



**Stantec Consulting
Inc.**

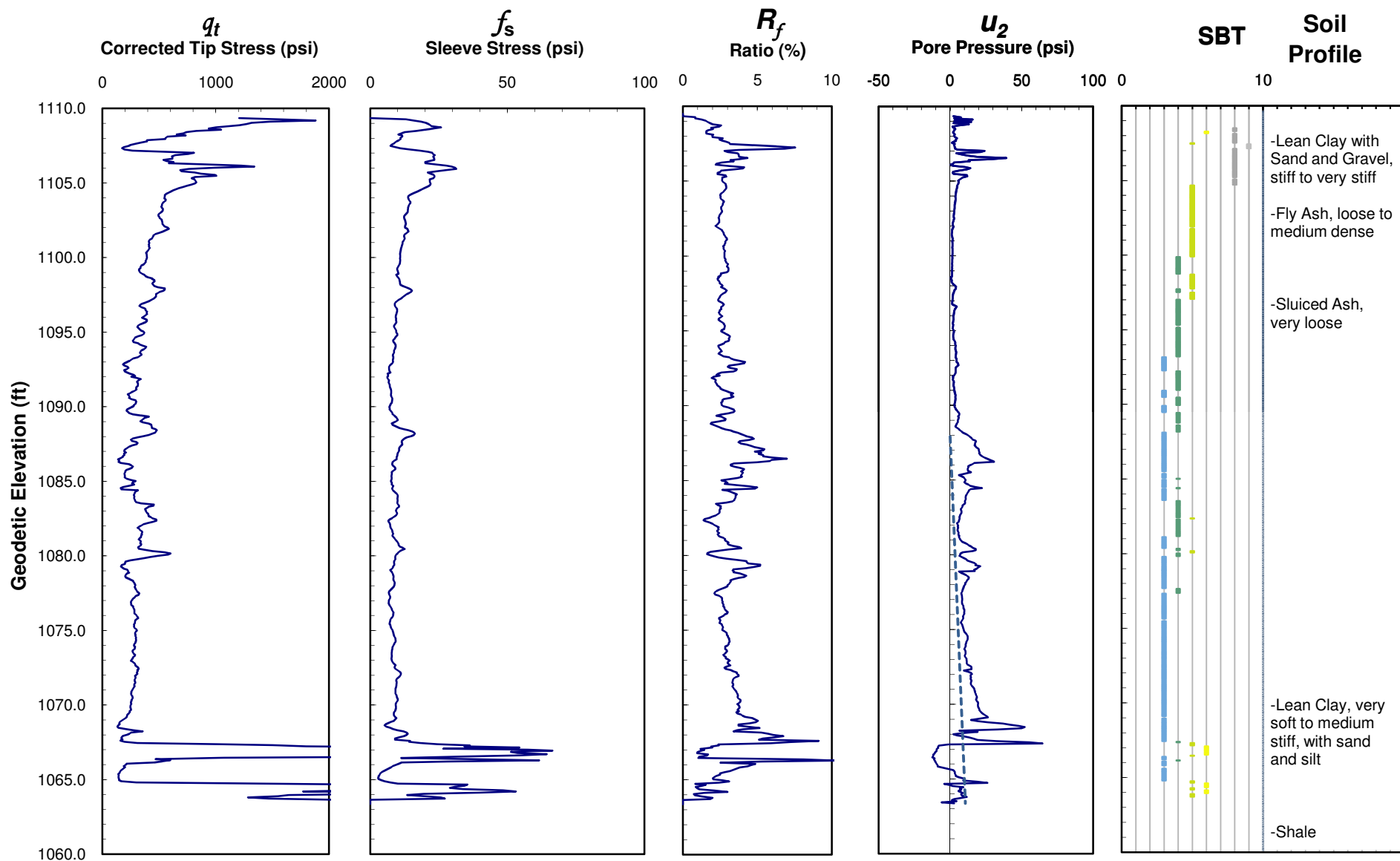
Stantec

Elevation: 1109.50 ft
 SCPTu Start Elevation: 1109.50 ft
 Groundwater Elevation: 1087.90 ft

Test Date: May 27, 2009
 Project No. 175569038

CPT1

Client: TVA
 Project: John Sevier Fossil Plant



Class Fr: Friction Ratio Classification (Robertson 1990)

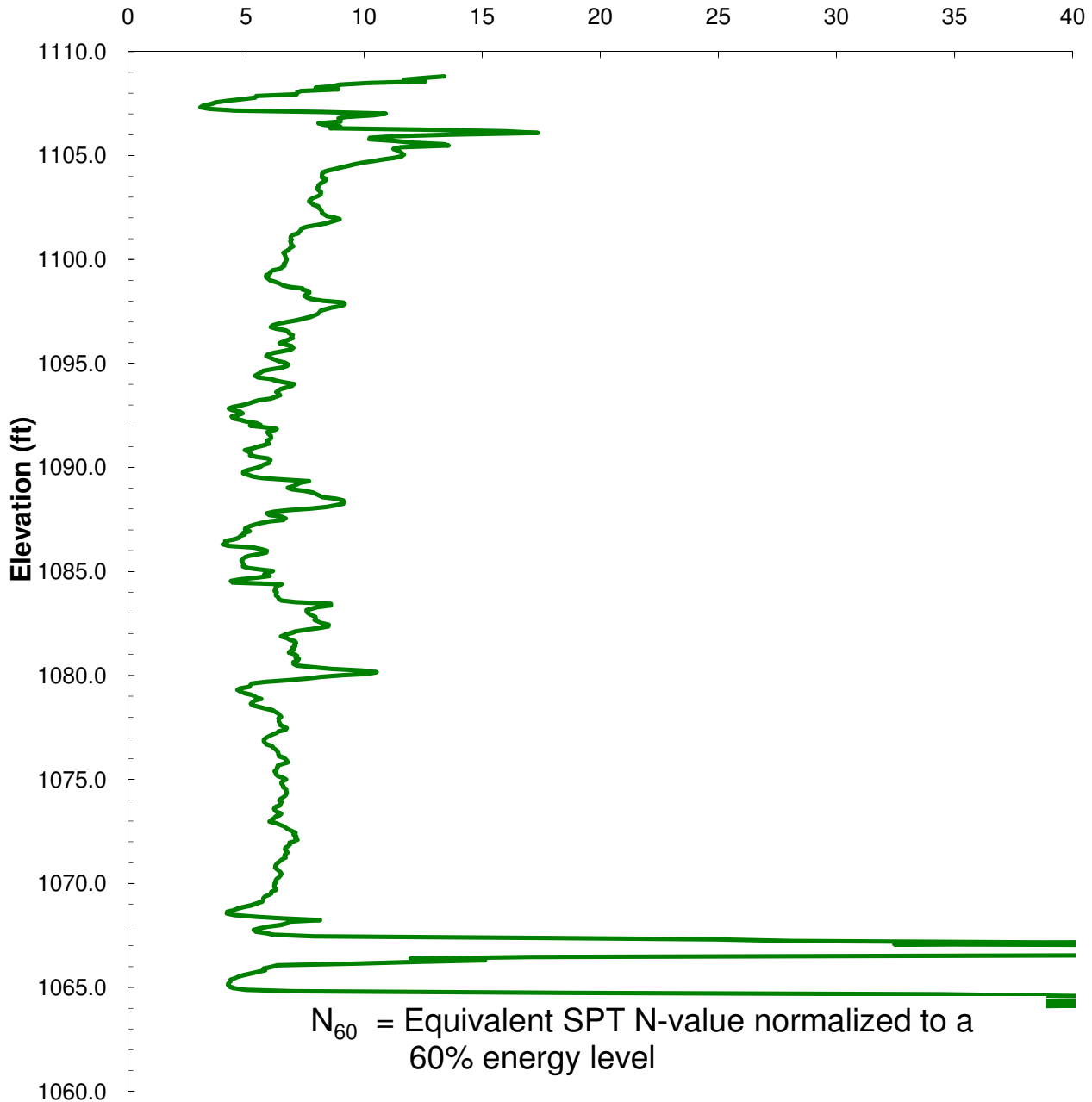


Stantec

SCPTu Results

SCPTu N_{60} Values

Equivalent SPT N_{60} Profile



The correlation from SCPTu data to equivalent SPT N_{60} values is based on the Jefferies and Davies (1993) approach.

