APPENDIX B

Cone Penetration Test Data

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-061	2-15-00	CPT-1
File	Date	Boring Number
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369 TC	11-068001	11 IMP 7 1.9/16
Cone I.D.	Job Number	DIST - CO - RTE - P.M

3 Channel or 4 Channel or 5 Channel

25.46 ~~Feet~~ m (Right) or Left I-8 ℄ Line Station 780+04

Surface Elevation: 5.333 m

Required Depth: ~~68~~ 70

Depth of Sounding: 71.19

Depth to Ground Water: dry

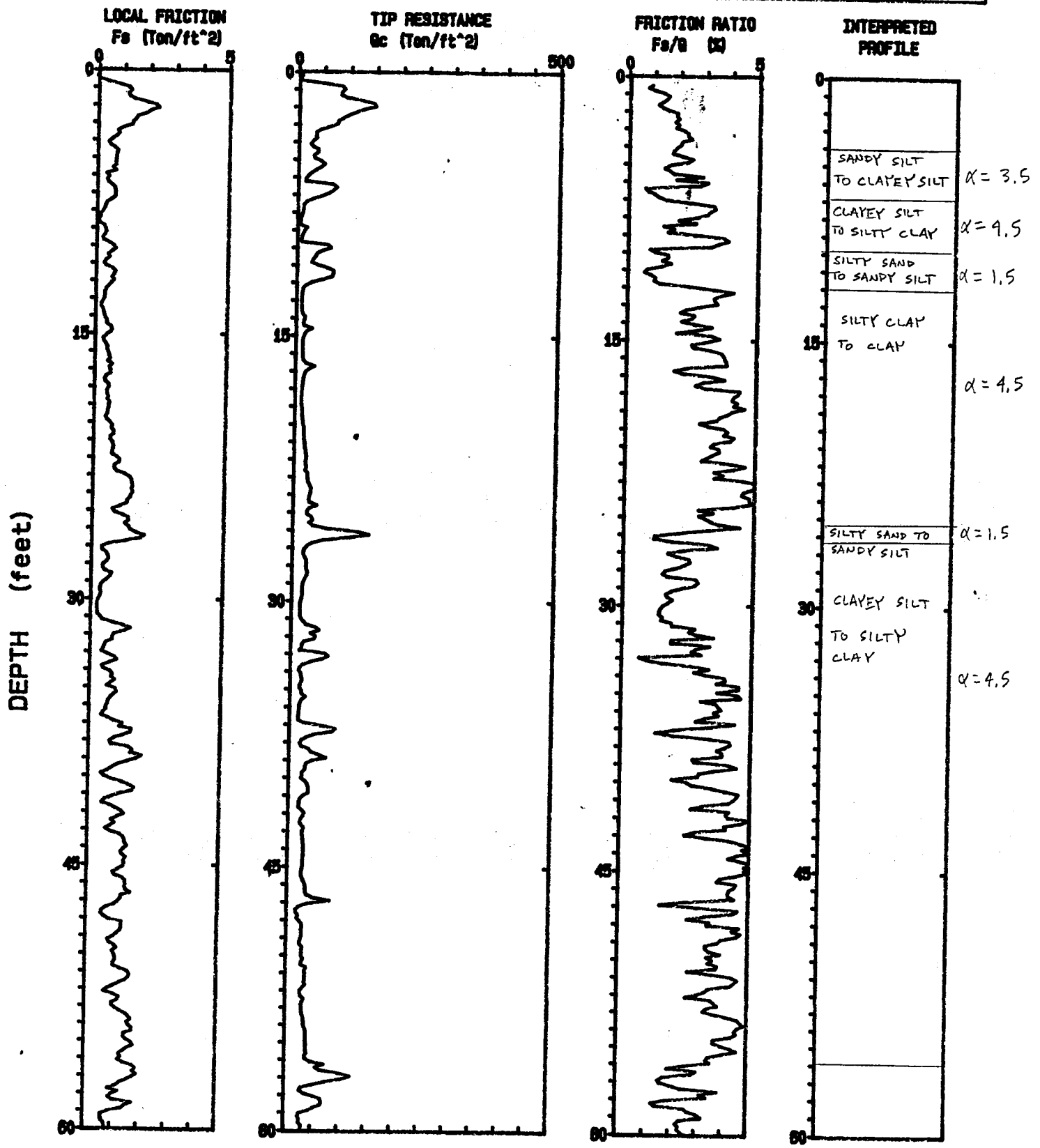
Depth to Caving: 3.5 dry

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-061 Pg 1 / 2
Cone Used : 369 TC

CPT Date : 02-15-00 07:45
Location : CPT-1
Job No. : 11-088001



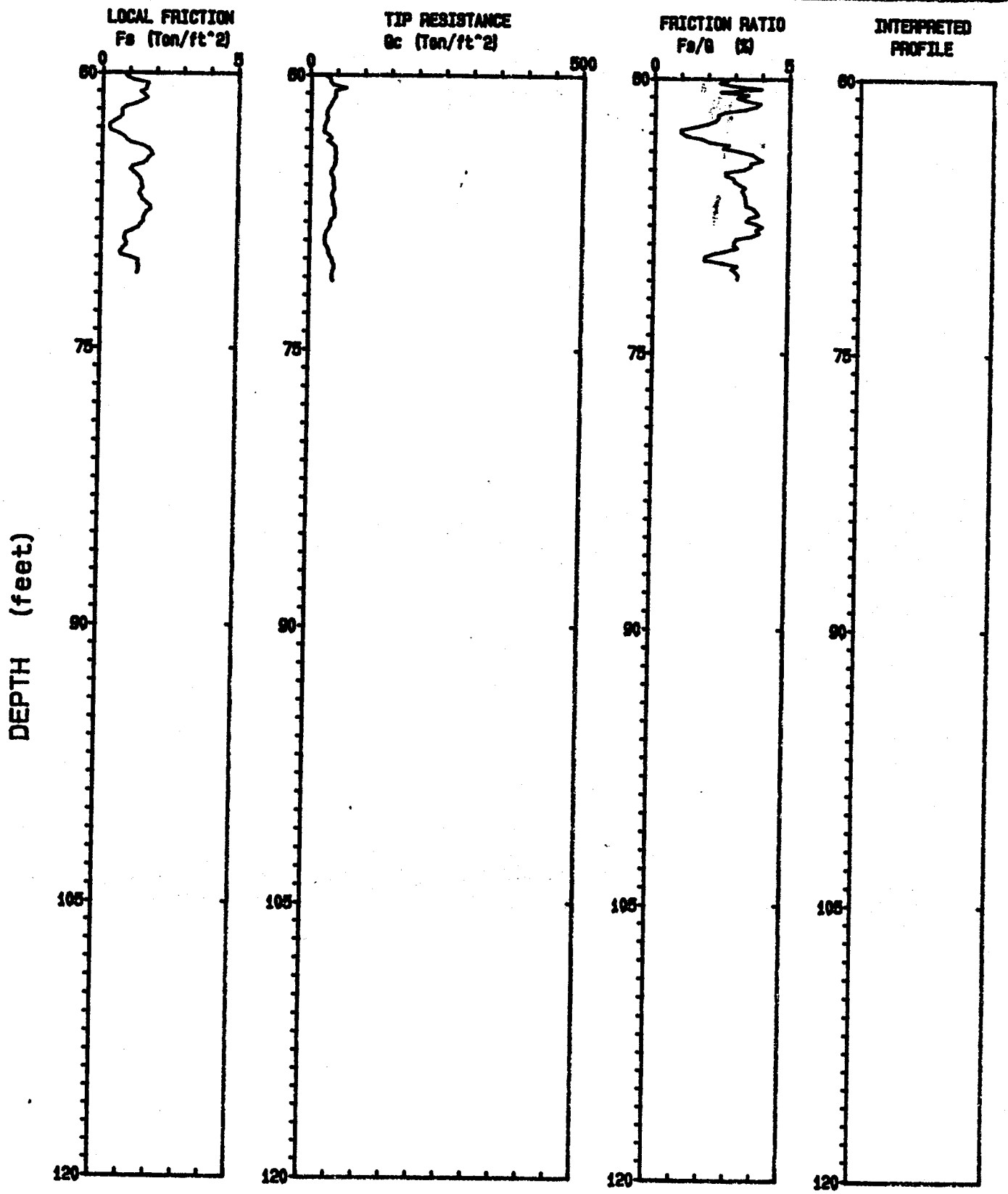
Depth Increment : .05 m

Max Depth : 71.19 ft

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-061 Pg 2 / 2
Cone Used : 369 TC

CPT Date : 02-15-00 07:45
Location : CPT-1
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 71.19 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-1
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-15-00 07:45
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	29.33	0.22	0.74	0.02	silty sand to sandy silt	80-90	>48	9	UNDEFINED
0.50	1.64	93.26	1.23	1.32	0.07	sand to silty sand	>90	>48	22	UNDEFINED
0.75	2.46	123.38	2.03	1.64	0.12	sand to silty sand	>90	>48	30	UNDEFINED
1.00	3.28	65.65	1.27	1.94	0.17	silty sand to sandy silt	70-80	46-48	21	UNDEFINED
1.25	4.10	28.99	0.62	2.13	0.22	sandy silt to clayey silt	UNDFND	UNDFD	11	2.8
1.50	4.92	31.80	0.64	2.03	0.27	sandy silt to clayey silt	UNDFND	UNDFD	12	3.1
1.75	5.74	38.46 35.9	0.65	1.70	0.32	sandy silt to clayey silt	UNDFND	UNDFD	15	3.6
2.00	6.56	36.93	0.41	1.10	0.37	silty sand to sandy silt	50-60	40-42	12	UNDEFINED
2.25	7.38	43.34	0.64	1.48	0.42	silty sand to sandy silt	50-60	40-42	14	UNDEFINED
2.50	8.20	8.29	0.24	2.91	0.47	silty clay to clay	UNDFND	UNDFD	5	.7
2.75	9.02	8.56 11.6	0.16	1.92	0.52	clayey silt to silty clay	UNDFND	UNDFD	4	.8
3.00	9.84	18.09	0.32	1.76	0.57	sandy silt to clayey silt	UNDFND	UNDFD	7	1.7
3.25	10.66	42.43	0.57	1.35	0.62	silty sand to sandy silt	40-50	38-40	14	UNDEFINED
3.50	11.48	52.88 43.3	0.46	0.88	0.66	silty sand to sandy silt	50-60	40-42	17	UNDEFINED
3.75	12.30	34.56	0.59	1.72	0.71	sandy silt to clayey silt	UNDFND	UNDFD	13	3.3
4.00	13.12	9.35	0.31	3.33	0.76	clay	UNDFND	UNDFD	9	.8
4.25	13.94	11.40	0.26	2.28	0.81	clayey silt to silty clay	UNDFND	UNDFD	5	1.0
4.50	14.76	18.70	0.49	2.61	0.86	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
4.75	15.58	13.19	0.40	3.03	0.91	silty clay to clay	UNDFND	UNDFD	8	1.2
5.00	16.40	13.60	0.52	3.81	0.96	silty clay to clay	UNDFND	UNDFD	9	1.2
5.25	17.22	23.35 19.2	0.58	2.50	1.01	clayey silt to silty clay	UNDFND	UNDFD	11	2.2
5.50	18.04	13.24	0.45	3.43	1.06	silty clay to clay	UNDFND	UNDFD	8	1.2
5.75	18.86	11.92	0.51	4.26	1.11	clay	UNDFND	UNDFD	11	1.0
6.00	19.69	13.94	0.50	3.56	1.16	silty clay to clay	UNDFND	UNDFD	9	1.2
6.25	20.51	17.02	0.65	3.80	1.21	silty clay to clay	UNDFND	UNDFD	11	1.5
6.50	21.33	19.35	0.69	3.59	1.25	silty clay to clay	UNDFND	UNDFD	12	1.8
6.75	22.15	22.36	0.80	3.60	1.30	silty clay to clay	UNDFND	UNDFD	14	2.1
7.00	22.97	24.17	0.94	3.89	1.35	silty clay to clay	UNDFND	UNDFD	15	2.2
7.25	23.79	30.41	1.48	4.85	1.40	clay	UNDFND	UNDFD	29	2.9
7.50	24.61	33.42	1.40	4.18	1.45	silty clay to clay	UNDFND	UNDFD	21	3.1
7.75	25.43	30.99	1.03	3.31	1.50	clayey silt to silty clay	UNDFND	UNDFD	15	2.9
8.00	26.25	81.30 65.4	1.42	1.75	1.55	silty sand to sandy silt	50-60	36-38	26	UNDEFINED
8.25	27.07	49.41	1.22	2.46	1.60	sandy silt to clayey silt	UNDFND	UNDFD	19	4.7
8.50	27.89	23.77	0.55	2.32	1.65	sandy silt to clayey silt	UNDFND	UNDFD	9	2.2
8.75	28.71	26.86	0.56	2.08	1.70	sandy silt to clayey silt	UNDFND	UNDFD	10	2.5
9.00	29.53	19.66 30.4	0.41	2.06	1.75	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
9.25	30.35	16.56	0.27	1.61	1.80	sandy silt to clayey silt	UNDFND	UNDFD	6	1.4
9.50	31.17	17.72	0.30	1.67	1.85	sandy silt to clayey silt	UNDFND	UNDFD	7	1.5

