

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-113 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
								Sonic Coring	763+65, Lt 3 feet	297 feet
								DATES DRILLED	HOLE DIAMETER	
								2/25/11 - 2/28/11	6 inches	
								GROUND-WATER READINGS		
								Ground-water level not measured.		
195		*	16	100	9.5		GC-GM	fine to coarse-grained, fine gravel SILTY CLAYEY GRAVEL - very dense, moist, dark yellowish brown (7.5YR-3/3), fine to coarse-grained, trace fine gravel (up to 3/8 inch in size)		
					11.8	16	SM	SILTY SAND - medium dense, wet, dark yellowish brown, fine to coarse-grained, trace fine gravel		
105		*	17	98	7.9	46	SC	CLAYEY SAND - moist, dark olive gray (5Y 3/2), fine to coarse grained, some fine gravel, trace coarse (up to 1 inch in size), some iron oxide		
190					9.2	41	SM	SILTY SAND - dense, moist, strong brown (7.5YR 5/8), fine to coarse grained, some fine gravel (up to 1/2 inch in size)		
110		*	18	98	15.3	49	SC-SM	SILTY CLAYEY SAND - dense, moist, dark brown (10YR 3/3), fine to medium grained, occasional coarse, layers of Silty Clay		
185								Trace fine to coarse gravel		
115		*	19	98	18.1					
180					17.9	80	CL	LEAN CLAY with SAND - hard, moist, dark brown, fine sand, trace medium, occasional gravel (up to 3/8 inch in size)		
120		*	20	98						

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RM
 Prepared/Date: PK/WL 9/30/2011
 Checked/Date: HP/PE 10/2/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT	BORING NO.											
125								Boart Longyear / 600T Trusonic drill rig	S-113 (Continued)											
170							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRILLING METHOD</td> <td style="width: 50%;">BOREHOLE LOCATION</td> </tr> <tr> <td>Sonic Coring</td> <td>763+65, Lt 3 feet</td> </tr> <tr> <td>DATES DRILLED</td> <td>HOLE DIAMETER</td> </tr> <tr> <td>2/25/11 - 2/28/11</td> <td>6 inches</td> </tr> <tr> <td colspan="2">GROUND-WATER READINGS</td> </tr> <tr> <td colspan="2">Ground-water level not measured.</td> </tr> </table>	DRILLING METHOD		BOREHOLE LOCATION	Sonic Coring	763+65, Lt 3 feet	DATES DRILLED	HOLE DIAMETER	2/25/11 - 2/28/11	6 inches	GROUND-WATER READINGS		Ground-water level not measured.	
DRILLING METHOD	BOREHOLE LOCATION																			
Sonic Coring	763+65, Lt 3 feet																			
DATES DRILLED	HOLE DIAMETER																			
2/25/11 - 2/28/11	6 inches																			
GROUND-WATER READINGS																				
Ground-water level not measured.																				
130							CL													
165																				
135																				
160																				
140																				
END OF BORING AT 122 FEET																				
NOTES:																				
Consistency description on this log is based on pocket penetrometer test results and/or visual observation of soil samples.																				
Hand augered upper 6 feet to avoid damage to utility.																				
Borehole grouted with cement-bentonite slurry and patched with asphalt concrete.																				
*Samples recovered below 67 feet(starting with Run # 8) were placed in plastic tubing.																				

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-114
							DRILLING METHOD	BOREHOLE LOCATION		
								Sonic Coring	813+20, Rt 25 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/27/11 - 5/29/11	6 inches	309 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
									2 1/2 inch thick Asphalt Concrete	
									QUATERNARY YOUNGER ALLUVIUM [Qal]	
									SILT - moist, brown, trace sand and gravel	
									Some clay	
305	5								5-inch shale fragment	
									Layer of Sandy Silt with Gravel (up to 2 inches in size)	
									No core recovery from 6 to 9 feet	
300	10	1	1, 2	75	3.5			SM	SILTY SAND with GRAVEL - medium dense, dry to slightly moist, dark greenish gray (10Y 4/1), fine to coarse grained, fine to coarse gravel (up to 2 inches in size)	
									Layers of Sandy Silt, moist, very dark grayish brown, fine to coarse sand, some fine to coarse gravel	
295	15				5.1				No core recovery from 14 to 15 feet	
									WELL GRADED SAND with SILT and GRAVEL - dry to slightly moist, dark greenish gray (10Y 4/1), fine to coarse grained, fine to coarse gravel (up to 1 1/2 inches in size)	
290	20				3.3	7		SW-SM	SILTY CLAYEY SAND - medium dense, moist, dark grayish brown (2.5Y 3/2), fine grained, some medium to coarse, some fine gravel (up to 3/4 inch in size), trace cobble (up to 4 inches in size), alternating layers of Sandy Silt	

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/30/2011
 Checked/Date: HP/PE 10/2/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT	BORING NO.
								Boart Longyear / 600T Trusonic drill rig	S-114 (Continued)
								DRILLING METHOD: Sonic Coring BOREHOLE LOCATION: 813+20, Rt 25 feet	
								DATES DRILLED: 5/27/11 - 5/29/11 HOLE DIAMETER: 6 inches	GROUND EL. 309 feet
								GROUND-WATER READINGS Ground-water level not measured.	
285	25	2	3	100	15.7	47	SC-SM		
								SM	SILTY SAND with GRAVEL - medium dense, moist, dark greenish gray (10Y 3/1), fine to coarse grained, fine to coarse gravel (up to 1½ inches in size)
									Becomes yellowish-brown
									No core recovery from 28 to 31 feet
280	30	3	4	55	4.0				
								SM	<u>QUATERNARY OLDER ALLUVIUM [Q_{al}o]</u> SILTY SAND with GRAVEL - medium dense, moist, dark greenish gray (10Y 3/1)
									Becomes brown (10YR 4/3)
275	35				6.1	25			
								ML	SANDY SILT - very stiff to hard, moist, brown, fine sand, some fine gravel
270									
40									

(CONTINUED ON FOLLOWING FIGURE)

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-114 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	GROUND EL. 309 feet
								Sonic Coring	813+20, Rt 25 feet	
								DATES DRILLED	HOLE DIAMETER	
								5/27/11 - 5/29/11	6 inches	
								GROUND-WATER READINGS		
								Ground-water level not measured.		
265	45	4	5	100	12.9		ML	Alternating layers of Silty Sand, moist, brown, fine to coarse-grained, fine to coarse gravel		
260	50				23.6	62	CL	SANDY LEAN CLAY - moist, brown, fine to medium sand, trace coarse, occasional fine gravel (up to 3/8 inch in size)		
55		5	6	100	27.2		ML	Alternating Sandy Silt, trace fine to coarse gravel		
					18.7		ML	SILT with SAND - moist, brown, fine sand, trace fine gravel		
								Becomes dark greenish gray with brown spots		
60					21.7	63	CL	SANDY LEAN CLAY - medium stiff, moist, dark greenish gray, brown and varying colors, fine sand, some medium to coarse, trace fine gravel (up to 3/4 inch in size)		

(CONTINUED ON FOLLOWING FIGURE)

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								Boart Longyear / 600T Trusononic drill rig		S-114 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	813+20, Rt 25 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/27/11 - 5/29/11	6 inches	309 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
		6	7	100	18.8		CL-ML	SILTY CLAY with SAND - medium stiff, moist, brown and dark greenish gray, fine to coarse sand, trace gravel		
								Fine to coarse gravel		
	65				9.0		ML	SANDY SILT with GRAVEL - stiff, moist, dark greenish gray, fine to coarse sand, fine to coarse gravel (up to 2 inches in size)		
					18.2	70	CL	LAKESWOOD FORMATION [Qlw] LEAN CLAY with SAND - medium stiff to stiff, moist, brown, fine sand, trace medium and coarse, occasional gravel (up to 3/8 inch in size)		
	70							Becomes dark brown (10YR 3/3)		
		7	8	100	19.6					
	235				20.0	82				
	75									
					23.6		CH	FAT CLAY - very stiff, moist, dark greenish gray with brown mottling, trace fine and medium sand, trace calcium carbonate nodules		
	230									
	80									

(CONTINUED ON FOLLOWING FIGURE)

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								Boart Longyear / 600T Trusonic drill rig		S-114 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL. 309 feet	
							Sonic Coring	813+20, Rt 25 feet		
							DATES DRILLED	HOLE DIAMETER		
							5/27/11 - 5/29/11	6 inches		
								GROUND-WATER READINGS		
								Ground-water level not measured.		
225	85	8	9	100	24.5		CH	Trace fine gravel, abundant shell fragments, trace calcium carbonate nodules		
								Occasional fine to medium gravel		
					28.1	92	CH	Occasional fine gravel		
								Some fine to coarse sand		
220	90				18.1		ML	SANDY SILT - hard, moist, olive (5Y 5/4), trace fine gravel		
								Alternating with layers of Silt and Clay, moist, olive gray to dark olive gray with brown mottling, trace fine sand		
		9	10	100	28.2	95	CH	Some shell fragments		
								Some calcium carbonate nodules		
215	95						CH	FAT CLAY - hard, moist, olive gray with some brown mottling, trace fine to coarse sand, occasional fine gravel		
					24.5			ML	SILT with SAND - hard, moist, olive gray with black and brown mottling, fine sand	
210							ML		Some calcium carbonate nodules	
100										

(CONTINUED ON FOLLOWING FIGURE)

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								Boart Longyear / 600T Trusonic drill rig		S-114 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	GROUND EL. 309 feet
								Sonic Coring	813+20, Rt 25 feet	
								DATES DRILLED	HOLE DIAMETER	
								5/27/11 - 5/29/11	6 inches	
								GROUND-WATER READINGS		
								Ground-water level not measured.		
230					23.2		ML			
205		10	11	100			CH	FAT CLAY - hard, moist, brown to grayish green, very few brown mottling, trace fine to coarse sand, trace fine gravel (up to 3/8 inch in size) No brown mottling, few calcium carbonate nodules		
105					24.8	92				
					22.9					
200					19.5		CL	SANDY LEAN CLAY with GRAVEL - stiff, moist, dark greenish gray, fine to coarse sand, fine to coarse gravel, some calcium carbonate nodules		
110										
							SP	POORLY GRADED SAND - medium dense to dense, moist to wet, yellowish brown (10YR 5/6), trace fine black slate gravel		
195		11	12	100						
115					21.0					
					20.3					
190					20.5		SW	WELL GRADED SAND - medium dense, moist, yellowish brown to dark yellowish brown, fine to coarse grained, trace fine gravel		
							SM	SILTY SAND with GRAVEL - dense, moist, dark greenish gray, fine to coarse		
120										

(CONTINUED ON FOLLOWING FIGURE)

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 Checked/Date: HP/PE 10/2/2011

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								Boart Longyear / 600T Trusononic drill rig		S-114 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	813+20, Rt 25 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/27/11 - 5/29/11	6 inches	309 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
185								grained, fine to medium gravel END OF BORING AT 120 FEET		
125								NOTES: Consistency description on this log is based on pocket penetrometer test results and/or visual observation of soil samples. Hand augered upper 7 feet to avoid damage to utilities. Borehole grouted with cement-bentonite slurry and patched with asphalt concrete.		
180										
130										
175										
135										
170										
140										

Field Tech: RS/RH
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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-115
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	838+38, Lt 83 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/4/11	6 inches	328 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
								18 inch thick Asphalt Concrete over 12 inch thick Base Course		
								<p>FILL [af] SILT - moist, brown, trace sand, trace gravel, some sandy clay</p>		
								<p>QUATERNARY OLDER ALLUVIUM (Qalo) SANDY SILTY CLAY - hard, moist, dark brown (10YR 3/3), fine to medium sand, trace fine, subrounded gravel (up to 3/4 inch in size)</p>		
								<p>Fine to coarse gravel</p>		
	5									
	10	1	1	100	16.6					
	15				15.7	62				
	20				15.7					

Westwood / VA Hospital Station

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RH
 Prepared/Date: PK/WL 10/1/2011
 Checked/Date: HP/PE 10/2/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-115 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	838+38, Lt 83 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/4/11	6 inches	328 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
		2	2	80				CL-ML	More clay Increasing fine to coarse gravel between 20.7 to 21.2 feet	
25					11.6				Layer of silty sand, moist, dark brown, trace fine gravel Some clay seams More fine to coarse gravel	
		3	3	100	15.8	78		CL	More sand Becomes dark brown, trace fine to medium gravel, trace clay LEAN CLAY with SAND - very stiff, moist, brown, fine sand, trace medium	
30								SM	SILTY SAND with GRAVEL - dense, moist, dark brown (10YR 4/3), dark brown (10YR 4/3), fine to coarse grained, fine gravel, trace coarse (up to 3 inches in size) Becomes olive brown (2.5YR 4/3)	
		3	4	100	5.6					
35									Becomes very dense	
		5		100	6.1					
40										

Westwood / VA Hospital Station

(CONTINUED ON FOLLOWING FIGURE)

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ELEVATION (ft)						DRILLING COMPANY/DRILLING EQUIPMENT			BORING NO.						
						Boart Longyear / 600T Trusononic drill rig			S-115 (Continued)						
DEPTH (ft)						DRILLING METHOD		BOREHOLE LOCATION							
						Sonic Coring		838+38, Lt 83 feet							
BOX #						DATES DRILLED		HOLE DIAMETER							
						5/4/11		6 inches							
RUN #						GROUND-WATER READINGS									
						Ground-water level not measured.									
% RECOVERY						GROUND EL. 328 feet									
MOISTURE CONTENT (% of dry wt.)															
PERCENT PASSING No. 200 SIEVE															
SAMPLE LOC.															
Westwood / VA Hospital Station						SM									
						ML				SANDY SILT - hard, moist, dark brown, fine sand, trace fine gravel					
						SM				SILTY SAND with GRAVEL - very dense, moist, varying colors, fine to coarse grained, fine gravel, trace coarse (up to 1 inch in size)					
						45									
						50									
55															
60															
						GM									
						SILTY GRAVEL with SAND - very dense, moist, varying colors, fine to coarse sand, fine to coarse gravel (up to 1½ inch in size)									

(CONTINUED ON FOLLOWING FIGURE)

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								DRILLING METHOD	BOREHOLE LOCATION	S-115 (Continued)
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/4/11	6 inches	328 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
	65		10	100	6.2					
	70		11	100	25.4					
					26.2	92				
	75		12	100	16.5					
	250				17.6					
	80		13	100						

Westwood / VA Hospital Station



GM

ML SANDY SILT - hard, moist, brown (10YR 4/3), fine to medium sand, trace clay, increasing plasticity with depth

CL LEAN CLAY - stiff, moist, brown (10YR 4/3), some fine sand, layers of Sandy Lean Clay
Trace fine gravel
Becomes dark brown (10YR 3/3)

ML SANDY SILT - medium stiff, wet, fine to coarse sand, trace fine to coarse gravel

Layer of Silty Sand with Gravel, very dense to dense, moist, dark brown, fine to coarse grained, fine to coarse gravel (up to 1 inch in size)
No Core Recovery between 77 to 78 feet

CL SANDY LEAN CLAY - stiff to very stiff, moist, dark brown, fine to coarse sand, some fine to coarse gravel (up to 2-inch in size), alternating Silty Clay layers
Less clay

(CONTINUED ON FOLLOWING FIGURE)

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 Checked/Date: HP/PE 10/2/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-115 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	838+38, Lt 83 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								5/4/11	6 inches	328 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
								CL	Silty Sand seams	
245			14	100	7.2	22		SM	SILTY SAND with GRAVEL - very dense, moist, very dark brown (10YR 2/1), fine to coarse grained, fine gravel, occasional coarse (up to 1 inch in size)	
								ML	SANDY SILT - stiff to medium stiff, moist, dark brown (10YR 3/3), fine to coarse sand, trace fine to coarse gravel Becomes wet, dark brown	
85					17.2			CL	SANDY LEAN CLAY - stiff to very stiff, moist, dark brown (10YR 3/3), trace fine grained, trace fine to medium gravel	
240			15	100	8.5	12		GP-GM	POORLY GRADED GRAVEL with SILT and SAND - dense, moist, very dark gray (2.5Y 3/1), fine to coarse grained, fine gravel, trace coarse (up to 1 inch in size) Becomes very dense, dark brown (10Y 3/3), breaks apart during sampling	
90										
235			16	100	7.6					
95					16.3			ML	SANDY SILT - hard, moist, brown (10YR 4/3), fine to coarse sand, medium gravel Layer of silty gravel with sand	
230										
					11.7			SM	SILTY SAND with GRAVEL - dense, moist, brown, fine to coarse sand, fine to coarse gravel	
100										

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RH
 Prepared/Date: PK/WL 10/1/2011
 Checked/Date: HP/PE 10/2/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-115 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	838+38, Lt 83 feet	328 feet	
							DATES DRILLED	HOLE DIAMETER		
							5/4/11	6 inches		
GROUND-WATER READINGS								Ground-water level not measured.		
225			17	100	20.4		CL	SANDY LEAN CLAY - stiff, moist, brown, fine sand, trace fine gravel		
105					9.8	25	SM	SILTY SAND with GRAVEL - dense, moist, very dark greenish brown (2.5Y 3/2), fine to coarse grained, fine gravel, trace coarse (up to 1 inch in size)		
220							ML	No Core Recovery from 107 to 107.5 feet		
110			18	95	20.7			SANDY SILT with GRAVEL - hard, moist, brown (10YR 4/3), fine to coarse sand, fine to coarse subrounded gravel (up to 1 inch in size)		
215								Occasional fine gravel, layers of Silty Sand		
115					15.2			More fine gravel		
210					12.1			More sand layers from 119.5 to 120 feet		
120			19	100						

(CONTINUED ON FOLLOWING FIGURE)


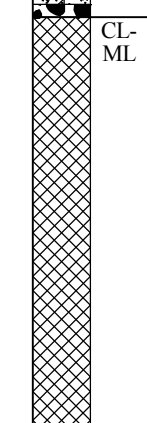
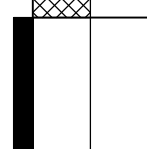
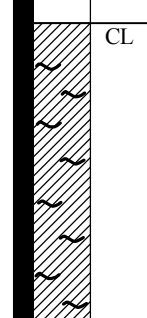

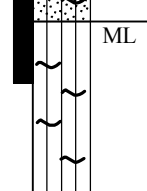
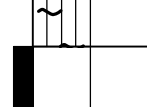

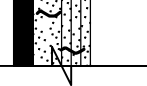
Field Tech: RH
 Prepared/Date: PK/WL 10/1/2011
 Checked/Date: HP/PE 10/2/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-115 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
								Sonic Coring	838+38, Lt 83 feet	328 feet
								DATES DRILLED	HOLE DIAMETER	
								5/4/11	6 inches	
								GROUND-WATER READINGS		
								Ground-water level not measured.		
							ML	END OF BORING AT 122 FEET		
								NOTES:		
								Consistency description on this log is based on pocket penetrometer test results and/or visual observation of soil samples.		
								Hand augered upper 7 feet to avoid damage to utilities.		
								Borehole grouted with cement-bentonite slurry and patched with asphalt concrete.		