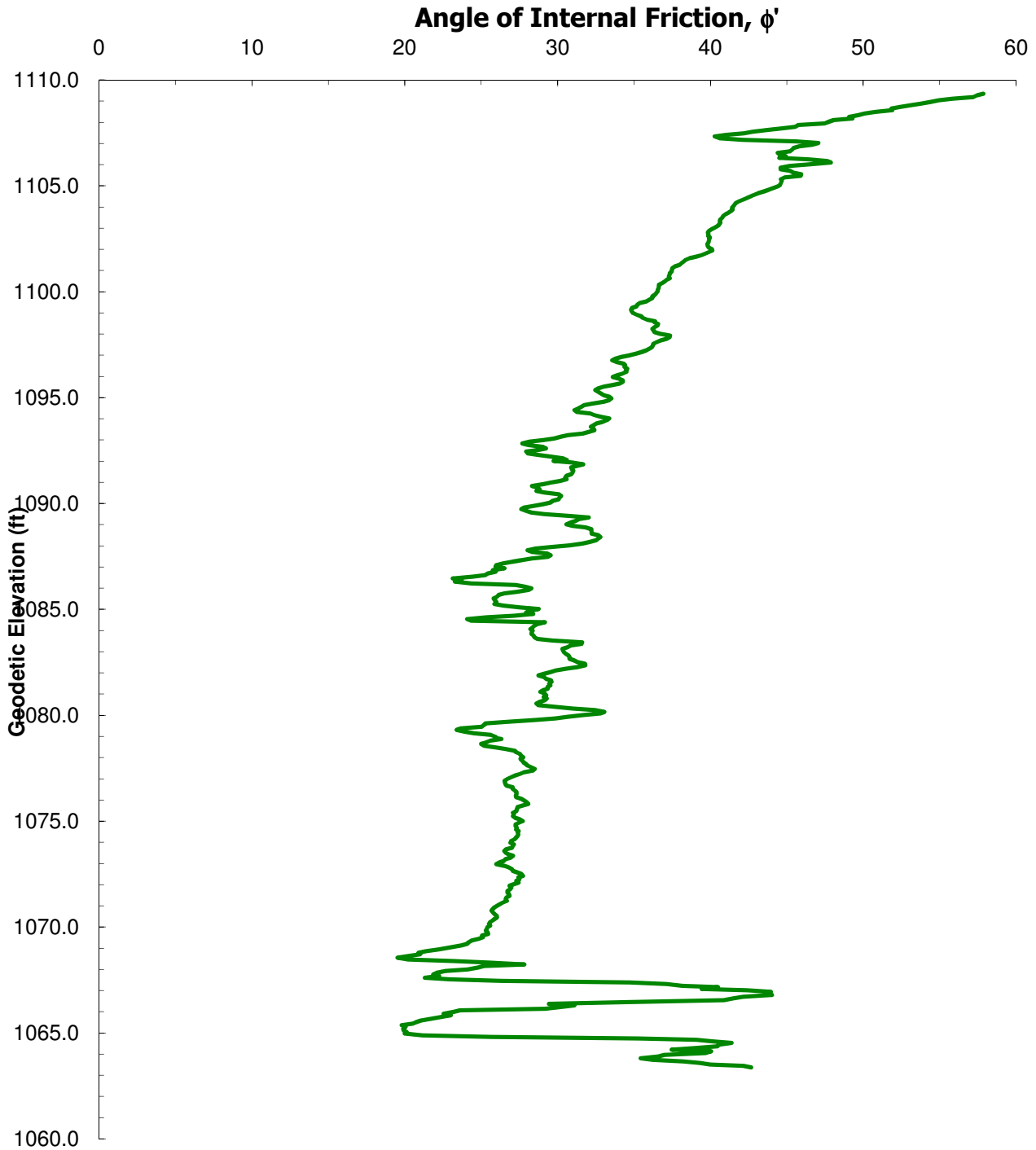
Project No. 175569038
CPT1



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SCPTu RESULTS

Effective Angle of Internal Friction



Project No. 175569038

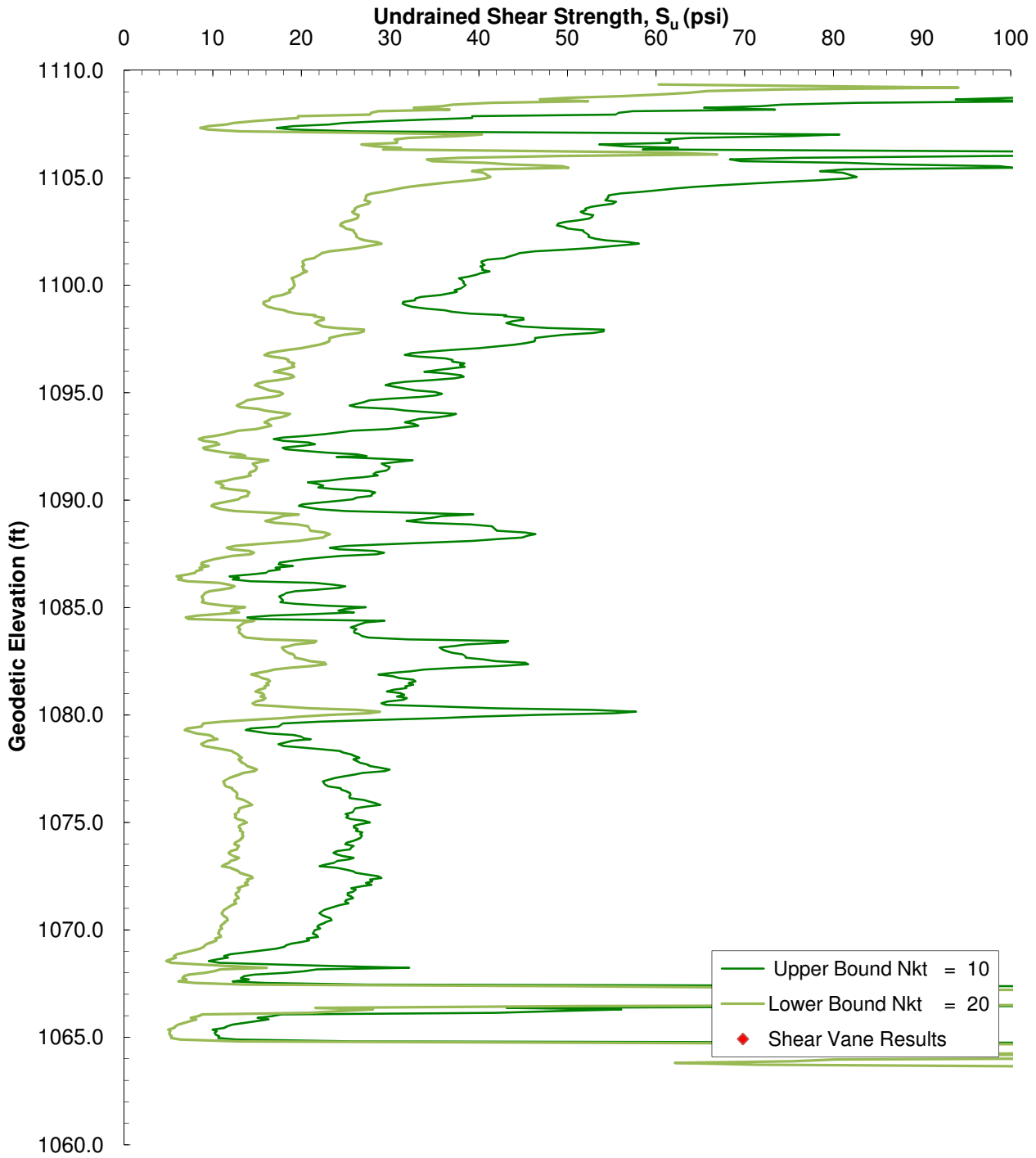
CPT1



Stantec

SCPT_u RESULTS

Undrained Shear Strength, S_u



Project No. 175569038

CPT1



Stantec Consulting Inc.

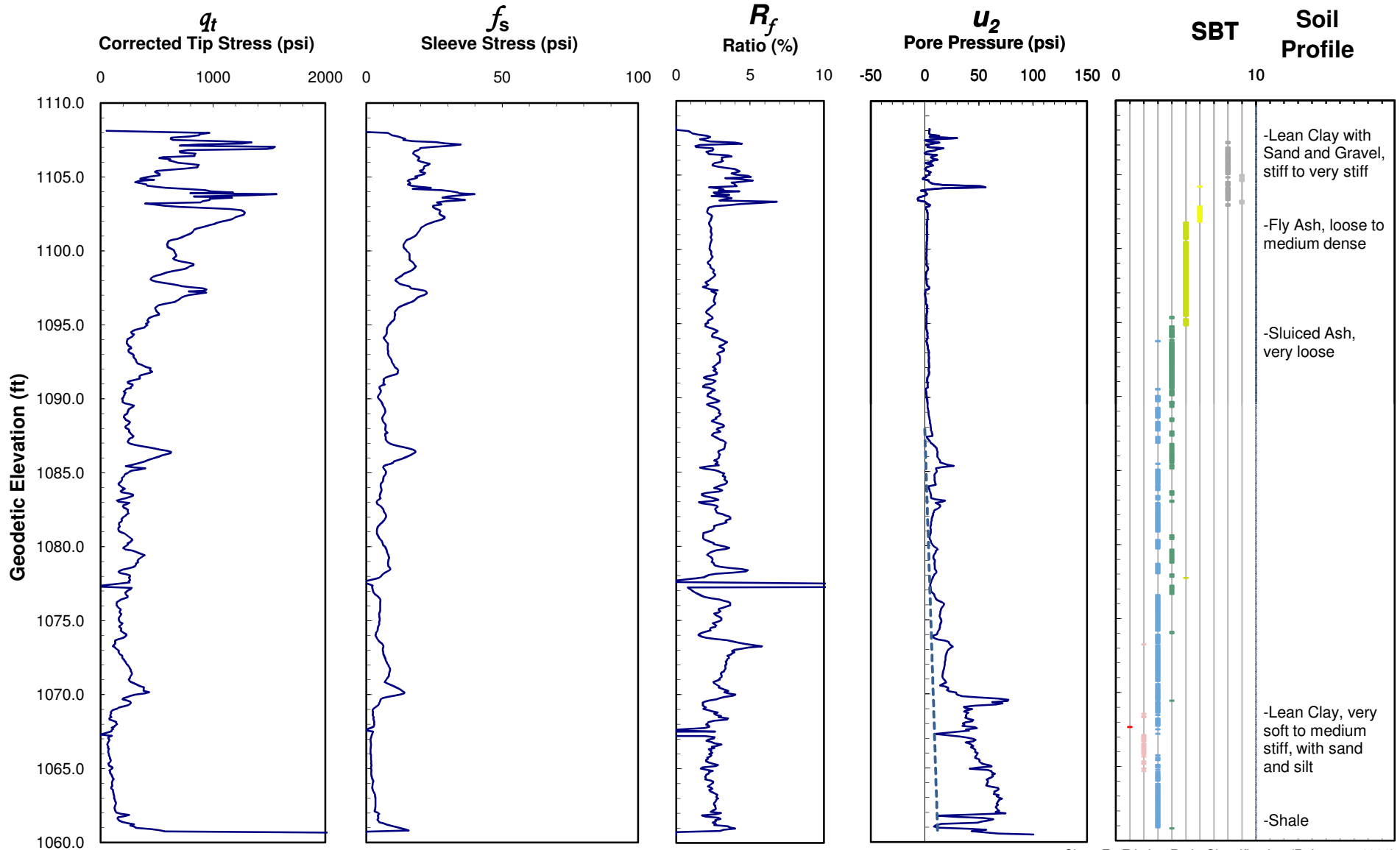
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Elevation: 1108.3 ft
 SCPTu Start Elevation: 1108.3 ft
 Groundwater Elevation: 1087.9 ft

Test Date: May 28, 2009
 Project No. 175569038

CPT2

Client: TVA
 Project: John Sevier Fossil Plant



Class Fr: Friction Ratio Classification (Robertson 1990)

