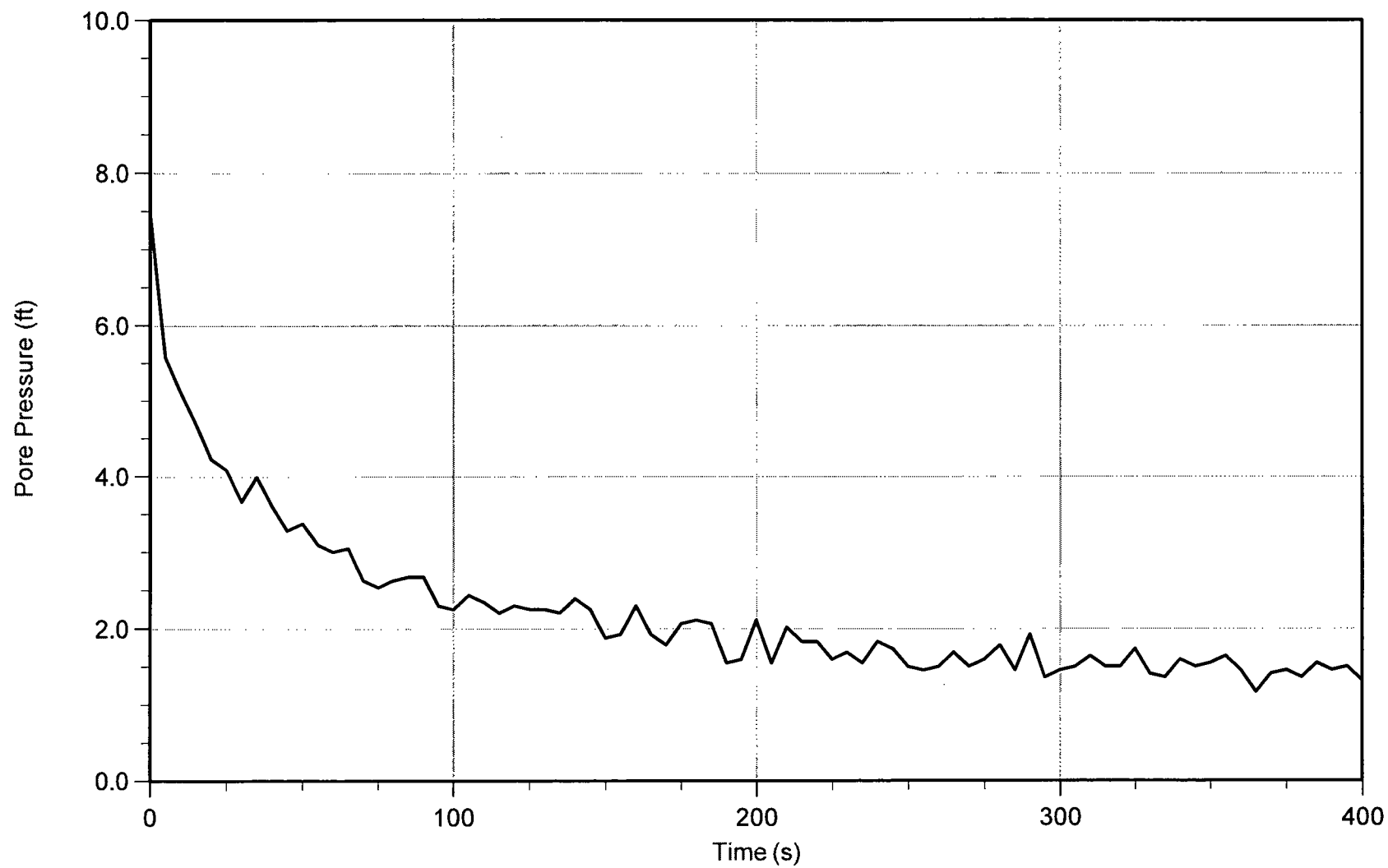
Trace Summary:	Filename: 13-52118_RP02.PPD	U Min: 10.9 ft	WT: 6.025 m / 19.766 ft
	Depth: 10.250 m / 33.628 ft	U Max: 16.9 ft	Ueq: 13.9 ft
	Duration: 600.0 s		



MWH Americas

Job No: 13-52118
Date: 05-Nov-2013 13:39:58
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-04
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP04.PPD U Min: 1.2 ft WT: 7.369 m / 24.176 ft
Depth: 7.800 m / 25.590 ft U Max: 7.5 ft Ueq: 1.4 ft
Duration: 400.0 s

CONETEC

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Job No: 13-52118

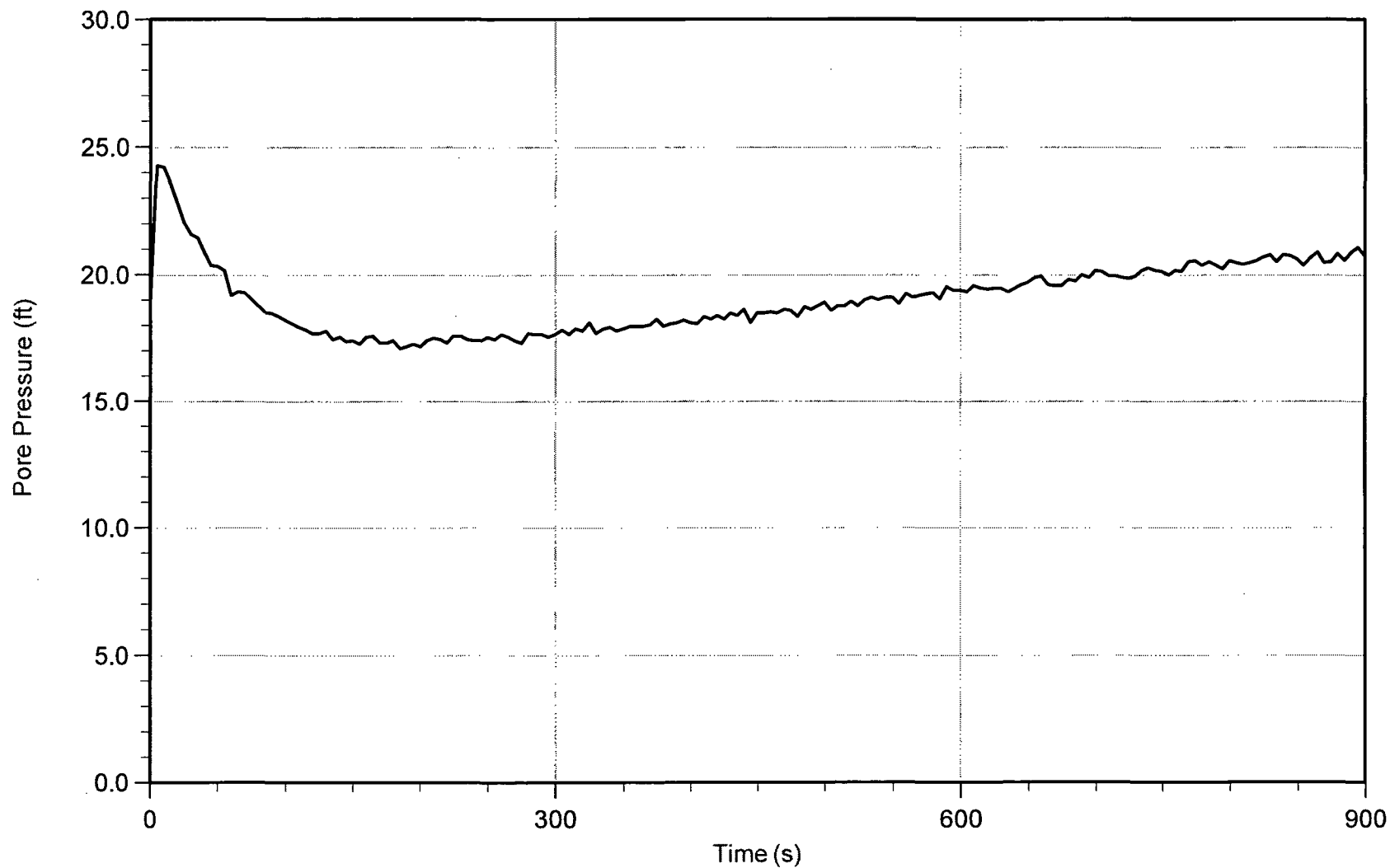
Date: 06-Nov-2013 08:30:57

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-05

Cone: 155

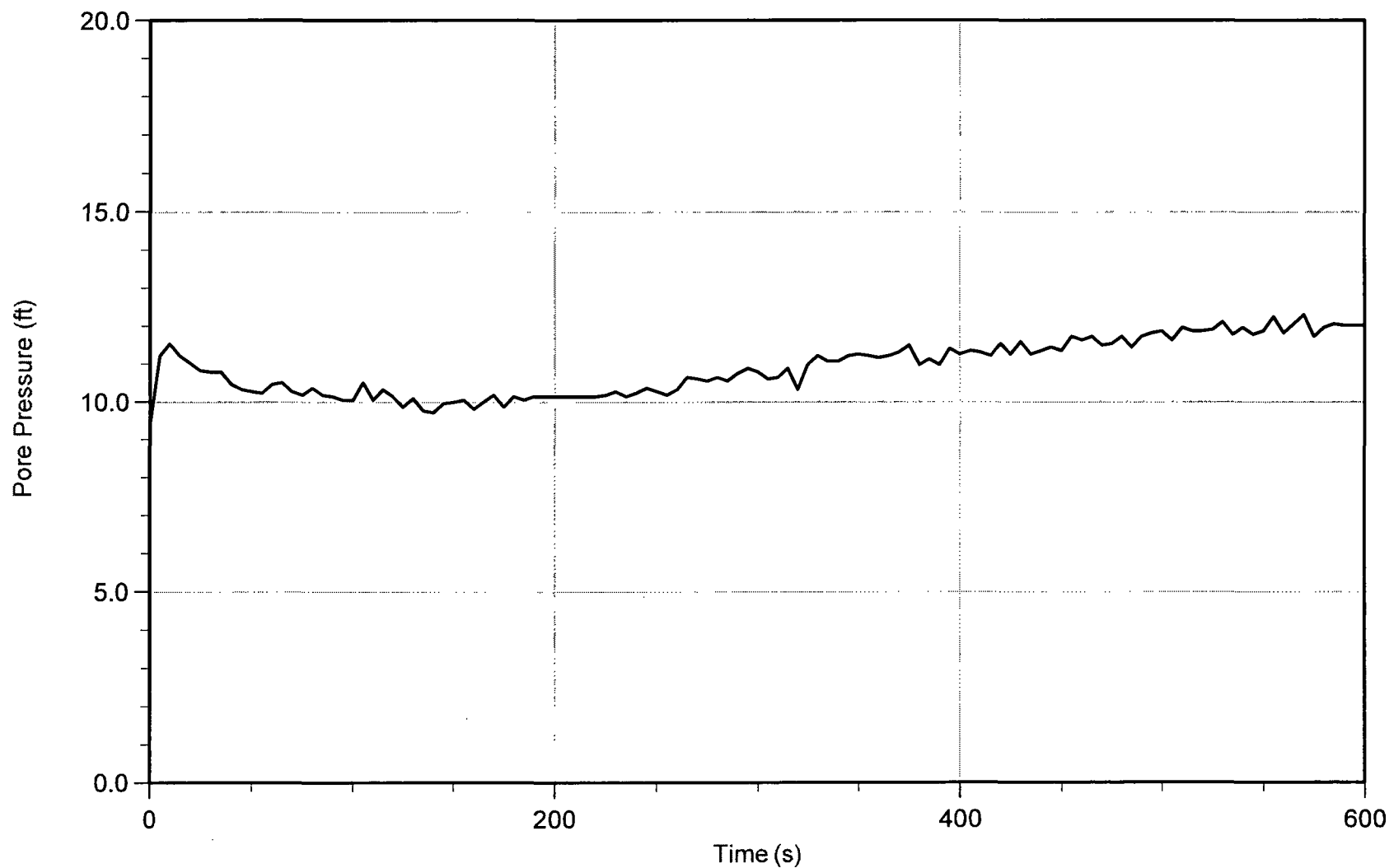
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP05.PPD
 Depth: 3.850 m / 12.631 ft
 Duration: 900.0 s

U Min: 17.1 ft
U Max: 24.3 ft

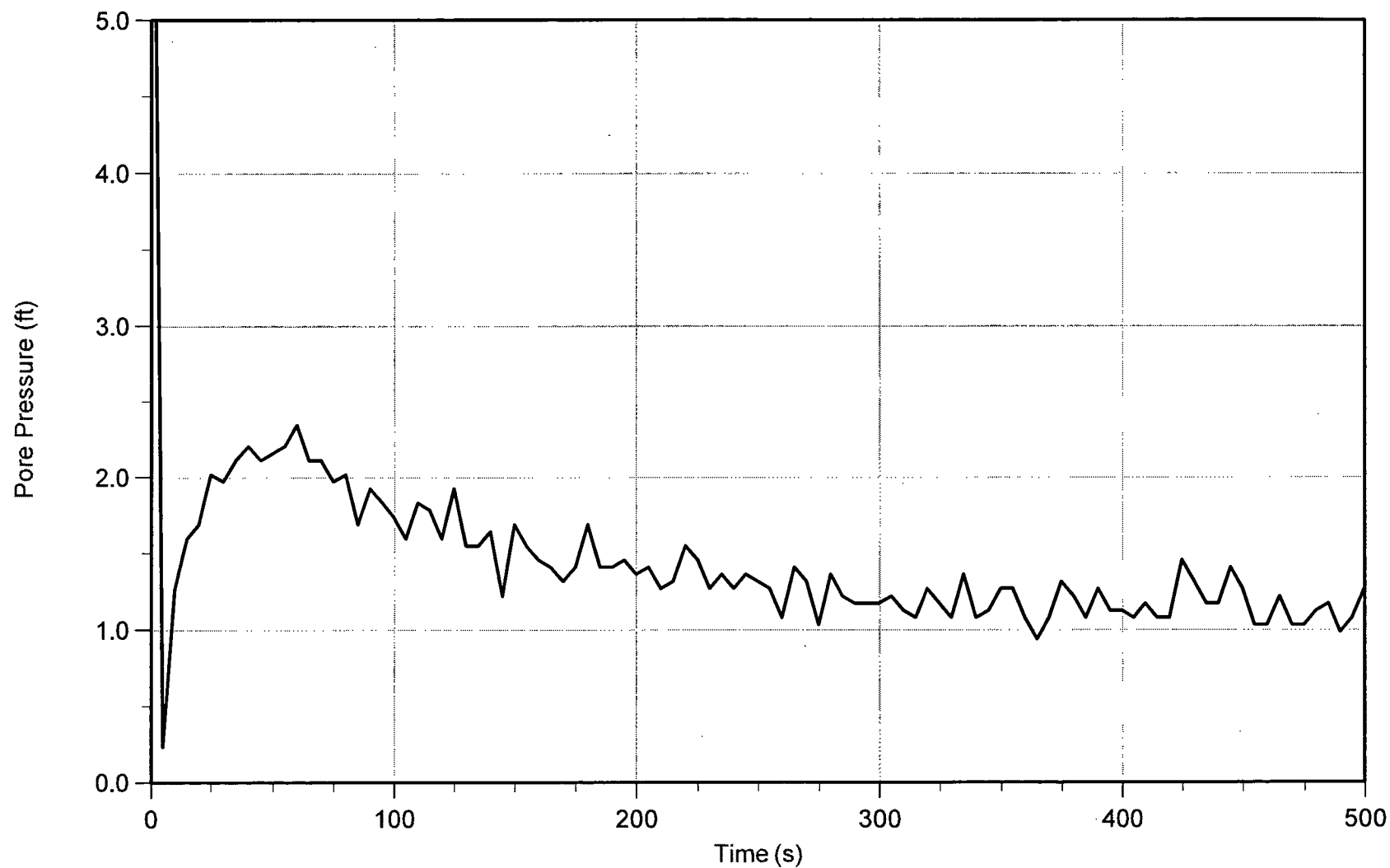
WT: -2.551 m / -8.369 ft
Ueq: 21.0 ft



Trace Summary: Filename: 13-52118_RP05.PPD
Depth: 7.900 m / 25.918 ft
Duration: 600.0 s