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-1 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	42.41	1.14	2.69	1.89	sandy silt to clayey silt	UNDFND	UNDFD	16	4.
10.00	32.81	24.47	0.64	2.61	1.94	clayey silt to silty clay	UNDFND	UNDFD	12	2.
10.25	33.63	51.00	0.75	1.46	1.99	silty sand to sandy silt	(40	32-34	16	UNDEFINE
10.50	34.45	18.79	0.68	3.60	2.04	silty clay to clay	UNDFND	UNDFD	12	1.
10.75	35.27	19.93	0.88	4.41	2.09	clay	UNDFND	UNDFD	19	1.
11.00	36.09	20.89	0.73	3.52	2.14	clayey silt to silty clay	UNDFND	UNDFD	10	1.
11.25	36.91	18.12	0.64	3.54	2.19	silty clay to clay	UNDFND	UNDFD	12	1.
11.50	37.73	61.60	1.39	2.26	2.24	sandy silt to clayey silt	UNDFND	UNDFD	24	5.
11.75	38.55	29.01	1.15	3.96	2.29	silty clay to clay	UNDFND	UNDFD	19	2.
12.00	39.37	46.72	1.59	3.40	2.34	clayey silt to silty clay	UNDFND	UNDFD	22	4.
12.25	40.19	26.53	0.71	2.67	2.39	clayey silt to silty clay	UNDFND	UNDFD	13	2.
12.50	41.01	35.27	1.49	4.22	2.44	silty clay to clay	UNDFND	UNDFD	23	3.
12.75	41.83	20.98	0.78	3.72	2.48	silty clay to clay	UNDFND	UNDFD	13	1.
13.00	42.65	25.57	1.13	4.42	2.53	silty clay to clay	UNDFND	UNDFD	16	2.
13.25	43.47	28.05	1.00	3.55	2.58	clayey silt to silty clay	UNDFND	UNDFD	13	2.
13.50	44.29	29.80	1.41	4.73	2.63	clay	UNDFND	UNDFD	29	2.
13.75	45.11	28.43	1.40	4.94	2.68	clay	UNDFND	UNDFD	27	2.
14.00	45.93	28.69	1.21	4.23	2.73	silty clay to clay	UNDFND	UNDFD	18	2.
14.25	46.75	38.65	1.49	3.85	2.78	clayey silt to silty clay	UNDFND	UNDFD	19	3.
14.50	47.57	35.61	0.96	2.71	2.83	sandy silt to clayey silt	UNDFND	UNDFD	14	3.
14.75	48.39	24.87	0.95	3.84	2.88	silty clay to clay	UNDFND	UNDFD	16	2.
15.00	49.21	27.54	1.13	4.11	2.93	silty clay to clay	UNDFND	UNDFD	18	2.
15.25	50.03	29.29	1.05	3.58	2.98	clayey silt to silty clay	UNDFND	UNDFD	14	2.
15.50	50.85	33.00	1.13	3.43	3.03	clayey silt to silty clay	UNDFND	UNDFD	16	2.
15.75	51.67	36.39	1.55	4.27	3.08	silty clay to clay	UNDFND	UNDFD	23	3.
16.00	52.49	30.13	1.00	3.30	3.12	clayey silt to silty clay	UNDFND	UNDFD	14	2.
16.25	53.31	31.42	1.16	3.70	3.17	clayey silt to silty clay	UNDFND	UNDFD	15	2.
16.50	54.13	35.40	1.67	4.70	3.22	silty clay to clay	UNDFND	UNDFD	23	3.
16.75	54.95	40.23	1.64	4.08	3.27	clayey silt to silty clay	UNDFND	UNDFD	19	3.
17.00	55.77	40.56	1.62	3.99	3.32	clayey silt to silty clay	UNDFND	UNDFD	19	3.
17.25	56.59	58.54	1.59	2.72	3.37	sandy silt to clayey silt	UNDFND	UNDFD	22	5.
17.50	57.41	94.75	1.74	1.83	3.42	silty sand to sandy silt	40-50	34-36	30	UNDEFINE
17.75	58.23	44.61	1.08	2.43	3.47	sandy silt to clayey silt	UNDFND	UNDFD	17	4.
18.00	59.06	54.26	1.37	2.52	3.52	sandy silt to clayey silt	UNDFND	UNDFD	21	5.
18.25	59.88	29.96	0.72	2.41	3.57	sandy silt to clayey silt	UNDFND	UNDFD	11	2.
18.50	60.70	42.41	1.21	2.85	3.62	sandy silt to clayey silt	UNDFND	UNDFD	16	3.
18.75	61.52	43.02	1.51	3.50	3.67	clayey silt to silty clay	UNDFND	UNDFD	21	3.
19.00	62.34	31.55	0.82	2.59	3.71	sandy silt to clayey silt	UNDFND	UNDFD	12	2.
19.25	63.16	26.40	0.35	1.32	3.76	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
19.50	63.98	38.56	0.96	2.49	3.81	sandy silt to clayey silt	UNDFND	UNDFD	15	3.
19.75	64.80	46.68	1.74	3.73	3.86	clayey silt to silty clay	UNDFND	UNDFD	22	4.
20.00	65.62	41.59	1.21	2.92	3.91	sandy silt to clayey silt	UNDFND	UNDFD	16	3.

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-1 Page No. 3

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
20.25	66.44	43.67	1.45	3.31	3.96	clayey silt to silty clay	UNDFND	UNDFD	21	3.
20.50	67.26	43.51	1.56	3.57	4.01	clayey silt to silty clay	UNDFND	UNDFD	21	3.
20.75	68.08	43.20	1.61	3.73	4.06	clayey silt to silty clay	UNDFND	UNDFD	21	3.
21.00	68.90	31.64	1.11	3.52	4.11	clayey silt to silty clay	UNDFND	UNDFD	15	2.
21.25	69.72	32.58	0.81	2.50	4.16	sandy silt to clayey silt	UNDFND	UNDFD	12	2.
21.50	70.54	43.33	1.18	2.72	4.21	sandy silt to clayey silt	UNDFND	UNDFD	17	3.

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-062	2-15-00	CPT-2
File	Date	Boring Number
SQUIRE / TOTH		
Operator	Bridge Name	Bridge Number
369 TC	11-068001	11 IMP 7 1.9/10.5
Cone I.D.	Job Number	DIST - CO - RTE - P.M.

3 Channel or 4 Channel or 5 Channel

23 m ~~Feet~~ Right or Left I-8 ℄ Line Station 780+42

Surface Elevation: 5.566m

Required Depth: 60

Depth of Sounding: 60.7

Depth to Ground Water: dry

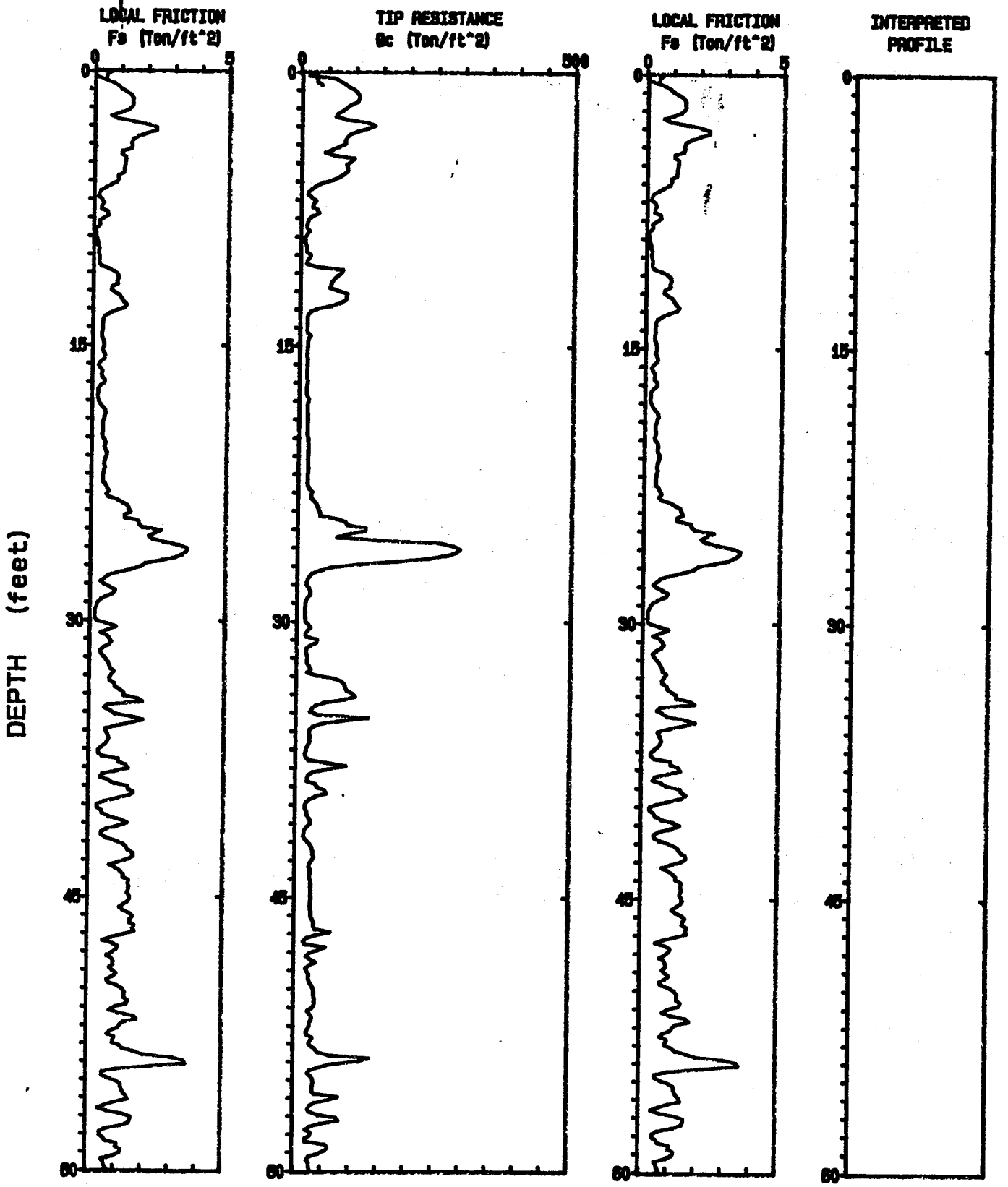
Depth to Caving: 6.5

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-062 Pg 1 / 2
Cone Used : 369 TC

CPT Date : 02-15-00 10:19
Location : CPT-2
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 60.70 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-2
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-15-00 10:19
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	62.01	0.40	0.65	0.02	sand to silty sand	)90	)48	15	UNDEFIN
0.50	1.64	101.68	1.26	1.24	0.07	sand to silty sand	)90	)48	24	UNDEFIN
0.75	2.46	73.68	1.11	1.51	0.12	silty sand to sandy silt	80-90	)48	24	UNDEFIN
1.00	3.28	110.74	1.77	1.60	0.17	silty sand to sandy silt	)90	)48	35	UNDEFIN
1.25	4.10	78.28	1.52	1.95	0.22	silty sand to sandy silt	80-90	46-48	25	UNDEFINE
1.50	4.92	67.81	1.12	1.65	0.27	silty sand to sandy silt	70-80	44-46	22	UNDEFIN
1.75	5.74	79.21	1.04	1.31	0.32	silty sand to sandy silt	70-80	44-46	25	UNDEFINE
2.00	6.56	30.44	0.58	1.92	0.37	sandy silt to clayey silt	UNDFND	UNDFD	12	3.
2.25	7.38	19.63	0.24	1.21	0.42	sandy silt to clayey silt	UNDFND	UNDFD	8	1.
2.50	8.20	21.05	0.36	1.72	0.47	sandy silt to clayey silt	UNDFND	UNDFD	8	2.
2.75	9.02	10.25	0.11	1.07	0.52	clayey silt to silty clay	UNDFND	UNDFD	5	.
3.00	9.84	8.94	0.16	1.76	0.57	clayey silt to silty clay	UNDFND	UNDFD	4	.
3.25	10.66	16.74	0.21	1.27	0.62	sandy silt to clayey silt	UNDFND	UNDFD	6	1.
3.50	11.48	68.09	0.82	1.20	0.66	silty sand to sandy silt	60-70	40-42	22	UNDEFINE
3.75	12.30	69.80	0.82	1.17	0.71	silty sand to sandy silt	60-70	40-42	22	UNDEFINE
4.00	13.12	52.41	1.09	2.07	0.76	sandy silt to clayey silt	UNDFND	UNDFD	20	5.
4.25	13.94	12.29	0.41	3.31	0.81	silty clay to clay	UNDFND	UNDFD	8	1.
4.50	14.76	14.71	0.35	2.36	0.86	clayey silt to silty clay	UNDFND	UNDFD	7	1.
4.75	15.58	13.12	0.41	3.11	0.91	silty clay to clay	UNDFND	UNDFD	8	1.
5.00	16.40	13.27	0.30	2.30	0.96	clayey silt to silty clay	UNDFND	UNDFD	6	1.
5.25	17.22	13.62	0.36	2.67	1.01	clayey silt to silty clay	UNDFND	UNDFD	7	1.
5.50	18.04	14.35	0.21	1.43	1.06	sandy silt to clayey silt	UNDFND	UNDFD	5	1.
5.75	18.86	15.24	0.42	2.78	1.11	clayey silt to silty clay	UNDFND	UNDFD	7	1.
6.00	19.69	15.25	0.40	2.63	1.16	clayey silt to silty clay	UNDFND	UNDFD	7	1.
6.25	20.51	16.95	0.44	2.62	1.21	clayey silt to silty clay	UNDFND	UNDFD	8	1.
6.50	21.33	16.83	0.52	3.07	1.25	clayey silt to silty clay	UNDFND	UNDFD	8	1.
6.75	22.15	17.02	0.45	2.63	1.30	clayey silt to silty clay	UNDFND	UNDFD	8	1.
7.00	22.97	19.15	0.53	2.76	1.35	clayey silt to silty clay	UNDFND	UNDFD	9	1.
7.25	23.79	29.17	0.95	3.26	1.40	clayey silt to silty clay	UNDFND	UNDFD	14	2.
7.50	24.61	56.22	1.44	2.56	1.45	sandy silt to clayey silt	UNDFND	UNDFD	22	5.
7.75	25.43	100.49	2.17	2.16	1.50	silty sand to sandy silt	60-70	38-40	32	UNDEFINE
8.00	26.25	255.08	3.09	1.21	1.55	sand	80-90	42-44	49	UNDEFINE
8.25	27.07	173.49	2.61	1.50	1.60	sand to silty sand	70-80	40-42	42	UNDEFINE
8.50	27.89	24.46	0.79	3.23	1.65	clayey silt to silty clay	UNDFND	UNDFD	12	2.
8.75	28.71	20.88	0.71	3.40	1.70	clayey silt to silty clay	UNDFND	UNDFD	10	1.
9.00	29.53	14.35	0.24	1.64	1.75	clayey silt to silty clay	UNDFND	UNDFD	7	1.
9.25	30.35	18.34	0.43	2.35	1.80	clayey silt to silty clay	UNDFND	UNDFD	9	1.
9.50	31.17	24.77	0.65	2.63	1.85	clayey silt to silty clay	UNDFND	UNDFD	12	2.

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

'**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

E FOUNDATION TEST. & INST.