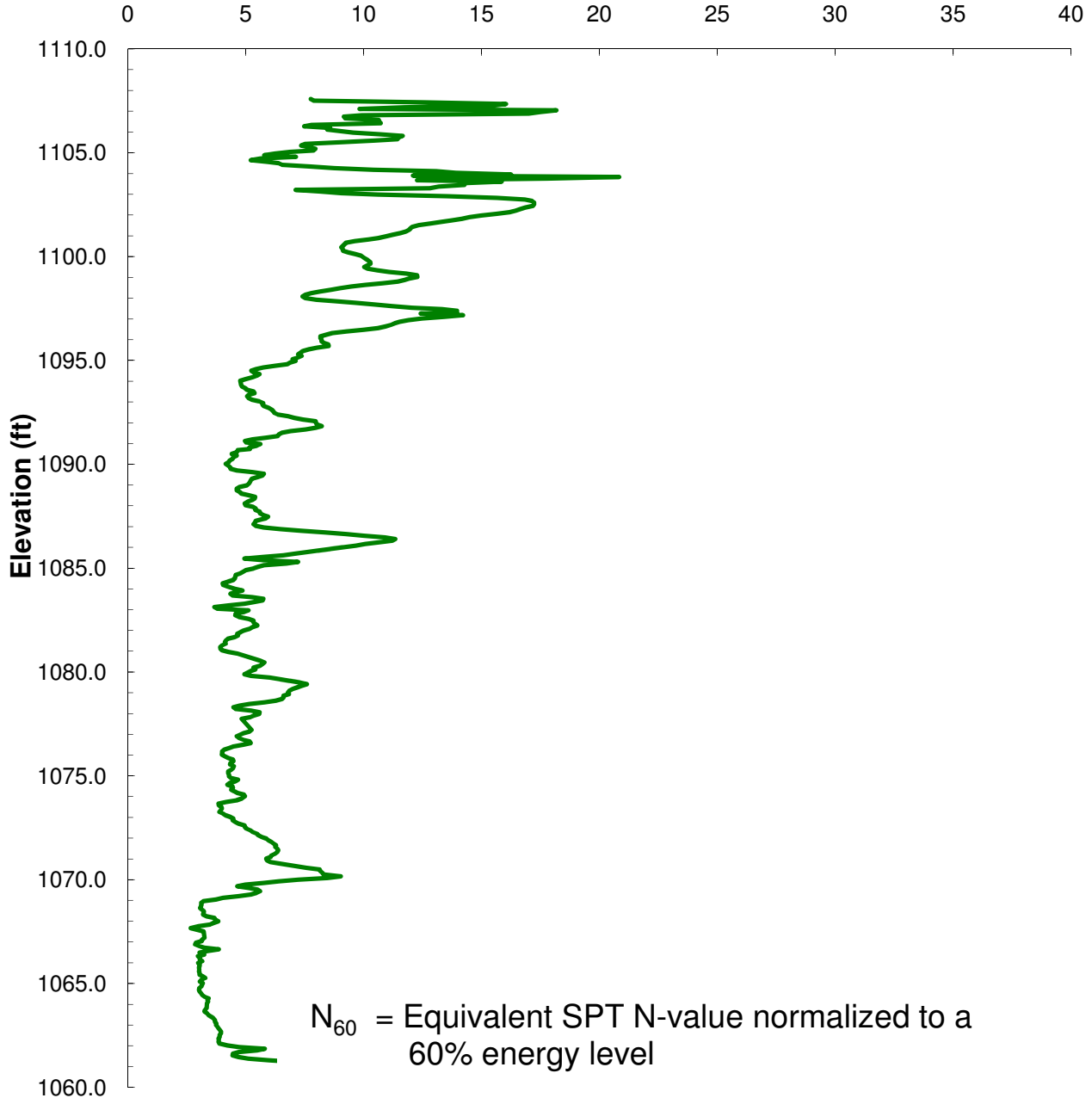


Stantec

SCPTu Results

SCPTu N_{60} Values

Equivalent SPT N_{60} Profile



The correlation from SCPTu data to equivalent SPT N_{60} values is based on the Jefferies and Davies (1993) approach.