U Min: 9.4 ft
U Max: 12.3 ft

WT: 4.242 m / 13.918 ft
Ueq: 12.0 ft



Trace Summary: Filename: 13-52118_RP05.PPD U Min: 0.2 ft WT: 11.203 m / 36.755 ft
 Depth: 11.550 m / 37.893 ft U Max: 8.2 ft Ueq: 1.1 ft
 Duration: 500.0 s

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MWH Americas

Job No: 13-52118

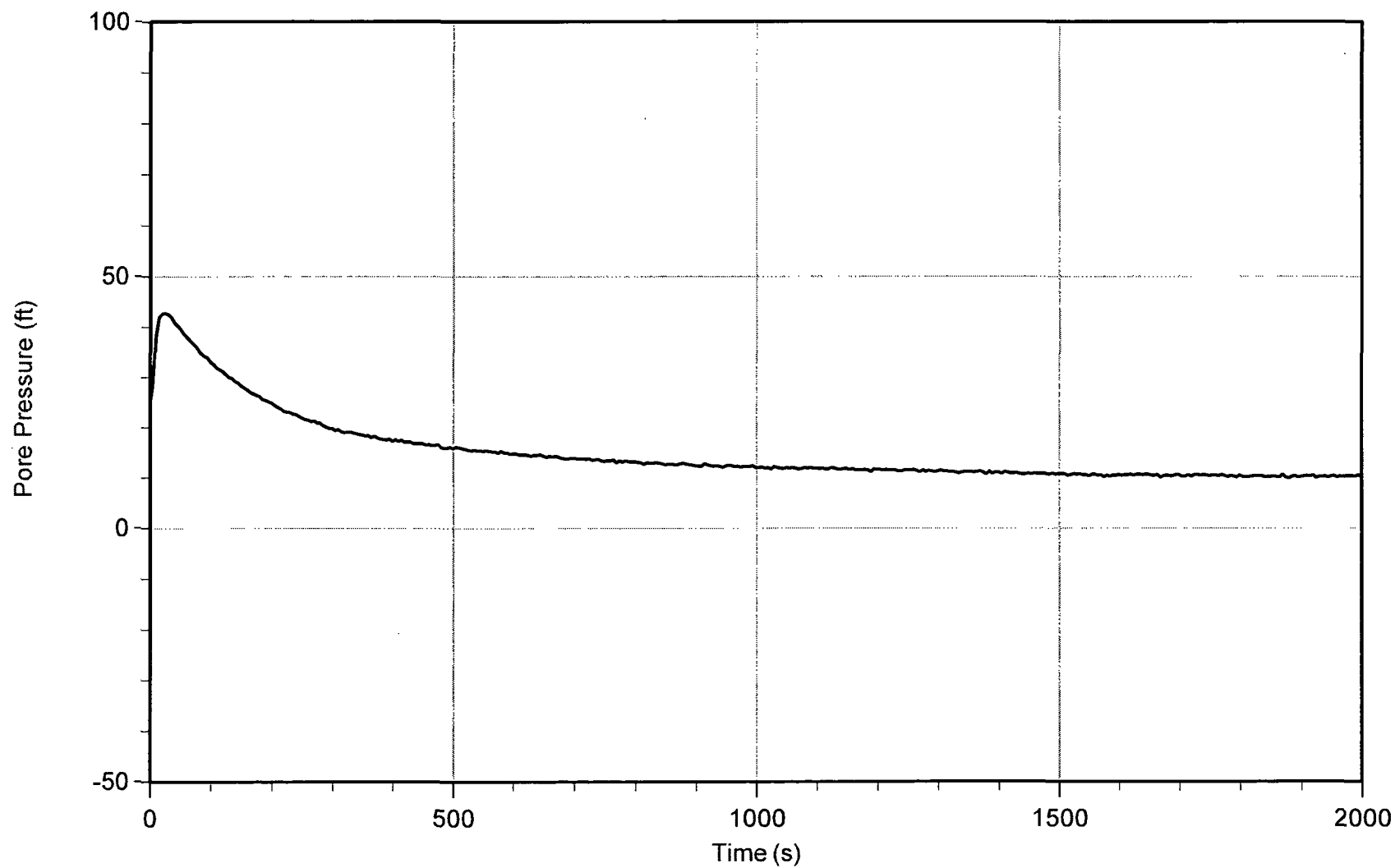
Date: 06-Nov-2013 13:01:16

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-06

Cone: 155

Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP06.PPD
Depth: 6.300 m / 20.669 ft
Duration: 2000.0 s

U Min: 9.8 ft
U Max: 42.6 ft

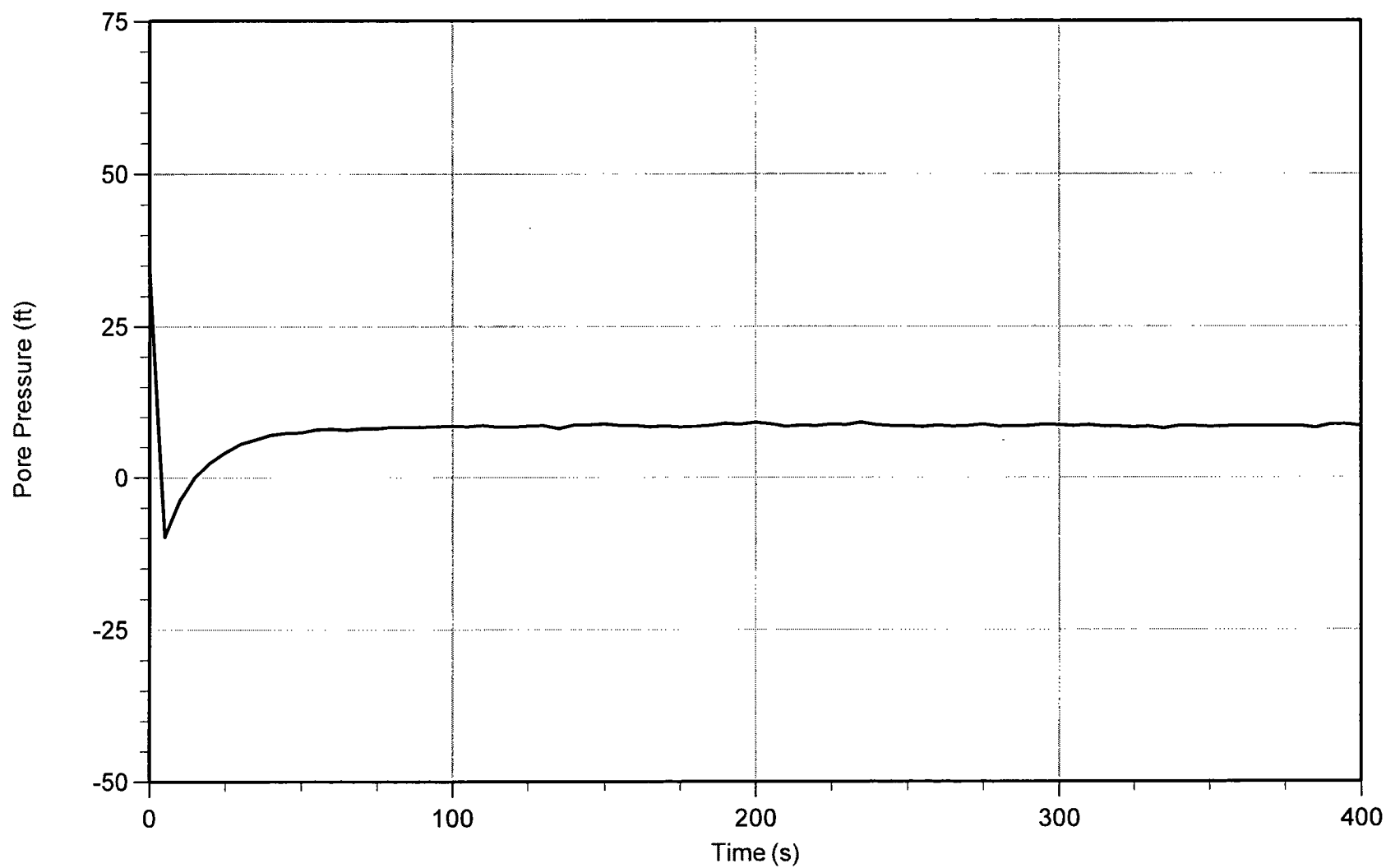
WT: 3.252 m / 10.669 ft
Ueq: 10.0 ft



MWH Americas

Job No: 13-52118
Date: 06-Nov-2013 13:01:16
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-06
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP06.PPD
Depth: 11.050 m / 36.253 ft
Duration: 400.0 s

U Min: -9.9 ft
U Max: 34.1 ft

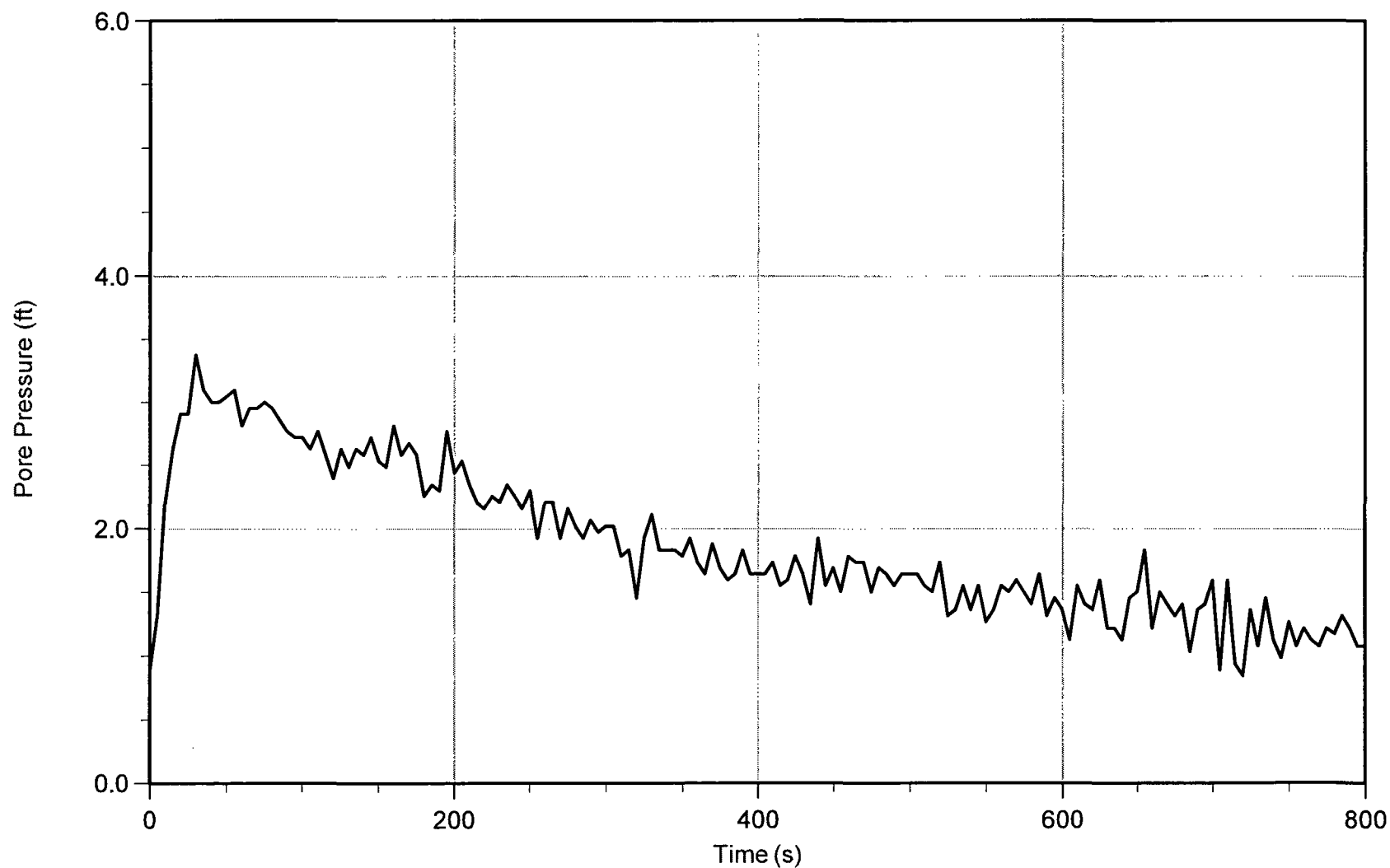
WT: 8.554 m / 28.063 ft
Ueq: 8.2 ft



MWH Americas

Job No: 13-52118
Date: 08-Nov-2013 11:13:46
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-07
Cone: 155
Cone Area: 15 sq cm