Operator :TOTH\SGUIRE On Site Loc:CPT-2 Page No. 2

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	19.19	0.50	2.62	1.89	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
10.00	32.81	21.80	0.75	3.44	1.94	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
10.25	33.63	74.15	0.84	1.14	1.99	silty sand to sandy silt	40-50	36-38	24	UNDEFINED
10.50	34.45	89.47	1.50	1.68	2.04	silty sand to sandy silt	50-60	36-38	29	UNDEFINED
10.75	35.27	52.11	0.91	1.74	2.09	silty sand to sandy silt	(40	32-34	17	UNDEFINED
11.00	36.09	41.35	1.17	2.82	2.14	sandy silt to clayey silt	UNDFND	UNDFD	16	3.9
11.25	36.91	23.14	0.63	2.74	2.19	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
11.50	37.73	26.83	0.67	2.51	2.24	sandy silt to clayey silt	UNDFND	UNDFD	10	2.4
11.75	38.55	45.48	0.95	2.10	2.29	sandy silt to clayey silt	UNDFND	UNDFD	17	4.3
12.00	39.37	41.86	1.27	3.02	2.34	sandy silt to clayey silt	UNDFND	UNDFD	16	3.9
12.25	40.19	23.10	0.75	3.24	2.39	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
12.50	41.01	24.65	0.89	3.60	2.44	clayey silt to silty clay	UNDFND	UNDFD	12	2.2
12.75	41.83	17.15	0.68	3.98	2.48	silty clay to clay	UNDFND	UNDFD	11	1.4
13.00	42.65	29.97	1.39	4.65	2.53	clay	UNDFND	UNDFD	29	2.7
13.25	43.47	29.17	1.23	4.22	2.58	silty clay to clay	UNDFND	UNDFD	19	2.6
13.50	44.29	28.67	1.38	4.82	2.63	clay	UNDFND	UNDFD	27	2.6
13.75	45.11	29.79	1.53	5.14	2.68	clay	UNDFND	UNDFD	29	2.7
14.00	45.93	29.62	1.39	4.68	2.73	clay	UNDFND	UNDFD	28	2.6
14.25	46.75	35.37	1.66	4.70	2.78	silty clay to clay	UNDFND	UNDFD	23	3.2
14.50	47.57	33.47	1.10	3.30	2.83	clayey silt to silty clay	UNDFND	UNDFD	16	3.0
14.75	48.39	36.48	0.96	2.64	2.88	sandy silt to clayey silt	UNDFND	UNDFD	14	3.3
15.00	49.21	28.65	0.97	3.38	2.93	clayey silt to silty clay	UNDFND	UNDFD	14	2.5
15.25	50.03	31.52	0.99	3.13	2.98	clayey silt to silty clay	UNDFND	UNDFD	15	2.8
15.50	50.85	38.10	1.45	3.80	3.03	clayey silt to silty clay	UNDFND	UNDFD	18	3.5
15.75	51.67	31.09	1.34	4.31	3.08	silty clay to clay	UNDFND	UNDFD	20	2.8
16.00	52.49	26.52	1.08	4.06	3.12	silty clay to clay	UNDFND	UNDFD	17	2.3
16.25	53.31	34.06	1.11	3.26	3.17	clayey silt to silty clay	UNDFND	UNDFD	16	3.0
16.50	54.13	88.29	2.87	3.25	3.22	sandy silt to clayey silt	UNDFND	UNDFD	34	8.5
16.75	54.95	34.70	1.07	3.07	3.27	clayey silt to silty clay	UNDFND	UNDFD	17	3.1
17.00	55.77	36.63	1.30	3.55	3.32	clayey silt to silty clay	UNDFND	UNDFD	18	3.3
17.25	56.59	49.39	1.06	2.15	3.37	sandy silt to clayey silt	UNDFND	UNDFD	19	4.6
17.50	57.41	58.82	1.41	2.41	3.42	sandy silt to clayey silt	UNDFND	UNDFD	23	5.5
17.75	58.23	28.50	0.74	2.58	3.47	sandy silt to clayey silt	UNDFND	UNDFD	11	2.5
18.00	59.06	51.67	1.12	2.17	3.52	sandy silt to clayey silt	UNDFND	UNDFD	20	4.8
18.25	59.88	29.76	0.75	2.53	3.57	sandy silt to clayey silt	UNDFND	UNDFD	11	2.6
18.50	60.70	29.74	-13106.92	-44074.64	3.62	undefined	UNDFND	UNDFD	UDF	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v. 3.04) ****

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-063	2-15-00	CPT-3
File	Date	Boring Number
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369 TC	11-068001	11 IMP 7 19/0.5
Cone I.D.	Job Number	DIST - CO - RTE - P.M

3 Channel or 4 Channel or 5 Channel

20.4 m ~~Feet~~ Right or Left I-8 ℄ Line Station 777+26

Surface Elevation: 4.803 m

Required Depth: ~~60.~~ 65

Depth of Sounding: 65.5

Depth to Ground Water: dry

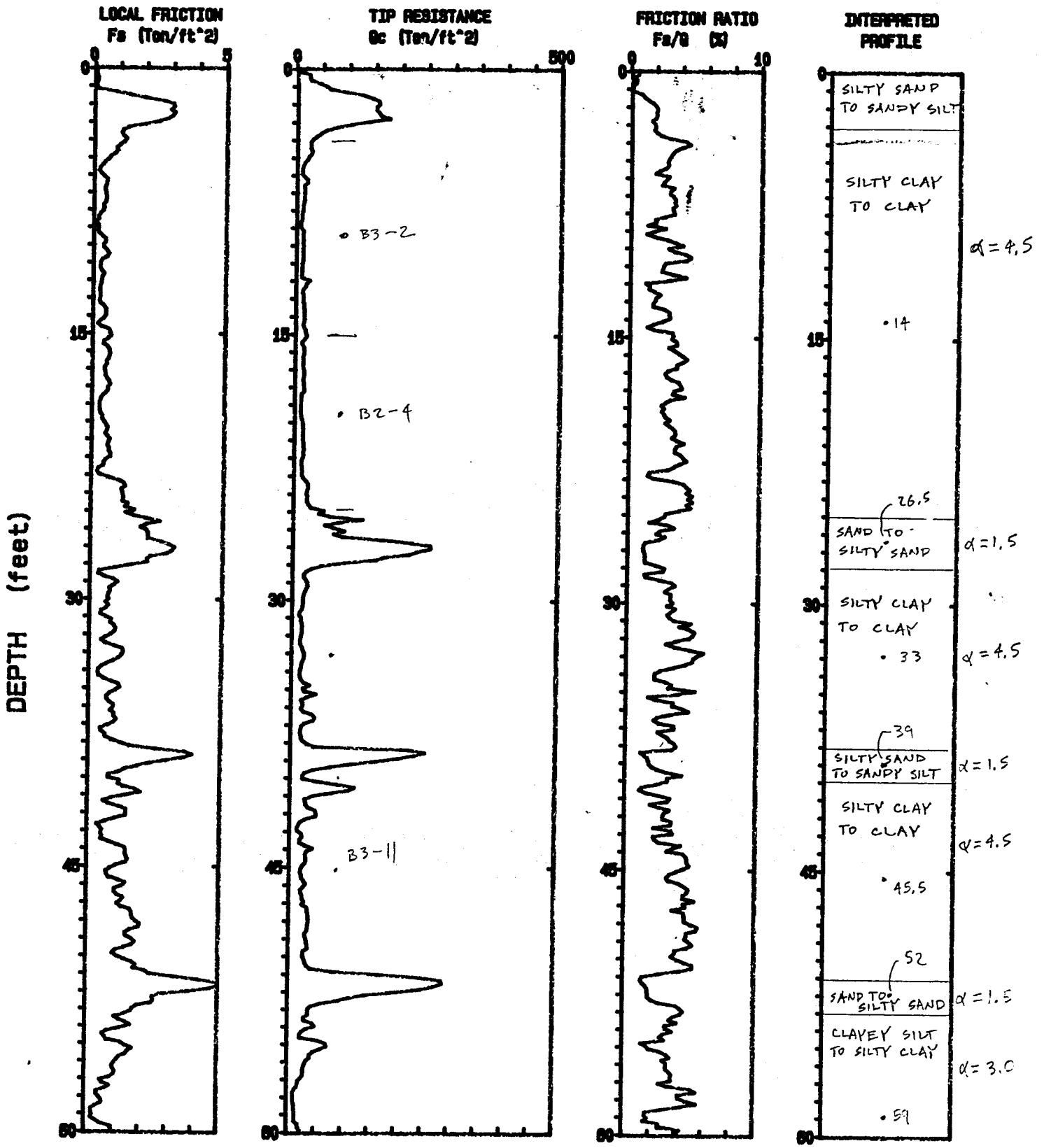
Depth to Caving: 3.0

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-063 Pg 1 / 2
Cone Used : 369 TC

CPT Date : 02-15-00 10:57
Location : CPT-3
Job No. : 11-068001



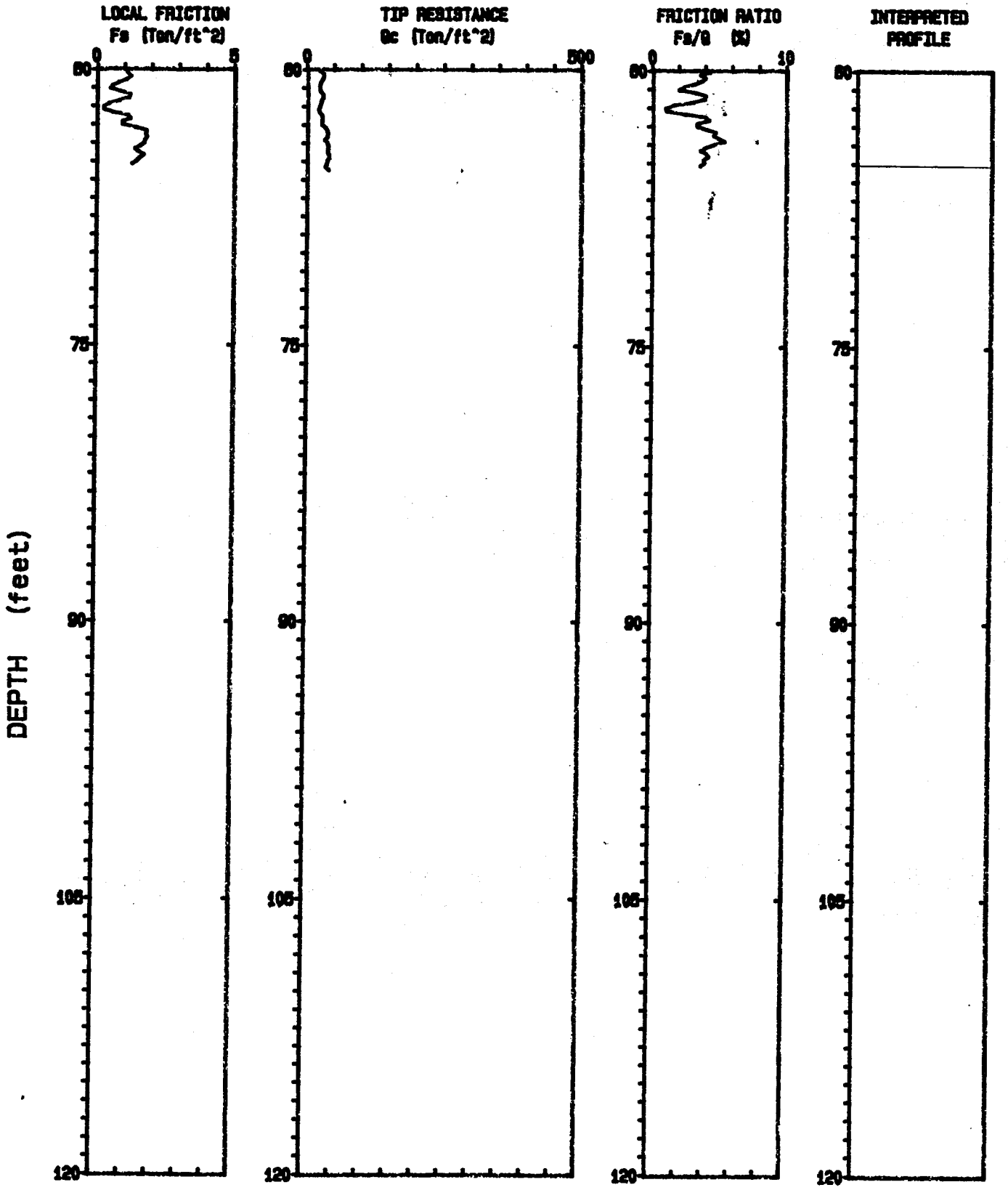
Depth Increment : .05 m

Max Depth : 65.45 ft

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-063 Pg 2 / 2
Cone Used : 389 TC

CPT Date : 02-15-00 10:57
Location : CPT-3
Job No. : 11-058001



Depth Increment : .05 m

Max Depth : 85.45 ft

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-3
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-15-00 10:07
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	25.61	0.07	0.29	0.02	silty sand to sandy silt	80-90	>48	8	UNDEFINED
0.50	1.64	96.15	0.84	0.87	0.07	sand to silty sand	>90	>48	23	UNDEFINED
0.75	2.46	153.04	2.91	1.90	0.12	silty sand to sandy silt	>90	>48	49	UNDEFINED
1.00	3.28	128.65	2.26	1.76	0.17	silty sand to sandy silt	>90	>48	41	UNDEFINED
1.25	4.10	37.01	1.09	2.94	0.22	sandy silt to clayey silt	UNDFND	UNDFD	14	3.6
1.50	4.92	24.80	0.81	3.26	0.27	clayey silt to silty clay	UNDFND	UNDFD	12	2.4
1.75	5.74	11.97	0.30	2.53	0.32	clayey silt to silty clay	UNDFND	UNDFD	6	1.1
2.00	6.56	14.98	0.40	2.68	0.37	clayey silt to silty clay	UNDFND	UNDFD	7	1.4
2.25	7.38	13.64	0.44	3.20	0.42	silty clay to clay	UNDFND	UNDFD	9	1.3
2.50	8.20	10.67	0.34	3.21	0.47	silty clay to clay	UNDFND	UNDFD	7	1.0
2.75	9.02	7.84	0.15	1.88	0.52	silty clay to clay	UNDFND	UNDFD	5	.7
3.00	9.84	11.89	0.31	2.64	0.57	silty clay to clay	UNDFND	UNDFD	8	1.1
3.25	10.66	12.07	0.47	3.91	0.62	clay	UNDFND	UNDFD	12	1.1
3.50	11.48	10.45	0.27	2.63	0.66	silty clay to clay	UNDFND	UNDFD	7	.9
3.75	12.30	16.64	0.31	1.86	0.71	clayey silt to silty clay	UNDFND	UNDFD	8	1.5
4.00	13.12	12.87	0.25	1.92	0.76	clayey silt to silty clay	UNDFND	UNDFD	6	1.2
4.25	13.94	15.76	0.43	2.71	0.81	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
4.50	14.76	15.96	0.35	2.22	0.86	clayey silt to silty clay	UNDFND	UNDFD	8	1.5
4.75	15.58	16.61	0.56	3.36	0.91	silty clay to clay	UNDFND	UNDFD	11	1.5
5.00	16.40	15.67	0.62	3.96	0.96	silty clay to clay	UNDFND	UNDFD	10	1.4
5.25	17.22	15.81	0.50	3.14	1.01	silty clay to clay	UNDFND	UNDFD	10	1.4
5.50	18.04	16.17	0.60	3.69	1.06	silty clay to clay	UNDFND	UNDFD	10	1.5
5.75	18.86	12.69	0.41	3.20	1.11	silty clay to clay	UNDFND	UNDFD	8	1.1
6.00	19.69	11.37	0.31	2.76	1.16	silty clay to clay	UNDFND	UNDFD	7	1.0
6.25	20.51	15.61	0.51	3.30	1.21	silty clay to clay	UNDFND	UNDFD	10	1.4
6.50	21.33	16.44	0.61	3.69	1.25	silty clay to clay	UNDFND	UNDFD	10	1.5
6.75	22.15	16.04	0.65	4.03	1.30	silty clay to clay	UNDFND	UNDFD	12	1.4
7.00	22.97	14.37	0.32	2.24	1.35	clayey silt to silty clay	UNDFND	UNDFD	7	1.3
7.25	23.79	24.70	1.08	4.37	1.40	silty clay to clay	UNDFND	UNDFD	16	2.3
7.50	24.61	26.23	1.25	4.77	1.45	clay	UNDFND	UNDFD	25	2.4
7.75	25.43	68.58	1.64	2.35	1.50	sandy silt to clayey silt	UNDFND	UNDFD	26	6.7
8.00	26.25	79.34	2.19	2.76	1.55	sandy silt to clayey silt	UNDFND	UNDFD	30	7.7
8.25	27.07	200.97	2.65	1.32	1.60	sand to silty sand	70-80	40-42	48	UNDEFINED
8.50	27.89	174.97	2.50	1.43	1.65	sand to silty sand	70-80	40-42	42	UNDEFINED
8.75	28.71	31.01	0.72	2.32	1.70	sandy silt to clayey silt	UNDFND	UNDFD	12	2.9
9.00	29.53	26.08	0.87	3.34	1.75	clayey silt to silty clay	UNDFND	UNDFD	12	2.4
9.25	30.35	19.82	0.68	3.41	1.80	clayey silt to silty clay	UNDFND	UNDFD	9	1.8
9.50	31.17	15.43	0.58	3.73	1.85	silty clay to clay	UNDFND	UNDFD	10	1.3

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v. 3.04) ***

E FOUNDATION TEST. & INST.