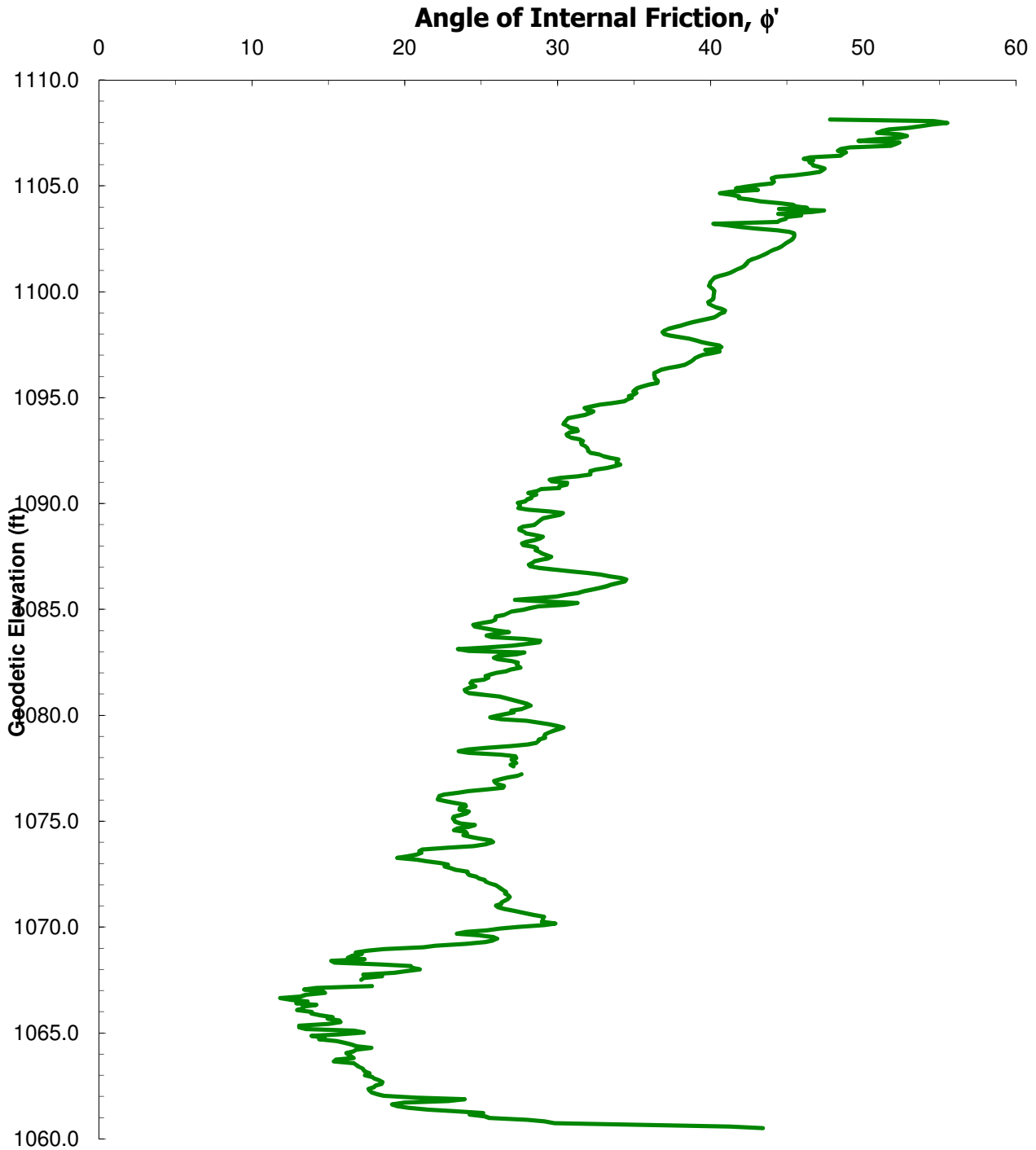
Project No. 175569038
CPT2



Stantec

SCPTu RESULTS

Effective Angle of Internal Friction



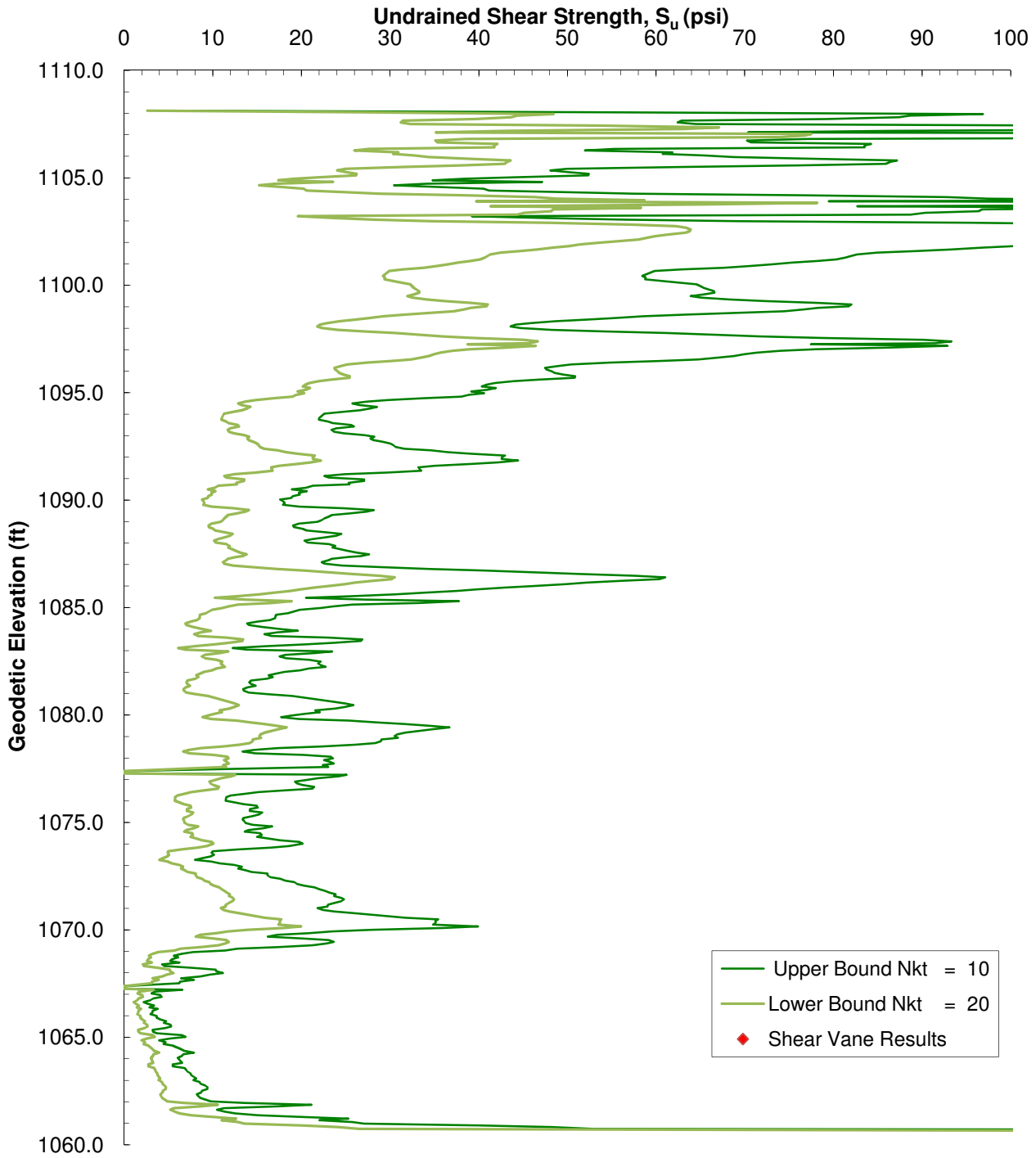
Project No. 175569038
CPT2



Stantec

SCPT_u RESULTS

Undrained Shear Strength, S_u



Project No. 175569038
CPT2

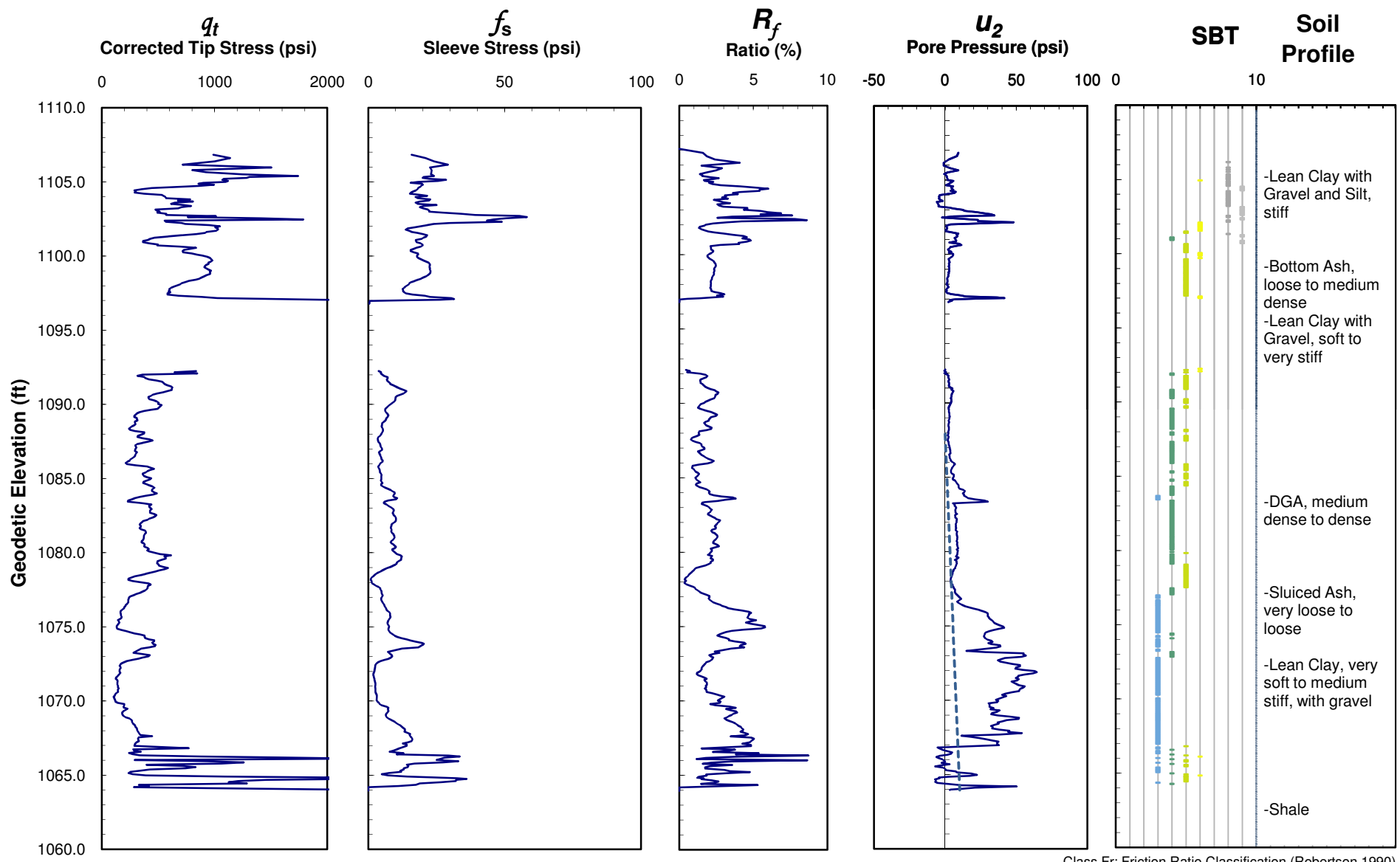


Stantec Consulting Inc.

Elevation: 1107.11 ft
 SCPTu Start Elevation: 1107.11 ft
 Groundwater Elevation: 1087.91 ft
 Client: TVA
 Project: John Sevier Fossil Plant

Test Date: May 27, 2009
 Project No. 175569038

CPT3



Class Fr: Friction Ratio Classification (Robertson 1990)

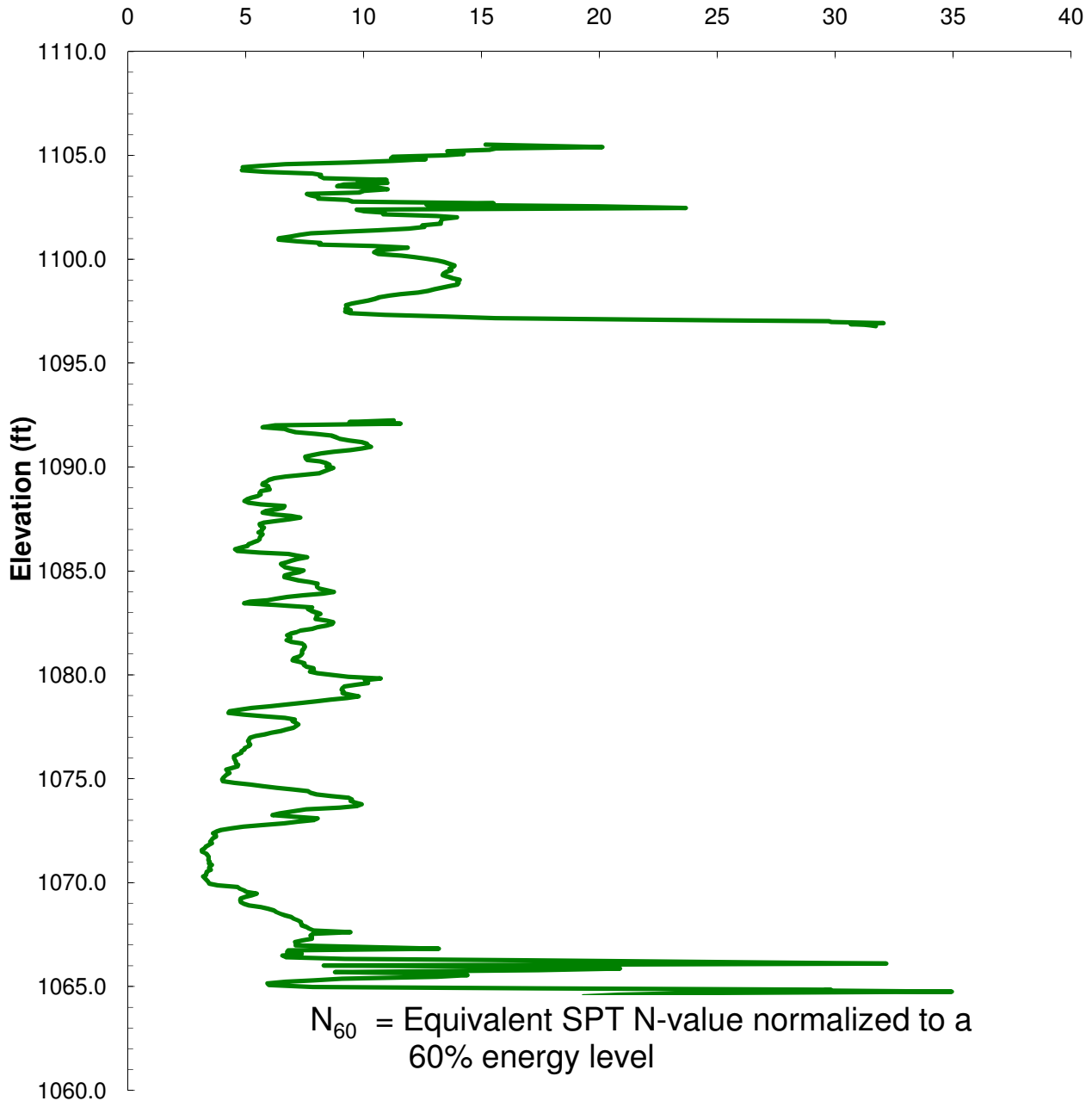


Stantec

SCPTu Results

SCPTu N_{60} Values

Equivalent SPT N_{60} Profile



The correlation from SCPTu data to equivalent SPT N_{60} values is based on the Jefferies and Davies (1993) approach.