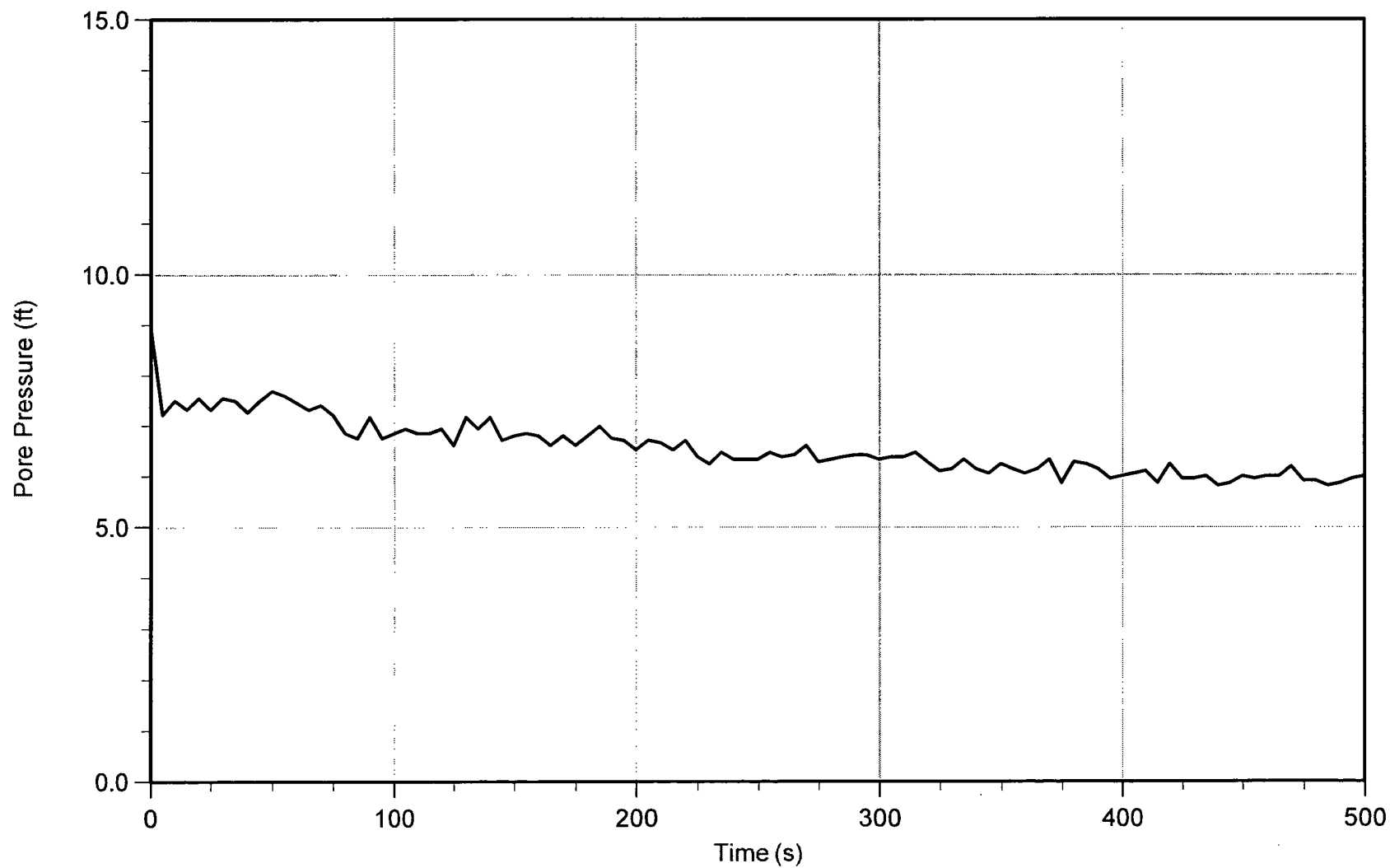
Trace Summary: Filename: 13-52118_RP07.PPD U Min: 0.8 ft WT: 8.603 m / 28.225 ft
 Depth: 8.950 m / 29.363 ft U Max: 3.4 ft Ueq: 1.1 ft
 Duration: 800.0 s



MWH Americas

Job No: 13-52118
Date: 08-Nov-2013 11:13:46
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-07
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP07.PPD
Depth: 13.300 m / 43.635 ft
Duration: 500.0 s

U Min: 5.8 ft
U Max: 8.9 ft

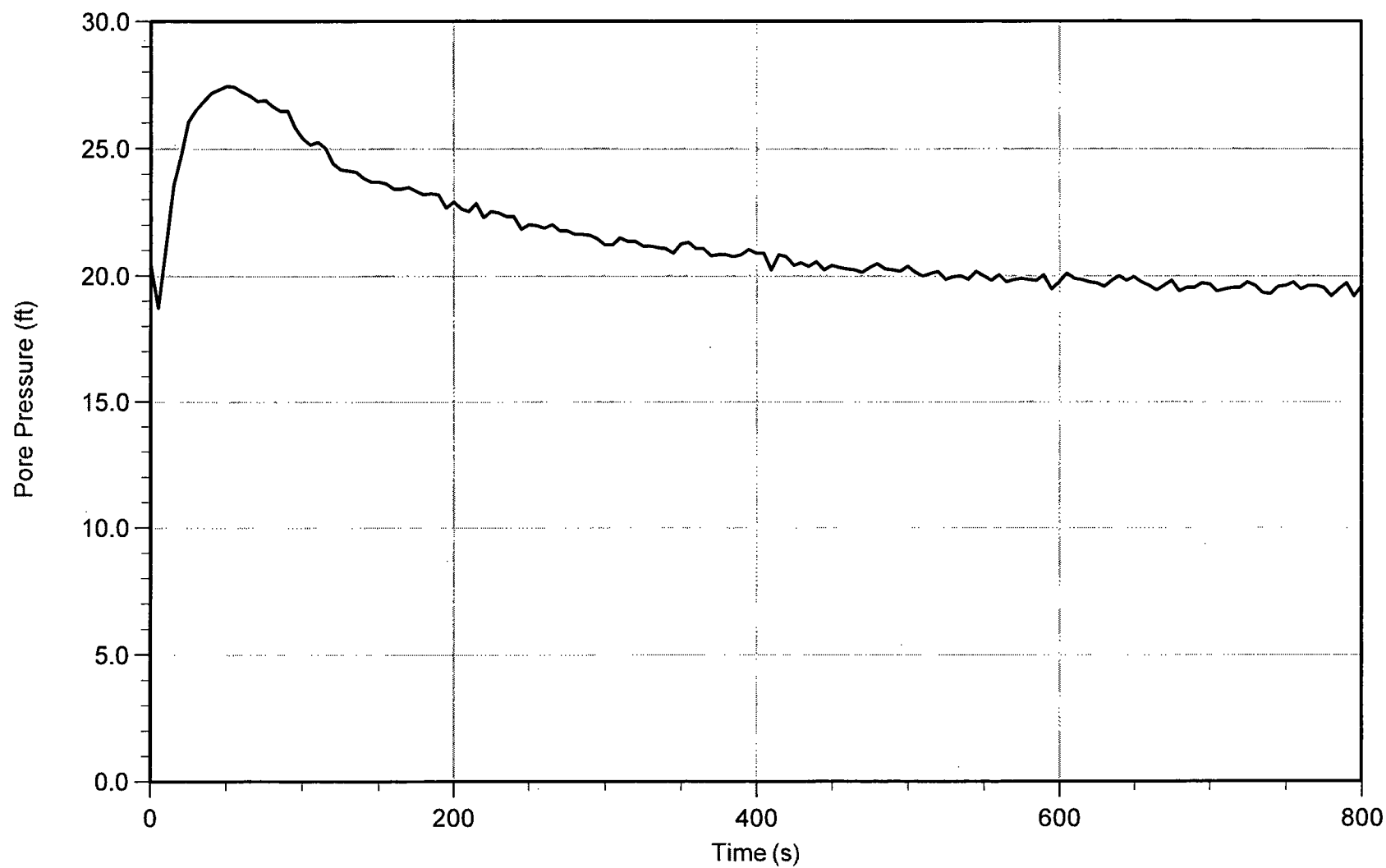
WT: 11.471 m / 37.635 ft
Ueq: 6.0 ft



MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 08:21:49
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-08
Cone: 155
Cone Area: 15 sq cm



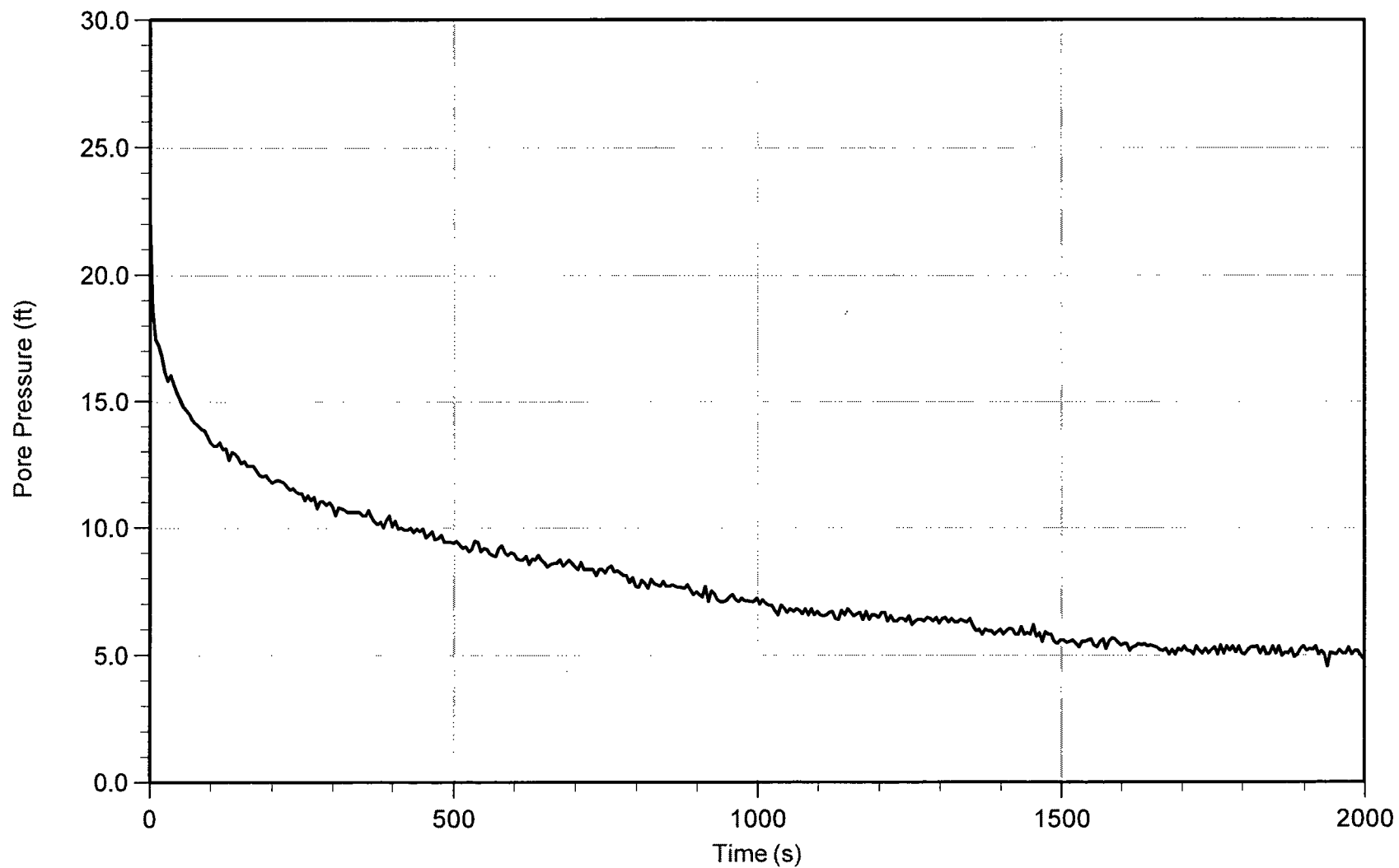
Trace Summary: Filename: 13-52118_RP08.PPD U Min: 18.7 ft WT: 3.722 m / 12.212 ft
 Depth: 9.650 m / 31.660 ft U Max: 27.5 ft Ueq: 19.4 ft
 Duration: 800.0 s



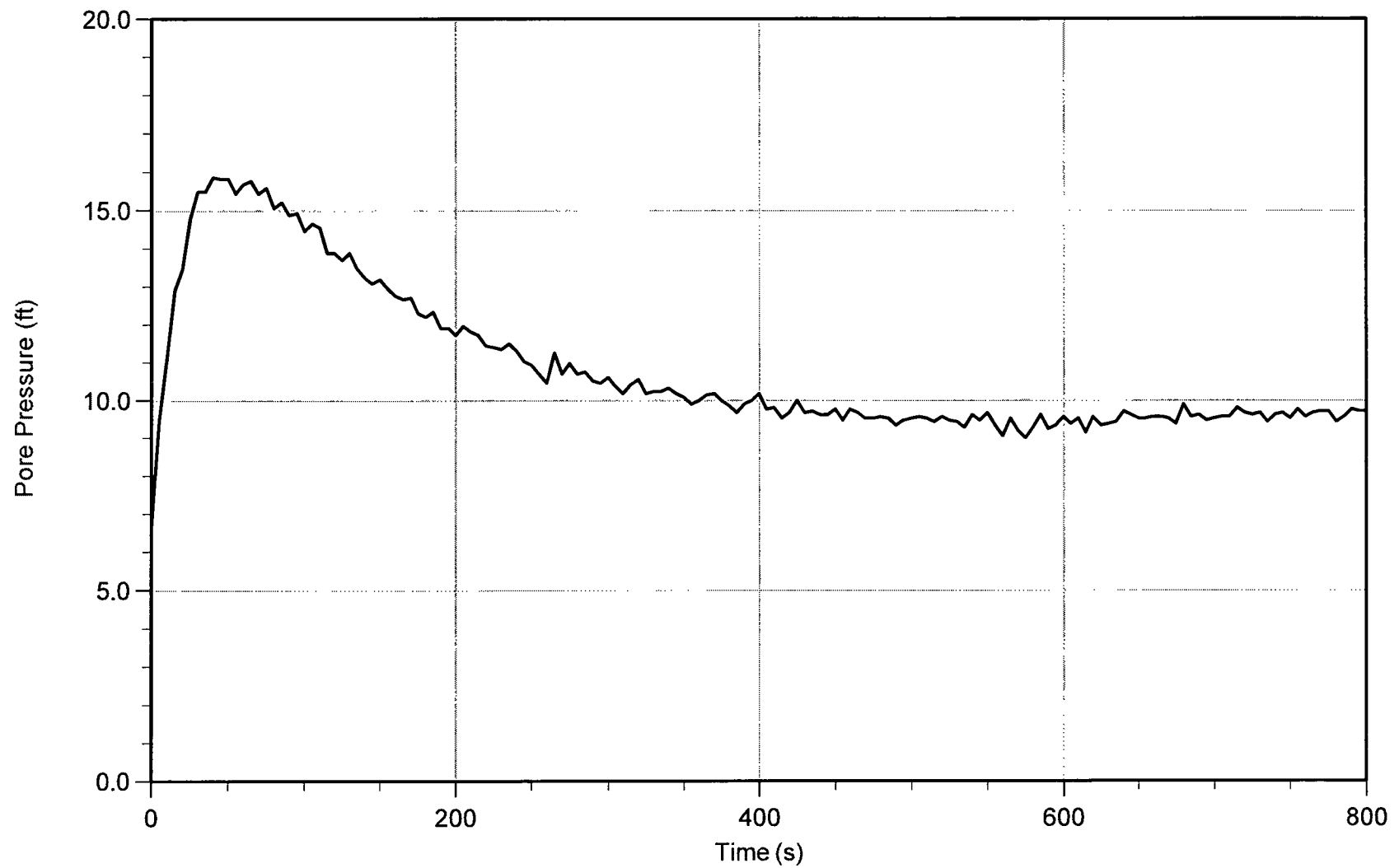
MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 08:21:49
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-08
Cone: 155
Cone Area: 15 sq cm