Operator :TOTH\SGUIRE On Site Loc:CPT-3 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	18.56	0.90	4.83	1.89	clay	UNDFND	UNDFD	18	1.6
10.00	32.81	17.58	0.78	4.42	1.94	clay	UNDFND	UNDFD	17	1.5
10.25	33.63	21.64	1.05	4.83	1.99	clay	UNDFND	UNDFD	21	1.9
10.50	34.45	16.42	0.40	2.44	2.04	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
10.75	35.27	30.52 12	0.98	3.22	2.09	clayey silt to silty clay	UNDFND	UNDFD	15	2.2
11.00	36.09	22.10	0.80	3.62	2.14	silty clay to clay	UNDFND	UNDFD	14	1.9
11.25	36.91	35.47	0.95	2.68	2.19	sandy silt to clayey silt	UNDFND	UNDFD	14	3.3
11.50	37.73	18.69	0.59	3.15	2.24	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
11.75	38.55	115.05	1.97	1.71	2.29	silty sand to sandy silt	50-60	36-38	37	UNDEFINED
12.00	39.37	155.93	2.93	1.88	2.34	silty sand to sandy silt	60-70	38-40	50	UNDEFINED
12.25	40.19	32.72	1.05	3.20	2.39	clayey silt to silty clay	UNDFND	UNDFD	16	3.0
12.50	41.01	88.55	1.55	1.75	2.44	silty sand to sandy silt	50-60	36-38	28	UNDEFINED
12.75	41.83	33.78	0.98	2.90	2.48	clayey silt to silty clay	UNDFND	UNDFD	16	3.1
13.00	42.65	32.25	0.99	3.06	2.53	clayey silt to silty clay	UNDFND	UNDFD	15	2.9
13.25	43.47	18.66	0.52	2.76	2.58	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
13.50	44.29	31.06	1.26	4.06	2.63	silty clay to clay	UNDFND	UNDFD	20	2.8
13.75	45.11	27.38	1.30	4.73	2.68	clay	UNDFND	UNDFD	26	2.4
14.00	45.93	25.37	0.98	3.88	2.73	silty clay to clay	UNDFND	UNDFD	16	2.2
14.25	46.75	24.32	1.19	4.90	2.78	clay	UNDFND	UNDFD	23	2.1
14.50	47.57	32.00	1.42	4.45	2.83	silty clay to clay	UNDFND	UNDFD	20	2.9
14.75	48.39	36.42	1.88	5.17	2.88	clay	UNDFND	UNDFD	35	3.3
15.00	49.21	32.98	1.64	4.96	2.93	clay	UNDFND	UNDFD	32	3.0
15.25	50.03	31.09	1.28	4.12	2.98	silty clay to clay	UNDFND	UNDFD	20	2.8
15.50	50.85	45.07	1.83	4.06	3.03	clayey silt to silty clay	UNDFND	UNDFD	22	4.2
15.75	51.67	255.66	4.02	1.57	3.08	sand to silty sand	70-80	40-42	>50	UNDEFINED
16.00	52.49	160.71	3.28	2.04	3.12	silty sand to sandy silt	60-70	36-38	>50	UNDEFINED
16.25	53.31	43.04	1.85	4.30	3.17	silty clay to clay	UNDFND	UNDFD	27	3.9
16.50	54.13	38.42	1.37	3.56	3.22	clayey silt to silty clay	UNDFND	UNDFD	18	3.5
16.75	54.95	40.50	0.86	2.14	3.27	sandy silt to clayey silt	UNDFND	UNDFD	16	3.7
17.00	55.77	53.45	1.55	2.89	3.32	sandy silt to clayey silt	UNDFND	UNDFD	20	5.0
17.25	56.59	31.51	1.11	3.51	3.37	clayey silt to silty clay	UNDFND	UNDFD	15	2.8
17.50	57.41	22.24	0.84	3.76	3.42	silty clay to clay	UNDFND	UNDFD	14	1.8
17.75	58.23	11.29 15	0.57	5.03	3.47	clay	UNDFND	UNDFD	11	.7
18.00	59.06	14.04	0.36	2.53	3.52	clayey silt to silty clay	UNDFND	UNDFD	7	1.0
18.25	59.88	19.29	0.64	3.33	3.57	clayey silt to silty clay	UNDFND	UNDFD	9	1.5
18.50	60.70	27.22	1.02	3.74	3.62	clayey silt to silty clay	UNDFND	UNDFD	13	2.3
18.75	61.52	25.80	0.82	3.18	3.67	clayey silt to silty clay	UNDFND	UNDFD	12	2.2
19.00	62.34	23.34	0.43	1.83	3.71	sandy silt to clayey silt	UNDFND	UNDFD	9	1.9
19.25	63.16	29.10	1.11	3.82	3.76	silty clay to clay	UNDFND	UNDFD	19	2.5
19.50	63.98	36.34	1.77	4.86	3.81	clay	UNDFND	UNDFD	35	3.2
19.75	64.80	39.17	1.53	3.91	3.86	clayey silt to silty clay	UNDFND	UNDFD	19	3.5

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) ***

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-064	2-15-00	CPT-4
File	Date	Boring Number
SQUIRE / TOTTI		
Operator	Bridge Name	Bridge Number
369TC	IL-068001	11 IMP 7 19/1
Cone I.D.	Job Number	DIST - CO - RTE - P.N

(3 Channel) or 4 Channel or 5 Channel

_____ ~~Feet~~ Right or Left _____ Line Station _____

Surface Elevation: 4.951 m

Required Depth: 60

Depth of Sounding: 22.0

Depth to Ground Water: H_2O on Bottom

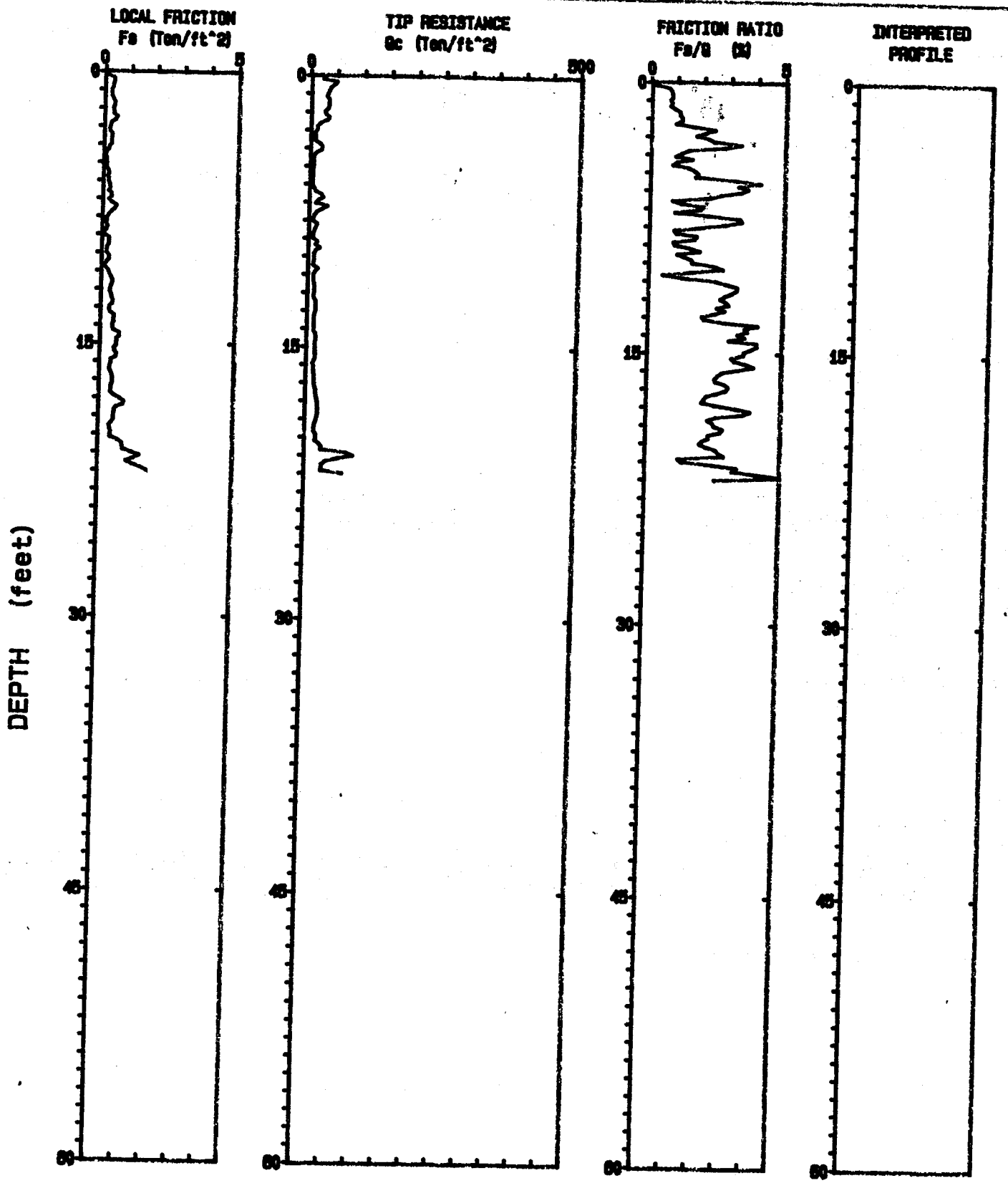
Depth to Caving: ~~11.4~~ 7.4

Remarks: Quit for Qc > 350 TSF

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-064 Pg 1 / 1
Cone Used : 389 TC

CPT Date : 02-15-00 11:58
Location : CPT-4
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 21.98 ft

DEPTH meters	DEPTH feet	TIP Qc tsf	FRICTION Fs tsf	FR RATIO Fs/Qc %	INC I deg	INTERPRETED SOIL TYPE	N SPT
6.85	22.5	341.0	?	?	0.1	?	?

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-4
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-15-00 11:58
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	36.38	0.25	0.68	0.02	silty sand to sandy silt	>90	>48	12	UNDEFINE
0.50	1.64	31.81	0.27	0.84	0.07	silty sand to sandy silt	70-80	46-48	10	UNDEFINE
0.75	2.46	29.49	0.35	1.18	0.12	sandy silt to clayey silt	UNDFND	UNDFD	11	2.
1.00	3.28	10.92	0.23	2.14	0.17	clayey silt to silty clay	UNDFND	UNDFD	5	1.
1.25	4.10	15.69	0.25	1.56	0.22	sandy silt to clayey silt	UNDFND	UNDFD	6	1.
1.50	4.92	6.70	0.09	1.32	0.27	sensitive fine grained	UNDFND	UNDFD	3	.
1.75	5.74	4.95	0.14	2.79	0.32	clay	UNDFND	UNDFD	5	.
2.00	6.56	10.83	0.21	1.95	0.37	clayey silt to silty clay	UNDFND	UNDFD	5	1.
2.25	7.38	22.14	0.33	1.50	0.42	sandy silt to clayey silt	UNDFND	UNDFD	8	2.
2.50	8.20	10.36	0.25	2.37	0.47	silty clay to clay	UNDFND	UNDFD	7	.
2.75	9.02	9.23	0.11	1.25	0.52	clayey silt to silty clay	UNDFND	UNDFD	4	.
3.00	9.84	14.64	0.21	1.42	0.57	sandy silt to clayey silt	UNDFND	UNDFD	6	1.
3.25	10.66	11.72	0.19	1.60	0.62	clayey silt to silty clay	UNDFND	UNDFD	6	1.
3.50	11.48	10.91	0.29	2.63	0.66	silty clay to clay	UNDFND	UNDFD	7	1.
3.75	12.30	11.99	0.35	2.92	0.71	silty clay to clay	UNDFND	UNDFD	8	1.
4.00	13.12	15.27	0.37	2.41	0.76	clayey silt to silty clay	UNDFND	UNDFD	7	1.
4.25	13.94	12.77	0.45	3.53	0.81	silty clay to clay	UNDFND	UNDFD	8	1.1
4.50	14.76	15.80	0.59	3.75	0.86	silty clay to clay	UNDFND	UNDFD	10	1.
4.75	15.58	16.63	0.57	3.45	0.91	silty clay to clay	UNDFND	UNDFD	11	1.5
5.00	16.40	13.62	0.42	3.05	0.96	silty clay to clay	UNDFND	UNDFD	9	1.
5.25	17.22	16.41	0.46	2.82	1.01	clayey silt to silty clay	UNDFND	UNDFD	8	1.5
5.50	18.04	20.95	0.52	2.49	1.06	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
5.75	18.86	23.70	0.71	2.98	1.11	clayey silt to silty clay	UNDFND	UNDFD	11	2.2
6.00	19.69	18.25	0.47	2.57	1.16	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
6.25	20.51	24.60	0.59	2.40	1.21	sandy silt to clayey silt	UNDFND	UNDFD	9	2.3
6.50	21.33	60.40	1.20	1.98	1.25	silty sand to sandy silt	40-50	36-38	19	UNDEFINEI

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-065	2-16-00	CPT-5
File	Date	Boring Number
SQUIRE / TOTH		
Operator	Bridge Name	Bridge Number
369 TC	11-068001	11 IMP 7 1.9/
Cone I.D.	Job Number	DIST - CO - RTE - P.M