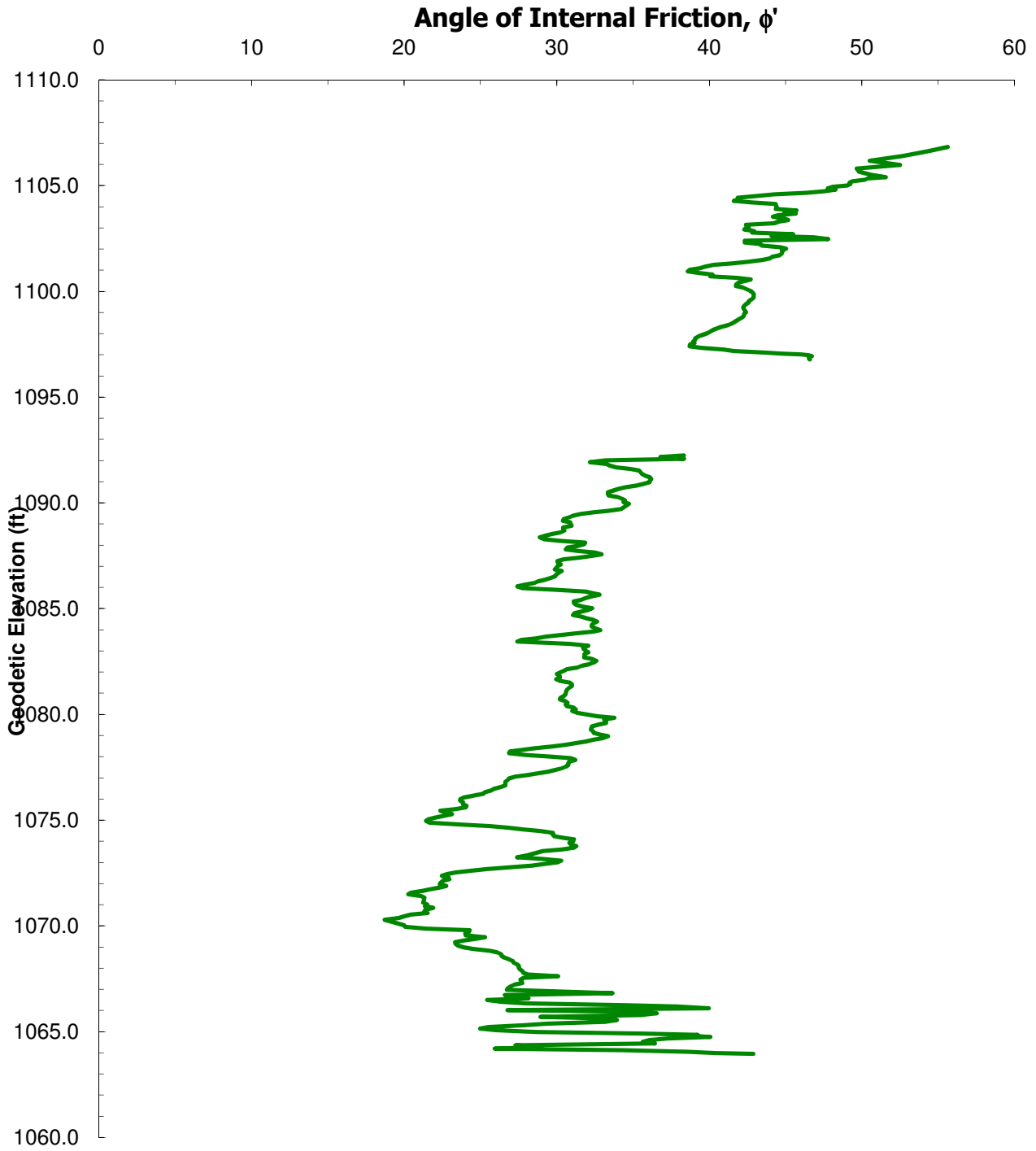
Project No. 175569038
CPT3



Stantec

SCPTu RESULTS

Effective Angle of Internal Friction



Project No. 175569038

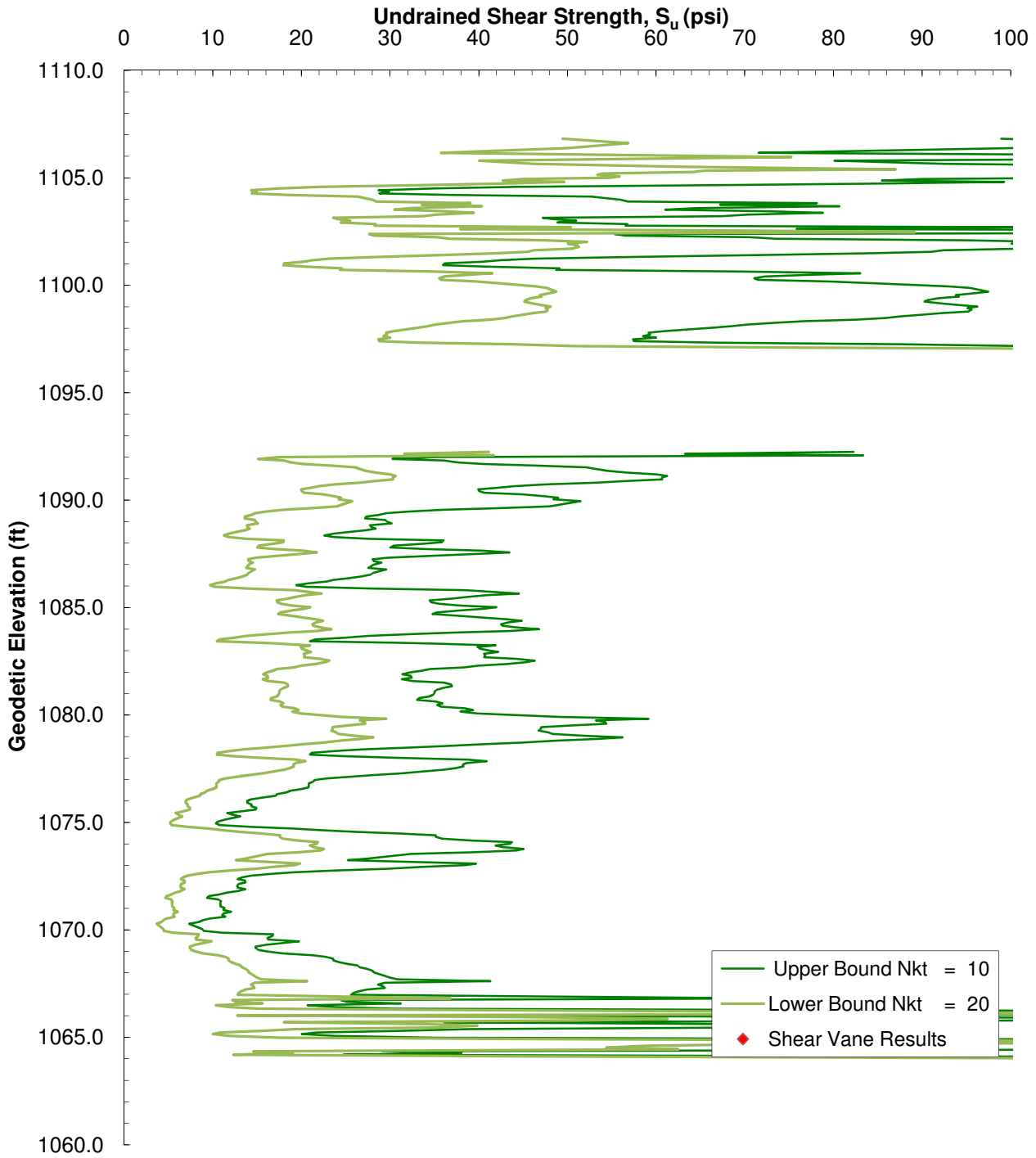
CPT3



Stantec

SCPT_u RESULTS

Undrained Shear Strength, S_u



Project No. 175569038
CPT3



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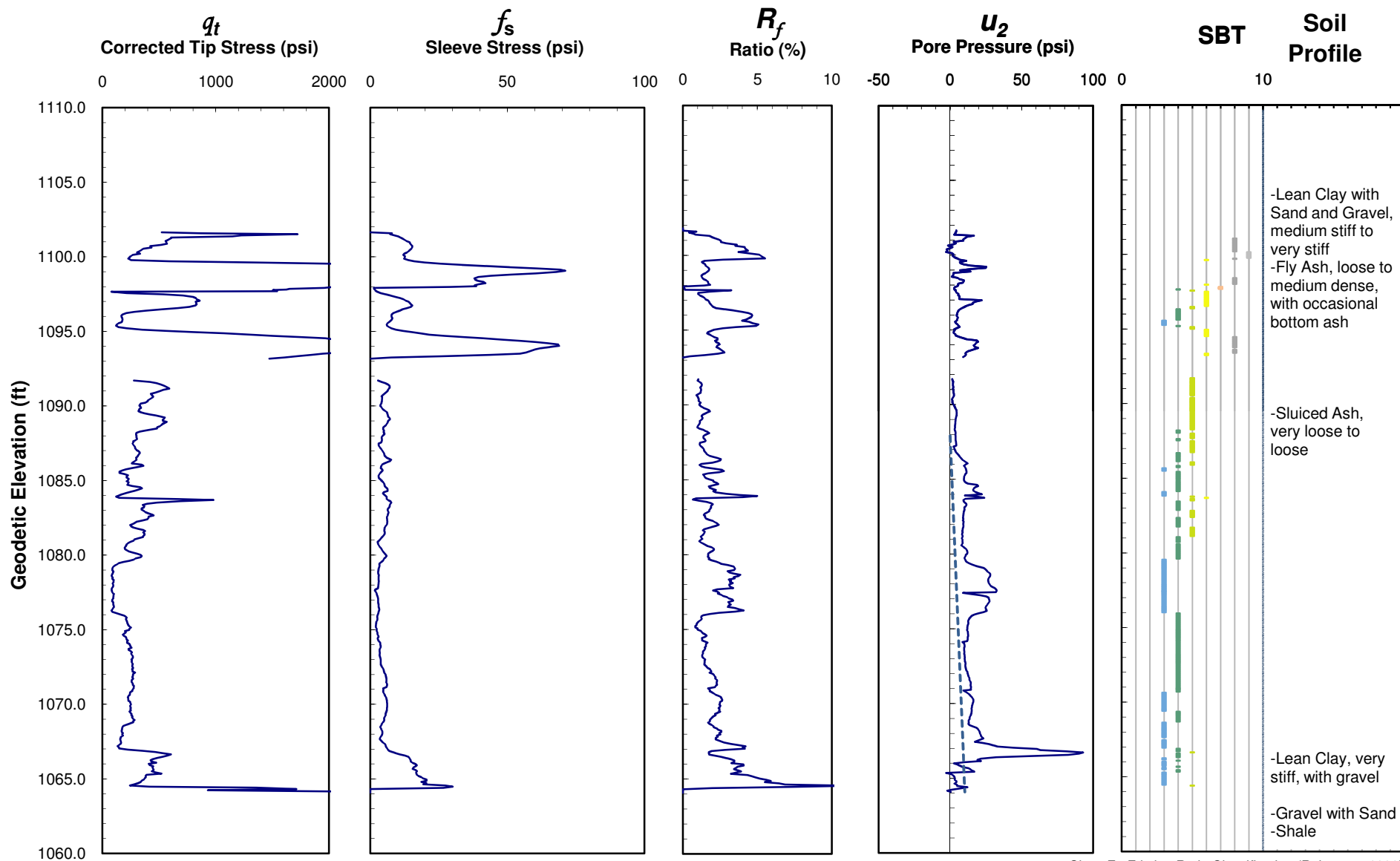
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Elevation: 1101.80 ft
SCPTu Start Elevation: 1101.80 ft
Groundwater Elevation: 1087.90 ft