Field Tech: RH
 Prepared/Date: PK/WL 10/1/2011
 Checked/Date: HP/PE 10/2/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT	BORING NO.							
								Boart Longyear / 600T Trusonic drill rig	S-116							
								<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">DRILLING METHOD</th> <th style="width: 50%;">BOREHOLE LOCATION</th> </tr> <tr> <td>Sonic Coring</td> <td>512+50, Lt 17 feet</td> </tr> <tr> <th style="width: 50%;">DATES DRILLED</th> <th style="width: 50%;">HOLE DIAMETER</th> </tr> <tr> <td>4/11/11 and 4/12/11</td> <td>6 inches</td> </tr> </table>		DRILLING METHOD	BOREHOLE LOCATION	Sonic Coring	512+50, Lt 17 feet	DATES DRILLED	HOLE DIAMETER	4/11/11 and 4/12/11
DRILLING METHOD	BOREHOLE LOCATION															
Sonic Coring	512+50, Lt 17 feet															
DATES DRILLED	HOLE DIAMETER															
4/11/11 and 4/12/11	6 inches															
								GROUND-WATER READINGS Ground-water level not measured.	GROUND EL. 185 feet							
180	5							12-inch thick Asphalt Concrete over 4 inch thick Portland Cement Concrete, 2-inch thick Base Course								
								<p><u>FILL [Af]</u> SILTY CLAY - moist, blueish-gray, trace black gravel, trace orange brick fragments (less than 4 inches in size)</p>								
								No Core Recovery from 7 to 9 feet								
175	10	1	1	80				<p><u>TAR IMPACTED SOILS</u> <u>QUATERNARY OLDER ALLUVIUM [Qalo]</u> LEAN CLAY with SAND - stiff to medium stiff, wet, dark greenish gray (5G 3/1) with black to dark brown tar spots, fine to coarse sand, trace fine to coarse gravel (up to 1 inch in size), some calcium carbonate nodules, tar content increases with depth, some Sandy Clay seams</p>								
								<p><u>SAN PEDRO FORMATION [Qsp]</u> SANDY SILT - hard, moist, dark brown to black, trace fine gravel, slightly to moderately infused tar</p>								
								<p>SILT with SAND - hard, moist, dark brown to black, varying shades of dark greenish gray, fine to medium sand, slightly to moderately infused tar</p>								
170	15				13.1			Layers of Sandy Silt								
								No Core Recovery between 17 to 18 feet								
								<p>POORLY GRADED SAND with SILT - dense, moist, fine to medium-graded, saturated with tar (19%)</p>								
20					3.3											

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/29/2011
 Checked/Date: LT/PE 9/29/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-116 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	512+50, Lt 17 feet	185 feet	
							DATES DRILLED	HOLE DIAMETER		
							4/11/11 and 4/12/11	6 inches		
							GROUND-WATER READINGS			
							Ground-water level not measured.			
160	25	2	2	90	15.2		ML	SANDY SILT - hard, moist, dark brown to black, shades of dark greenish gray, moist, slightly to moderately infused tar		
								Less sand, some clay		
								No Core Recovery between 27 to 29 feet		
155	30	3	3	80	5.3		SP-SM	POORLY GRADED SAND with SILT - medium dense to dense, moist, dark greenish gray, fine to medium grained, saturated with tar		
150	35				3.1					
								No Core Recovery between 37 to 38 feet		
40					2.3	6		Becomes fine grained, some medium and coarse, saturated with tar (17%)		

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/29/2011
 Checked/Date: LT/PE 9/29/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-116 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	512+50, Lt 17 feet	185 feet	
							DATES DRILLED	HOLE DIAMETER		
							4/11/11 and 4/12/11	6 inches		
							GROUND-WATER READINGS			
							Ground-water level not measured.			
140	45	4	4	90				Trace fine slate gravel		
					3.9			Trace fine to coarse gravel (up to 1½ inches in size), subrounded		
					5.2	16		Layer of Silty Sand, fine grained, occasional medium and coarse, trace gravel (up to 3/8 inch in size), saturated with tar (18%)		
135	50	5	5	100				Trace fine gravel		
					4.1					
					5.9			More fine to coarse gravel (up to 2½ inches in size), fine to coarse sand		
130	55	6	6	100				No gravel, fine to medium sand		
					1.5		Fine to coarse sand, trace fine to coarse gravel			
					1.1	13	SM	SILTY SAND with GRAVEL - moist, dark gray, fine to medium grained		
		7	7	100			ML	SANDY SILT - wet, black, fine sand, saturated with tar		

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/29/2011
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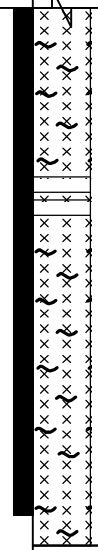
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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-116 (Continued)
		DRILLING METHOD		BOREHOLE LOCATION		DATES DRILLED		HOLE DIAMETER	GROUND EL.	
		Sonic Coring		512+50, Lt 17 feet		4/11/11 and 4/12/11		6 inches	185 feet	
GROUND-WATER READINGS								Ground-water level not measured.		
					16.1	77				
	85	12	12	96						
					13.8					
	90	13	13	94	9.9					
					15.4	80				
	95	14	14	96	20.5			No Core Recovery from 95.1 to 95.3 feet		
					25.5					
	100	15	15	100	11.3					

(CONTINUED ON FOLLOWING FIGURE)

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 Prepared/Date: YN/WL 9/29/2011
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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-116 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	512+50, Lt 17 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/11/11 and 4/12/11	6 inches	185 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
80	105	16	16	92	20.8	17.1	76	 <p>No Core Recovery from 102.2 to 102.4 feet and from 102.5 to 102.7 feet</p>		
					19.2	77				
75	110							END OF BORING AT 107 FEET		
70	115							NOTES: Consistency description on this log is based on pocket penetrometer test results and/or visual observation of soil samples. Hand augered upper 7 feet to avoid damage to utilities. Borehole grouted with cement-bentonite slurry and patched with asphalt concrete. This boring was originally planned as a rotary wash boring G-120, converted to sonic core boring.		
120										

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-117
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	521+50, Lt 18 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/14/11 - 4/18/11	6 inches	167 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
								12 inch thick Asphalt Concrete over 6 inch thick Base Course		
								LAKWOOD FORMATION [Qlw]		
165							ML	SILT - moist, dark brown, some clay		
	5						CL-ML	SILTY CLAY - moist, dark brown		
								TAR IMPACTED SOILS		
160							SC	CLAYEY SAND - fine grained, tar content		
	10							Becomes brown		
155		1	1	96	20.8		ML	SANDY SILT - medium stiff, moist, olive (5Y 5/4), fine to medium sand, non-plastic		
	15				22.3			Pockets of tar sand, slightly infused tar, black, dark greenish gray (5G 4/1)		
					14.5			Slightly infused tar, black (5Y 2.5/1)		
150								No Core Recovery between 17 to 18 feet		
	20				6.8		SM	SILTY SAND - dense, moist, black, fine grained, some medium to coarse, moderately infused tar		

(CONTINUED ON FOLLOWING FIGURE)

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 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-117 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	521+50, Lt 18 feet	167 feet	
							DATES DRILLED	HOLE DIAMETER		
							4/14/11 - 4/18/11	6 inches		
GROUND-WATER READINGS								Ground-water level not measured.		
145		2	2	90				Becomes very dark brown, slightly infused tar		
	25				5.8	13		Fine grained, occasional medium to coarse, non-plastic		
140								SAN PEDRO FORMATION [Qsp]		
								No Core Recovery from 27 to 29 feet		
	30				2.4			POORLY GRADED SAND with SILT- dense, moist, black, fine to medium grained, trace medium to fine gravel, saturated with tar		
135		3	3	90				More gravel (up to 1 inch in size)		
	35				2.8	11		Becomes medium to coarse grained		
130					2.0			Fine grained, some medium, trace coarse, occasional gravel (up to 3/8 inch in size)		
					2.0			Saturated with tar		
40		4	4	80	5.4	15		SILTY SAND - medium dense, moist, black, fine grained, occasional medium to coarse, fine subrounded slate gravel (up to 3/8 inch in size), saturated with tar, alternating layers of Clayey Sand		

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-117 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	521+50, Lt 18 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/14/11 - 4/18/11	6 inches	167 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
125								SM		
45		5	5	100	4.8				Gravel (up to 1 inch in size)	
					3.1	11		SP-SM	POORLY GRADED SAND with SILT - dense, moist, black, fine to coarse grained, saturated with tar Becomes medium to coarse grained	
50		6	6	100					Becomes fine to coarse grained, trace silt	
					2.2					
55		7	7	100	2.9				Becomes coarse grained	
					2.1	9			Fine to coarse grained, trace gravel (up to 1/2 inch in size)	
60		8	8	100				SM	SILTY SAND - dense, moist, black, fine to medium grained, trace fine gravel, saturated with tar, small shell fragments, some clay	

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
Prepared/Date: YN/WL 9/28/2011
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								Boart Longyear / 600T Trusononic drill rig		S-117 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	521+50, Lt 18 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/14/11 - 4/18/11	6 inches	167 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
								SM		
										Fine grained, occasional medium; no gravel, non-plastic
		9	9	100	4.1			SP		POORLY GRADED SAND - dense, moist, black, medium to coarse grained, trace silt, trace fine to medium gravel, saturated with tar, shell fragments
	65									FERNANDO FORMATION [Tf]
										SILTSTONE - hard, moist, black and dark brown(10YR 2/2), trace fine sand, moderately infused tar, large shell fragments Becomes very dark brown (10YR 2/2)
	100				10.2	94				
		10	10	100						Less sand
	70									
		11	11	100						Some shell fragments
	75				14.0					
		12	12	100						
	90				11.7					
	80									

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
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ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-117 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	521+50, Lt 18 feet	167 feet	
							DATES DRILLED	HOLE DIAMETER		
							4/14/11 - 4/18/11	6 inches		
GROUND-WATER READINGS								Ground-water level not measured.		
85		13	13	100	12.0			<p>Layer of Sandstone, fine to medium sand, occasional gravel (up to 3/8 inch in size)</p> <p>Trace fine sand</p>		
85										
80		14	14	100	25.7					
90										
75		15	15	100	25.6	96				
95										
70		16	16	100	21.0					
100										

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

THIS RECORD IS AN INTERPRETATION OF SURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		
								DRILLING METHOD	BOREHOLE LOCATION	S-118
								Sonic Coring	495+44, Lt 8 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/22/11 - 4/26/11	6 inches	197 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
195								6-inch thick Asphalt Concrete over 9-inch thick Portland Cement Concrete, 3-inch thick Base Course		
								LAKESWOOD FORMATION [Qlw]		
							CL-ML	SILTY CLAY - moist, dark brown, with crushed rock		
	5						ML	SILT - trace sand, some clay, slightly infused tar		
190					22.6		ML	SANDY SILT - medium stiff, moist, olive gray (5Y 4/3), fine to medium sand, some clay		
					13.7	29	SM	SILTY SAND - medium dense, moist, olive gray, fine grained, occasional medium gravel (up to 1/2 inch in size)		
		1	1	100	28.9		ML	SANDY SILT - medium stiff, moist, olive gray, fine to medium sand		
185							CL	SAN PEDRO FORMATION [Qsp]		
							ML	LEAN CLAY - stiff, moist, dark greenish gray (5G 4/1), trace fine sand, increased plasticity		
							CH	SANDY SILT - stiff, moist, olive gray, fine to medium sand		
	15							FAT CLAY - stiff, moist, olive gray, trace fine to coarse sand, trace fine gravel		
180					28.2					
					36.2					
20										

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-118 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
							Sonic Coring	495+44, Lt 8 feet	197 feet	
							DATES DRILLED	HOLE DIAMETER		
							4/22/11 - 4/26/11	6 inches		
								GROUND-WATER READINGS		
								Ground-water level not measured.		
175		2	2	100	25.0			Increasing fine to coarse sand, fine to coarse gravel, calcium carbonate nodules Becomes moist, abundant calcium carbonate nodules and interfingering grade to sandy clay, some fine to coarse gravel, dark greenish gray, calcium carbonate nodules easily breakable		
25								CL	SANDY LEAN CLAY - medium stiff, moist, olive gray, fine to medium sand, some silt	
170					20.7			ML	SILT with SAND and GRAVEL - stiff to hard, moist, dark greenish gray, abundant calcium carbonate nodules	
30		3	3	100	27.3					
165							CH	FAT CLAY - medium stiff, moist, dark greenish gray, calcium carbonate nodules easily breakable, alternating with layers of Silt, some sand and gravel		
35					31.1			Less sand and gravel		
160		4	4	100						
40										

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-118 (Continued)
							DRILLING METHOD	BOREHOLE LOCATION	GROUND EL.	
								Sonic Coring	495+44, Lt 8 feet	197 feet
								DATES DRILLED	HOLE DIAMETER	
								4/22/11 - 4/26/11	6 inches	
								GROUND-WATER READINGS		
								Ground-water level not measured.		
155					26.7			CH		
								ML	TAR IMPACTED SOILS SANDY SILT - medium stiff, moist, very dark brown, fine sand, slightly infused tar (4%)	
45		5	5	100	14.1			SM	SILTY SAND - moist, black (10YR 2/1), fine to medium grained	
150					6.8	13			Moderately infused tar (12%)	
50		6	6	100	3.5				Moderately infused tar (11%)	
145										
55		7	7	90	2.6					
140									Some fine to coarse gravel	
60		8	8	95					Less gravel	

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusononic drill rig		S-118 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	495+44, Lt 8 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/22/11 - 4/26/11	6 inches	197 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
135					3.2	9		SP-SM	POOLY GRADED SAND with SILT- fine grained, some medium to coarse, trace gravel (up to 3/8 inch in size), saturated with tar (15%)	
65		9	9	100	2.3				More coarse sand, moderately infused tar (12%)	
130					2.7				More gravel (up to 1/2 inch in size)	
70		10	10	100	2.1	7			Saturated with tar (17%)	
75		11	11	100	5.4				Less gravel, fine to coarse gravel	
80		12	12	100	23.3	40		SM	SILTY SAND - fine grained, trace medium to coarse, gravel (up to 3/8 inch in size), saturated with tar (18%)	



(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

THIS RECORD IS AN INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. LATITUDE AND LONGITUDE OF BORING LOCATION SHOWN ON LOGS ARE APPROXIMATE. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BETWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

ELEVATION (ft)	DEPTH (ft)	BOX #	RUN #	% RECOVERY	MOISTURE CONTENT (% of dry wt.)	PERCENT PASSING No. 200 SIEVE	SAMPLE LOC.	DRILLING COMPANY/DRILLING EQUIPMENT		BORING NO.
								Boart Longyear / 600T Trusonic drill rig		S-118 (Continued)
								DRILLING METHOD	BOREHOLE LOCATION	
								Sonic Coring	495+44, Lt 8 feet	
								DATES DRILLED	HOLE DIAMETER	GROUND EL.
								4/22/11 - 4/26/11	6 inches	197 feet
								GROUND-WATER READINGS		
								Ground-water level not measured.		
85		14	14	100	23.2	96		Some shell fragments		
								Wood fragments		
								FERNANDO FORMATION [Tf]		
								SILTSTONE - moist, brown (10YR 4/3) with shades of dark brown to light brown, trace fine sand, slightly infused tar		
90		15	15	100				Becomes saturated with tar (19%)		
105										
95		16	16	100	25.3	98		Saturated with tar (30%)		
100										
		17	17	100	22.1			Becomes dark brown		

(CONTINUED ON FOLLOWING FIGURE)