(3 Channel) or 4 Channel or 5 Channel

53 m ~~Feet~~ Right or (Left) "AW" Line Station 111+10

Surface Elevation: 5.007 m

Required Depth: 70

Depth of Sounding: 73.5

Depth to Ground Water: DRY

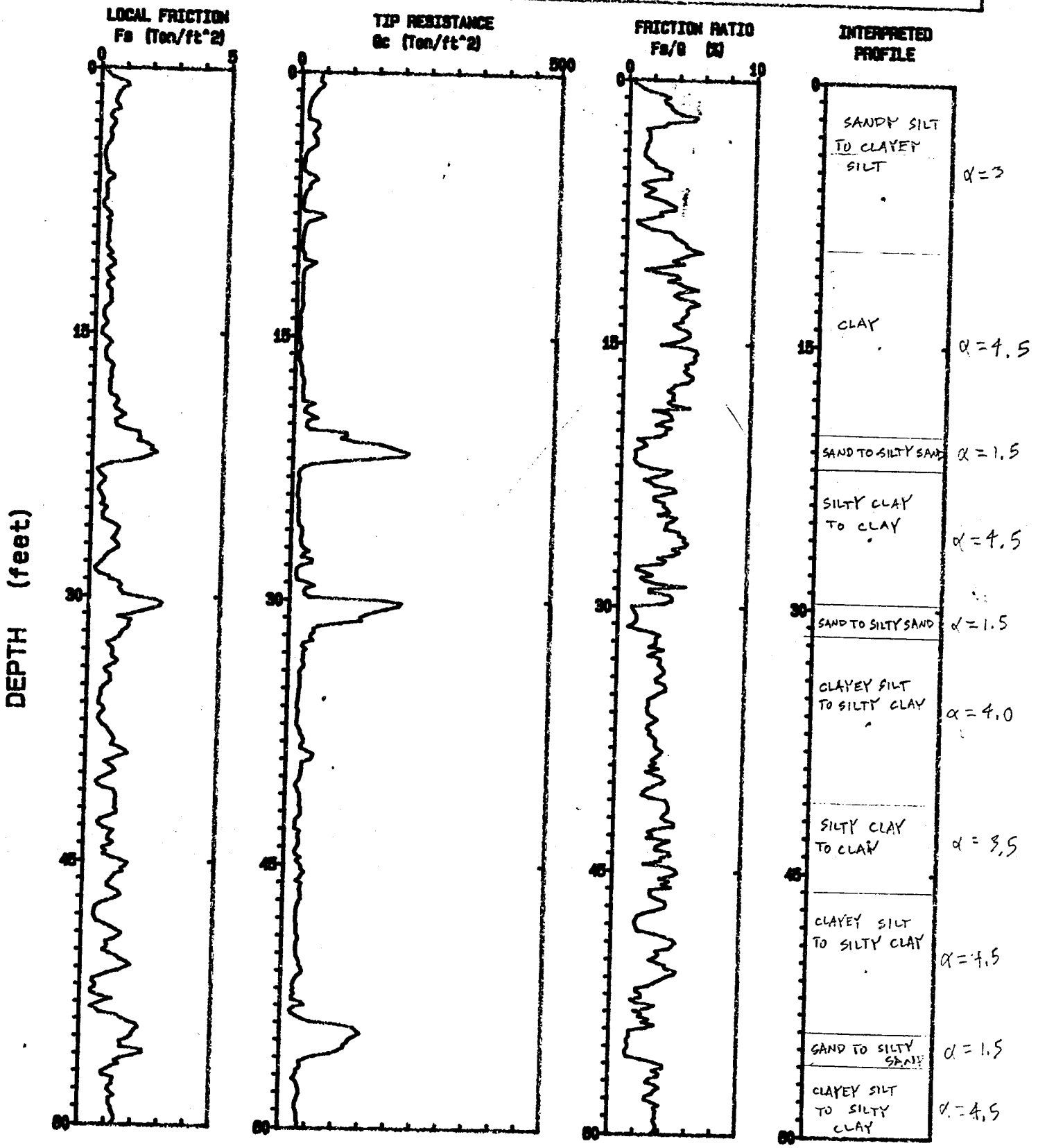
Depth to Caving: 6.3

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-065 Pg 1 / 2
Cone Used : 369 TC

CPT Date : 02-16-00 07:37
Location : CPT-5
Job No. : 11-068001



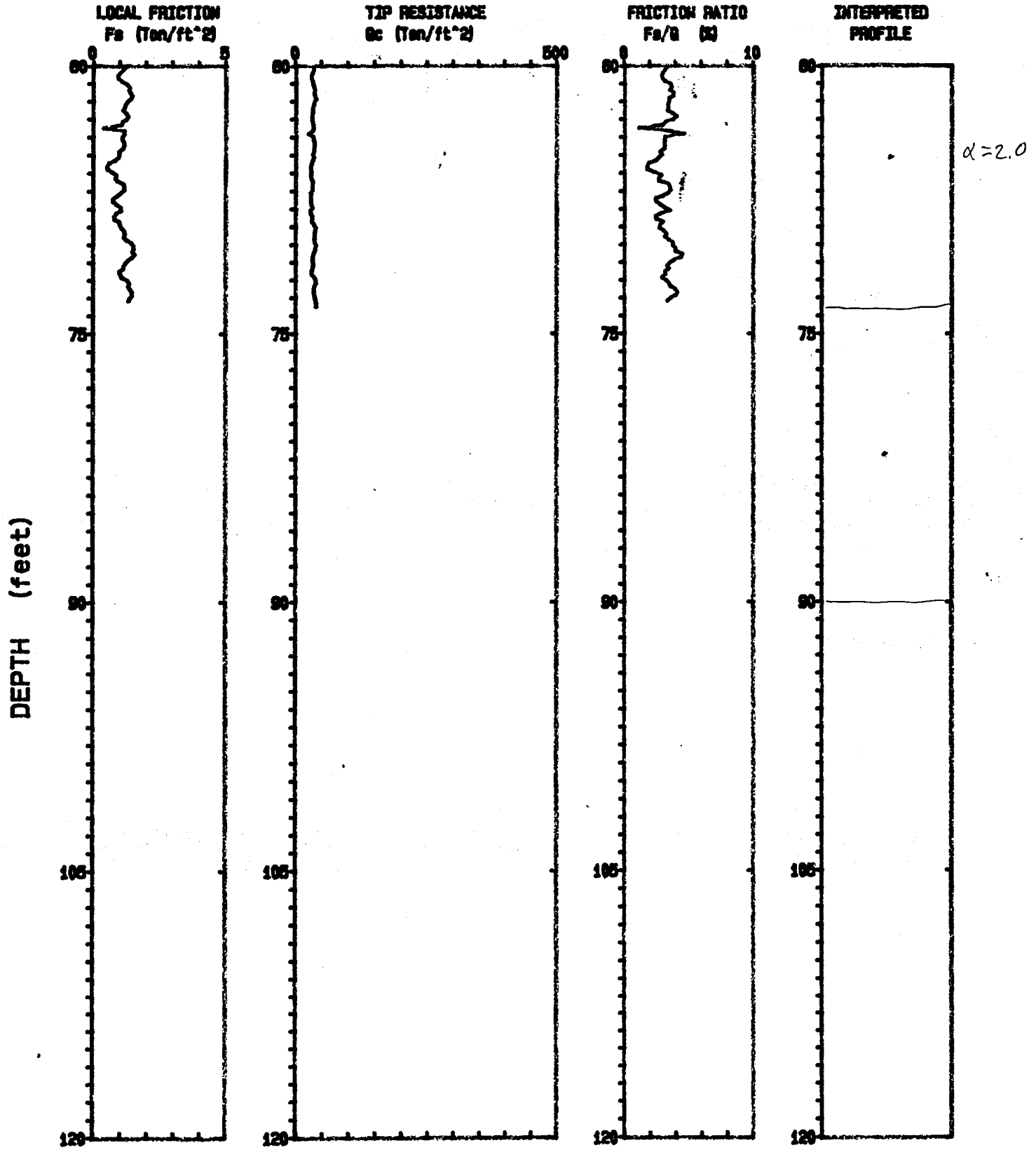
Depth Increment : .05 m

Max Depth : 73.49 ft

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-065 Pg 2 / 2
Cone Used : 369 TC

CPT Date : 02-16-00 07:37
Location : CPT-5
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 73.49 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-5
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 07:37
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	39.64	0.54	1.36	0.02	silty sand to sandy silt	>90	>48	13	UNDEFINED
0.50	1.64	24.62	0.76	3.10	0.07	clayey silt to silty clay	UNDFND	UNDFD	12	2.4
0.75	2.46	14.41	0.61	4.23	0.12	clay	UNDFND	UNDFD	14	1.4
1.00	3.28	28.49	0.48	1.69	0.17	sandy silt to clayey silt	UNDFND	UNDFD	11	2.8
1.25	4.10	29.48	0.41	1.38	0.22	sandy silt to clayey silt	UNDFND	UNDFD	11	2.9
1.50	4.92	13.31	0.22	1.63	0.27	clayey silt to silty clay	UNDFND	UNDFD	6	1.3
1.75	5.74	9.72	0.26	2.67	0.32	silty clay to clay	UNDFND	UNDFD	6	.9
2.00	6.56	25.95	0.41	1.57	0.37	sandy silt to clayey silt	UNDFND	UNDFD	10	2.5
2.25	7.38	9.72	0.30	3.10	0.42	silty clay to clay	UNDFND	UNDFD	6	.9
2.50	8.20	24.21	0.27	1.13	0.47	sandy silt to clayey silt	UNDFND	UNDFD	9	2.3
2.75	9.02	17.50	0.43	2.46	0.52	clayey silt to silty clay	UNDFND	UNDFD	8	1.6
3.00	9.84	8.12	0.41	5.00	0.57	clay	UNDFND	UNDFD	8	.7
3.25	10.66	11.01	0.44	3.99	0.62	clay	UNDFND	UNDFD	11	1.0
3.50	11.48	20.66	0.56	2.70	0.66	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
3.75	12.30	10.46	0.48	4.61	0.71	clay	UNDFND	UNDFD	10	.9
4.00	13.12	10.68	0.54	5.08	0.76	clay	UNDFND	UNDFD	10	.9
4.25	13.94	8.76	0.40	4.58	0.81	clay	UNDFND	UNDFD	8	.7
4.50	14.76	7.43	0.36	4.84	0.86	clay	UNDFND	UNDFD	7	.6
4.75	15.58	8.39	0.41	4.86	0.91	clay	UNDFND	UNDFD	8	.7
5.00	16.40	8.38	0.45	5.32	0.96	clay	UNDFND	UNDFD	8	.7
5.25	17.22	12.16	0.63	5.16	1.01	clay	UNDFND	UNDFD	12	1.1
5.50	18.04	16.28	0.63	3.86	1.06	silty clay to clay	UNDFND	UNDFD	10	1.5
5.75	18.86	21.16	0.74	3.51	1.11	clayey silt to silty clay	UNDFND	UNDFD	10	2.0
6.00	19.69	29.70	0.97	3.27	1.16	clayey silt to silty clay	UNDFND	UNDFD	14	2.8
6.25	20.51	42.64	0.99	2.32	1.21	sandy silt to clayey silt	UNDFND	UNDFD	15	4.1
6.50	21.33	134.00	1.85	1.38	1.25	sand to silty sand	70-80	40-42	32	UNDEFINED
6.75	22.15	174.15	2.23	1.28	1.30	sand to silty sand	70-80	42-44	42	UNDEFINED
7.00	22.97	18.01	0.59	3.27	1.35	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
7.25	23.79	11.52	0.39	3.43	1.40	silty clay to clay	UNDFND	UNDFD	7	1.0
7.50	24.61	11.17	0.39	3.47	1.45	silty clay to clay	UNDFND	UNDFD	7	.9
7.75	25.43	12.35	0.47	3.82	1.50	clay	UNDFND	UNDFD	12	1.0
8.00	26.25	18.11	0.85	4.69	1.55	clay	UNDFND	UNDFD	17	1.6
8.25	27.07	20.43	0.96	4.69	1.60	clay	UNDFND	UNDFD	20	1.8
8.50	27.89	32.06	0.74	2.32	1.65	sandy silt to clayey silt	UNDFND	UNDFD	12	3.0
8.75	28.71	12.94	0.30	2.30	1.70	clayey silt to silty clay	UNDFND	UNDFD	6	1.1
9.00	29.53	29.99	1.00	3.35	1.75	clayey silt to silty clay	UNDFND	UNDFD	14	2.8
9.25	30.35	133.95	1.94	1.45	1.80	sand to silty sand	60-70	38-40	32	UNDEFINED
9.50	31.17	153.05	1.98	1.29	1.85	sand to silty sand	70-80	40-42	37	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

***** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 v 3.04 ***

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-5 Page No. 2

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	57.77	1.48	2.55	1.89	sandy silt to clayey silt	UNDFND	UNDFD	22	5.[illegible]
10.00	32.81	33.94	0.98	2.88	1.94	clayey silt to silty clay	UNDFND	UNDFD	16	3.2
10.25	33.63	27.94	0.98	3.50	1.99	clayey silt to silty clay	UNDFND	UNDFD	13	2.5
10.50	34.45	23.61	0.82	3.47	2.04	clayey silt to silty clay	UNDFND	UNDFD	11	2.1
10.75	35.27	21.77	0.73	3.36	2.09	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
11.00	36.09	18.88	0.48	2.54	2.14	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
11.25	36.91	19.37	0.55	2.86	2.19	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
11.50	37.73	24.69	0.74	2.99	2.24	clayey silt to silty clay	UNDFND	UNDFD	12	2.2
11.75	38.55	31.95	1.08	3.37	2.29	clayey silt to silty clay	UNDFND	UNDFD	15	2.9
12.00	39.37	41.00	1.23	2.99	2.34	sandy silt to clayey silt	UNDFND	UNDFD	16	3.8
12.25	40.19	27.63	0.98	3.54	2.39	clayey silt to silty clay	UNDFND	UNDFD	13	2.5
12.50	41.01	22.60	0.65	2.87	2.44	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
12.75	41.83	28.01	1.18	4.23	2.48	silty clay to clay	UNDFND	UNDFD	18	2.5
13.00	42.65	24.76	1.03	4.16	2.53	silty clay to clay	UNDFND	UNDFD	16	2.2
13.25	43.47	23.47	0.80	3.39	2.58	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
13.50	44.29	24.09	0.93	3.88	2.63	silty clay to clay	UNDFND	UNDFD	15	2.1
13.75	45.11	27.76	1.16	4.17	2.68	silty clay to clay	UNDFND	UNDFD	18	2.5
14.00	45.93	32.34	1.39	4.29	2.73	silty clay to clay	UNDFND	UNDFD	21	2.9
14.25	46.75	32.66	1.10	3.37	2.78	clayey silt to silty clay	UNDFND	UNDFD	16	2.9
14.50	47.57	28.73	0.97	3.36	2.83	clayey silt to silty clay	UNDFND	UNDFD	14	2.5
14.75	48.39	25.37	0.49	1.94	2.88	sandy silt to clayey silt	UNDFND	UNDFD	10	2.2
15.00	49.21	27.82	1.26	4.52	2.93	silty clay to clay	UNDFND	UNDFD	18	2.4
15.25	50.03	26.92	1.00	3.70	2.98	clayey silt to silty clay	UNDFND	UNDFD	13	2.3
15.50	50.85	33.28	1.52	4.56	3.03	silty clay to clay	UNDFND	UNDFD	21	3.0
15.75	51.67	30.68	1.07	3.49	3.08	clayey silt to silty clay	UNDFND	UNDFD	15	2.7
16.00	52.49	22.47	0.48	2.13	3.12	sandy silt to clayey silt	UNDFND	UNDFD	9	1.9
16.25	53.31	29.52	0.77	2.60	3.17	sandy silt to clayey silt	UNDFND	UNDFD	11	2.6
16.50	54.13	53.41	1.25	2.35	3.22	sandy silt to clayey silt	UNDFND	UNDFD	20	5.0
16.75	54.95	143.41	2.10	1.47	3.27	sand to silty sand	60-70	36-38	34	UNDEFINED
17.00	55.77	115.78	1.79	1.55	3.32	sand to silty sand	50-60	34-36	28	UNDEFINED
17.25	56.59	45.65	1.78	3.90	3.37	clayey silt to silty clay	UNDFND	UNDFD	22	4.2
17.50	57.41	30.25	1.08	3.57	3.42	clayey silt to silty clay	UNDFND	UNDFD	14	2.6
17.75	58.23	36.97	1.21	3.28	3.47	clayey silt to silty clay	UNDFND	UNDFD	18	3.3
18.00	59.06	32.29	1.24	3.83	3.52	clayey silt to silty clay	UNDFND	UNDFD	15	2.8
18.25	59.88	36.06	1.35	3.75	3.57	clayey silt to silty clay	UNDFND	UNDFD	17	3.2
18.50	60.70	32.97	1.02	3.11	3.62	clayey silt to silty clay	UNDFND	UNDFD	16	2.9
18.75	61.52	35.61	1.29	3.61	3.67	clayey silt to silty clay	UNDFND	UNDFD	17	3.1
19.00	62.34	36.54	1.29	3.53	3.71	clayey silt to silty clay	UNDFND	UNDFD	17	3.2
19.25	63.16	32.53	1.19	3.65	3.76	clayey silt to silty clay	UNDFND	UNDFD	16	2.8
19.50	63.98	32.26	0.96	2.99	3.81	clayey silt to silty clay	UNDFND	UNDFD	15	2.8
19.75	64.80	35.99	1.10	3.05	3.86	clayey silt to silty clay	UNDFND	UNDFD	17	3.2
20.00	65.62	32.48	0.76	2.34	3.91	sandy silt to clayey silt	UNDFND	UNDFD	12	2.8