Test Date: May 27, 2009
Project No. 175569038

CPT4

Client: TVA
Project: John Sevier Fossil Plant



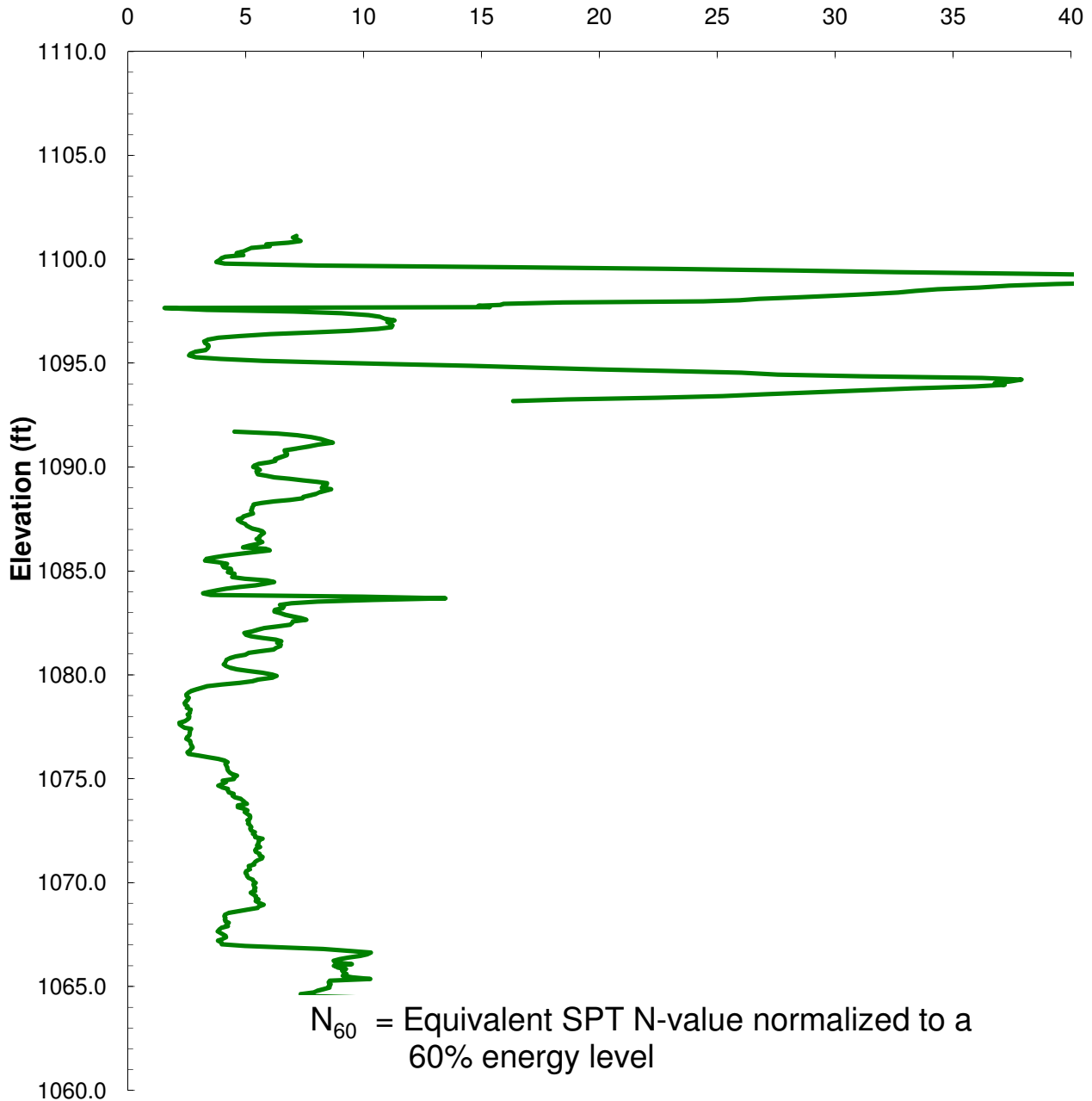
Class Fr: Friction Ratio Classification (Robertson 1990)



SCPTu Results

SCPTu N_{60} Values

Equivalent SPT N_{60} Profile



The correlation from SCPTu data to equivalent SPT N_{60} values is based on the Jefferies and Davies (1993) approach.