Field Tech: RS/RH
 Prepared/Date: YN/WL 9/28/2011
 Checked/Date: LT/PE 9/28/2011

**FIGURES A-4.1 THROUGH A-4.101
CPT LOGS (PE PHASE)**

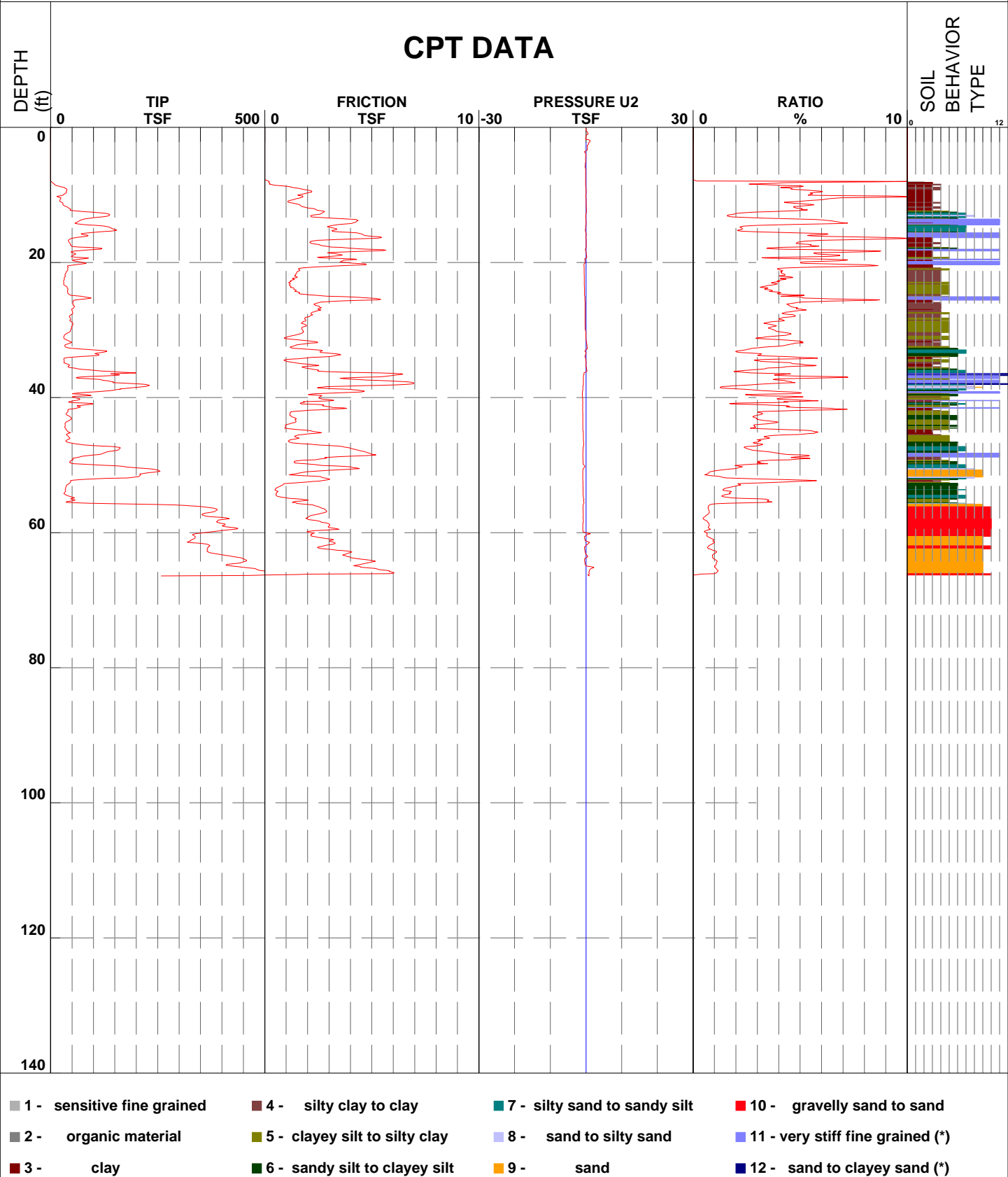


CPT Data

Job Number 04.0911-0016 CPT Number C-101
 Operator Daniel Garza Date and Time 07-Jun-2011 10:09:00
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 8'



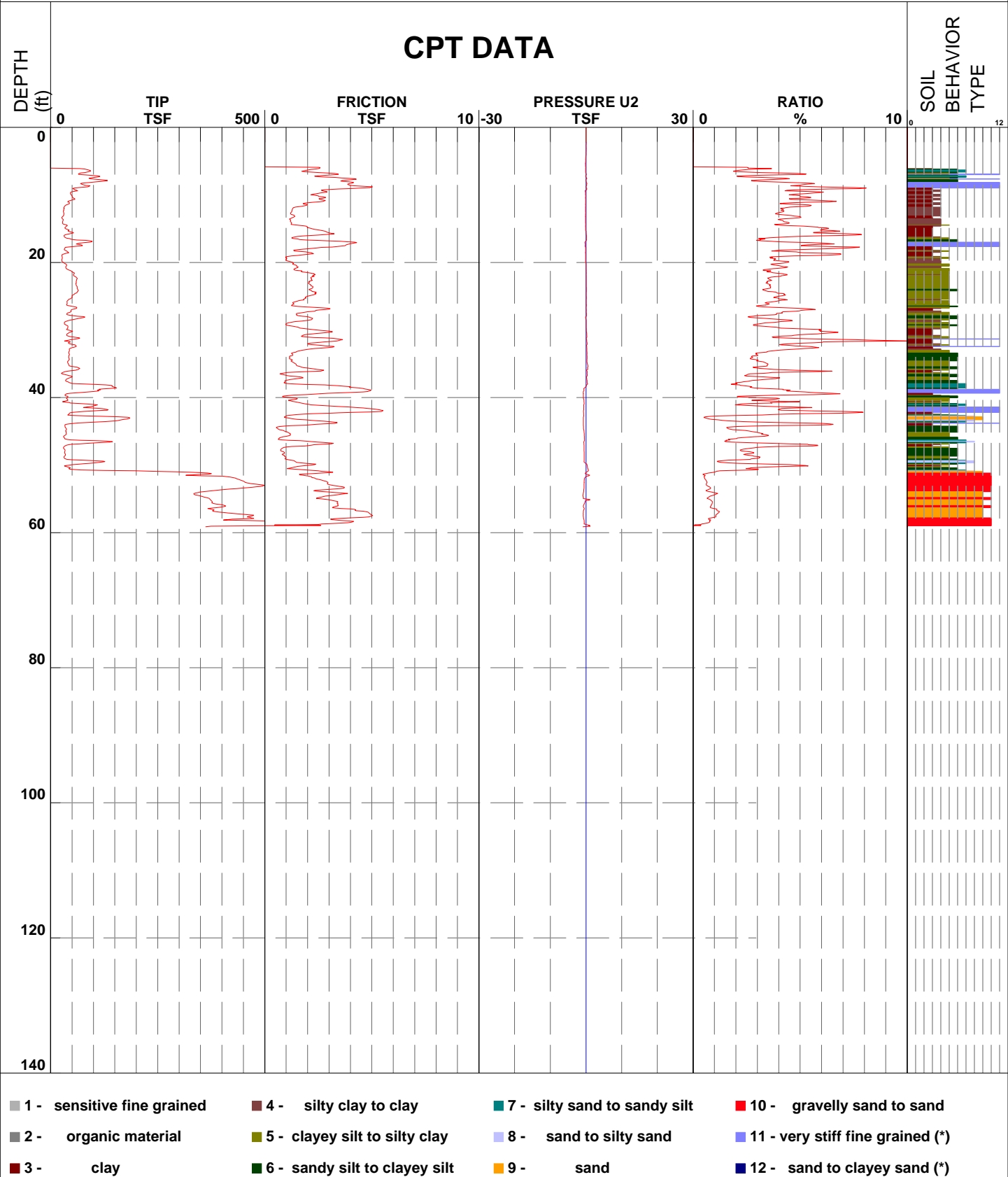


CPT Data

Job Number 04.0911-0016 CPT Number C-102
 Operator Daniel Garza Date and Time 07-Jun-2011 13:08:20
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 6'





CPT Data

Job Number 04.0911-0016 CPT Number C-105
 Operator Daniel Garza Date and Time 13-Jun-2011 09:55:01
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HAW21636

Hand augered 6'

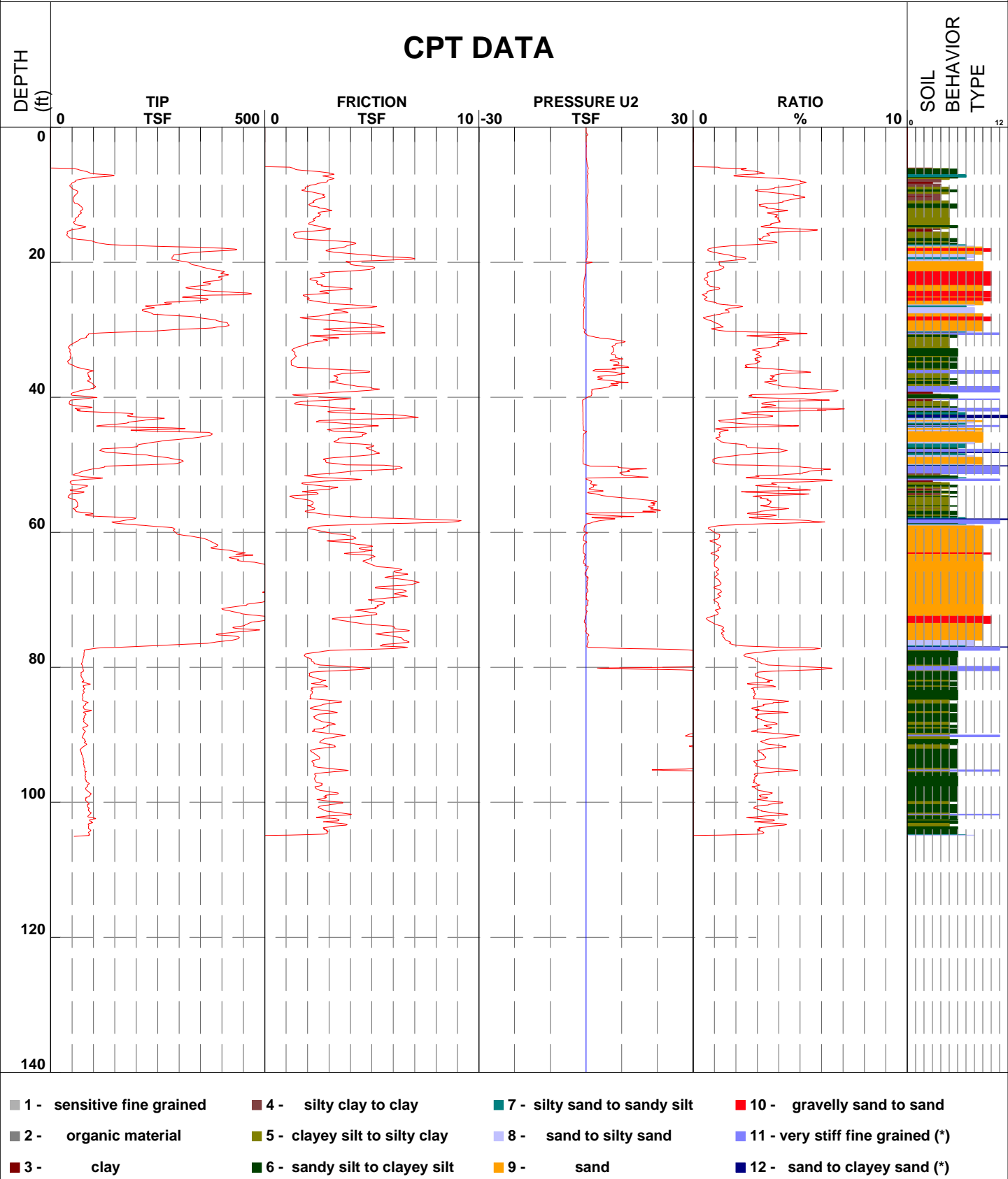


Figure A-4.3

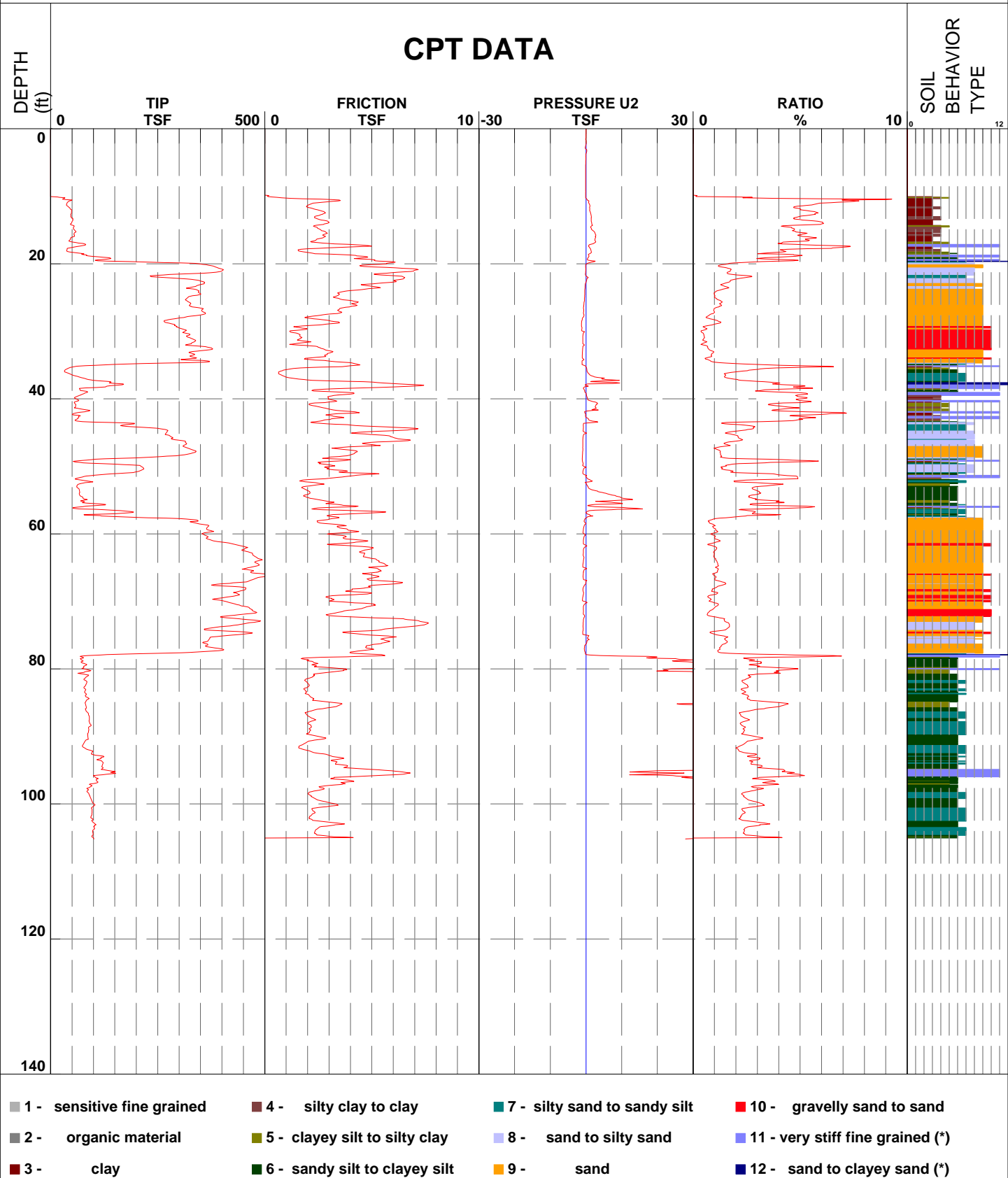


CPT Data

Job Number 04.0911-0016 CPT Number C-106
 Operator Daniel Garza Date and Time 08-Jun-2011 11:35:30
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 10