Trace Summary:	Filename: 13-52118_RP08.PPD	U Min: 4.6 ft	WT: 15.105 m / 49.556 ft
	Depth: 16.650 m / 54.625 ft	U Max: 22.1 ft	Ueq: 5.1 ft
	Duration: 2010.0 s		



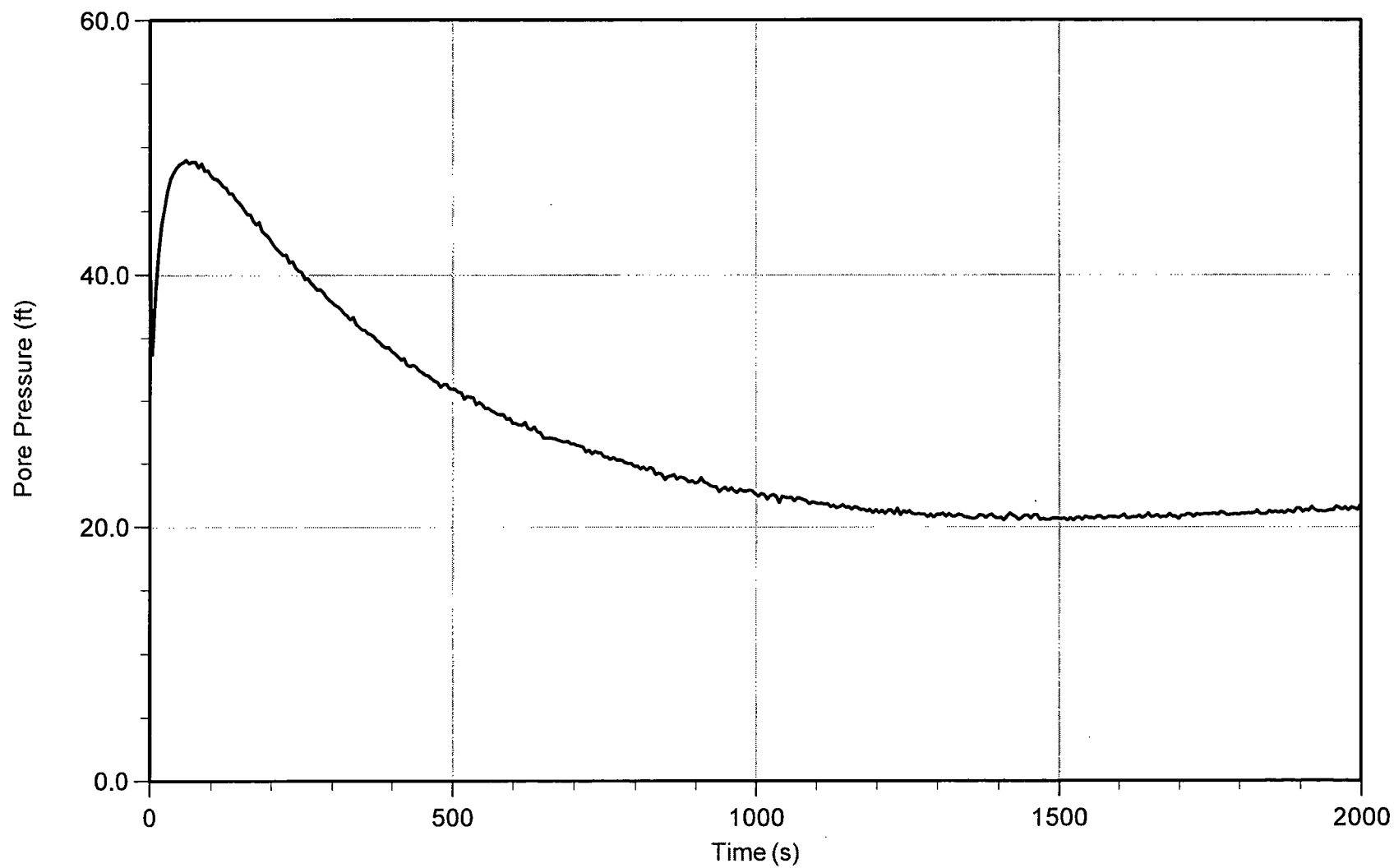
Trace Summary:	Filename: 13-52118_RP09.PPD	U Min: 6.7 ft	WT: 5.178 m / 16.988 ft
	Depth: 8.100 m / 26.574 ft	U Max: 15.9 ft	Ueq: 9.6 ft
	Duration: 800.0 s		



MWH Americas

Job No: 13-52118
Date: 06-Nov-2013 10:23:48
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-10
Cone: 155
Cone Area: 15 sq cm



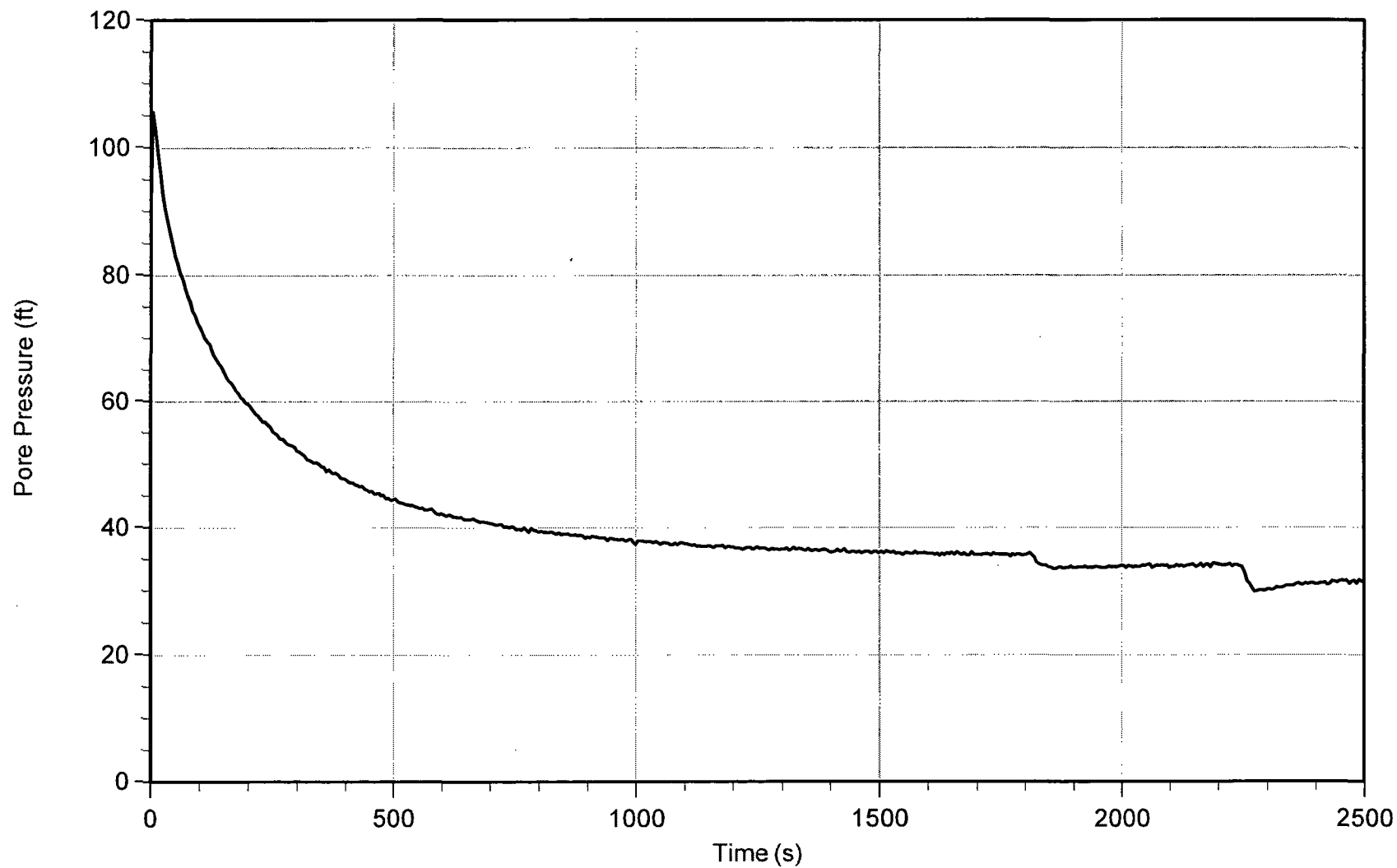
Trace Summary: Filename: 13-52118_RP10.PPD U Min: 20.5 ft WT: 0.205 m / 0.671 ft
 Depth: 6.700 m / 21.981 ft U Max: 49.0 ft Ueq: 21.3 ft
 Duration: 2000.0 s



MWH Americas

Job No: 13-52118
Date: 06-Nov-2013 10:23:48
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-10
Cone: 155
Cone Area: 15 sq cm



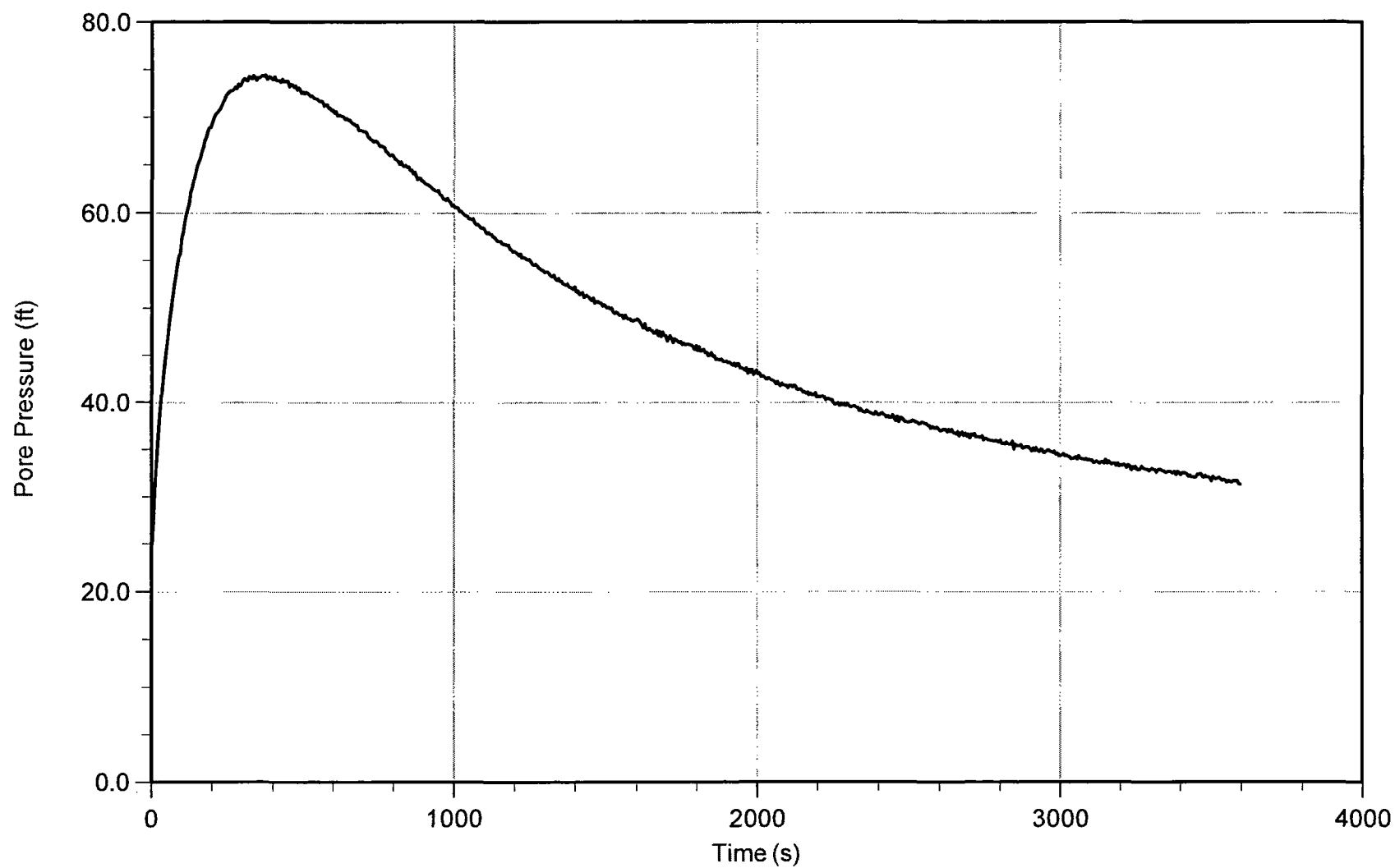
Trace Summary: Filename: 13-52118_RP10.PPD U Min: 29.9 ft WT: 1.615 m / 5.297 ft
Depth: 11.200 m / 36.745 ft U Max: 105.5 ft Ueq: 31.4 ft
Duration: 2500.0 s



MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 12:13:16
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-11
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP11.PPD
Depth: 16.200 m / 53.149 ft
Duration: 3600.0 s