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.24) ****

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-5 Page No. 3

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
20.25	66.44	31.03	0.77	2.47	3.96	sandy silt to clayey silt	UNDFND	UNDFD	12	2.[illegible]
20.50	67.26	31.53	1.08	3.43	4.01	clayey silt to silty clay	UNDFND	UNDFD	15	2.7
20.75	68.08	30.81	0.89	2.89	4.06	clayey silt to silty clay	UNDFND	UNDFD	15	2.8
21.00	68.90	32.78	0.89	2.71	4.11	sandy silt to clayey silt	UNDFND	UNDFD	13	2.8
21.25	69.72	37.42	1.17	3.13	4.16	clayey silt to silty clay	UNDFND	UNDFD	18	3.3
21.50	70.54	37.39	1.51	4.04	4.21	silty clay to clay	UNDFND	UNDFD	24	3.3
21.75	71.36	33.33	1.24	3.73	4.26	clayey silt to silty clay	UNDFND	UNDFD	16	2.9
22.00	72.18	35.74	1.15	3.22	4.31	clayey silt to silty clay	UNDFND	UNDFD	17	3.1
22.25	73.00	36.28	1.41	3.89	4.35	clayey silt to silty clay	UNDFND	UNDFD	17	3.1

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-066	2-16-00	CPT-6
File	Date	Boring Number
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369 TC	11-06800 1	11 IMP 7 1.9/
Cone I.D.	Job Number	DIST - CO - RTE - P.:

3 Channel or 4 Channel or 5 Channel

40m ~~Feet~~ Right or Left "AW" Line Station 111+00

Surface Elevation: 5.636 m

Required Depth: 70

Depth of Sounding: 33.46

Depth to Ground Water: dry

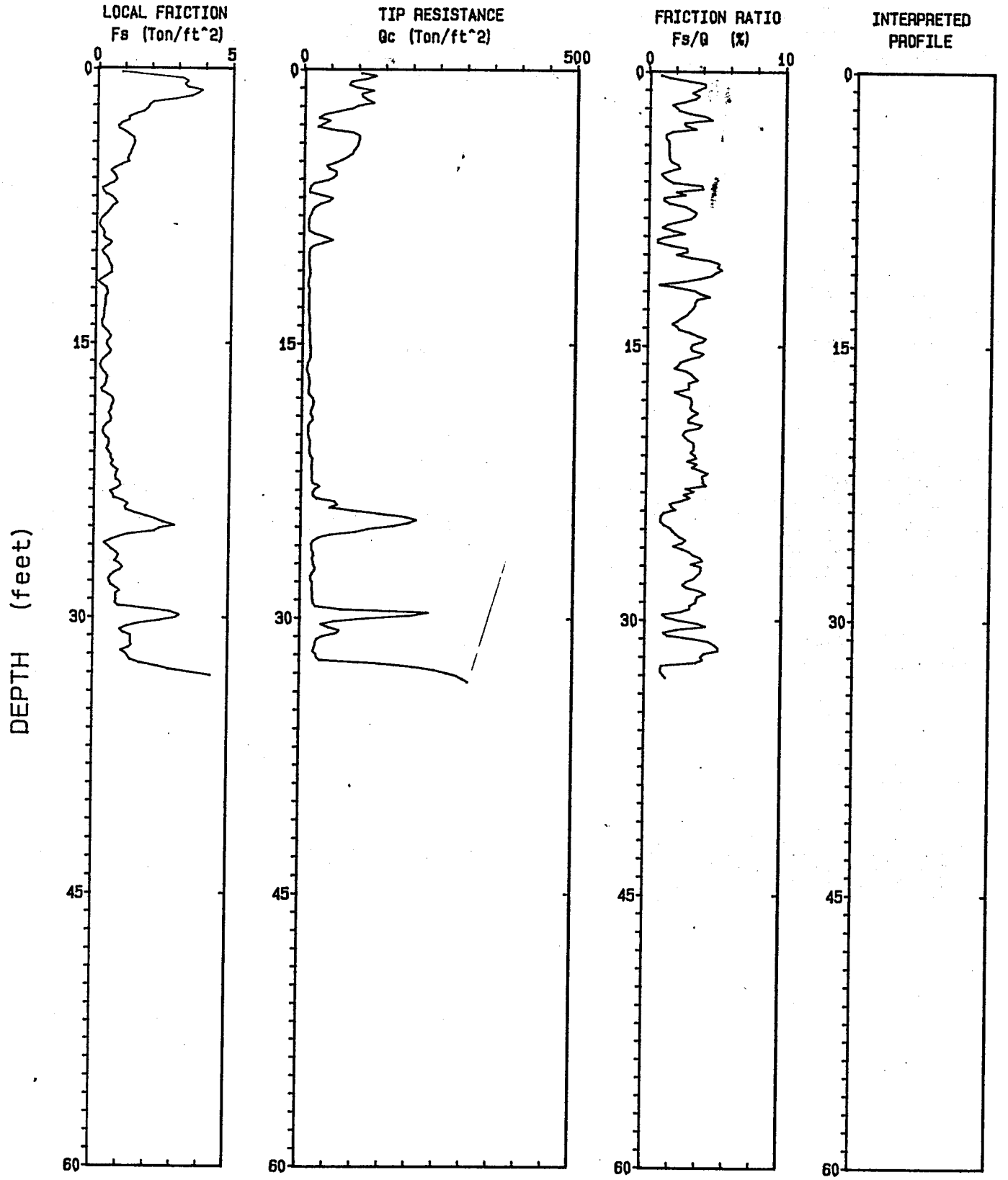
Depth to Caving: 5.2

Remarks: Quit for Qc > 310

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-066 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-16-00 08:24
Location : CPT-6
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 33.46 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-6
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 08:24
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	101.24	2.50	2.47	0.02	silty sand to sandy silt	)90	)48	32	UNDEFINE
0.50	1.64	108.21	3.43	3.17	0.07	sandy silt to clayey silt	UNDFND	UNDFD	41	10.
0.75	2.46	79.20	1.73	2.19	0.12	silty sand to sandy silt	)90	)48	25	UNDEFINE
1.00	3.28	34.19	0.91	2.66	0.17	sandy silt to clayey silt	UNDFND	UNDFD	13	3.
1.25	4.10	97.05	1.23	1.26	0.22	sand to silty sand	80-90	46-48	23	UNDEFINE
1.50	4.92	82.73	1.17	1.42	0.27	silty sand to sandy silt	70-80	44-46	26	UNDEFINE
1.75	5.74	50.62	0.73	1.44	0.32	silty sand to sandy silt	60-70	42-44	16	UNDEFINE
2.00	6.56	24.98	0.49	1.98	0.37	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
2.25	7.38	32.30	0.49	1.51	0.42	sandy silt to clayey silt	UNDFND	UNDFD	12	3.1
2.50	8.20	11.60	0.36	3.12	0.47	silty clay to clay	UNDFND	UNDFD	7	1.1
2.75	9.02	9.64	0.15	1.54	0.52	clayey silt to silty clay	UNDFND	UNDFD	5	.9
3.00	9.84	30.24	0.36	1.18	0.57	silty sand to sandy silt	40-50	36-38	10	UNDEFINE
3.25	10.66	8.59	0.35	4.03	0.62	clay	UNDFND	UNDFD	8	.7
3.50	11.48	10.13	0.44	4.35	0.66	clay	UNDFND	UNDFD	10	.9
3.75	12.30	9.05	0.28	3.11	0.71	silty clay to clay	UNDFND	UNDFD	6	.8
4.00	13.12	9.11	0.30	3.32	0.76	clay	UNDFND	UNDFD	9	.8
4.25	13.94	10.68	0.24	2.23	0.81	clayey silt to silty clay	UNDFND	UNDFD	5	.9
4.50	14.76	11.70	0.41	3.54	0.86	silty clay to clay	UNDFND	UNDFD	7	1.0
4.75	15.58	12.95	0.46	3.53	0.91	silty clay to clay	UNDFND	UNDFD	8	1.2
5.00	16.40	8.97	0.22	2.50	0.96	silty clay to clay	UNDFND	UNDFD	6	.8
5.25	17.22	10.84	0.36	3.30	1.01	silty clay to clay	UNDFND	UNDFD	7	.9
5.50	18.04	12.85	0.37	2.91	1.06	silty clay to clay	UNDFND	UNDFD	8	1.1
5.75	18.86	17.59	0.59	3.35	1.11	silty clay to clay	UNDFND	UNDFD	11	1.6
6.00	19.69	14.34	0.47	3.30	1.16	silty clay to clay	UNDFND	UNDFD	9	1.3
6.25	20.51	12.56	0.39	3.14	1.21	silty clay to clay	UNDFND	UNDFD	8	1.1
6.50	21.33	15.38	0.52	3.36	1.25	silty clay to clay	UNDFND	UNDFD	10	1.4
6.75	22.15	18.33	0.72	3.94	1.30	silty clay to clay	UNDFND	UNDFD	12	1.7
7.00	22.97	23.23	0.86	3.71	1.35	silty clay to clay	UNDFND	UNDFD	15	2.1
7.25	23.79	40.09	0.86	2.15	1.40	sandy silt to clayey silt	UNDFND	UNDFD	15	3.8
7.50	24.61	139.60	1.61	1.16	1.45	sand to silty sand	70-80	40-42	33	UNDEFINED
7.75	25.43	127.26	2.29	1.80	1.50	silty sand to sandy silt	60-70	40-42	41	UNDEFINED
8.00	26.25	21.52	0.59	2.75	1.55	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
8.25	27.07	22.29	0.86	3.85	1.60	silty clay to clay	UNDFND	UNDFD	14	2.0
8.50	27.89	21.09	0.78	3.72	1.65	silty clay to clay	UNDFND	UNDFD	13	1.9
8.75	28.71	21.00	0.76	3.63	1.70	silty clay to clay	UNDFND	UNDFD	13	1.9
9.00	29.53	34.05	1.06	3.11	1.75	clayey silt to silty clay	UNDFND	UNDFD	16	3.2
9.25	30.35	131.90	2.65	2.01	1.80	silty sand to sandy silt	60-70	38-40	42	UNDEFINED
9.50	31.17	51.64	1.21	2.32	1.85	sandy silt to clayey silt	UNDFND	UNDFD	20	5.0

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) ****

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-6 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	25.91	1.27	4.89	1.89	clay	UNDFND	UNDFD	25	2.4
10.00	32.81	133.80	1.91	1.43	1.94	sand to silty sand	60-70	38-40	32	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-067	2-16-00	CPT-7
File	Date	Boring Numbe:
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9 / 10.:
Cone I.D.	Job Number	DIST - CO - RTE - I

3 Channel or 4 Channel or 5 Channel

1.33 m ~~Feet~~ Right or Left "A" Line Station 102+90

Surface Elevation: 6.433 m

Required Depth: 35

Depth of Sounding: 38.7'