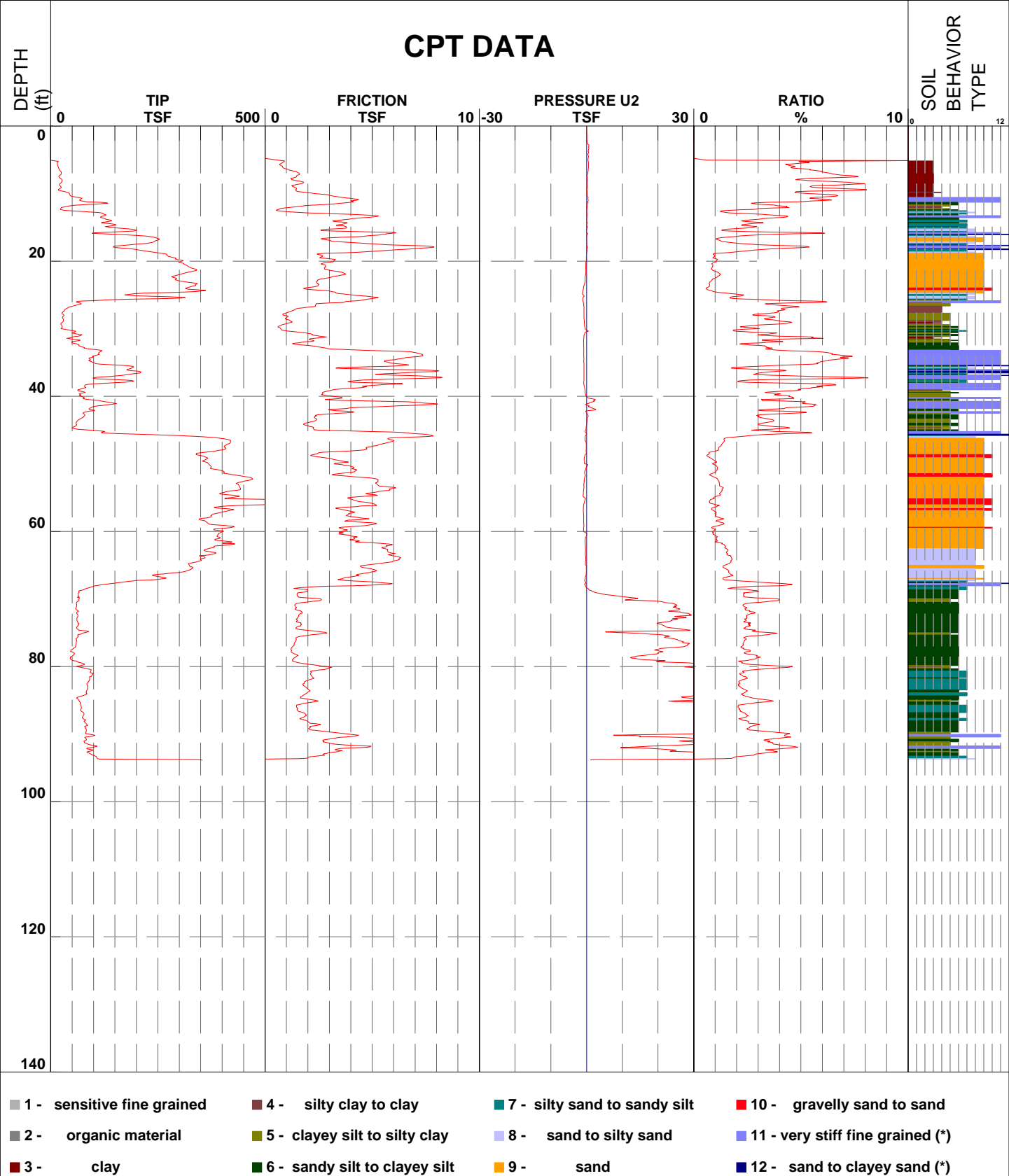


CPT Data

Job Number 04.0911-0016 CPT Number C-107
 Operator Daniel Garza Date and Time 14-Jun-2011 09:51:50
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 5'



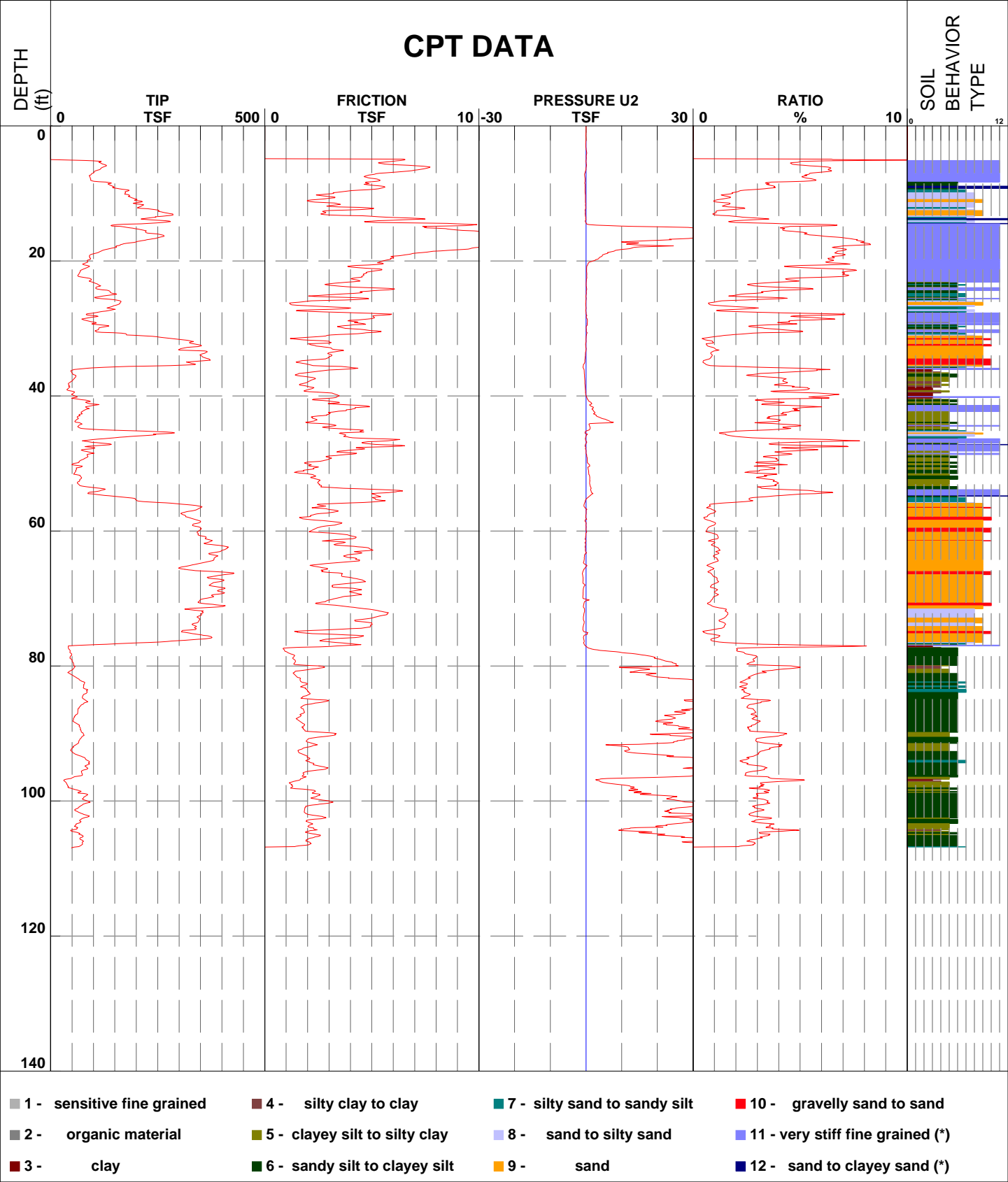


CPT Data

Job Number 04.0911-0016 CPT Number C-108
 Operator Daniel Garza Date and Time 15-Jun-2011 09:34:39
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 5'



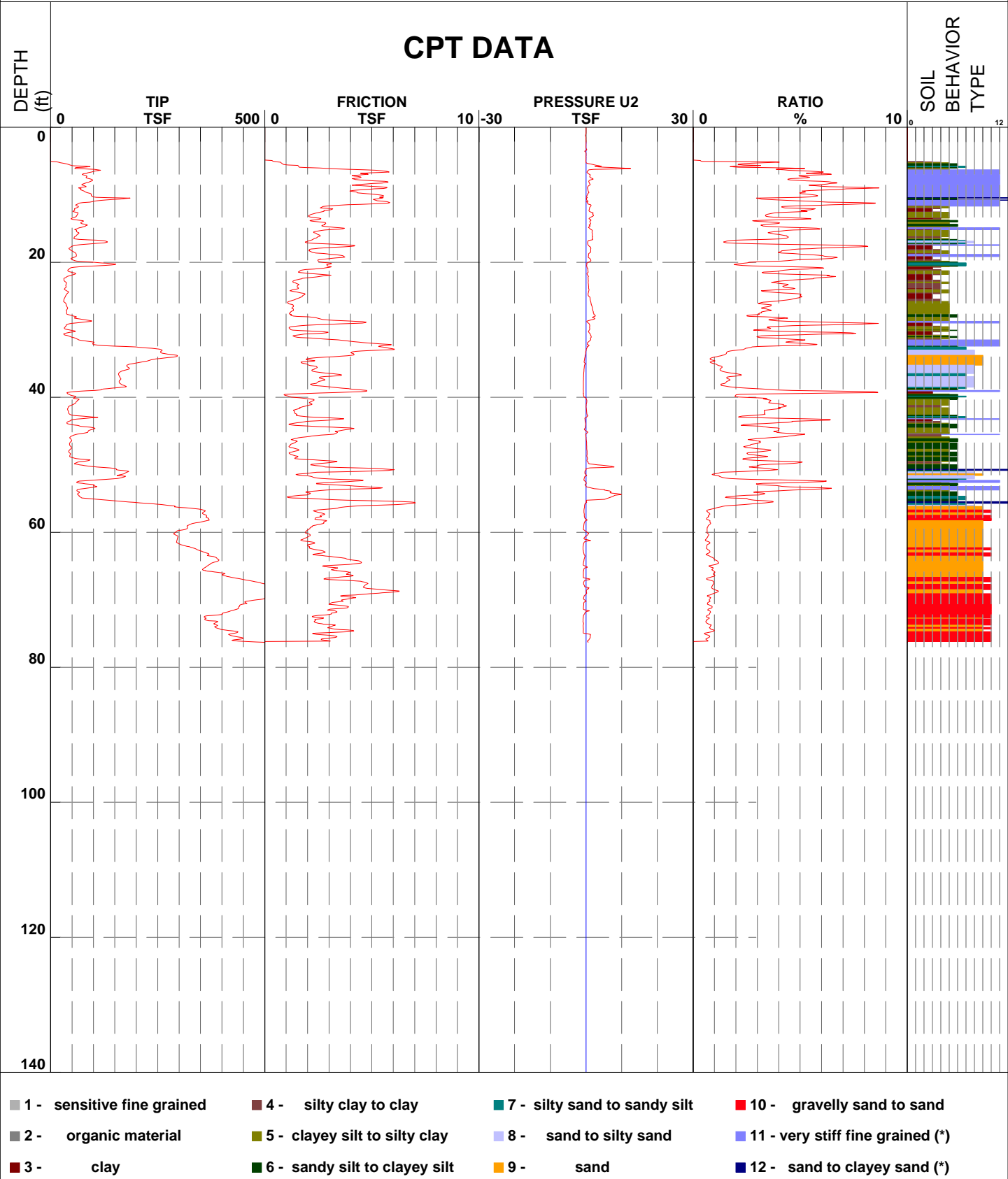


CPT Data

Job Number 04.0911-0016 CPT Number C-109
 Operator Daniel Garza Date and Time 30-Jun-2011 11:36:26
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 5'



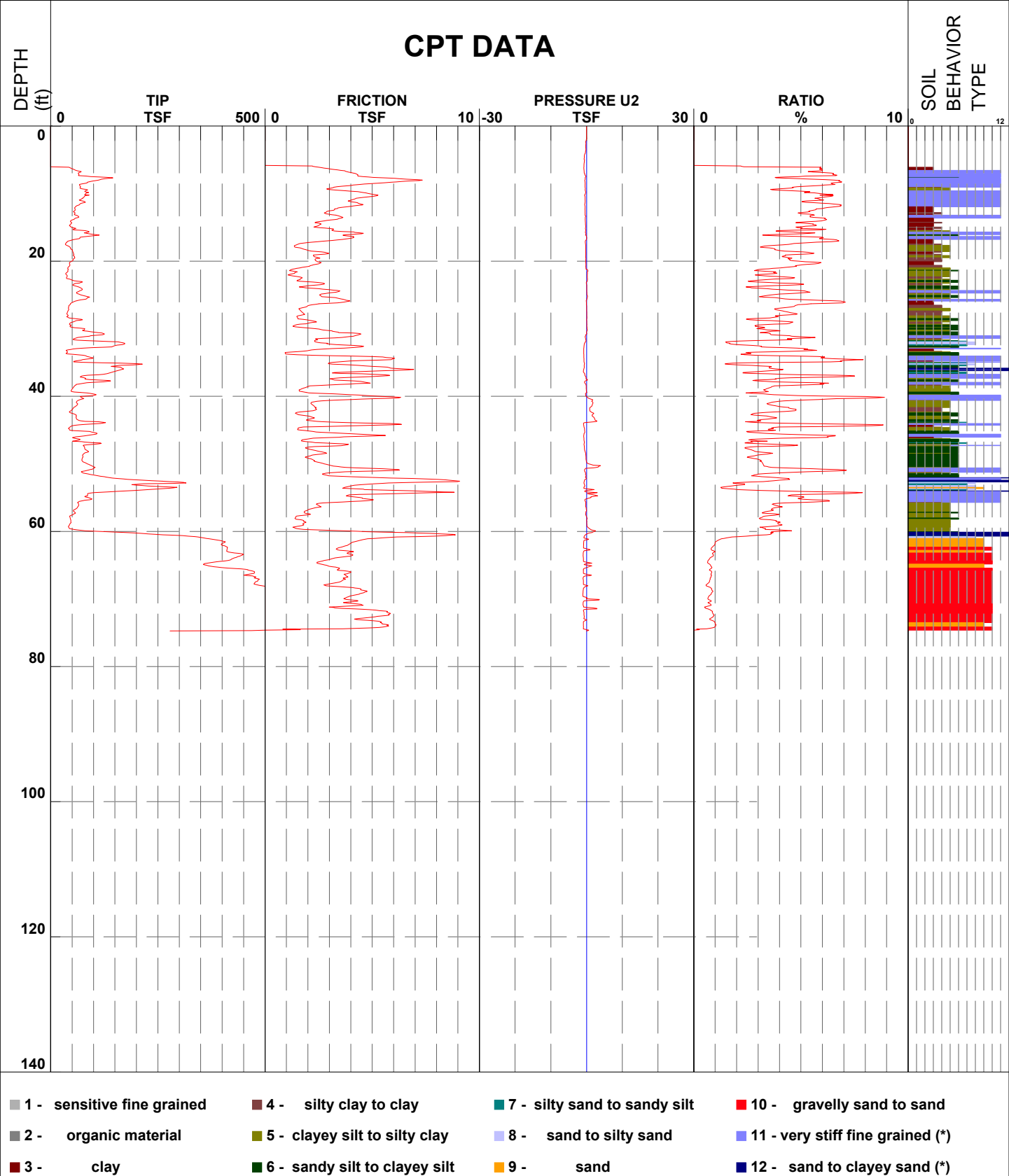


CPT Data

Job Number 04.0911-0016 CPT Number C-110
 Operator Daniel Garza Date and Time 03-Jun-2011 10:21:54
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 6'



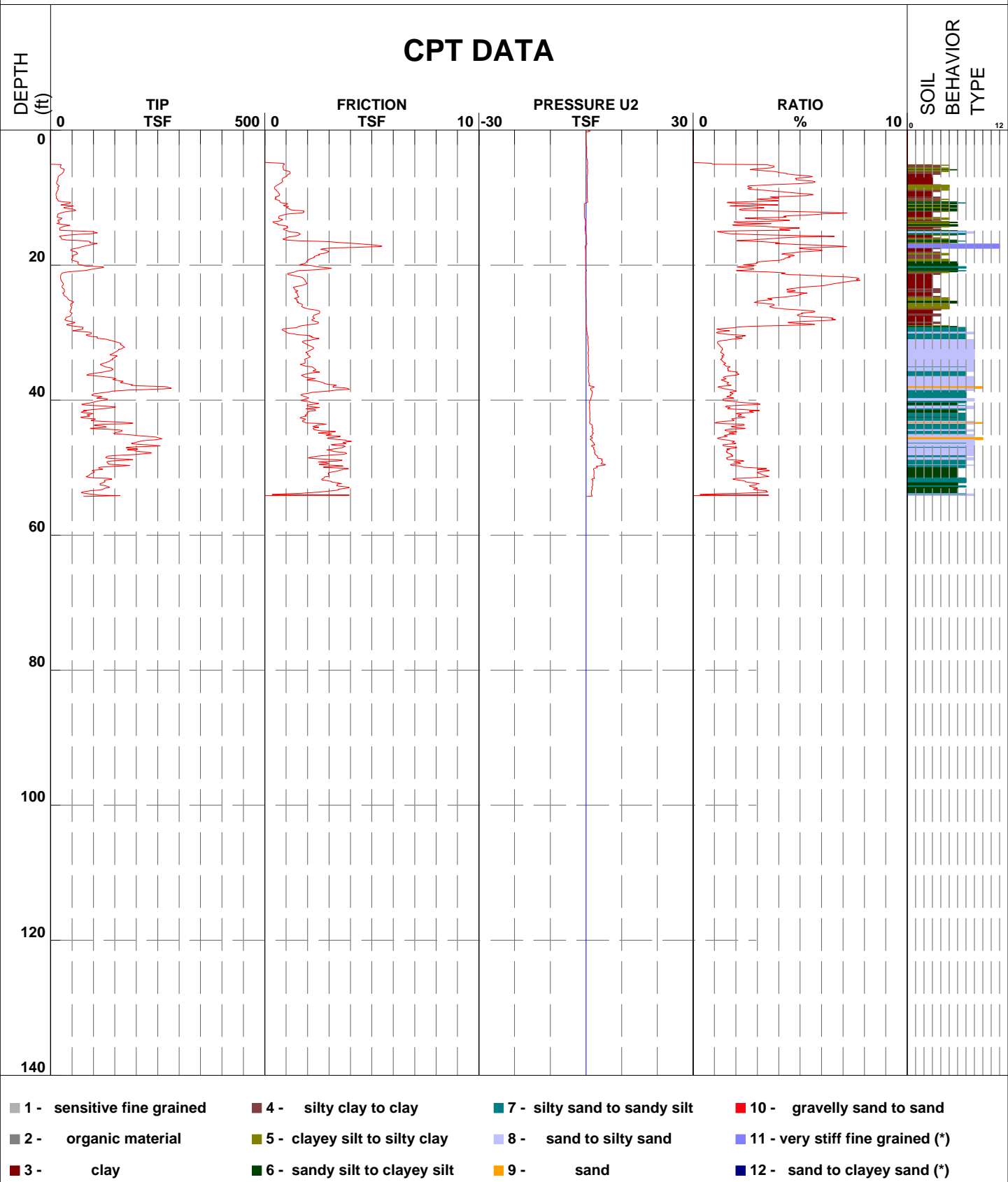


CPT Data

Job Number 04.0911-0016 CPT Number C-111
 Operator Daniel Garza Date and Time 21-Jun-2011 10:19:53
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 5'