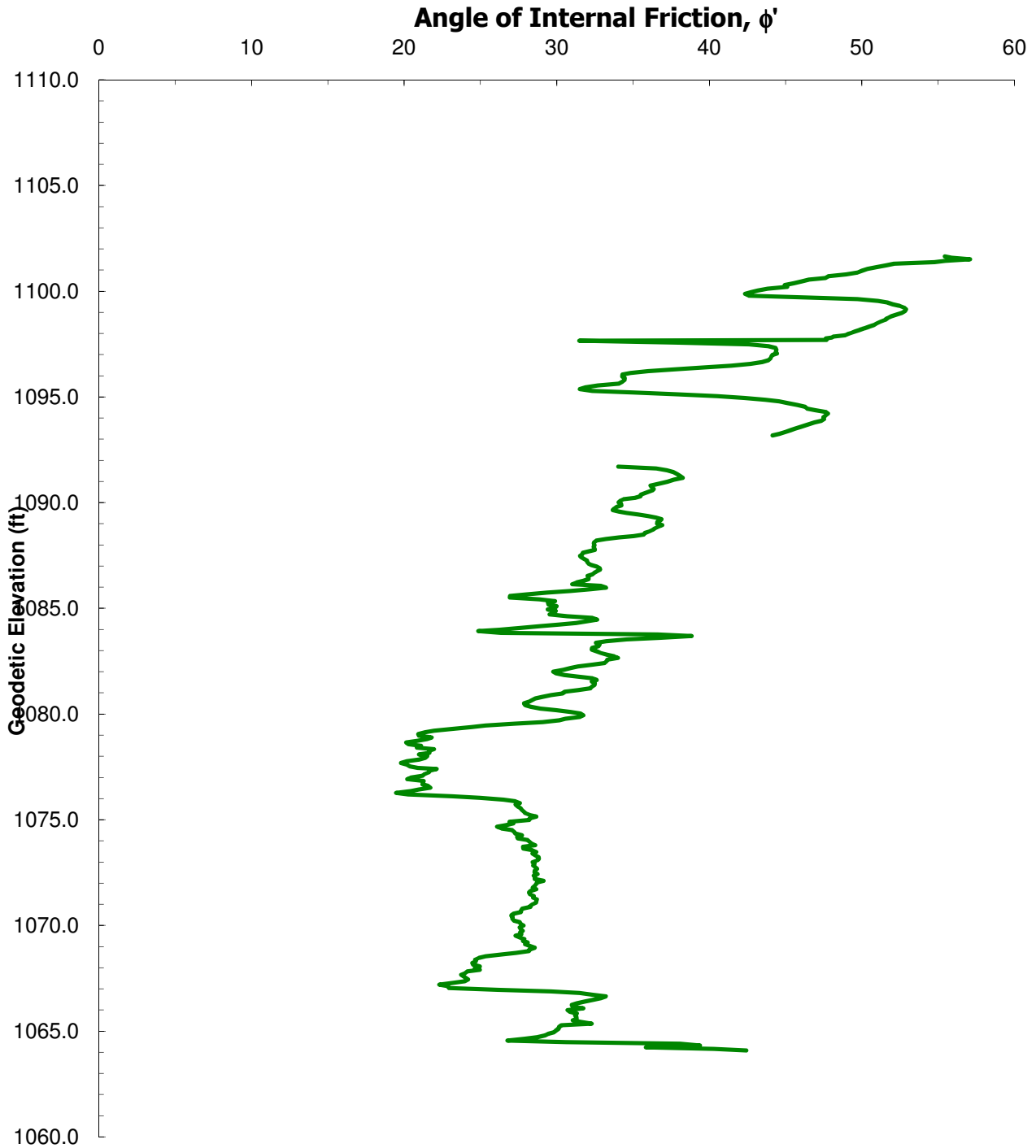
Project No. 175569038
CPT4



Stantec

SCPTu RESULTS

Effective Angle of Internal Friction



Project No. 175569038

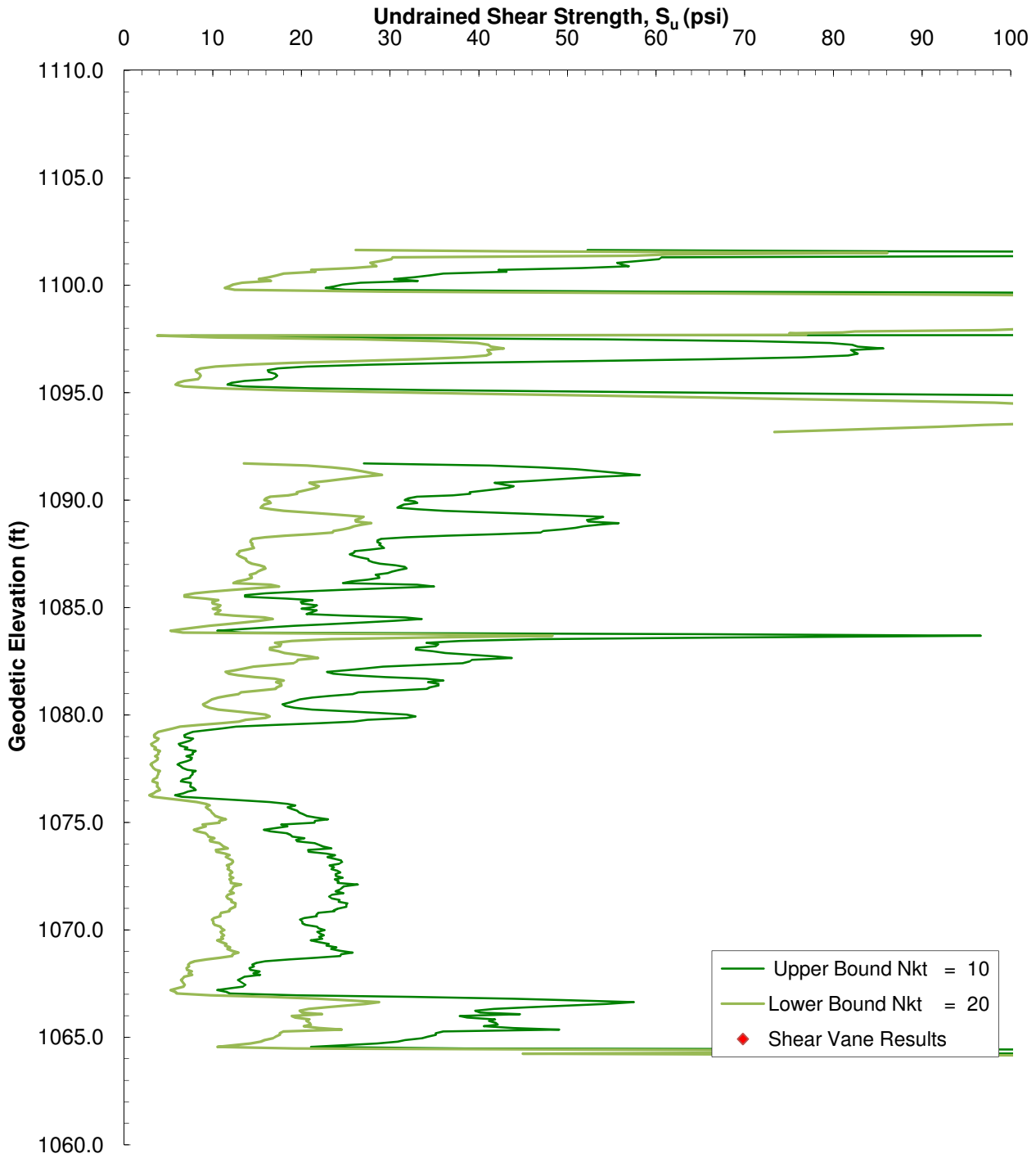
CPT4



Stantec

SCPT_u RESULTS

Undrained Shear Strength, S_u



Project No. 175569038

CPT4



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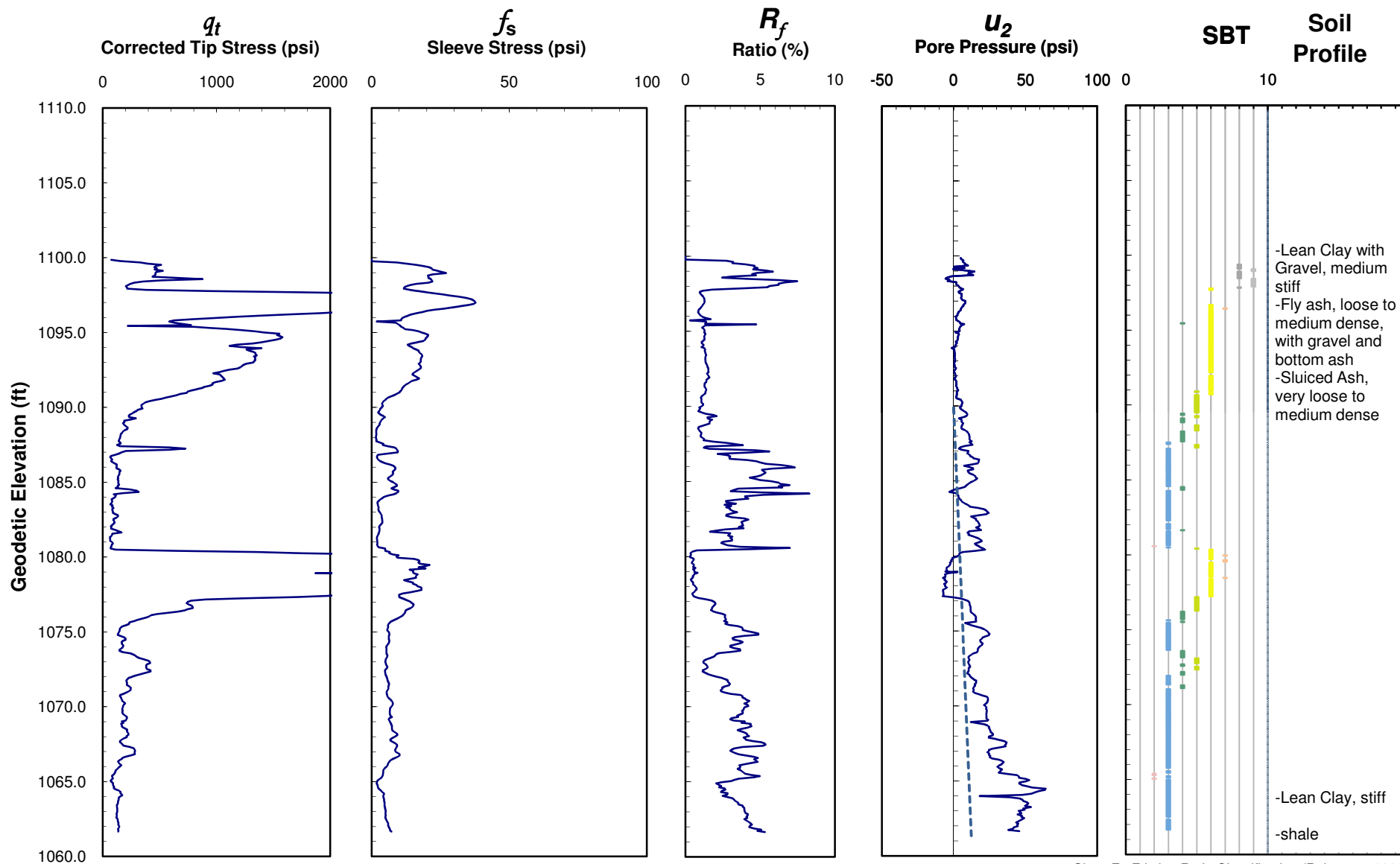
Stantec

Elevation: 1099.97 ft
SCPTu Start Elevation: 1099.97 ft
Groundwater Elevation: 1089.87 ft

Test Date: May 28, 2009
Project No. 175569038

CPT5

Client: TVA
Project: John Sevier Fossil Plant



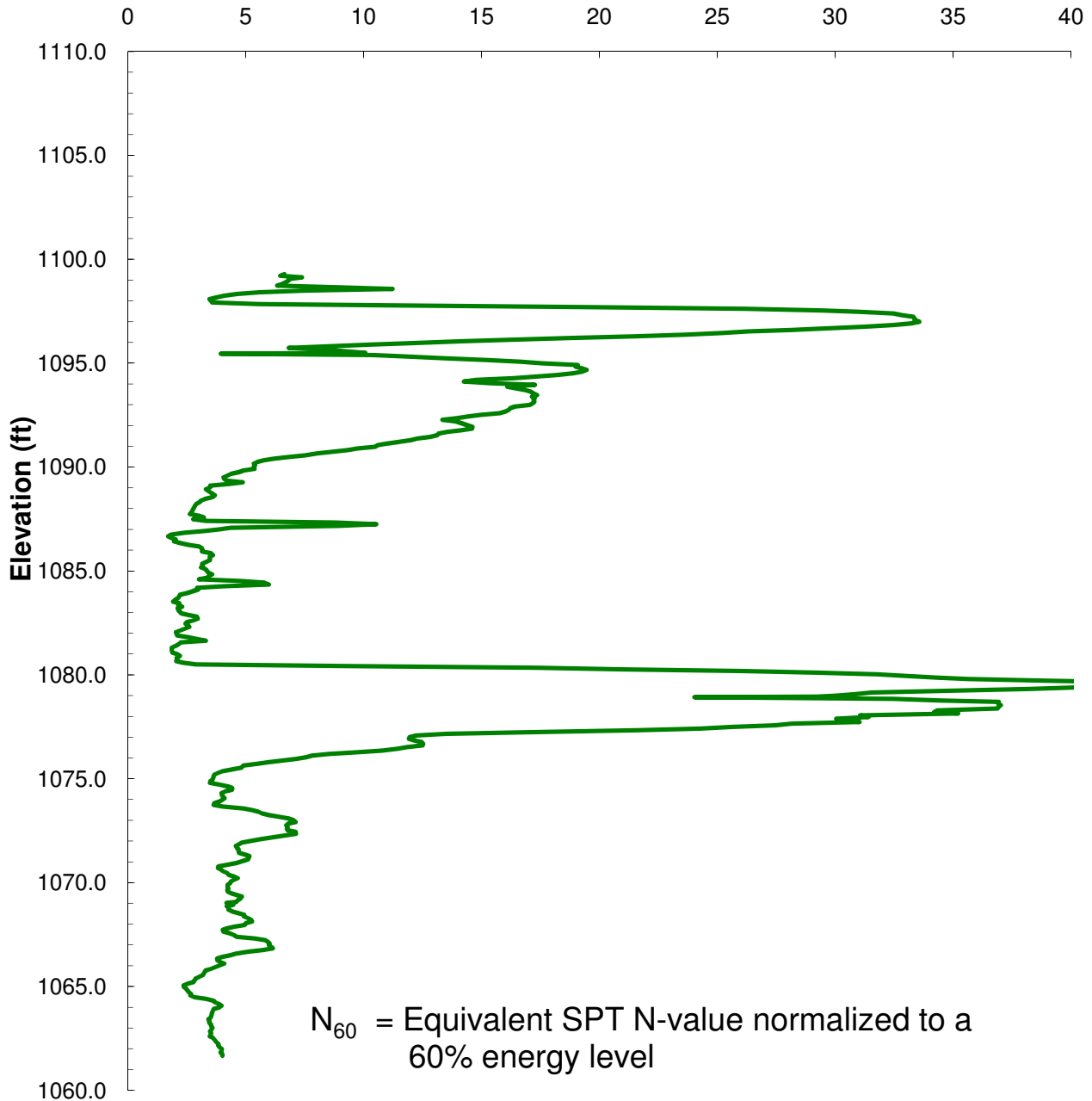
Class Fr: Friction Ratio Classification (Robertson 1990)



SCPTu Results

SCPTu N_{60} Values

Equivalent SPT N_{60} Profile



The correlation from SCPTu data to equivalent SPT N_{60} values is based on the Jefferies and Davies (1993) approach.