Depth to Ground Water: DRY

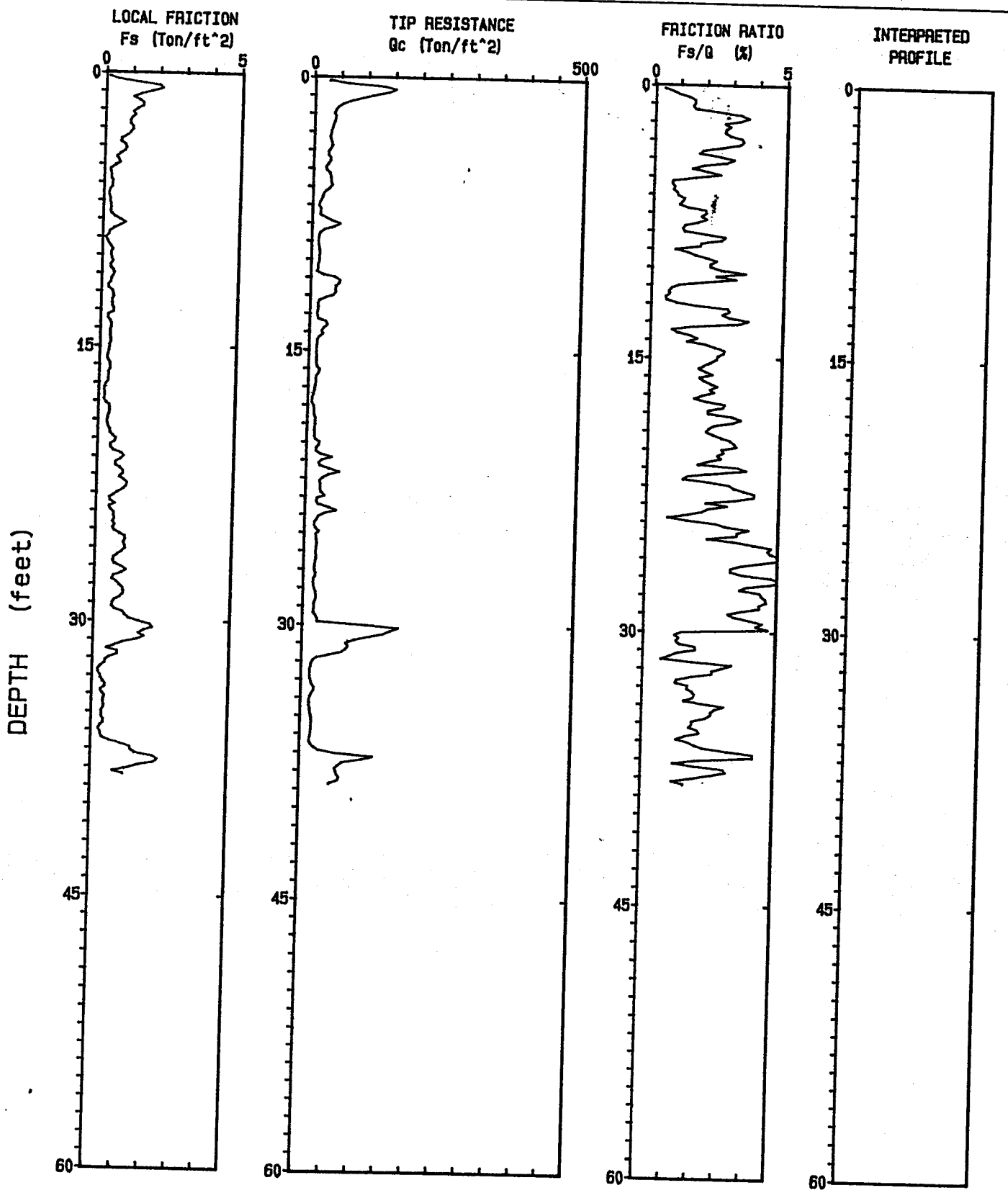
Depth to Caving: 11

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-067 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-16-00 09:00
Location : CPT-7
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 38.71 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-7
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 09:30
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	100.52	1.16	1.15	0.02	sand to silty sand	>90	>48	24	UNDEFINED
0.50	1.64	70.57	1.31	1.85	0.07	silty sand to sandy silt	>90	>48	23	UNDEFINED
0.75	2.46	36.62	1.10	3.01	0.12	clayey silt to silty clay	UNDFND	UNDFD	18	3.6
1.00	3.28	30.50	0.94	3.09	0.17	clayey silt to silty clay	UNDFND	UNDFD	15	3.0
1.25	4.10	30.24	0.69	2.29	0.22	sandy silt to clayey silt	UNDFND	UNDFD	12	3.0
1.50	4.92	26.85	0.56	2.07	0.27	sandy silt to clayey silt	UNDFND	UNDFD	10	2.6
1.75	5.74	30.23	0.26	0.85	0.32	silty sand to sandy silt	40-50	40-42	10	UNDEFINED
2.00	6.56	24.64	0.25	1.00	0.37	sandy silt to clayey silt	UNDFND	UNDFD	9	2.4
2.25	7.38	13.01	0.24	1.83	0.42	clayey silt to silty clay	UNDFND	UNDFD	6	1.2
2.50	8.20	33.44	0.48	1.42	0.47	sandy silt to clayey silt	UNDFND	UNDFD	13	3.2
2.75	9.02	14.43	0.31	2.12	0.52	clayey silt to silty clay	UNDFND	UNDFD	7	1.3
3.00	9.84	13.88	0.28	1.98	0.57	clayey silt to silty clay	UNDFND	UNDFD	7	1.3
3.25	10.66	12.05	0.33	2.78	0.62	silty clay to clay	UNDFND	UNDFD	8	1.1
3.50	11.48	43.81	0.38	0.87	0.66	silty sand to sandy silt	40-50	38-40	14	UNDEFINED
3.75	12.30	35.05	0.36	1.02	0.71	silty sand to sandy silt	40-50	36-38	11	UNDEFINED
4.00	13.12	13.50	0.43	3.16	0.76	silty clay to clay	UNDFND	UNDFD	9	1.2
4.25	13.94	25.33	0.32	1.27	0.81	sandy silt to clayey silt	UNDFND	UNDFD	10	2.4
4.50	14.76	16.53	0.36	2.20	0.86	clayey silt to silty clay	UNDFND	UNDFD	8	1.5
4.75	15.58	13.43	0.30	2.26	0.91	clayey silt to silty clay	UNDFND	UNDFD	6	1.2
5.00	16.40	16.42	0.35	2.14	0.96	clayey silt to silty clay	UNDFND	UNDFD	8	1.5
5.25	17.22	12.10	0.27	2.25	1.01	clayey silt to silty clay	UNDFND	UNDFD	6	1.1
5.50	18.04	8.19	0.20	2.45	1.06	silty clay to clay	UNDFND	UNDFD	5	.7
5.75	18.86	12.93	0.37	2.90	1.11	silty clay to clay	UNDFND	UNDFD	8	1.1
6.00	19.69	13.44	0.37	2.78	1.16	clayey silt to silty clay	UNDFND	UNDFD	6	1.2
6.25	20.51	19.03	0.55	2.90	1.21	clayey silt to silty clay	UNDFND	UNDFD	9	1.7
6.50	21.33	29.66	0.79	2.67	1.25	sandy silt to clayey silt	UNDFND	UNDFD	11	2.8
6.75	22.15	40.18	0.84	2.10	1.30	sandy silt to clayey silt	UNDFND	UNDFD	15	3.8
7.00	22.97	29.00	0.99	3.43	1.35	clayey silt to silty clay	UNDFND	UNDFD	14	2.7
7.25	23.79	33.28	0.55	1.64	1.40	sandy silt to clayey silt	UNDFND	UNDFD	13	3.1
7.50	24.61	22.93	0.62	2.72	1.45	clayey silt to silty clay	UNDFND	UNDFD	11	2.1
7.75	25.43	22.36	0.80	3.57	1.50	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
8.00	26.25	21.99	1.06	4.80	1.55	clay	UNDFND	UNDFD	21	2.0
8.25	27.07	20.59	0.76	3.71	1.60	silty clay to clay	UNDFND	UNDFD	13	1.8
8.50	27.89	19.23	0.85	4.43	1.65	clay	UNDFND	UNDFD	18	1.7
8.75	28.71	22.36	1.00	4.48	1.70	clay	UNDFND	UNDFD	21	2.0
9.00	29.53	20.47	0.77	3.78	1.75	silty clay to clay	UNDFND	UNDFD	13	1.8
9.25	30.35	102.12	1.67	1.64	1.80	silty sand to sandy silt	50-60	38-40	33	UNDEFINED
9.50	31.17	105.48	1.59	1.51	1.65	sand to silty sand	50-60	38-40	25	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (V 3.04) ****

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-7 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	46.84	0.72	1.48	1.89	silty sand to sandy silt	(40	32-34	16	UNDEFINED
10.00	32.81	15.56	0.30	1.94	1.94	clayey silt to silty clay	UNDFND	UNDFD	7	1.3
10.25	33.63	20.27	0.38	1.87	1.99	sandy silt to clayey silt	UNDFND	UNDFD	8	1.0
10.50	34.45	15.97	0.39	2.43	2.04	clayey silt to silty clay	UNDFND	UNDFD	6	1.3
10.75	35.27	18.59	0.39	2.10	2.09	clayey silt to silty clay	UNDFND	UNDFD	5	1.6
11.00	36.09	19.45	0.35	1.82	2.14	sandy silt to clayey silt	UNDFND	UNDFD	7	1.7
11.25	36.91	22.67	0.79	3.47	2.19	clayey silt to silty clay	UNDFND	UNDFD	11	2.0
11.50	37.73	93.44	2.04	2.18	2.24	silty sand to sandy silt	50-60	36-38	30	UNDEFINED
11.75	38.55	69.07	-6552.58	-9486.87	2.29	undefined	UNDFND	UNDFD	UDF	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-068	2-16-00	CPT-8
File	Date	Boring Numbe
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 191
Cone I.D.	Job Number	DIST - CO - RTE - I

3 Channel or 4 Channel or 5 Channel

3.0m ~~Feet~~ Right or Left "A" Line Station 94+73

Surface Elevation: 8.659m

Required Depth: 30

Depth of Sounding: 32.15

Depth to Ground Water: 8.

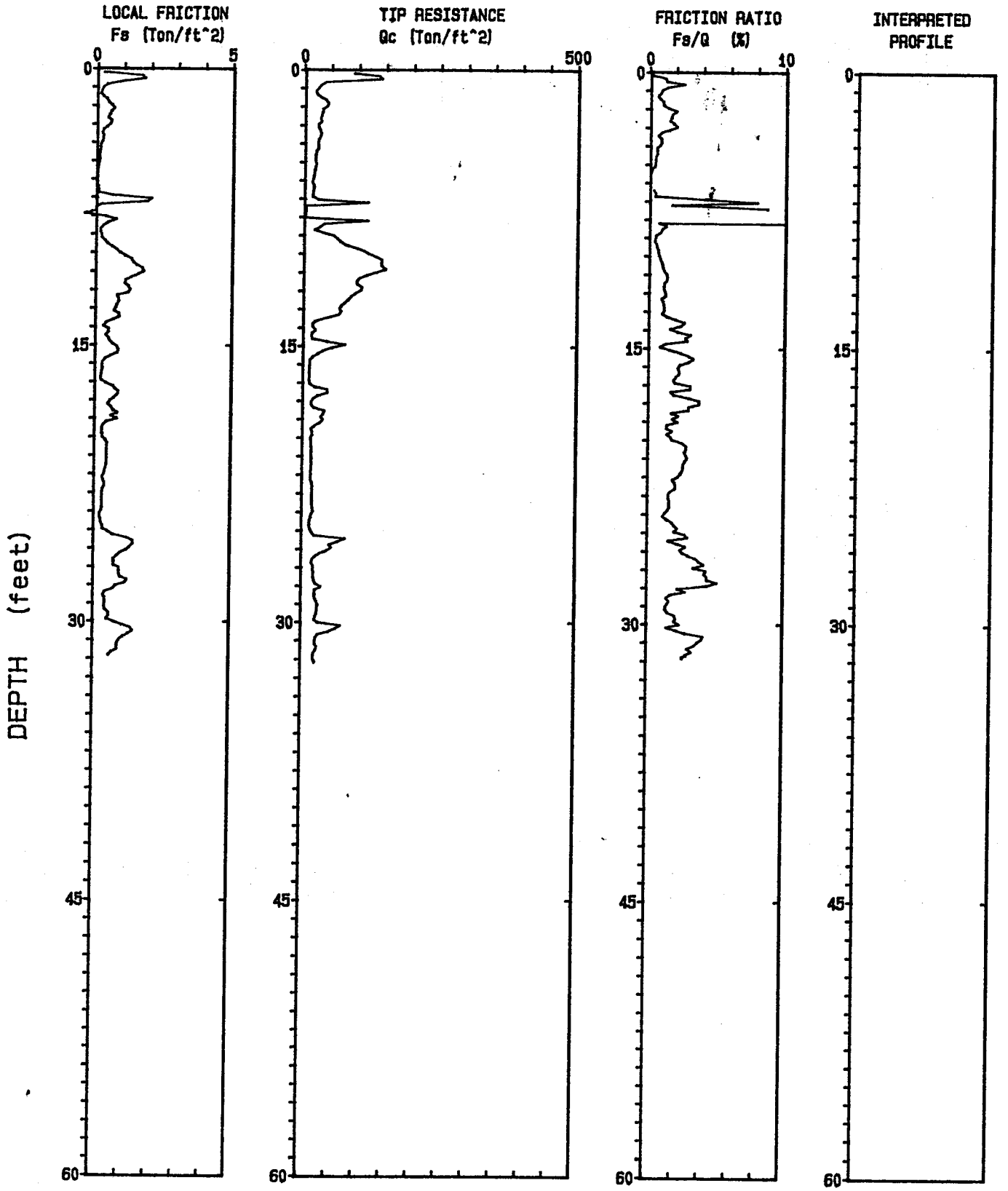
Depth to Caving: 8.0

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-068 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-16-00 09:37
Location : CPT-8
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 32.15 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-8
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 09:37
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	86.24	0.98	1.13	0.02	sand to silty sand	)90	)48	21	UNDEFINE
0.50	1.64	24.94	0.20	0.78	0.07	silty sand to sandy silt	60-70	46-48	8	UNDEFINE
0.75	2.46	34.49	0.50	1.45	0.12	sandy silt to clayey silt	UNDFND	UNDFD	13	3.
1.00	3.28	26.31	0.39	1.46	0.17	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
1.25	4.10	25.15	0.17	0.68	0.22	silty sand to sandy silt	40-50	40-42	8	UNDEFINE
1.50	4.92	19.36	0.08	0.42	0.27	silty sand to sandy silt	(40	38-40	6	UNDEFINE
1.75	5.74	17.29	0.02	0.09	0.32	silty sand to sandy silt	(40	38-40	6	UNDEFINE
2.00	6.56	14.54	0.02	0.12	0.37	sandy silt to clayey silt	UNDFND	UNDFD	6	1.
2.25	7.38	34.71	0.93	2.69	0.42	sandy silt to clayey silt	UNDFND	UNDFD	13	3.
2.50	8.20	24.43	0.11	0.44	0.47	silty sand to sandy silt	(40	36-38	8	UNDEFINE
2.75	9.02	34.05	0.24	0.69	0.52	silty sand to sandy silt	40-50	38-40	11	UNDEFINE
3.00	9.84	82.16	0.47	0.57	0.57	sand to silty sand	60-70	42-44	20	UNDEFINE
3.25	10.66	136.86	1.24	0.91	0.62	sand to silty sand	80-90	44-46	33	UNDEFINE
3.50	11.48	119.24	1.48	1.24	0.66	sand to silty sand	70-80	42-44	29	UNDEFINE
3.75	12.30	97.54	1.09	1.12	0.71	sand to silty sand	70-80	42-44	23	UNDEFINE
4.00	13.12	71.33	0.76	1.07	0.76	sand to silty sand	60-70	40-42	17	UNDEFINE
4.25	13.94	32.59	0.60	1.83	0.81	sandy silt to clayey silt	UNDFND	UNDFD	12	3.1
4.50	14.76	22.13	0.47	2.12	0.86	sandy silt to clayey silt	UNDFND	UNDFD	8	2.1
4.75	15.58	41.71	0.73	1.75	0.91	sandy silt to clayey silt	UNDFND	UNDFD	16	4.0
5.00	16.40	10.80	0.26	2.41	0.96	silty clay to clay	UNDFND	UNDFD	7	.9
5.25	17.22	12.90	0.33	2.55	1.01	clayey silt to silty clay	UNDFND	UNDFD	6	1.1
5.50	18.04	29.89	0.73	2.44	1.06	sandy silt to clayey silt	UNDFND	UNDFD	11	2.8
5.75	18.86	29.22	0.63	2.16	1.11	sandy silt to clayey silt	UNDFND	UNDFD	11	2.8
6.00	19.69	24.18	0.40	1.66	1.16	sandy silt to clayey silt	UNDFND	UNDFD	9	2.3
6.25	20.51	15.80	0.37	2.36	1.21	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
6.50	21.33	16.11	0.45	2.77	1.25	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
6.75	22.15	15.68	0.37	2.34	1.30	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
7.00	22.97	17.87	0.33	1.85	1.35	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
7.25	23.79	18.32	0.29	1.56	1.40	sandy silt to clayey silt	UNDFND	UNDFD	7	1.6
7.50	24.61	15.79	0.24	1.49	1.45	sandy silt to clayey silt	UNDFND	UNDFD	6	1.4
7.75	25.43	30.58	0.63	2.02	1.50	sandy silt to clayey silt	UNDFND	UNDFD	12	2.9
8.00	26.25	49.81	1.29	2.59	1.55	sandy silt to clayey silt	UNDFND	UNDFD	19	4.8
8.25	27.07	20.63	0.81	3.91	1.60	silty clay to clay	UNDFND	UNDFD	13	1.9
8.50	27.89	23.18	1.06	4.58	1.65	clay	UNDFND	UNDFD	22	2.1
8.75	28.71	26.98	0.53	1.98	1.70	sandy silt to clayey silt	UNDFND	UNDFD	10	2.5
9.00	29.53	28.85	0.45	1.57	1.75	sandy silt to clayey silt	UNDFND	UNDFD	11	2.7
9.25	30.35	43.72	0.85	1.94	1.80	sandy silt to clayey silt	UNDFND	UNDFD	17	4.1
9.50	31.17	31.97	1.15	3.59	1.85	clayey silt to silty clay	UNDFND	UNDFD	15	3.0

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.24) ***

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-8 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su ts
9.75	31.99	24.99	-6552.99	-26220.35	1.89	undefined	UNDFND	UNDFD	UDF	UNDEFI

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04)

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-069	2-16-00	CPT-9
File	Date	Boring Number
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/1
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