CPT Data

Job Number 04.0911-0016 CPT Number C-112
 Operator Rickey Norris Date and Time 26-May-2011 11:37:59
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 6'

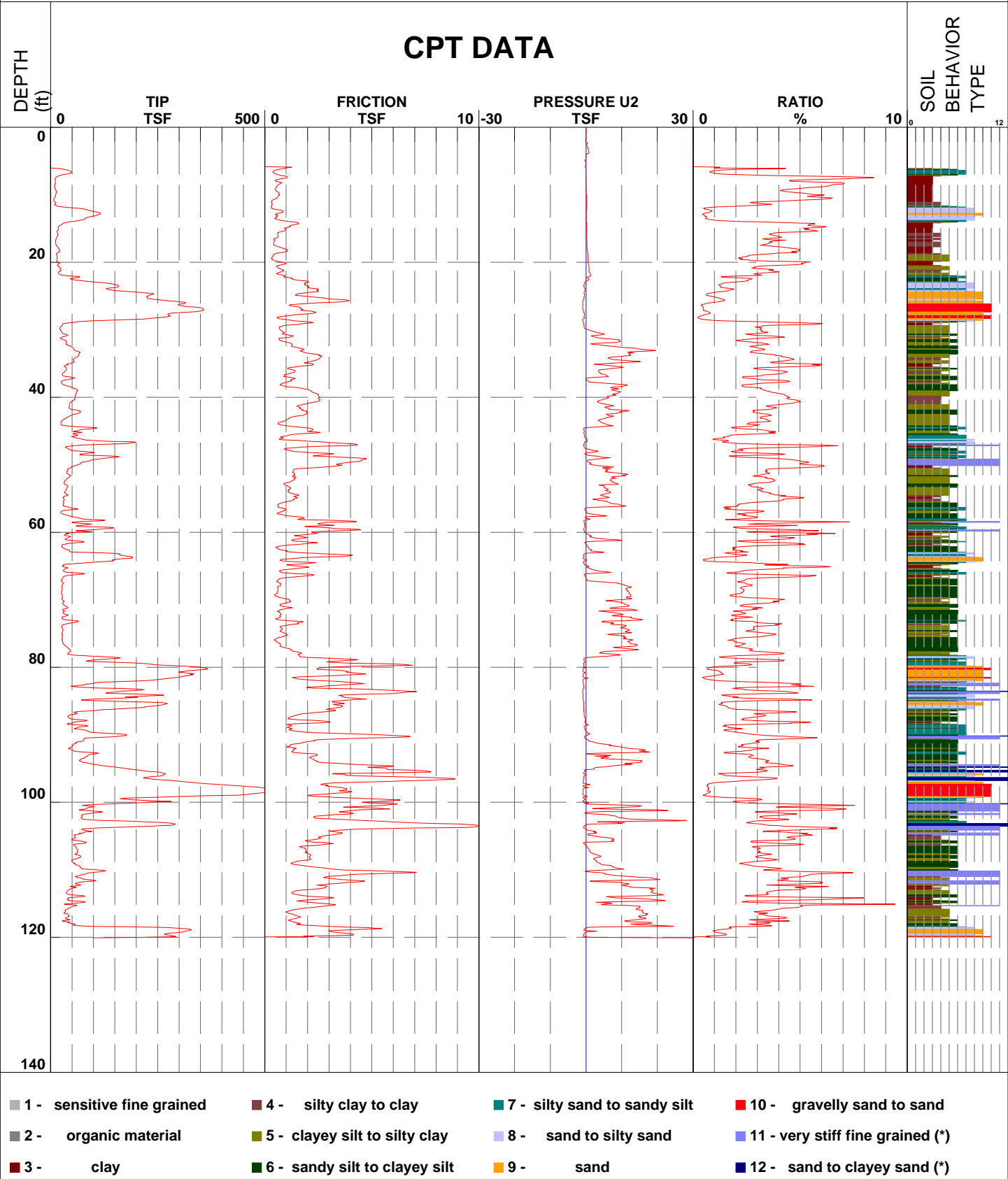


Figure A-4.10



CPT Data

Job Number 04.0911-0016

CPT Number C-113A

LocaW. Subway Ext. Los Angeles-CA

Operator Daniel Garza

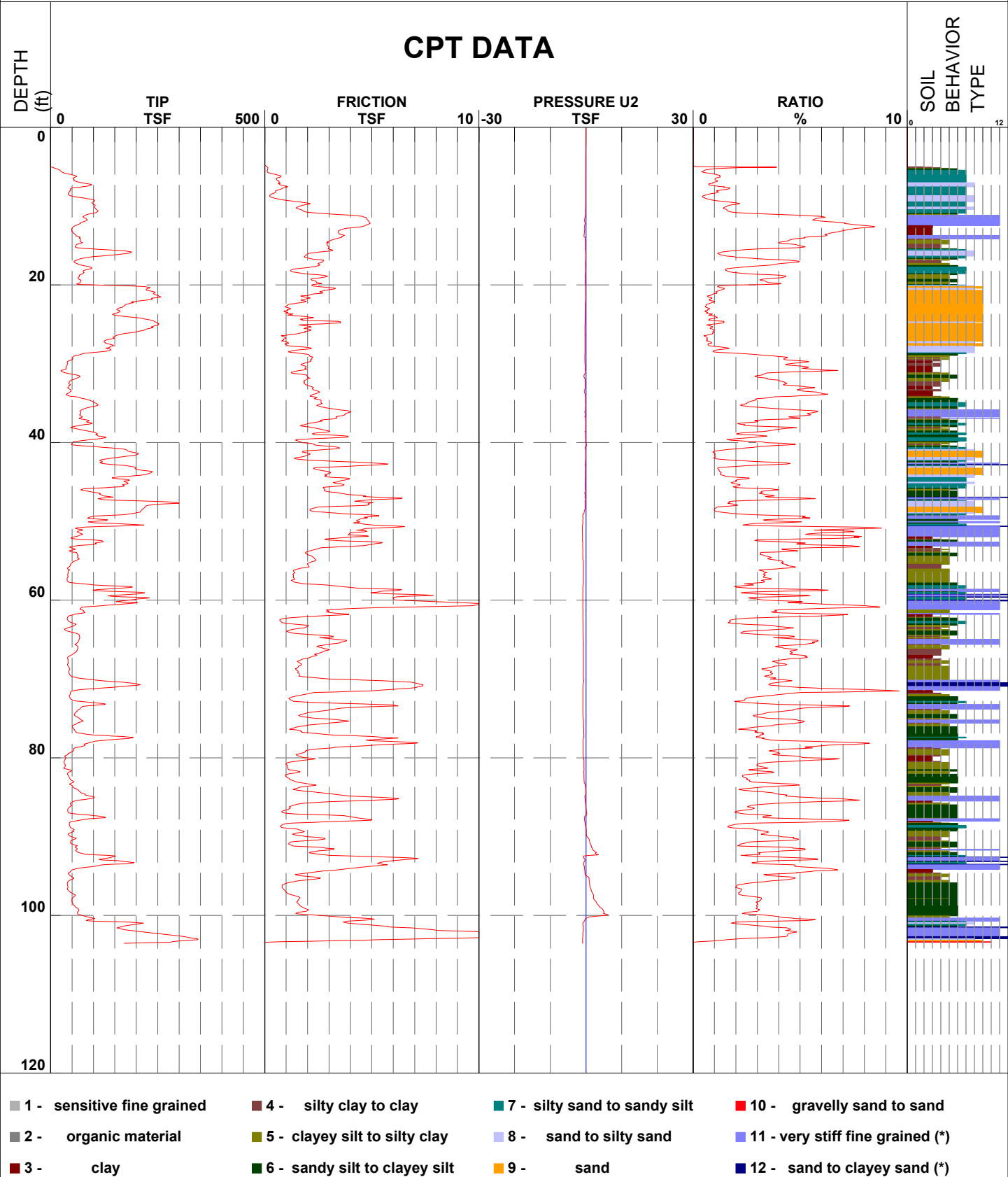
Date and Tin 24-Jun-2011 09:55:03

Cone Number F7.5CKE2HA3S1645

Client _____

MACTEC

Hand augered 5'



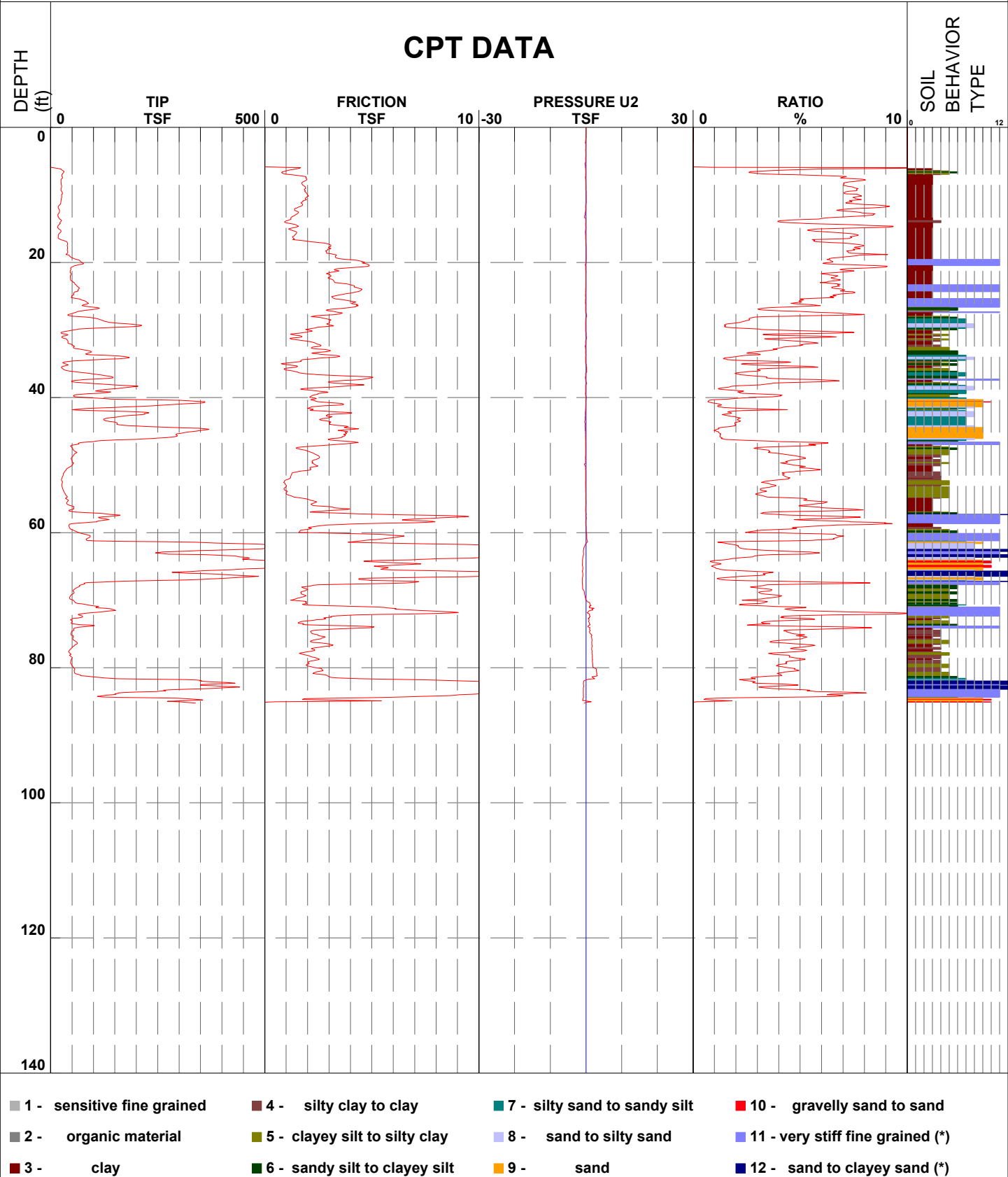


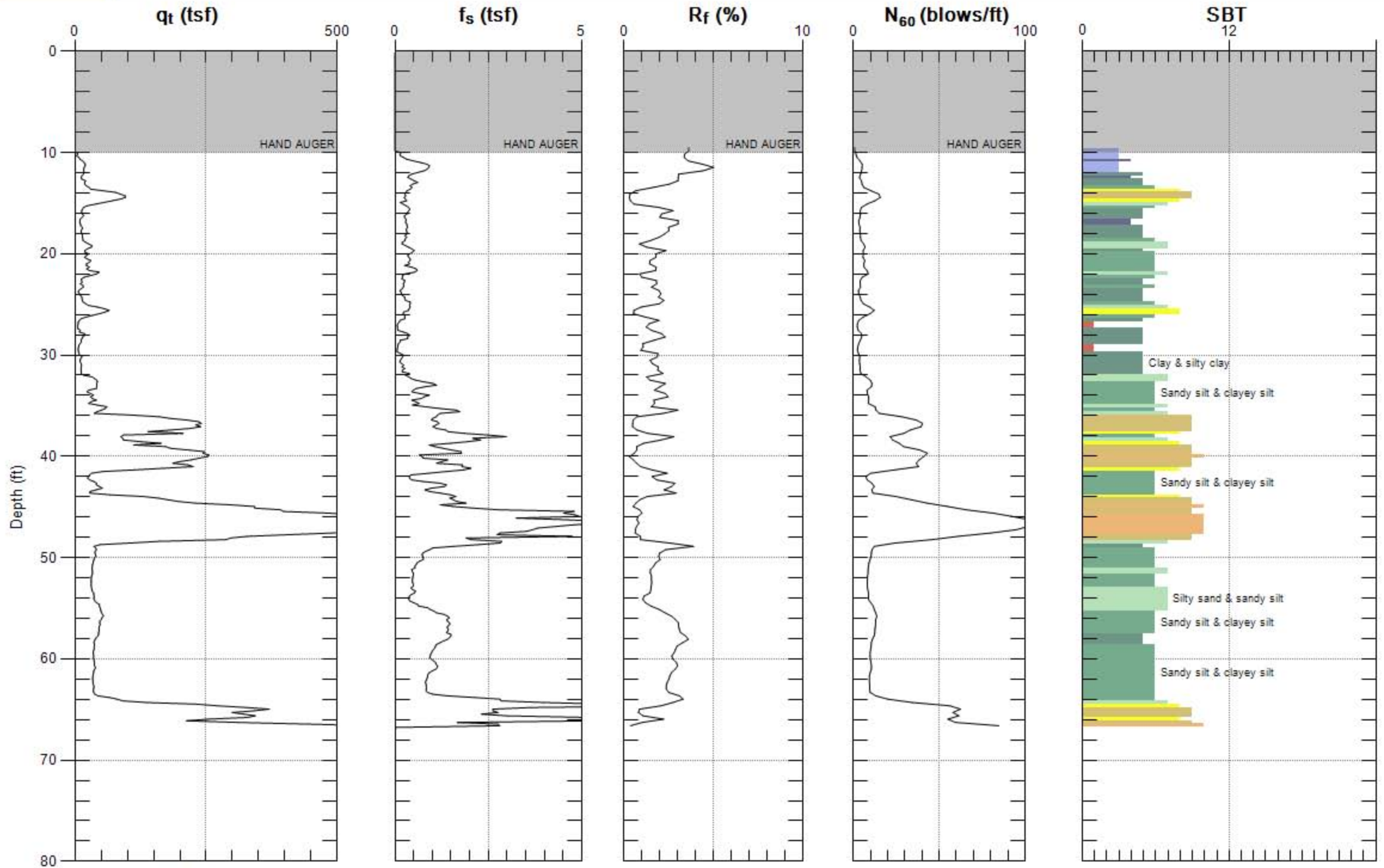
CPT Data

Job Number 04.0911-0016 CPT Number C-114
 Operator Daniel Garza Date and Tin 31-May-2011 12:04:57
 Client MACTEC

Location W. Subway Ext. Los Angeles-CA
 Cone Number F7.5CKE2HA3S1645

Hand augered 6'