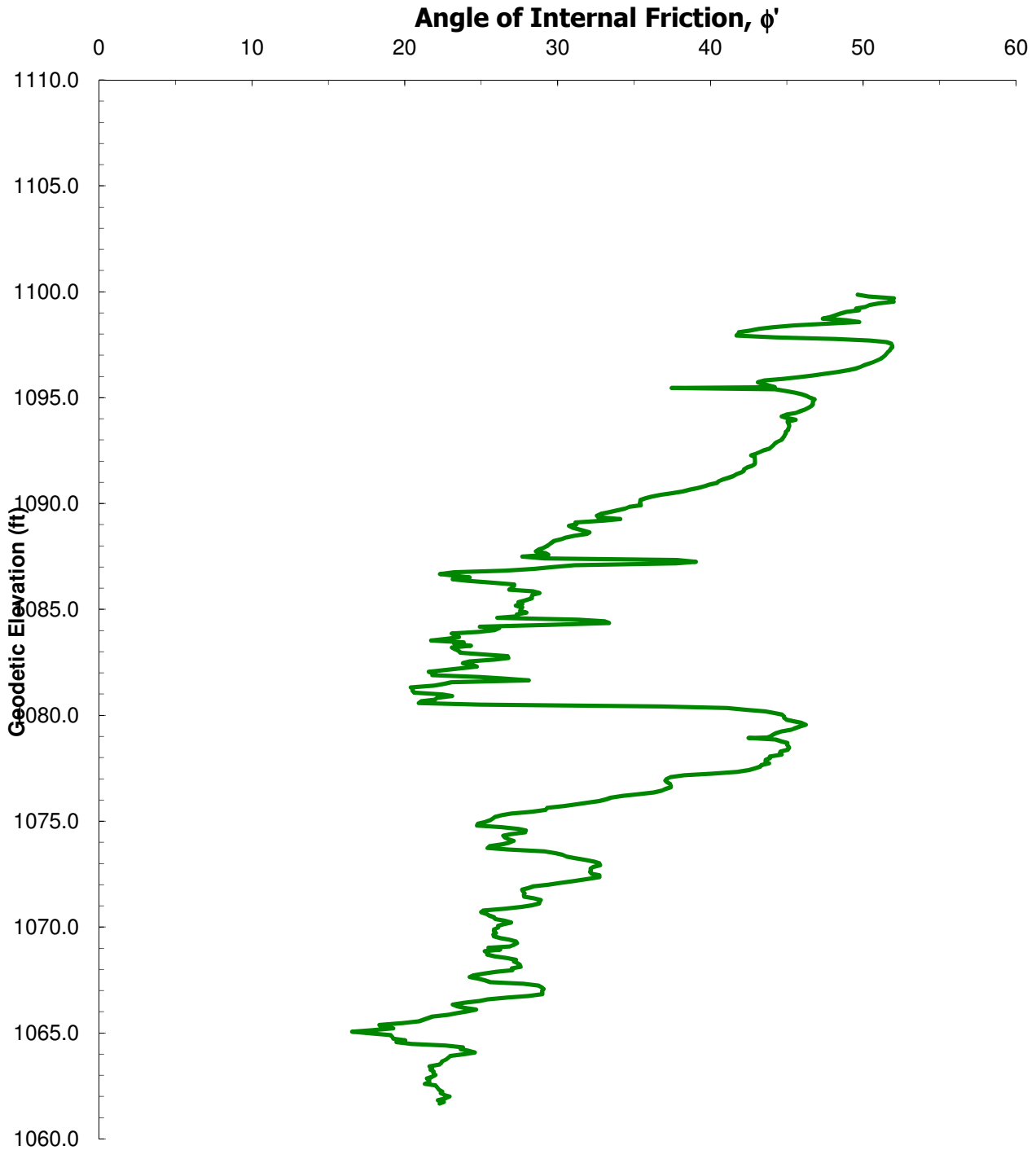
Project No. 175569038
CPT5



Stantec

SCPTu RESULTS

Effective Angle of Internal Friction



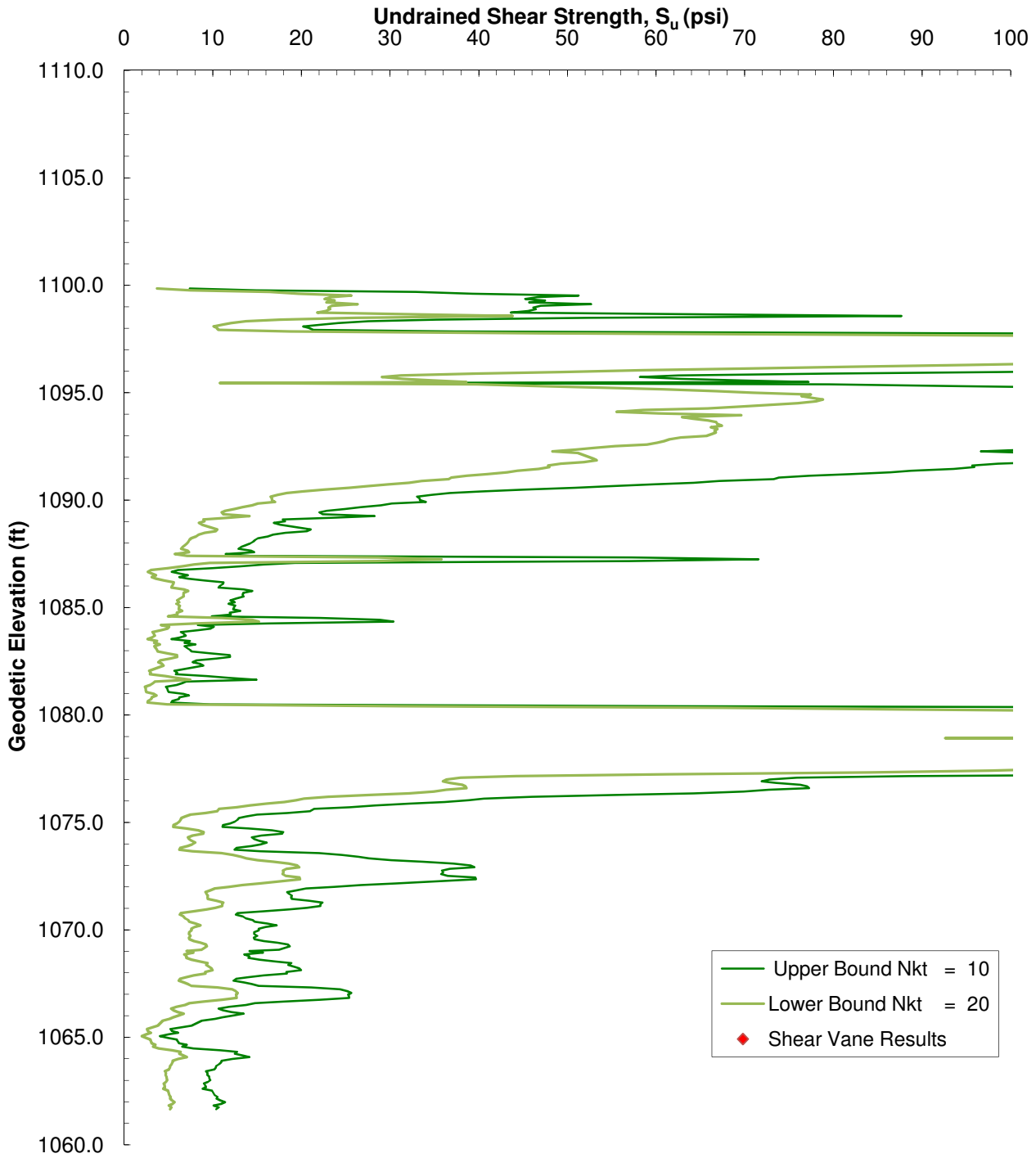
Project No. 175569038
CPT5



Stantec

SCPT_u RESULTS

Undrained Shear Strength, S_u



Project No. 175569038
CPT5

John Sevier Vane Shear Testing

	Vane Size	
	Small	Med
T=Maximum value of measured torque (in-lbs)		
D=Vane diameter (in)=	2.031	2.492
H=Height of vane (in)=	3.520	4.535
iT=Angle of taper at vane top=	45	45
iB=Angle of taper at vane bottom=	45	45
USS=Undrained shear strength		

Boring	Depth	T	Residual	Vane	USS (PSI)	USS (TSF)	Residual		Sensitivity
							PSI	TSF	
JS-45	19	475	130	S	16.373	1.179	4.481	0.323	3.654
JS-45	25	60	40	S	2.068	0.149	1.379	0.099	1.500
JS-45	30	225	125	S	7.756	0.558	4.309	0.310	1.800
JS-36	19	340	10	M	6.104	0.440	0.180	0.013	34.000
JS-36	29.1	480	73	M	8.618	0.620	1.311	0.094	6.575
JS-36	40.6	620	210	M	11.132	0.801	3.770	0.271	2.952
JS-36A	28.5	380	125	S	13.098	0.943	4.309	0.310	3.040
JS-36A	35	520	110	S	17.924	1.291	3.792	0.273	4.727
JS-36A	40	450	110	S	15.511	1.117	3.792	0.273	4.091
JS-37	18.5	420	50	M	7.541	0.543	0.898	0.065	8.400
JS-37	25	390	50	M	7.002	0.504	0.898	0.065	7.800
JS-37	34	>600		M					