U Min: 25.1 ft
U Max: 74.4 ft

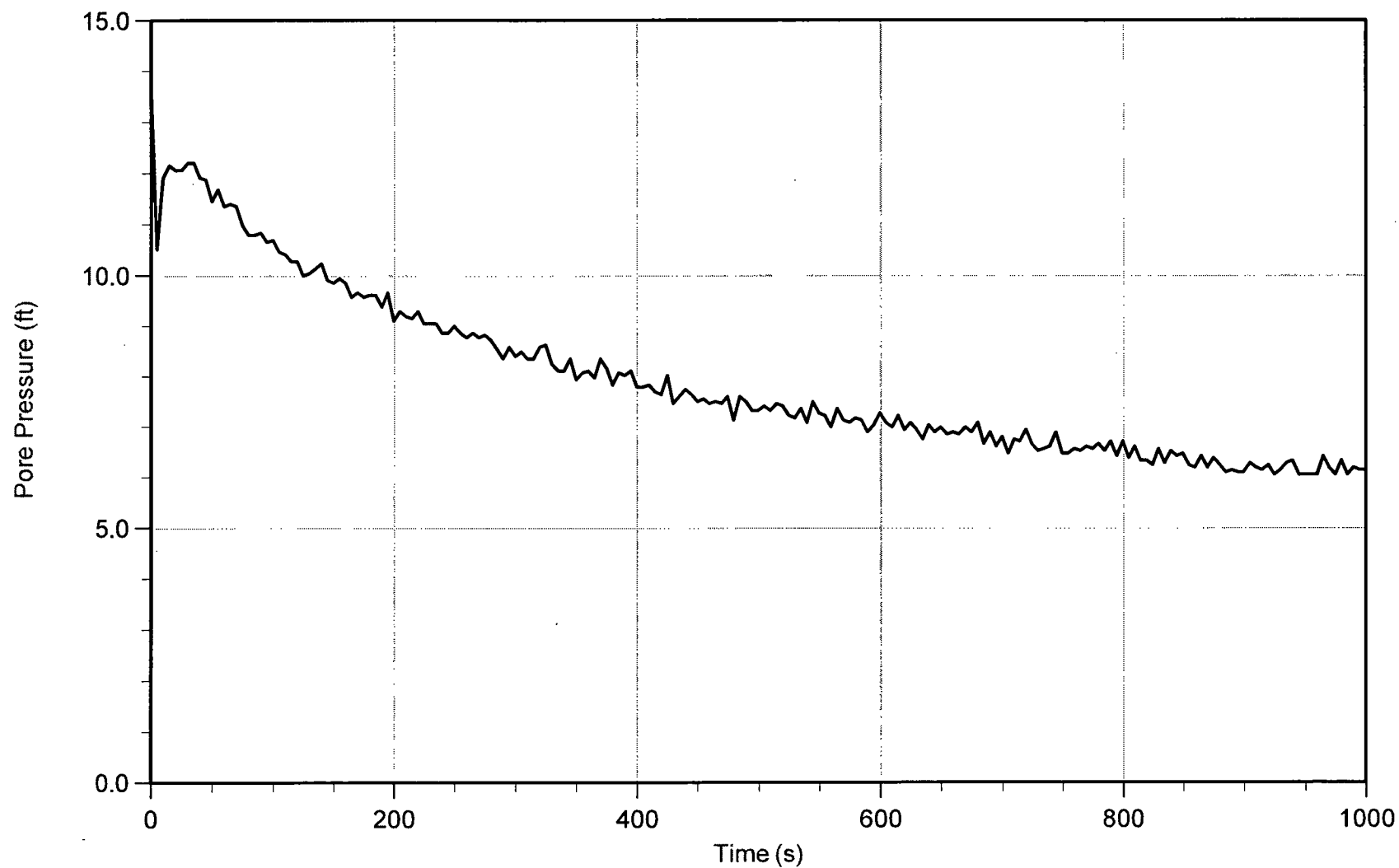
WT: 15.088 m / 49.500 ft
Ueq: 3.6 ft
U(50): 39.04 ft
T(50): 1975.3 s



MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 12:13:16
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-11
Cone: 155
Cone Area: 15 sq cm



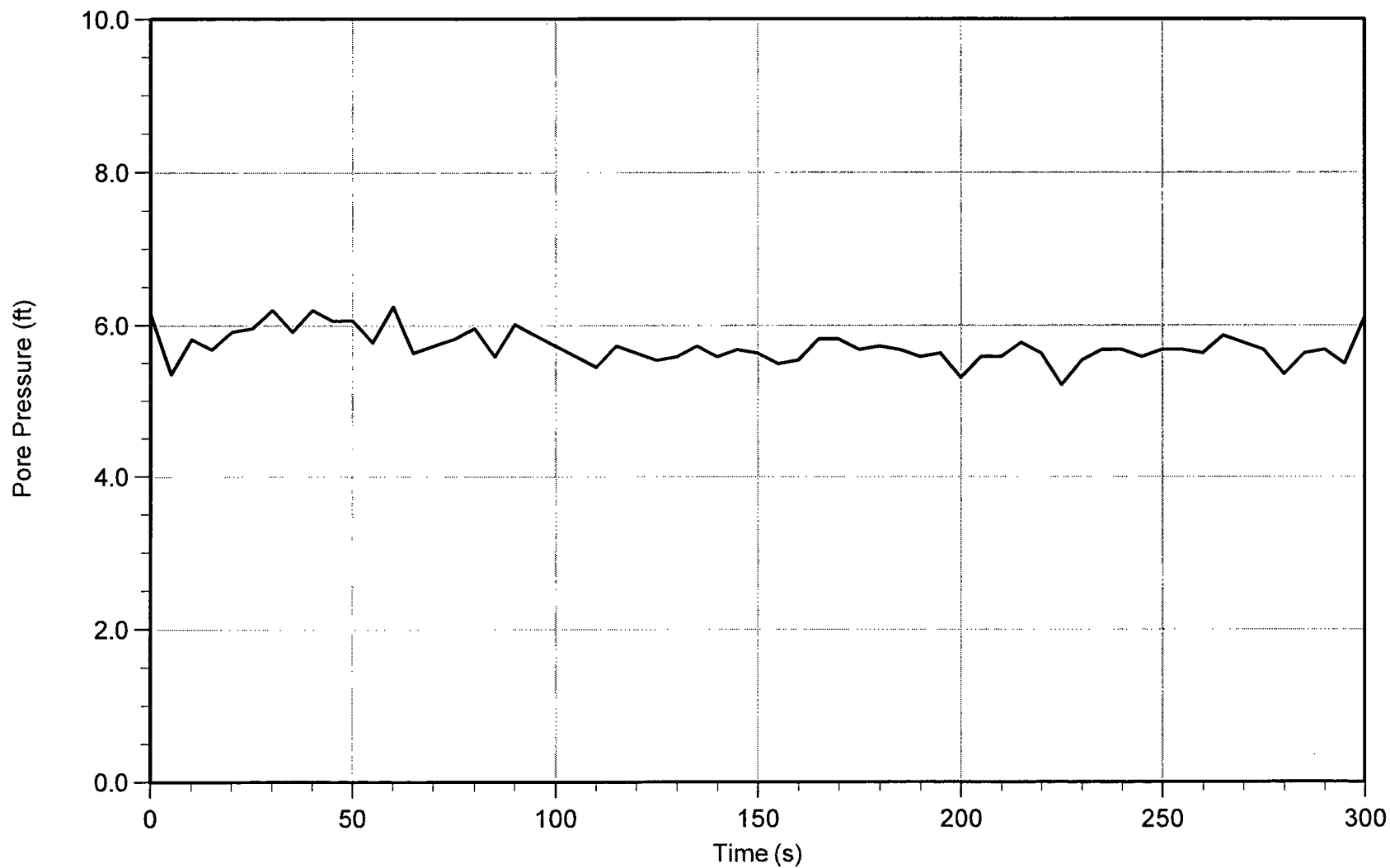
Trace Summary:	Filename: 13-52118_RP11.PPD	U Min: 6.1 ft	WT: 15.074 m / 49.454 ft
	Depth: 16.950 m / 55.610 ft	U Max: 13.5 ft	Ueq: 6.2 ft
	Duration: 1000.0 s		



MWH Americas

Job No: 13-52118
Date: 07-Nov-2013 10:22:20
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-12
Cone: 155
Cone Area: 15 sq cm



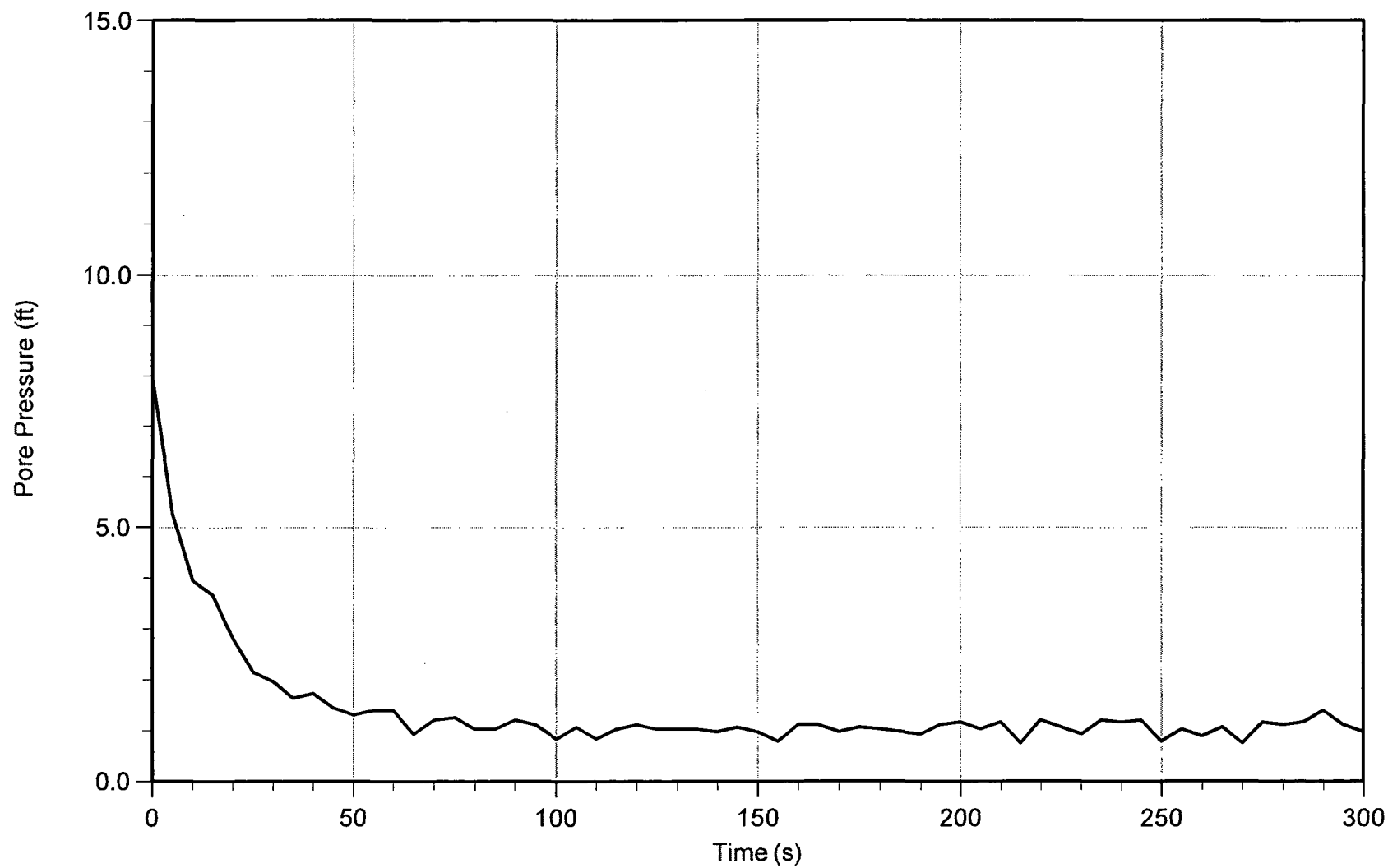
Trace Summary:	Filename: 13-52118_RP12.PPD	U Min: 5.2 ft	WT: 10.647 m / 34.932 ft
	Depth: 12.350 m / 40.518 ft	U Max: 6.2 ft	Ueq: 5.6 ft
	Duration: 300.0 s		



MWH Americas

Job No: 13-52118
Date: 08-Nov-2013 14:30:14
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-14
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP14.PPD
Depth: 6.700 m / 21.981 ft
Duration: 300.0 s

U Min: 0.8 ft
U Max: 7.9 ft

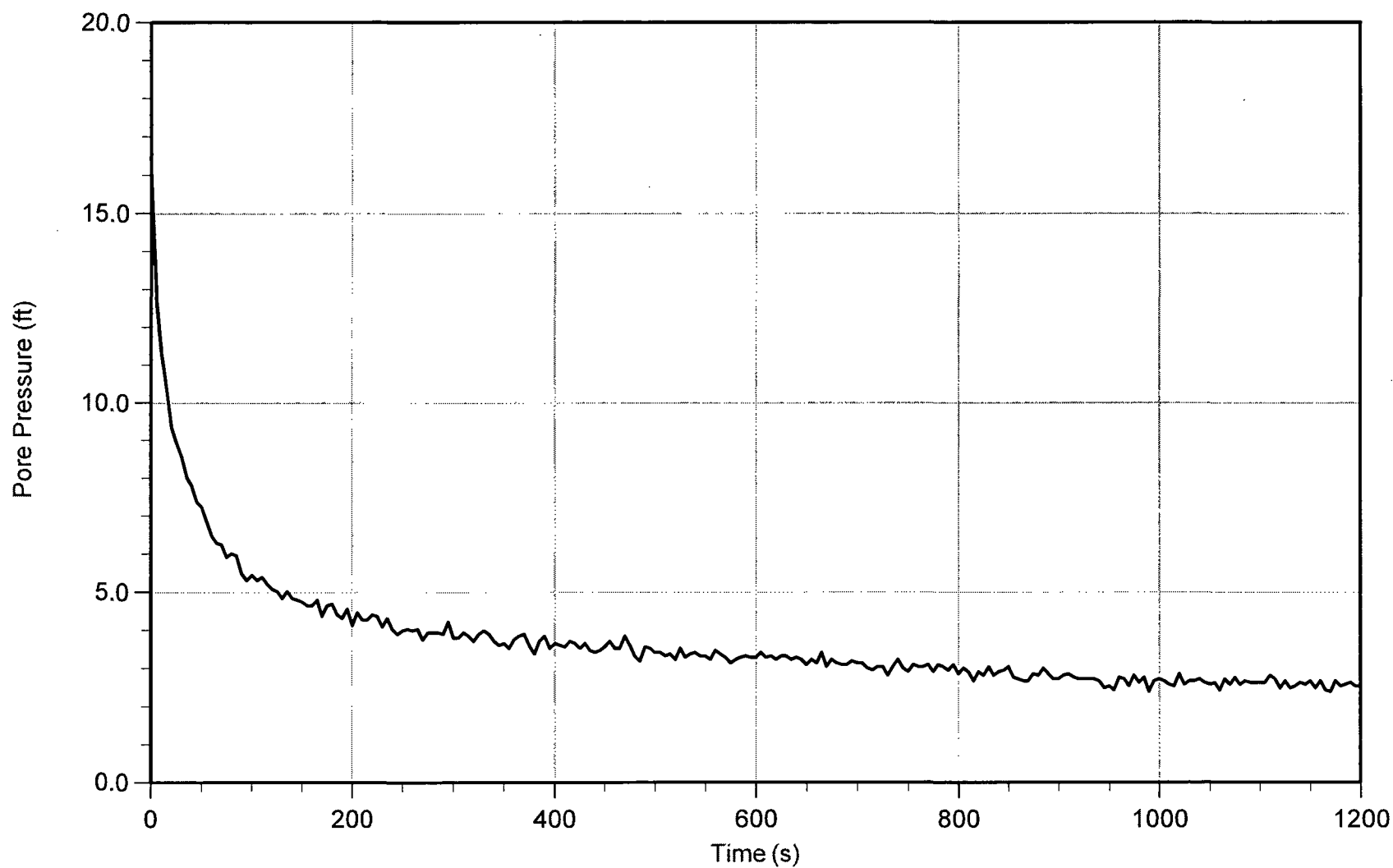
WT: 6.400 m / 20.999 ft
Ueq: 1.0 ft



MWH Americas

Job No: 13-52118
Date: 06-Nov-2013 16:32:17
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-15
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP15.PPD
Depth: 11.550 m / 37.893 ft
Duration: 1200.0 s