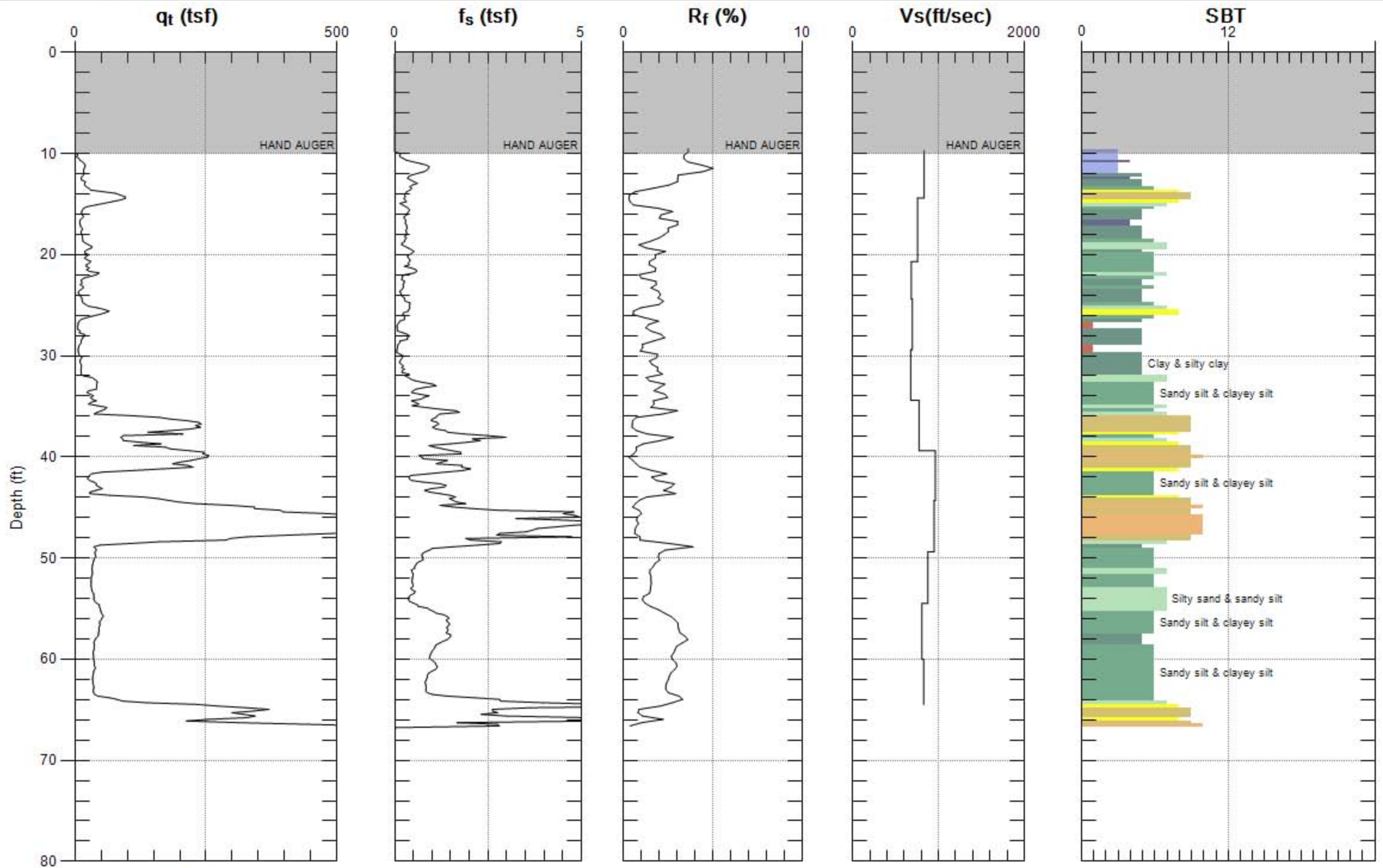




Max. Depth: 66.929 (ft)
Avg. Interval: 0.328 (ft)

Figure A-4.13

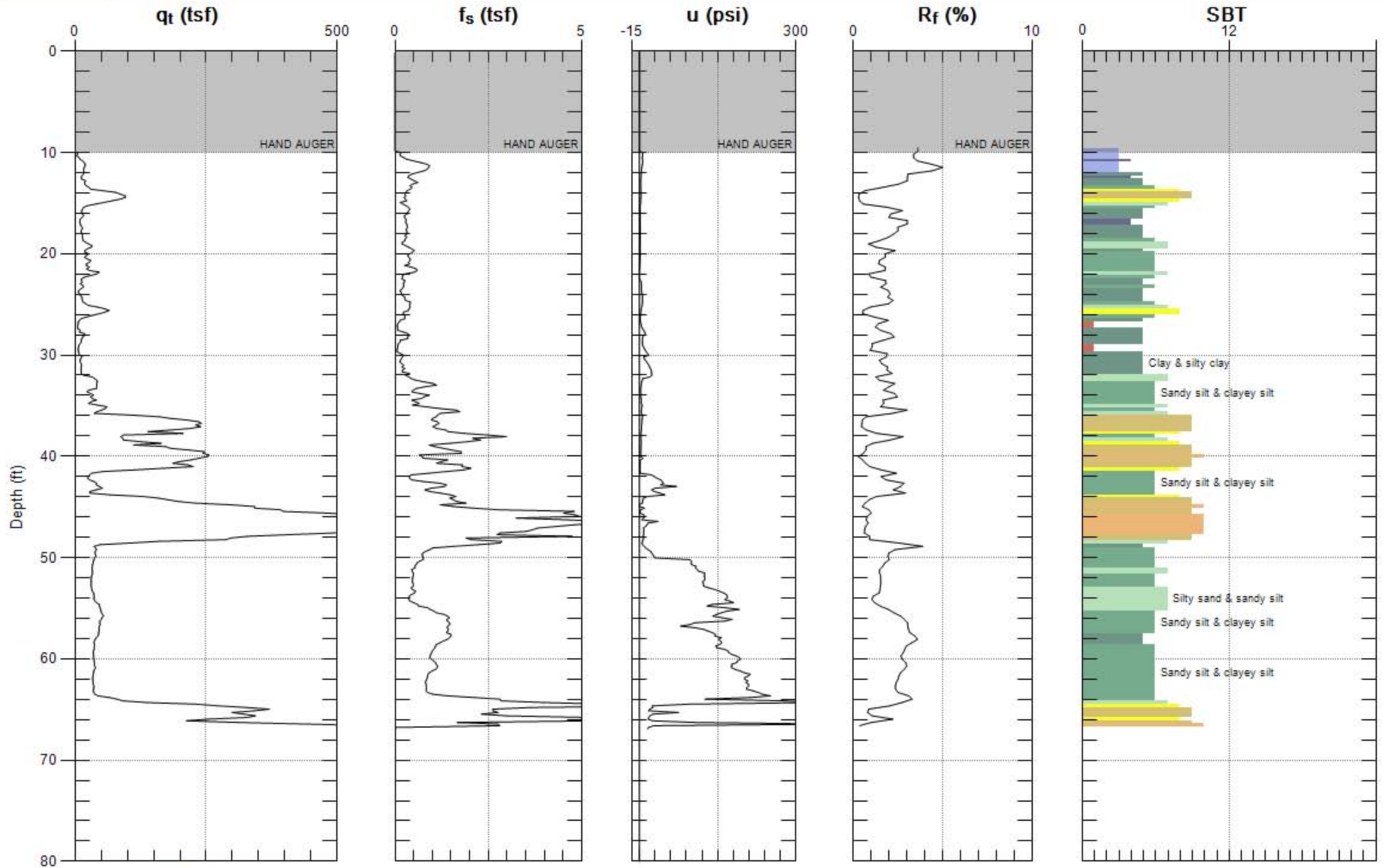
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 66.929 (ft)
Avg. Interval: 0.328 (ft)

Figure A-4.14

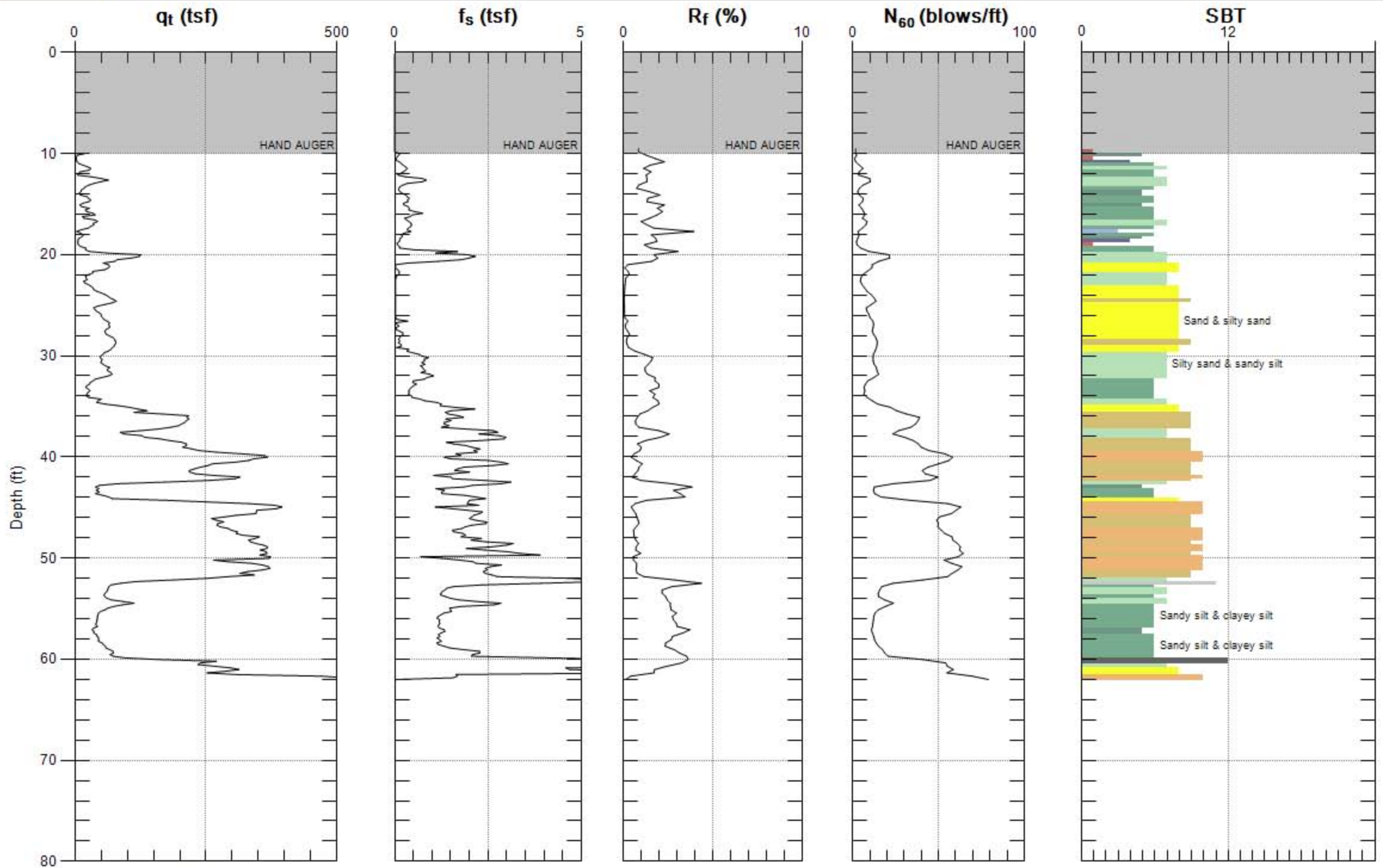
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 66.929 (ft)
Avg. Interval: 0.328 (ft)

Figure A-4.15

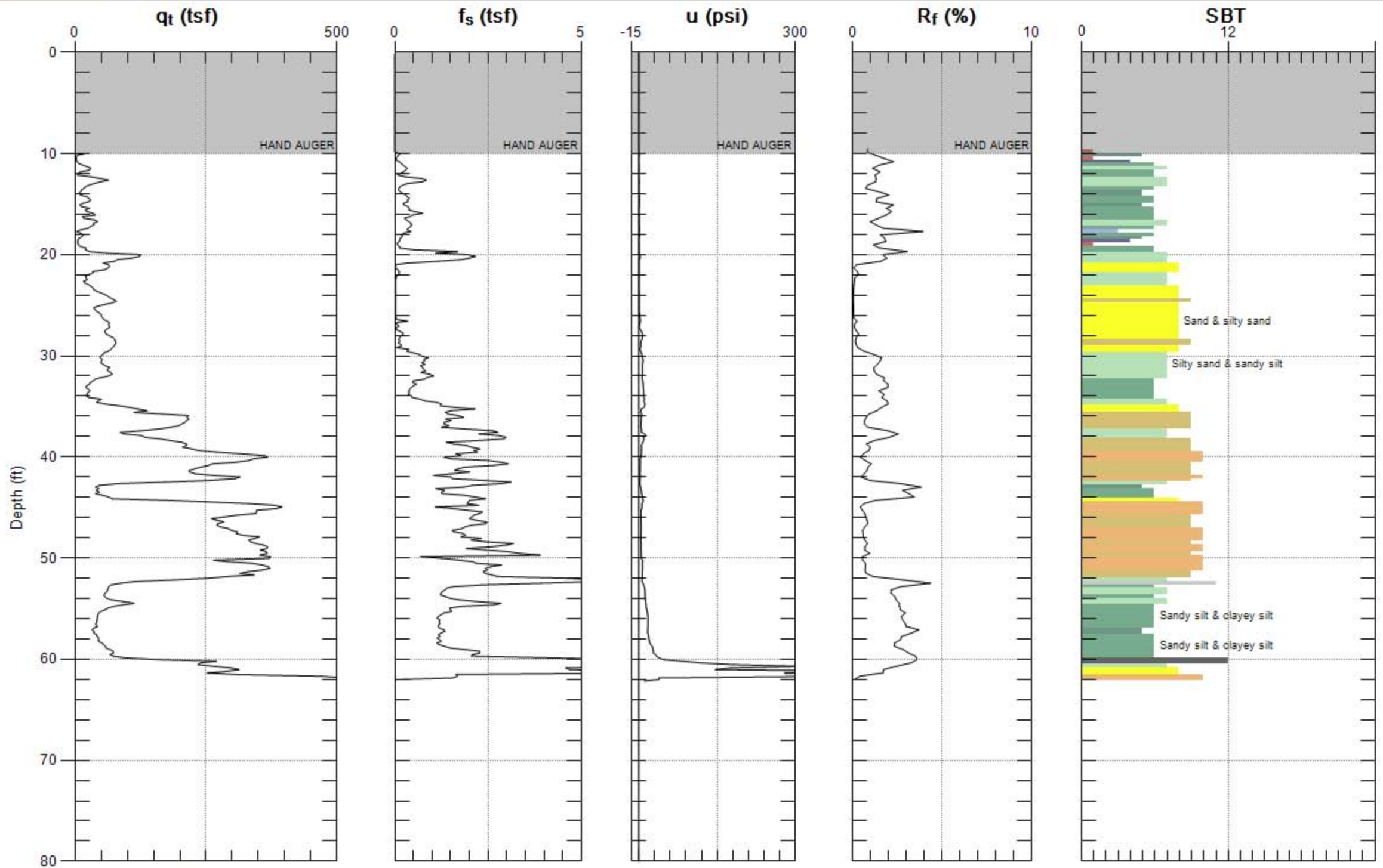
SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 62.172 (ft)
Avg. Interval: 0.328 (ft)

Figure A-4.16

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 62.172 (ft)
Avg. Interval: 0.328 (ft)

Figure A-4.17

SBT: Soil Behavior Type (Robertson 1990)

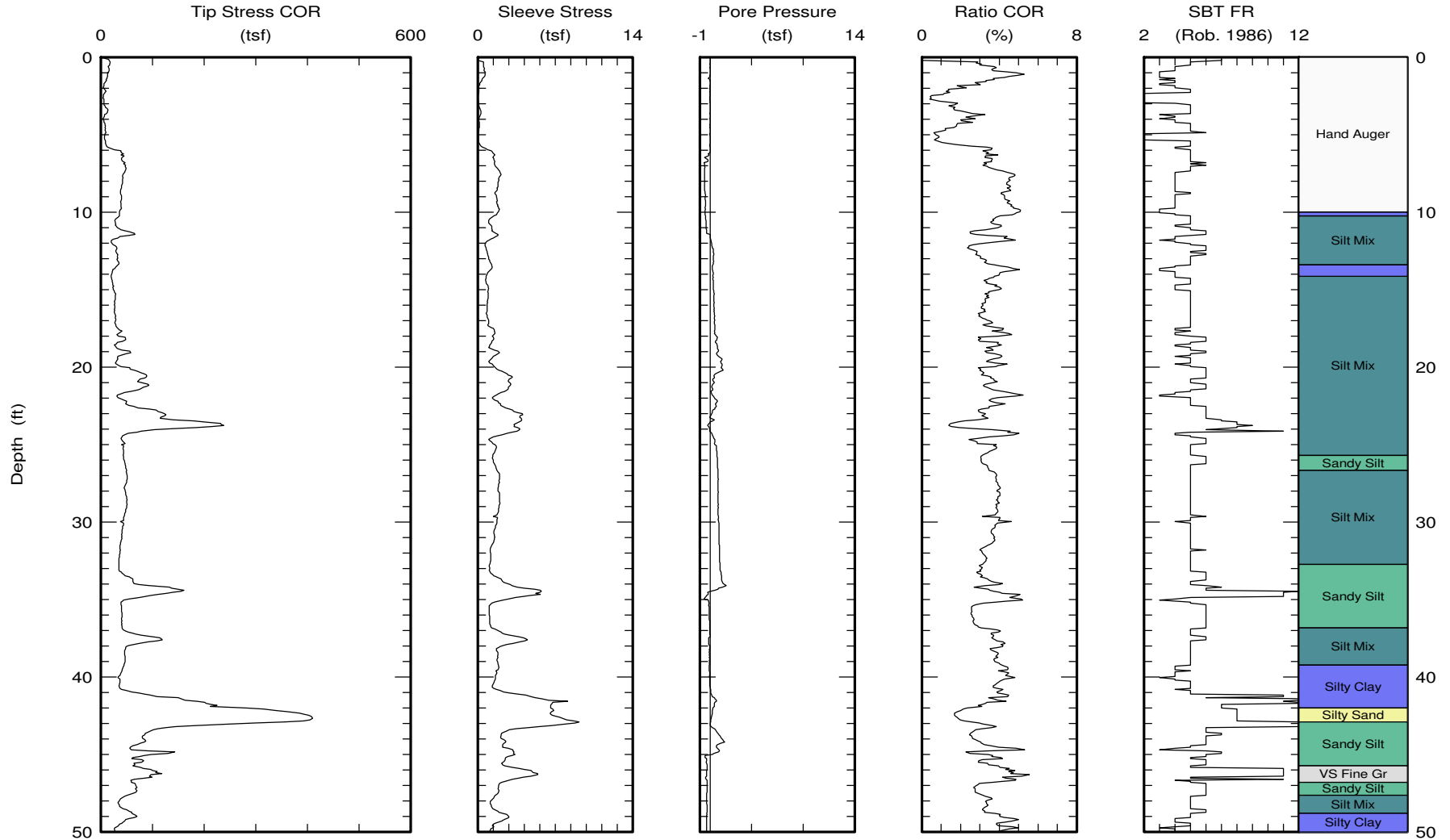


Kehoe Testing & Engineering
 Office: (714) 901-7270
 Fax: (714) 901-7289
 rich@kehoetesting.com
 www.kehoetesting.com

CPT Data
 30 ton rig


Date: 05/Mar/2011
 Test ID: C-117
 Project: Los Angeles

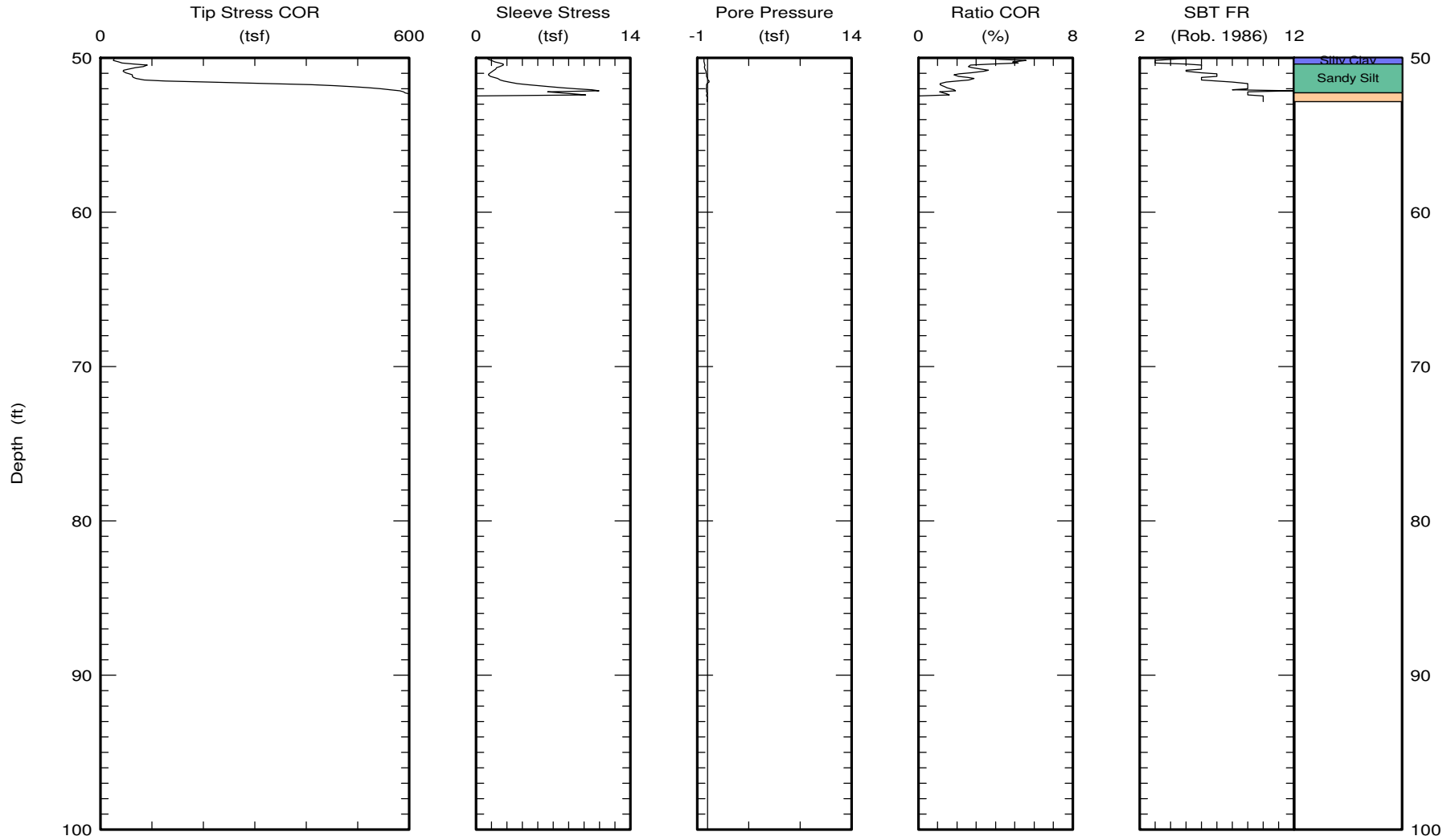
Customer: MACTEC
 Job Site: Beverly Hills High School



Maximum depth: 52.84 (ft)
 Page 1 of 2

Figure A-4.18

 K T E	Kehoe Testing & Engineering Office: (714) 901-7270 Fax: (714) 901-7289 rich@kehoetesting.com www.kehoetesting.com	CPT Data 30 ton rig	Date: 05/Mar/2011 Test ID: C-117 Project: LosAngeles
	Customer: MACTEC Job Site: Beverly Hills High School		