U Min: 2.4 ft
U Max: 16.1 ft

WT: 10.772 m / 35.342 ft
Ueq: 2.6 ft

CONEtec

MWH Americas

Job No: 13-52118

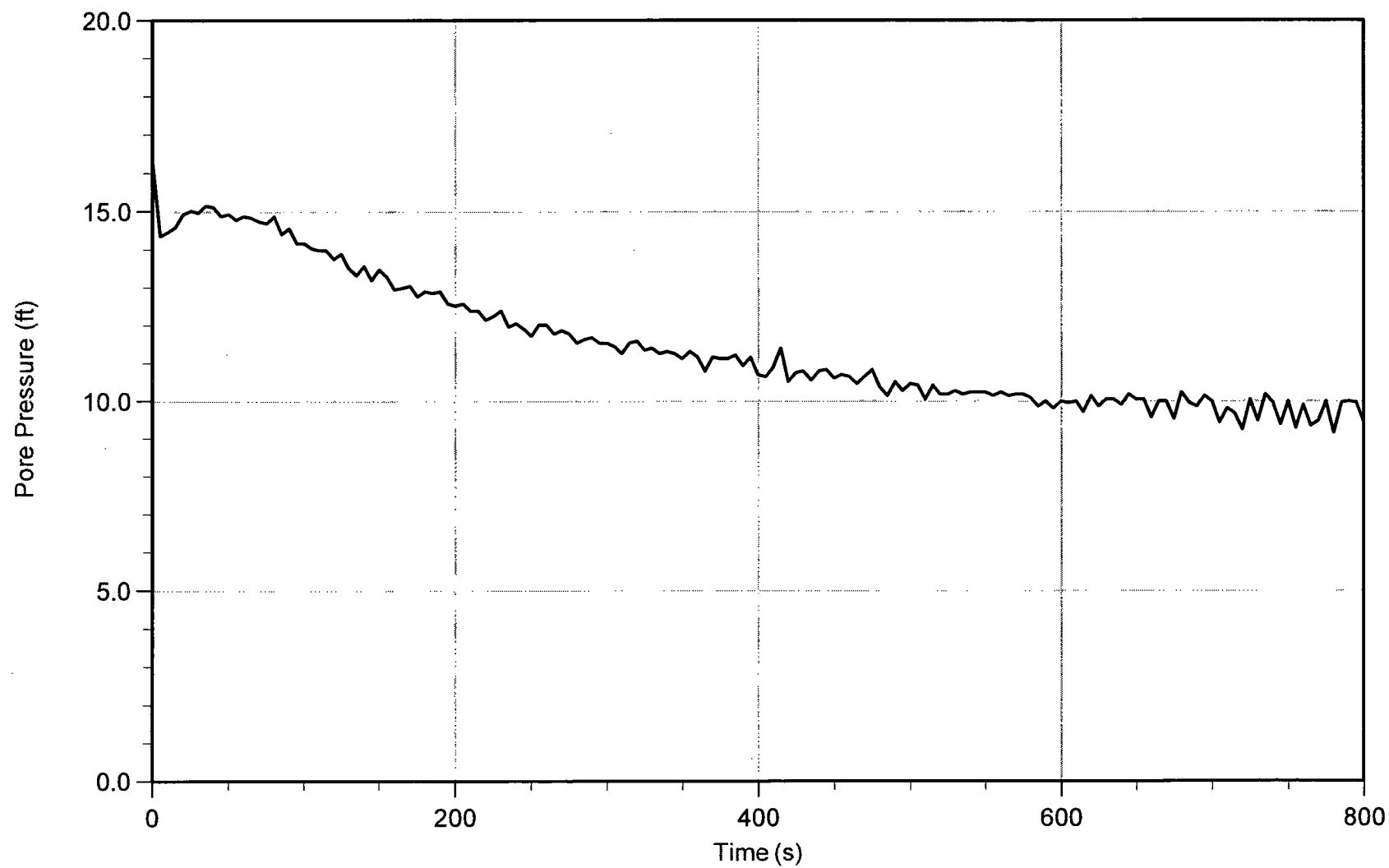
Date: 08-Nov-2013 12:56:11

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-16

Cone: 155

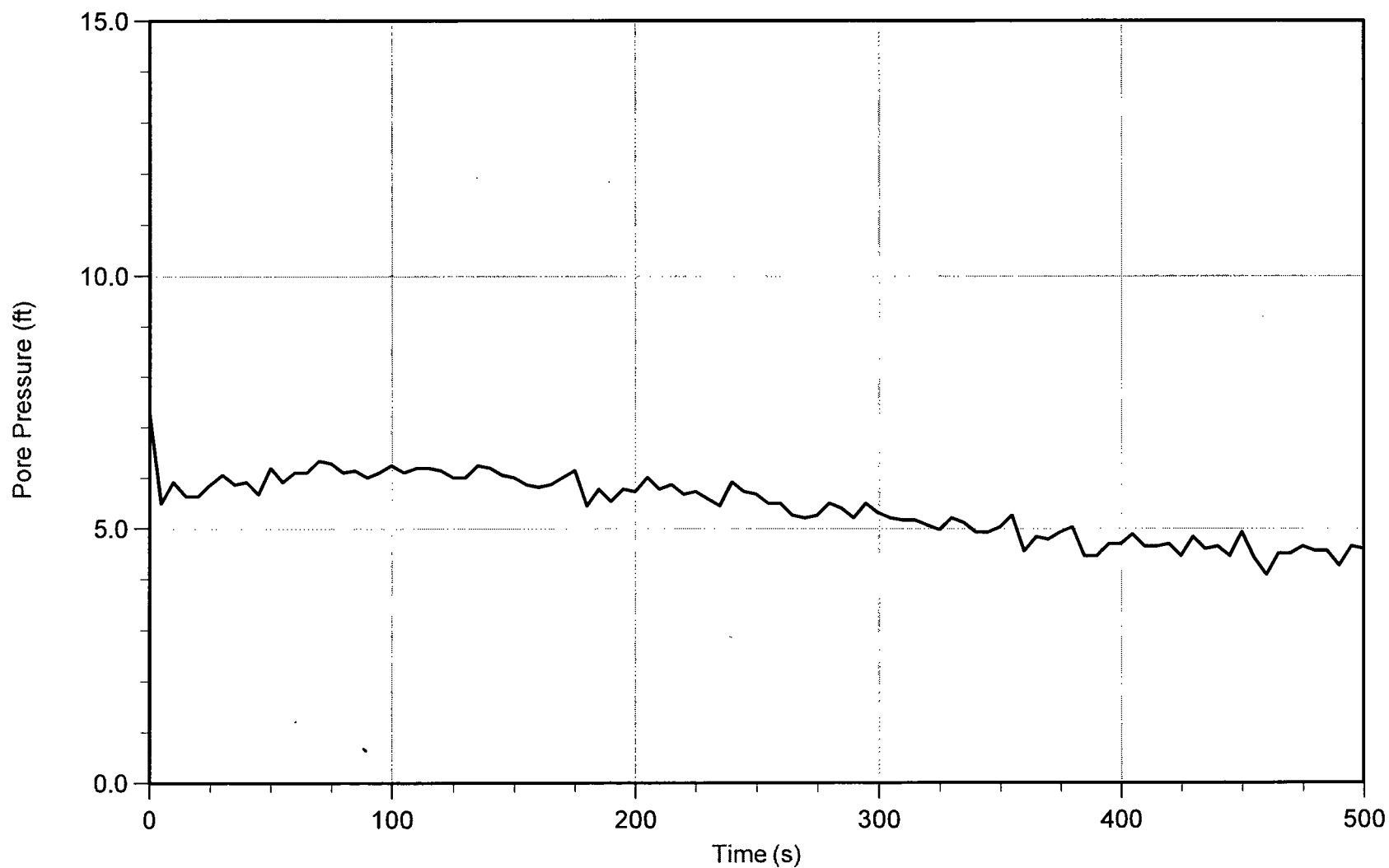
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP16.PPD
Depth: 13.350 m / 43.799 ft
Duration: 800.0 s

U Min: 9.2 ft
U Max: 16.3 ft

WT: 10.407 m / 34.144 ft
Ueq: 9.7 ft



Trace Summary: Filename: 13-52118_RP18.PPD
Depth: 9.350 m / 30.675 ft
Duration: 500.0 s

U Min: 4.1 ft
U Max: 7.3 ft

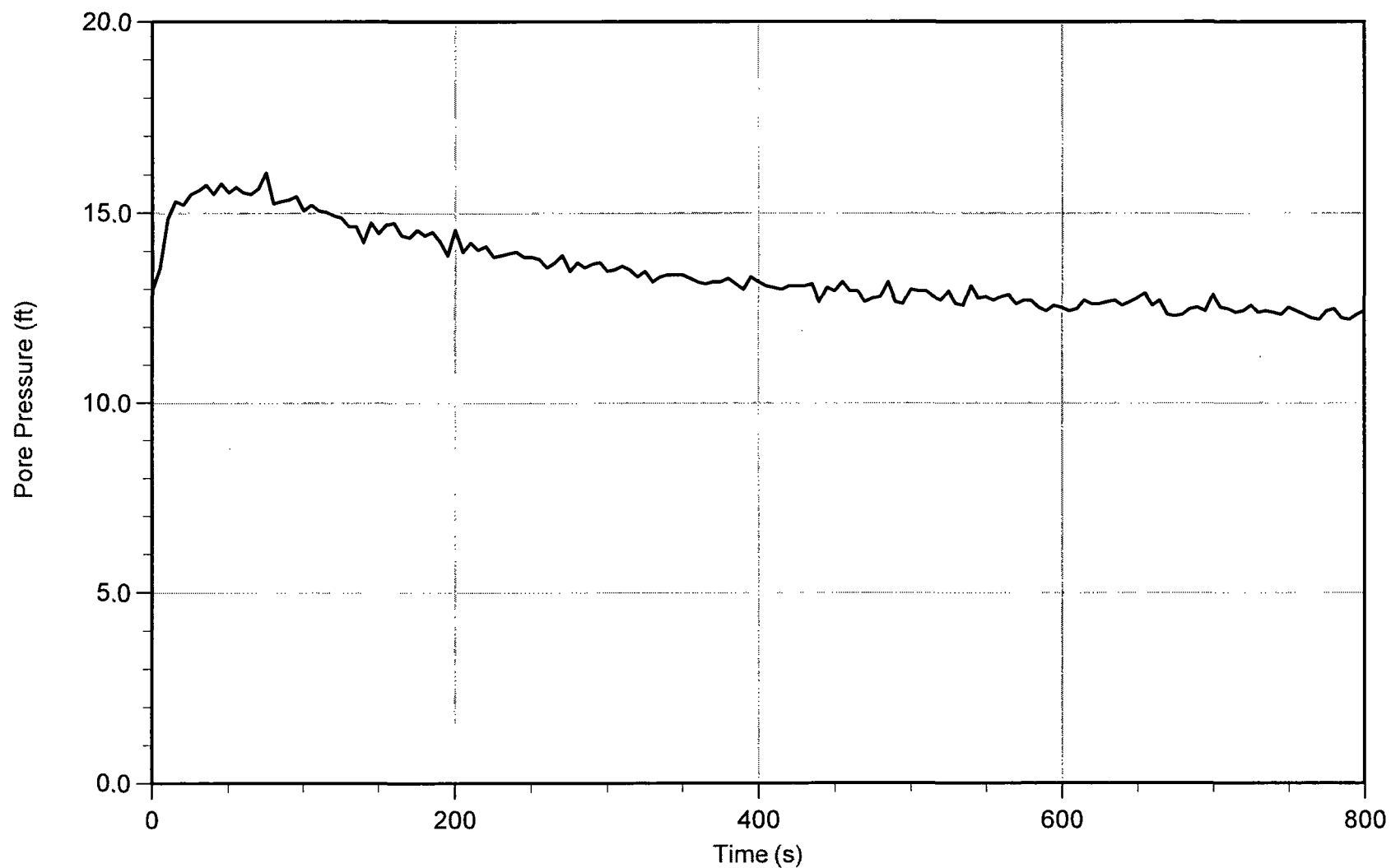
WT: 7.963 m / 26.124 ft
Ueq: 4.6 ft



MWH Americas

Job No: 13-52118
Date: 09-Nov-2013 10:46:19
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-18
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP18.PPD
Depth: 14.000 m / 45.931 ft
Duration: 800.0 s

U Min: 12.2 ft
U Max: 16.1 ft

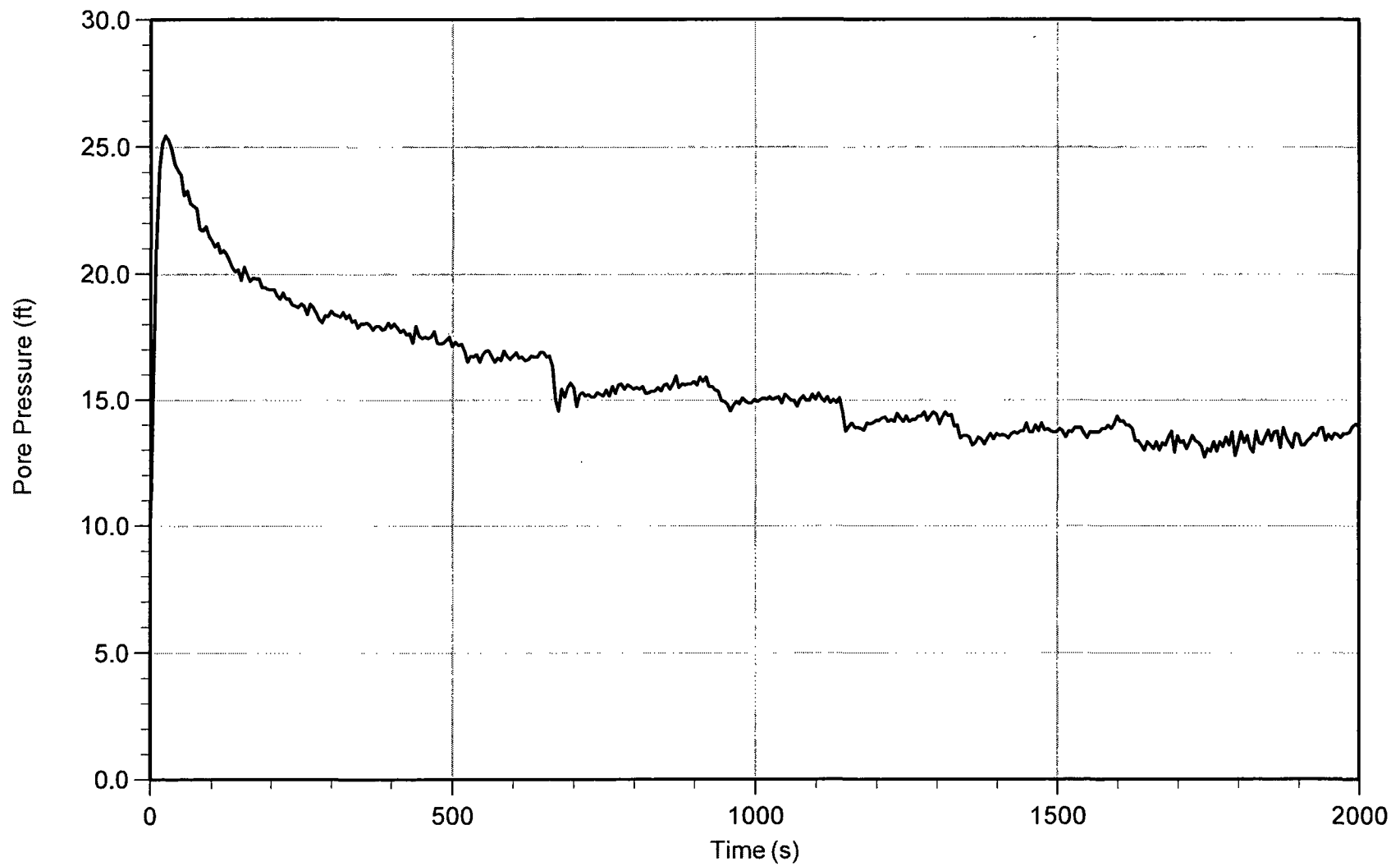
WT: 10.237 m / 33.587 ft
Ueq: 12.3 ft



MWH Americas

Job No: 13-52118
Date: 09-Nov-2013 11:56:27
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-19
Cone: 155
Cone Area: 15 sq cm



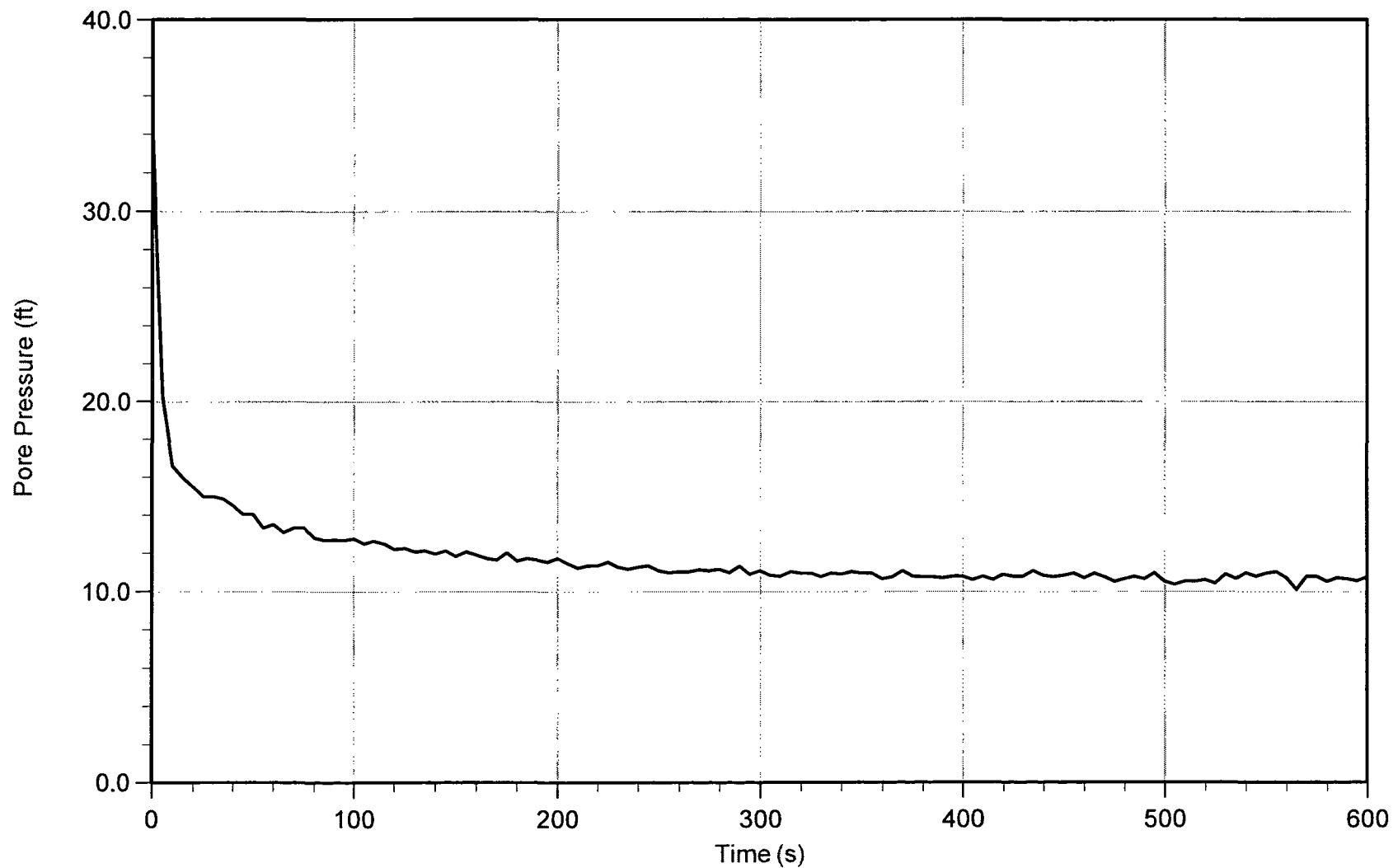
Trace Summary:	Filename: 13-52118_RP19.PPD	U Min: 10.0 ft	WT: 7.982 m / 26.189 ft
	Depth: 12.050 m / 39.534 ft	U Max: 25.4 ft	Ueq: 13.3 ft
	Duration: 2000.0 s		



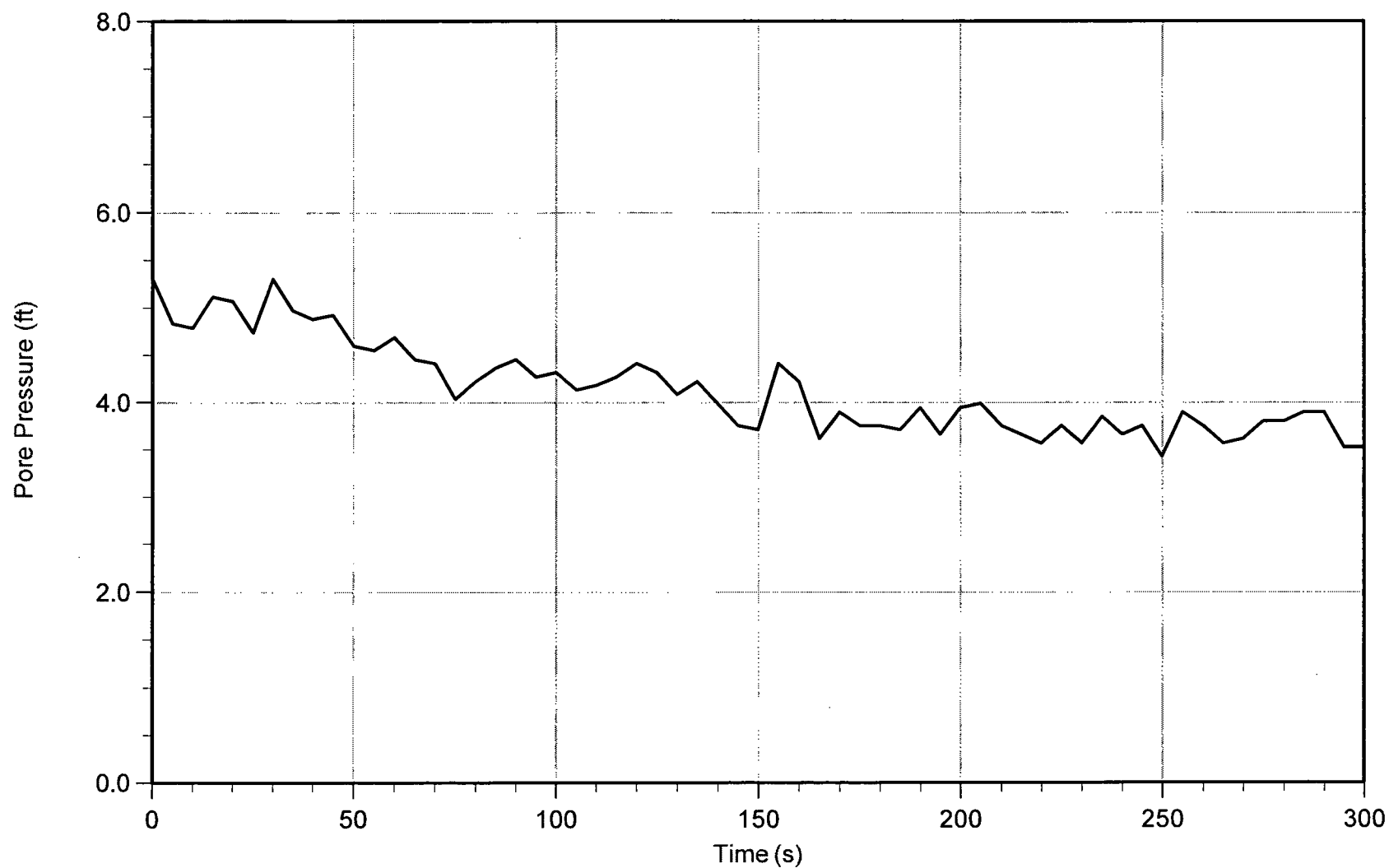
MWH Americas

Job No: 13-52118
Date: 10-Nov-2013 11:54:14
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-22
Cone: 155
Cone Area: 15 sq cm



Trace Summary:	Filename: 13-52118_RP22.PPD	U Min: 10.1 ft	WT: 9.263 m / 30.389 ft
	Depth: 12.500 m / 41.010 ft	U Max: 34.3 ft	Ueq: 10.6 ft
	Duration: 600.0 s		



Trace Summary: Filename: 13-52118_RP23.PPD
Depth: 10.400 m / 34.120 ft
Duration: 300.0 s

U Min: 3.4 ft
U Max: 5.3 ft

WT: 9.282 m / 30.451 ft
Ueq: 3.7 ft

CONEtec

MWH Americas

Job No: 13-52118

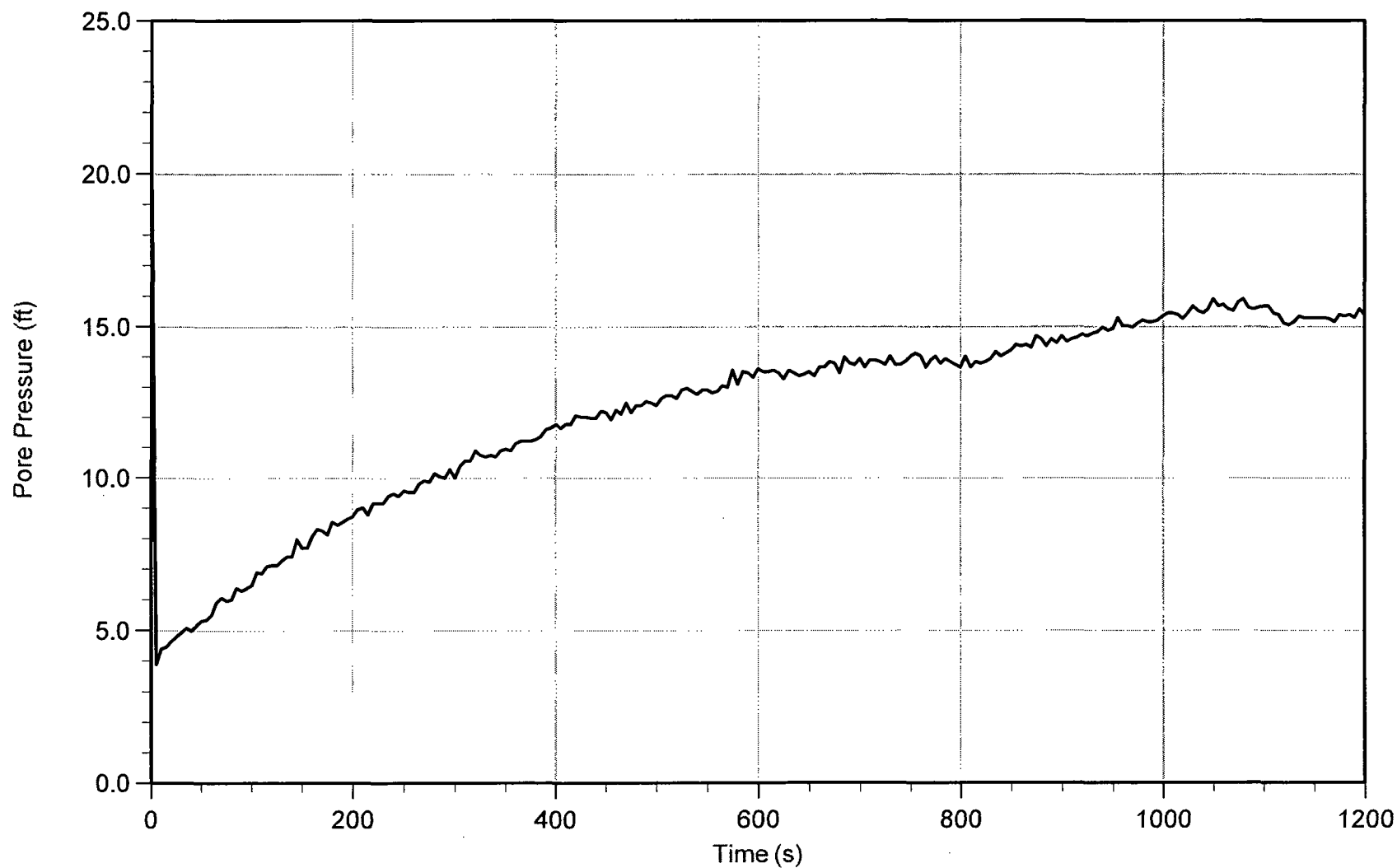
Date: 09-Nov-2013 09:25:08

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-26

Cone: 155

Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP26.PPD
Depth: 7.900 m / 25.918 ft
Duration: 1200.0 s