Maximum depth: 52.84 (ft)
 Page 2 of 2

Figure A-4.19

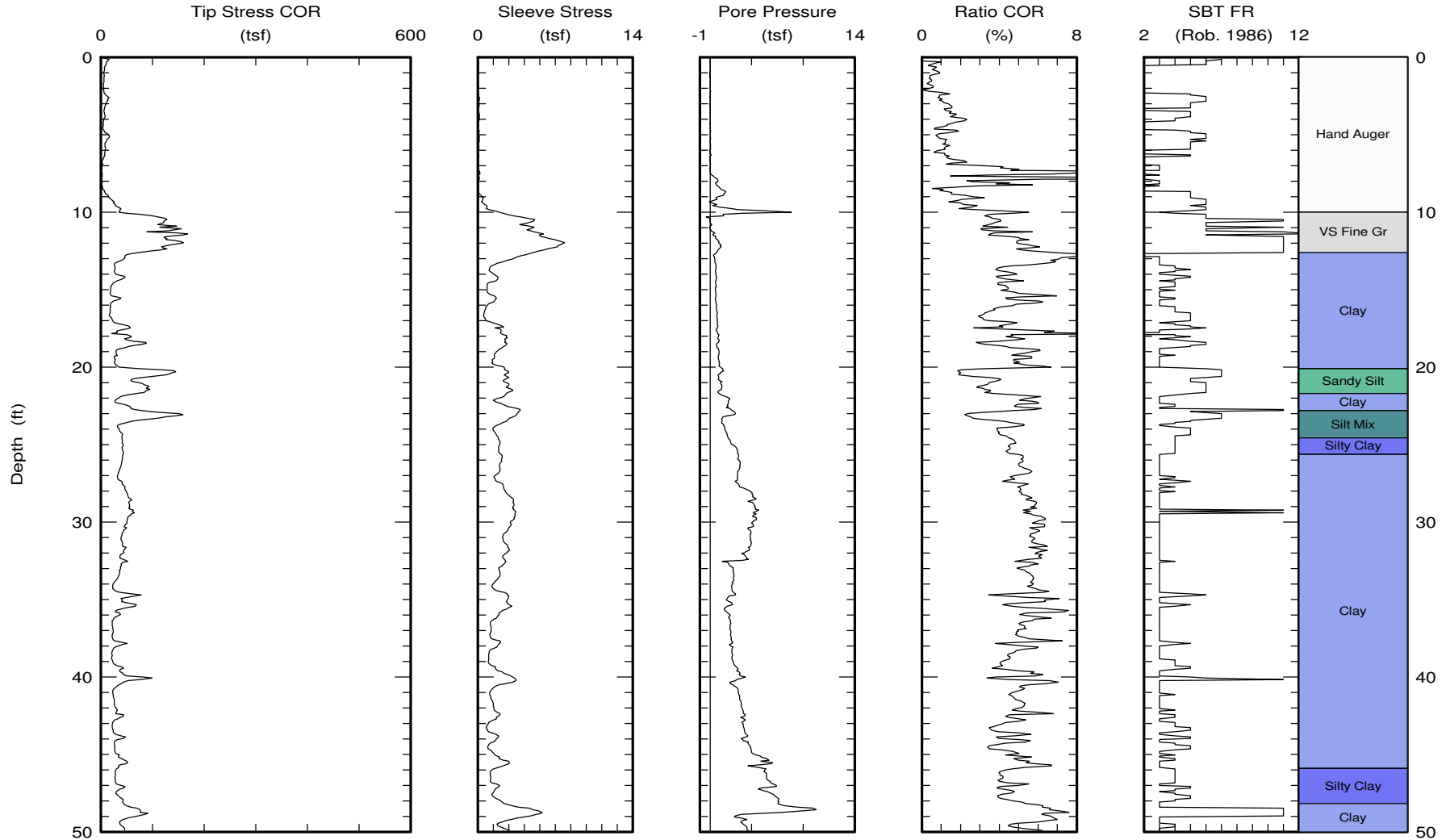


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig

Date: 26/Feb/2011
Test ID: C-118
Project: LosAngeles

Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 76.08 (ft)
Page 1 of 2

Figure A-4.20

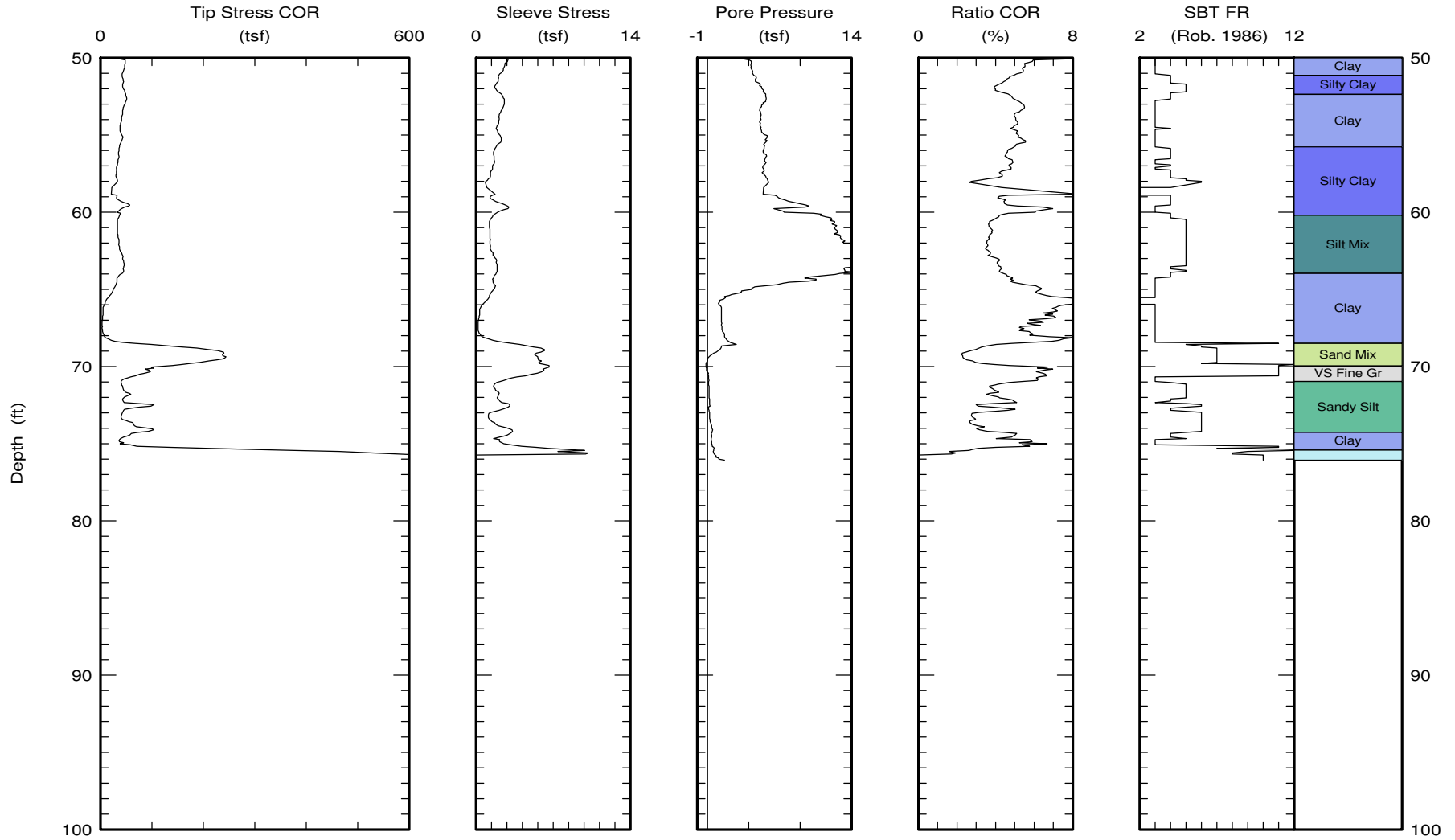


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig

Date: 26/Feb/2011
Test ID: C-118
Project: LosAngeles

Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 76.08 (ft)
Page 2 of 2

Figure A-4.21

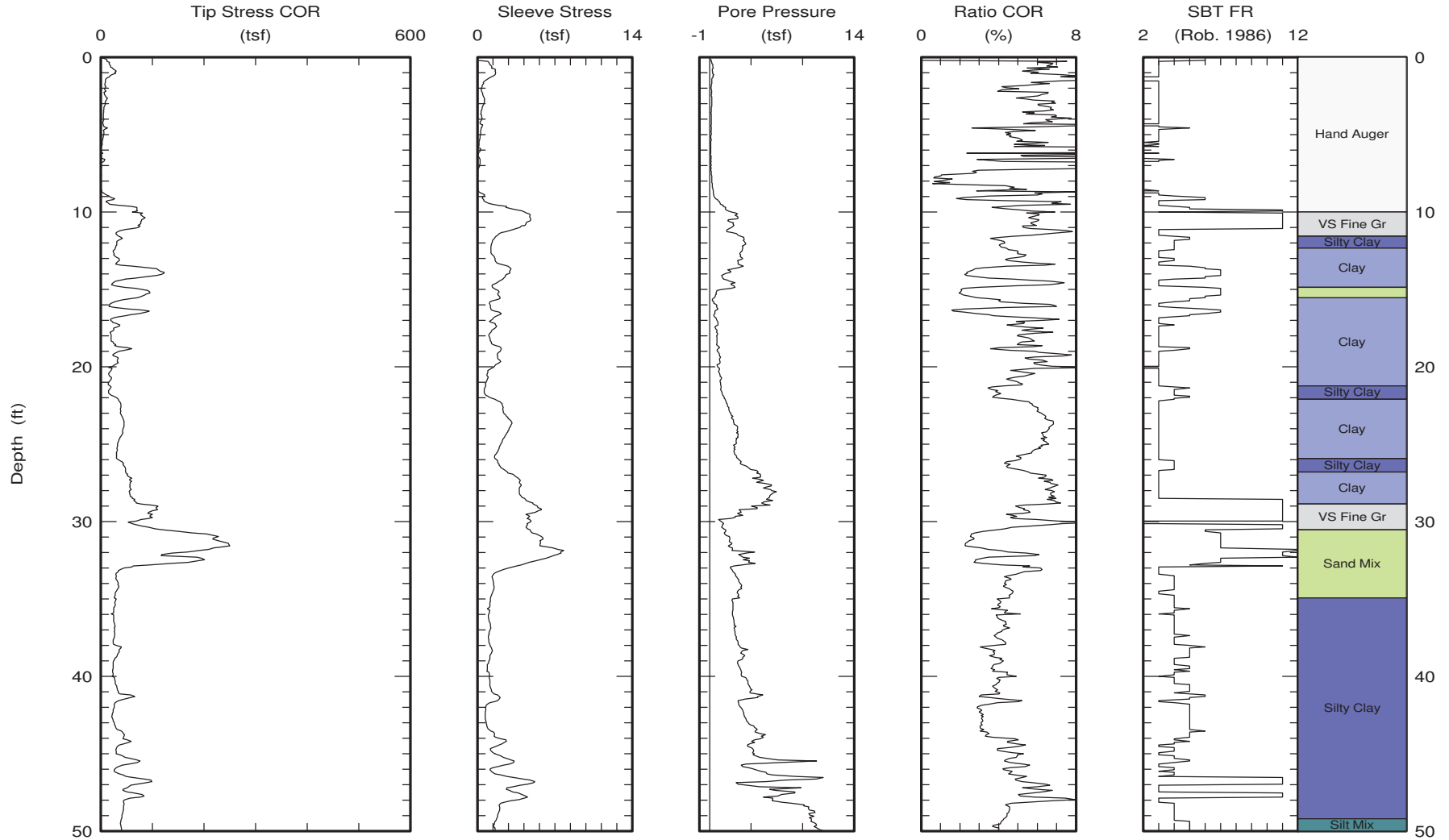


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig

Date: 26/Feb/2011
Test ID: C-119A
Project: LosAngeles

Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 75.03 (ft)
Page 1 of 2

Figure A-4.22

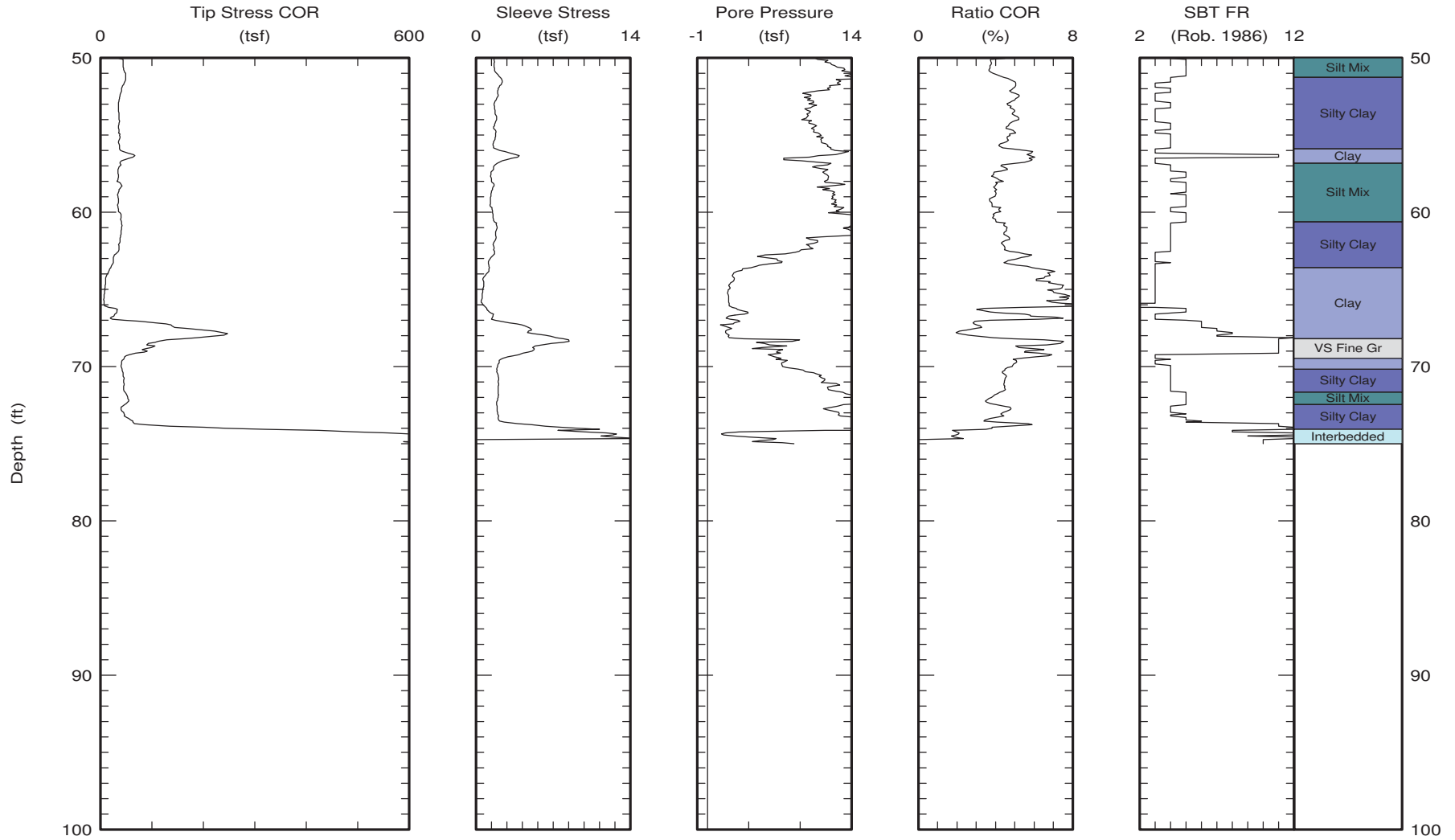


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig

Date: 26/Feb/2011
Test ID: C-119A
Project: LosAngeles

Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 75.03 (ft)
Page 2 of 2

Figure A-4.23

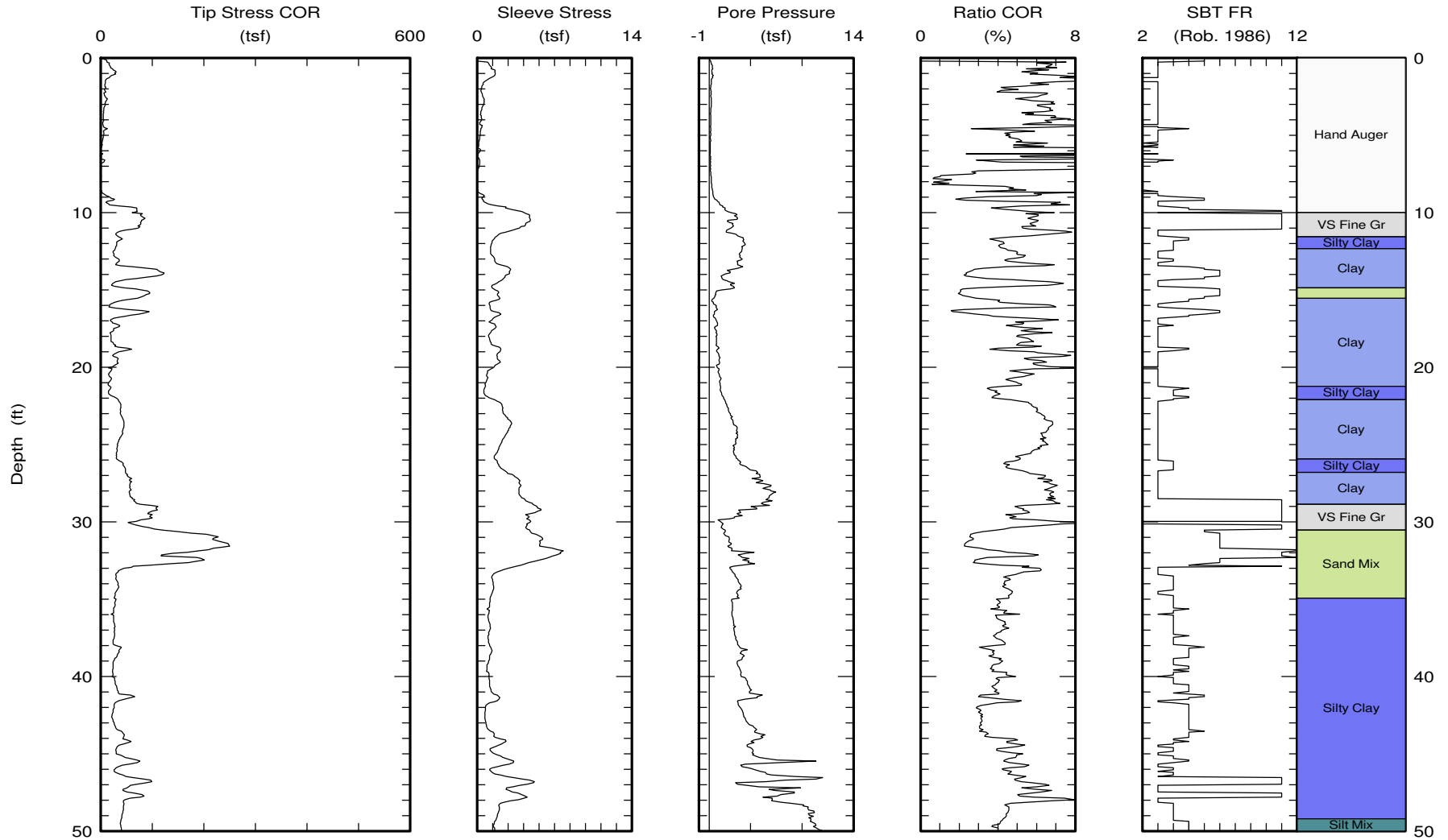


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig


Date: 26/Feb/2011
Test ID: C-119B
Project: Los Angeles

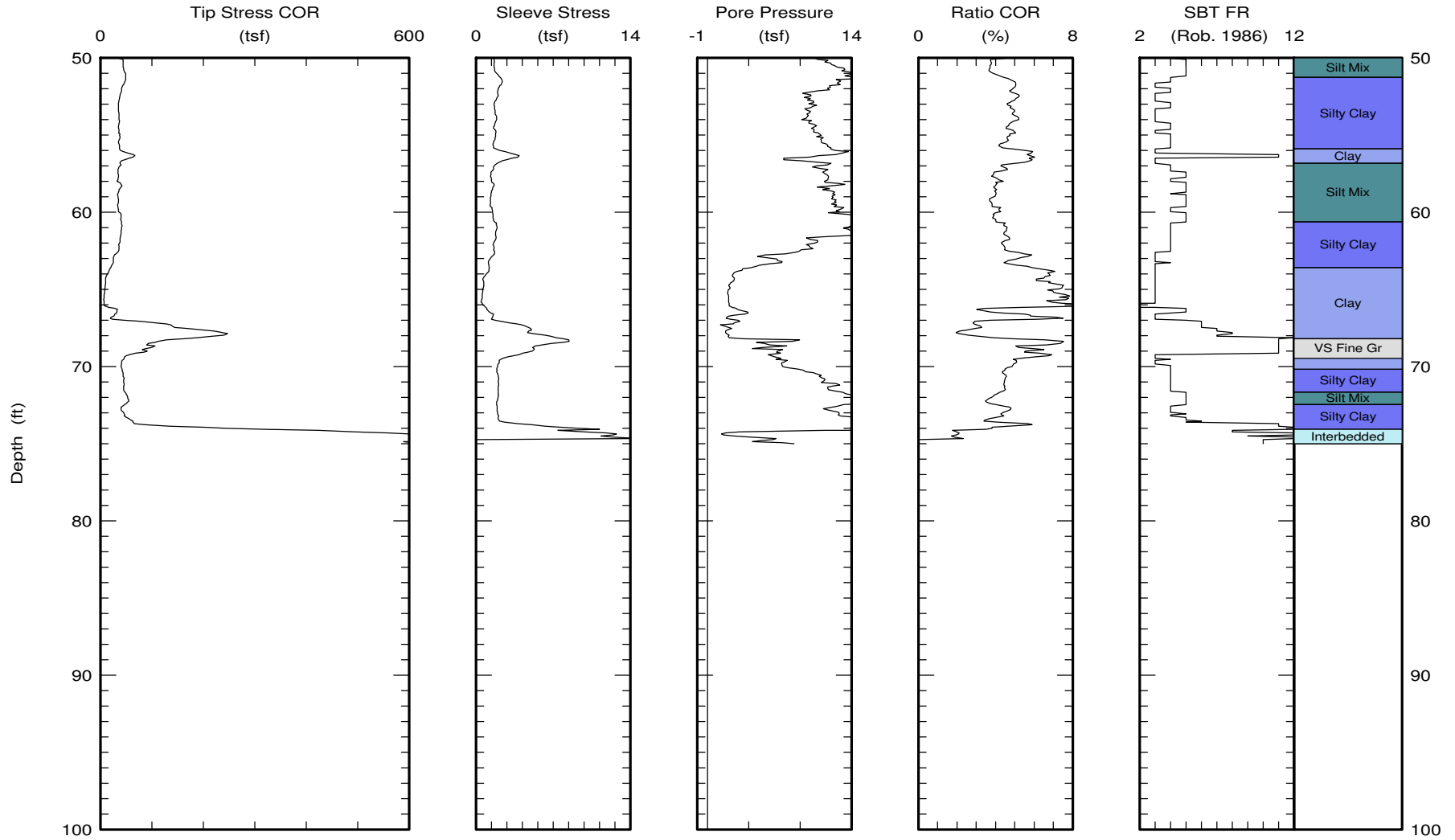
Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 75.03 (ft)
Page 1 of 2

Figure A-4.24

 K T E	Kehoe Testing & Engineering Office: (714) 901-7270 Fax: (714) 901-7289 rich@kehoetesting.com www.kehoetesting.com	CPT Data 30 ton rig	Date: 26/Feb/2011 Test ID: C-119B Project: LosAngeles
	Customer: MACTEC Job Site: Beverly Hills High School		



Maximum depth: 75.03 (ft)
 Page 2 of 2

Figure A-4.25

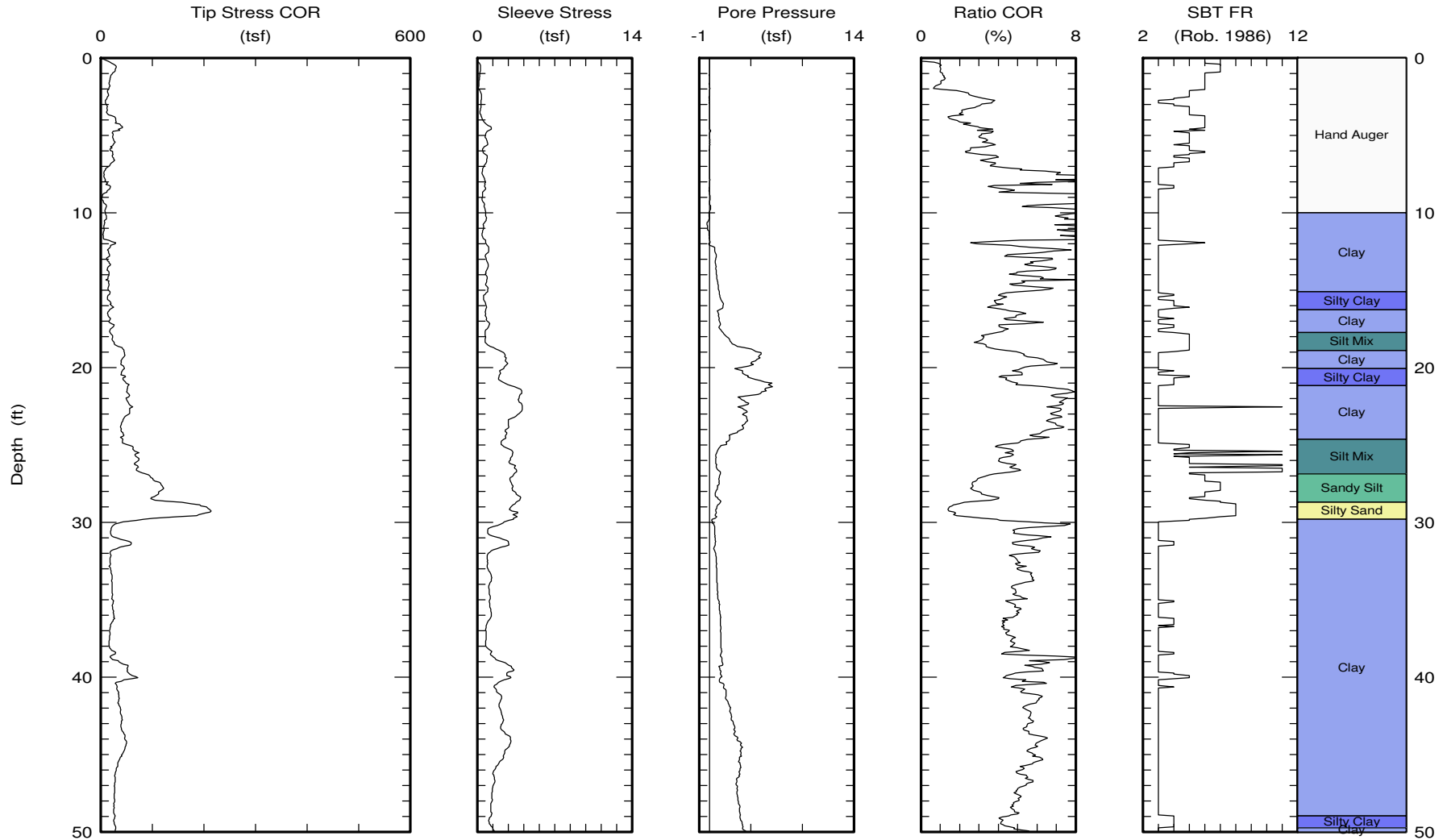


Kehoe Testing & Engineering
Office: (714) 901-7270
Fax: (714) 901-7289
rich@kehoetesting.com
www.kehoetesting.com

CPT Data
30 ton rig

Date: 26/Feb/2011
Test ID: C-120
Project: LosAngeles

Customer: MACTEC
Job Site: Beverly Hills High School



Maximum depth: 70.01 (ft)
Page 1 of 2

Figure A-4.26