U Min: 3.9 ft
U Max: 20.8 ft

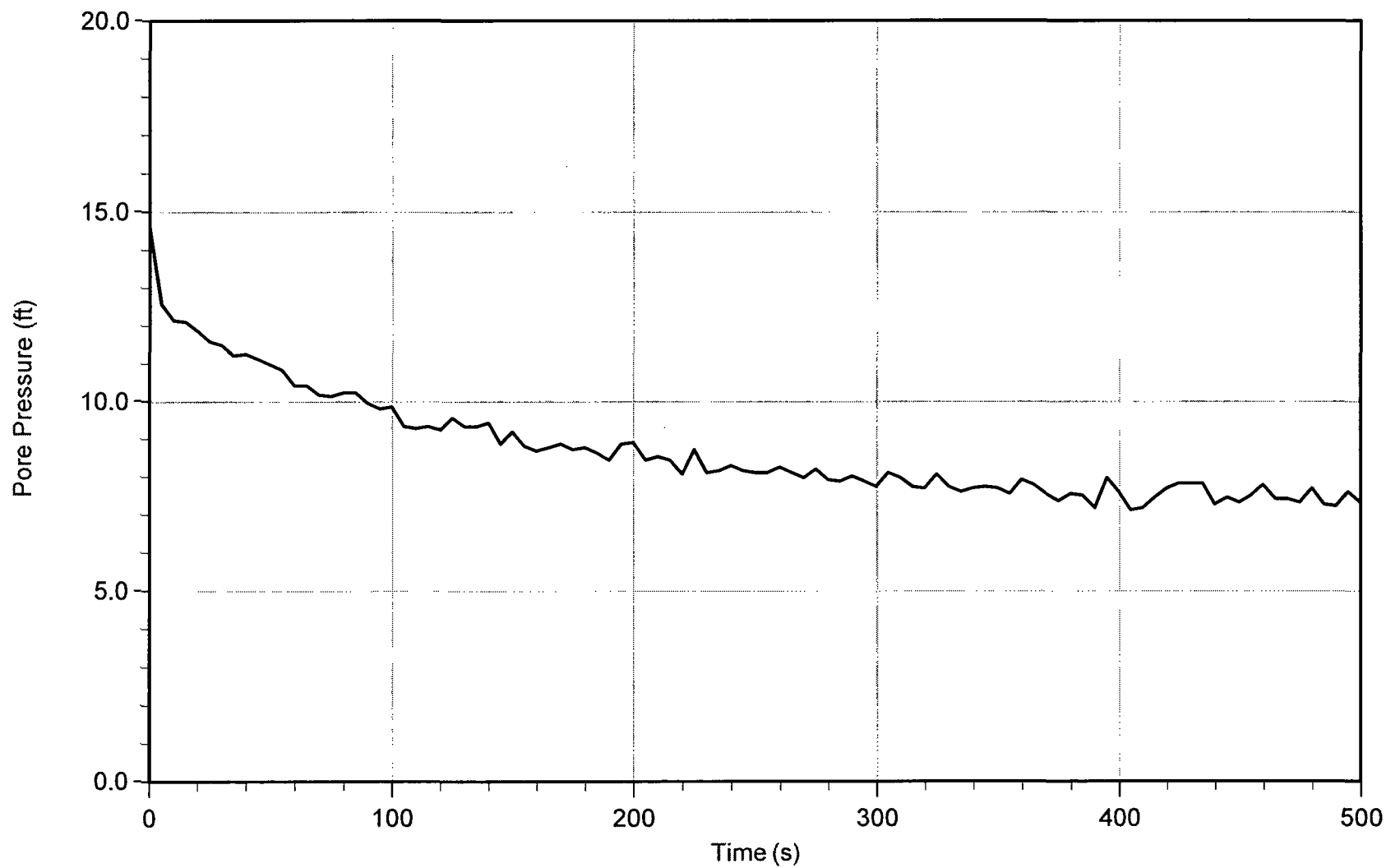
WT: 3.249 m / 10.660 ft
Ueq: 15.3 ft



MWH Americas

Job No: 13-52118
Date: 10-Nov-2013 08:17:14
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-28
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP28.PPD
Depth: 20.700 m / 67.913 ft
Duration: 500.0 s

U Min: 7.1 ft
U Max: 14.6 ft

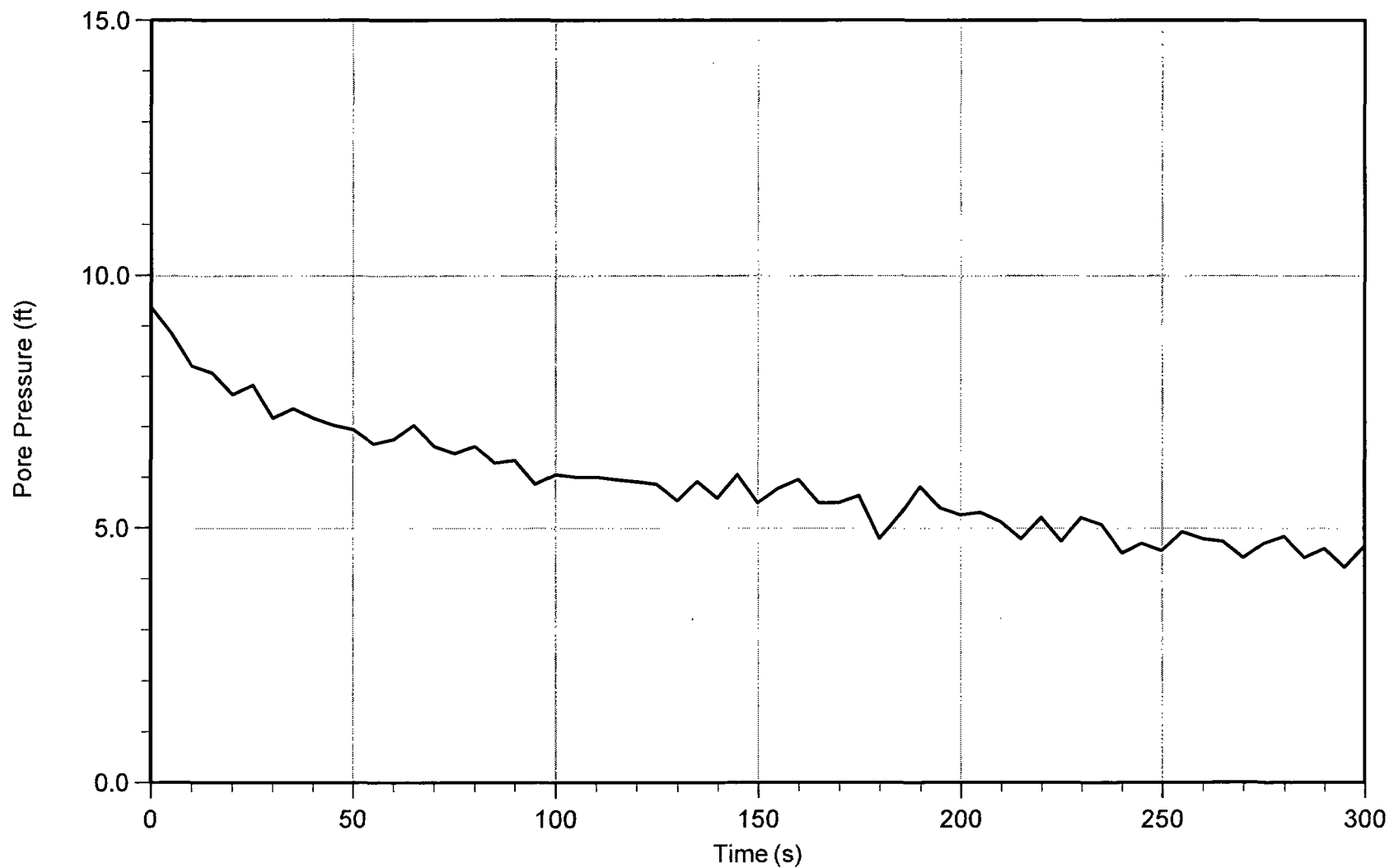
WT: 18.430 m / 60.464 ft
Ueq: 7.4 ft



MWH Americas

Job No: 13-52118
Date: 10-Nov-2013 13:10:58
Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-31
Cone: 155
Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP31.PPD
Depth: 16.550 m / 54.297 ft
Duration: 300.0 s

U Min: 4.2 ft
U Max: 9.4 ft

WT: 15.178 m / 49.797 ft
Ueq: 4.5 ft

CONETEC

MWH Americas

Job No: 13-52118

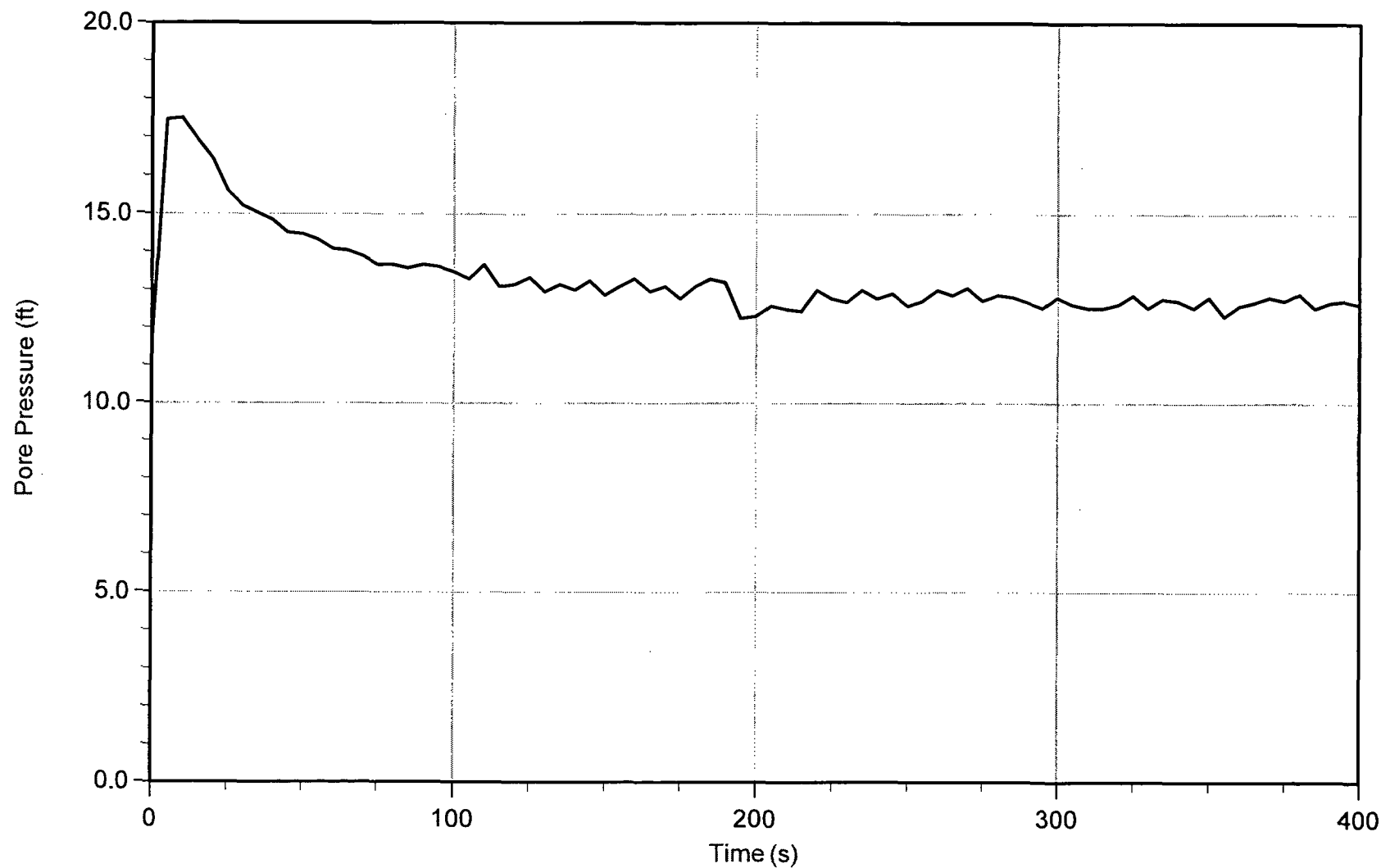
Date: 10-Nov-2013 14:12:13

Site: CHURCH ROCK MILL SITE TSF

Sounding: RCPT-32

Cone: 155

Cone Area: 15 sq cm



Trace Summary: Filename: 13-52118_RP32.PPD
Depth: 16.550 m / 54.297 ft
Duration: 400.0 s

U Min: 11.7 ft
U Max: 17.5 ft

WT: 12.682 m / 41.608 ft
Ueq: 12.7 ft