4.4 m ~~Feet~~ Right or Left "A" Line Station 86.87

Surface Elevation: 9.657 m

Required Depth: 30

Depth of Sounding: 32.32

Depth to Ground Water: DRY

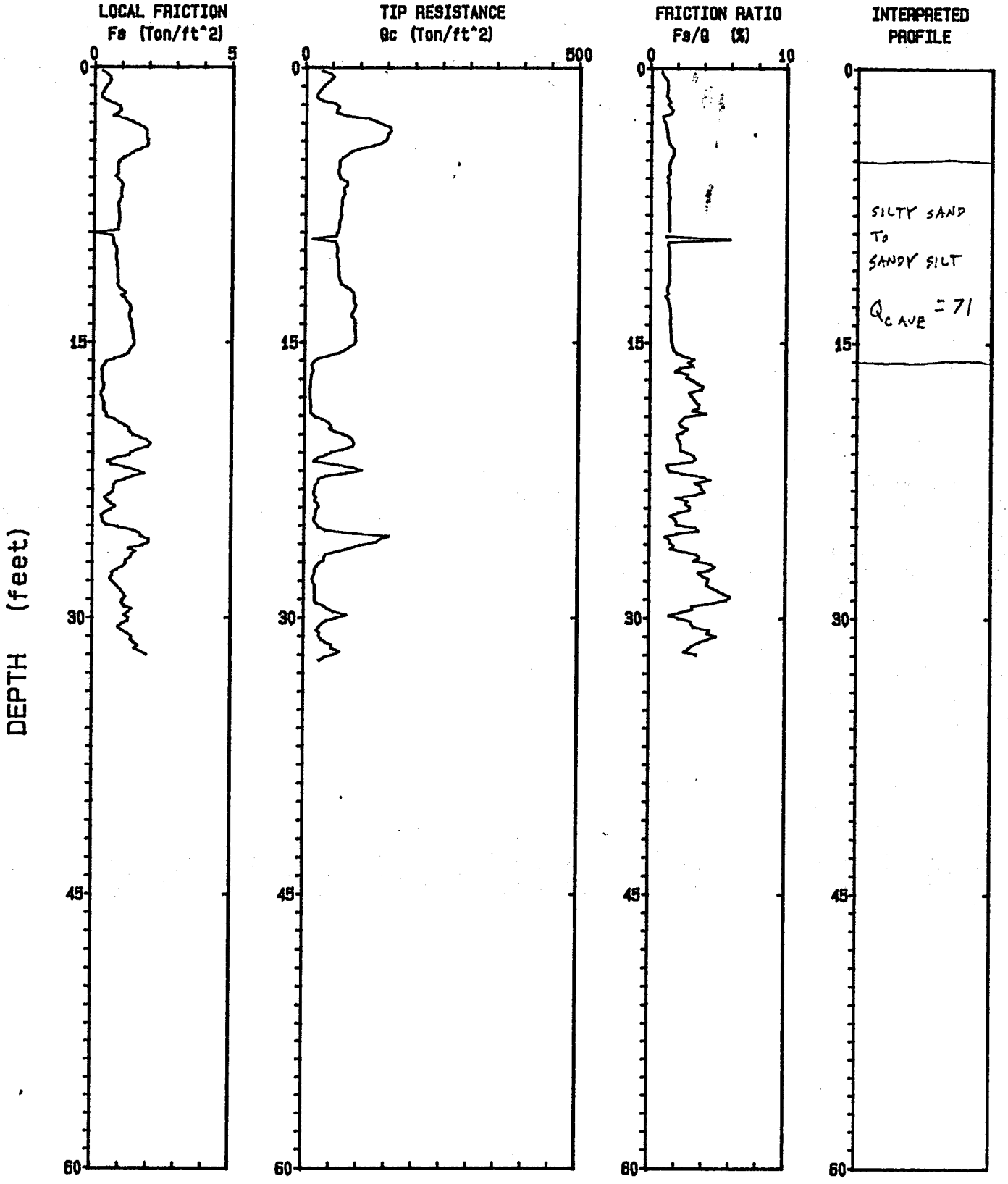
Depth to Caving: 4.1

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-069 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-16-00 11:15
Location : CPT-9
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 32.32 ft

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-9
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 11:13
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	43.27	0.47	1.09	0.02	silty sand to sandy silt	>90	>48	14	UNDEFINED
0.50	1.64	25.23	0.32	1.26	0.07	sandy silt to clayey silt	UNDFND	UNDFD	10	2.5
0.75	2.46	52.78	0.79	1.49	0.12	silty sand to sandy silt	70-80	46-48	17	UNDEFINED
1.00	3.28	123.98	1.33	1.07	0.17	sand to silty sand	>90	>48	30	UNDEFINED
1.25	4.10	147.99	1.92	1.30	0.22	sand to silty sand	>90	>48	35	UNDEFINED
1.50	4.92	88.54	1.46	1.65	0.27	silty sand to sandy silt	80-90	46-48	28	UNDEFINED
1.75	5.74	60.43	0.86	1.42	0.32	silty sand to sandy silt	60-70	42-44	19	UNDEFINED
2.00	6.56	69.49	0.92	1.33	0.37	silty sand to sandy silt	70-80	42-44	22	UNDEFINED
2.25	7.38	68.19	0.95	1.39	0.42	silty sand to sandy silt	60-70	42-44	22	UNDEFINED
2.50	8.20	64.33	0.90	1.40	0.47	silty sand to sandy silt	60-70	42-44	21	UNDEFINED
2.75	9.02	60.41	0.70	1.16	0.52	silty sand to sandy silt	60-70	40-42	19	UNDEFINED
3.00	9.84	48.15	0.72	1.50	0.57	silty sand to sandy silt	50-60	40-42	15	UNDEFINED
3.25	10.66	59.63	0.83	1.38	0.62	silty sand to sandy silt	50-60	40-42	19	UNDEFINED
3.50	11.48	62.47	0.87	1.39	0.66	silty sand to sandy silt	50-60	40-42	20	UNDEFINED
3.75	12.30	76.26	0.97	1.28	0.71	silty sand to sandy silt	60-70	40-42	24	UNDEFINED
4.00	13.12	91.29	1.21	1.33	0.76	sand to silty sand	60-70	40-42	22	UNDEFINED
4.25	13.94	89.61	1.33	1.49	0.81	silty sand to sandy silt	60-70	40-42	29	UNDEFINED
4.50	14.76	93.04	1.42	1.53	0.86	silty sand to sandy silt	60-70	40-42	30	UNDEFINED
4.75	15.58	81.01	1.39	1.72	0.91	silty sand to sandy silt	60-70	40-42	26	UNDEFINED
5.00	16.40	21.11	0.58	2.77	0.96	clayey silt to silty clay	UNDFND	UNDFD	10	2.0
5.25	17.22	11.58	0.32	2.75	1.01	silty clay to clay	UNDFND	UNDFD	7	1.0
5.50	18.04	9.17	0.32	3.44	1.06	clay	UNDFND	UNDFD	5	.8
5.75	18.86	10.77	0.39	3.65	1.11	clay	UNDFND	UNDFD	10	.9
6.00	19.69	38.13	0.94	2.46	1.16	sandy silt to clayey silt	UNDFND	UNDFD	15	3.6
6.25	20.51	78.73	1.72	2.18	1.21	silty sand to sandy silt	50-60	38-40	25	UNDEFINED
6.50	21.33	54.00	1.41	2.62	1.25	sandy silt to clayey silt	UNDFND	UNDFD	21	5.2
6.75	22.15	67.63	1.15	1.70	1.30	silty sand to sandy silt	50-60	36-38	22	UNDEFINED
7.00	22.97	24.72	0.97	3.93	1.35	silty clay to clay	UNDFND	UNDFD	16	2.3
7.25	23.79	19.56	0.57	2.91	1.40	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
7.50	24.61	21.29	0.50	2.36	1.45	clayey silt to silty clay	UNDFND	UNDFD	10	1.9
7.75	25.43	38.89	1.00	2.56	1.50	sandy silt to clayey silt	UNDFND	UNDFD	15	3.7
8.00	26.25	122.18	1.79	1.46	1.55	sand to silty sand	60-70	38-40	29	UNDEFINED
8.25	27.07	39.83	1.34	3.36	1.60	clayey silt to silty clay	UNDFND	UNDFD	19	3.8
8.50	27.89	18.19	0.78	4.31	1.65	clay	UNDFND	UNDFD	17	1.6
8.75	28.71	19.25	0.93	4.84	1.70	clay	UNDFND	UNDFD	18	1.7
9.00	29.53	28.25	1.18	4.19	1.75	silty clay to clay	UNDFND	UNDFD	18	2.6
9.25	30.35	53.74	1.22	2.27	1.80	sandy silt to clayey silt	UNDFND	UNDFD	21	5.1
9.50	31.17	28.20	1.21	4.31	1.85	silty clay to clay	UNDFND	UNDFD	16	2.6

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.34) **

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-9 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	53.91	1.68	3.12	1.89	sandy silt to clayey silt	UNDFND	UNDFD	21	3.

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-070	2-16-00	CPT-10
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.8/10.
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

2.9 m ~~Feet~~ Right or Left "A" Line Station 78+94

Surface Elevation: 10.708 m

Required Depth: 30

Depth of Sounding: 31.66

Depth to Ground Water: DRY

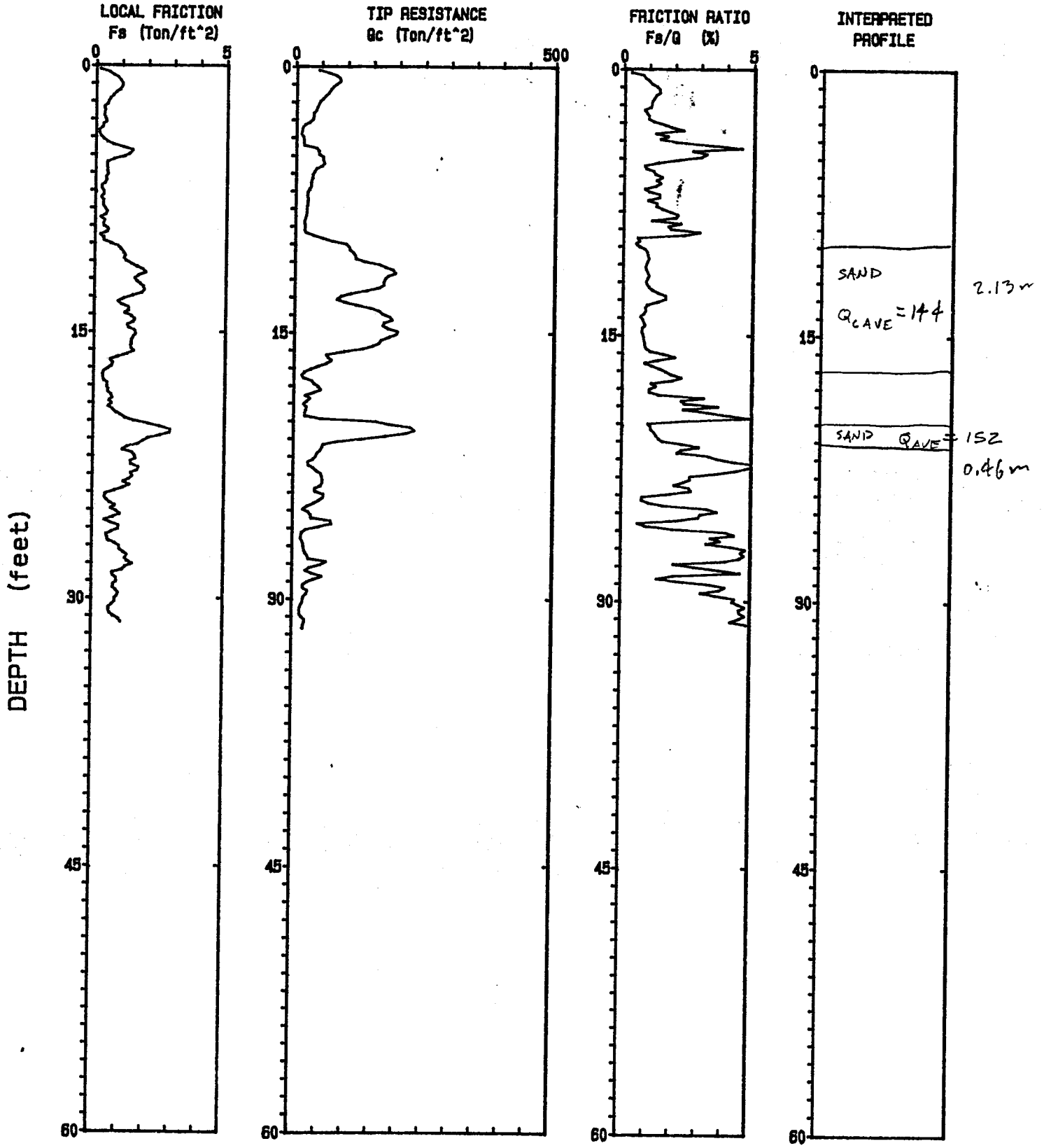
Depth to Caving: 2.0

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-070 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-16-00 12:00
Location : CPT-10
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 31.66 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-10
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 12:00
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	70.47	0.60	0.85	0.02	sand to silty sand	)90	)48	17	UNDEFINE
0.50	1.64	65.27	0.84	1.29	0.07	silty sand to sandy silt	)90	)48	21	UNDEFINE
0.75	2.46	41.99	0.40	0.96	0.12	silty sand to sandy silt	70-80	46-48	13	UNDEFINE
1.00	3.28	26.28	0.32	1.21	0.17	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
1.25	4.10	10.42	0.18	1.75	0.22	clayey silt to silty clay	UNDFND	UNDFD	5	1.
1.50	4.92	30.99	0.97	3.13	0.27	clayey silt to silty clay	UNDFND	UNDFD	15	3.
1.75	5.74	49.45	0.61	1.24	0.32	silty sand to sandy silt	60-70	42-44	16	UNDEFINE
2.00	6.56	30.98	0.41	1.32	0.37	sandy silt to clayey silt	UNDFND	UNDFD	12	3.
2.25	7.38	23.75	0.25	1.06	0.42	sandy silt to clayey silt	UNDFND	UNDFD	9	2.
2.50	8.20	21.34	0.34	1.59	0.47	sandy silt to clayey silt	UNDFND	UNDFD	8	2.
2.75	9.02	17.48	0.31	1.78	0.52	sandy silt to clayey silt	UNDFND	UNDFD	7	1.
3.00	9.84	39.08	0.36	0.91	0.57	silty sand to sandy silt	40-50	38-40	12	UNDEFINE
3.25	10.66	108.03	0.95	0.88	0.62	sand to silty sand	70-80	42-44	26	UNDEFINE
3.50	11.48	156.44	1.43	0.91	0.66	sand	80-90	44-46	30	UNDEFINE
3.75	12.30	177.66	1.69	0.95	0.71	sand	80-90	44-46	34	UNDEFINE
4.00	13.12	114.58	1.62	1.41	0.76	sand to silty sand	70-80	42-44	27	UNDEFINE
4.25	13.94	138.90	1.12	0.81	0.81	sand	70-80	42-44	27	UNDEFINE
4.50	14.76	179.04	1.40	0.78	0.86	sand	80-90	44-46	34	UNDEFINE
4.75	15.58	180.81	1.49	0.82	0.91	sand	80-90	44-46	35	UNDEFINED
5.00	16.40	99.79	1.29	1.29	0.96	sand to silty sand	60-70	40-42	24	UNDEFINE
5.25	17.22	45.35	0.57	1.26	1.01	silty sand to sandy silt	40-50	36-38	14	UNDEFINED
5.50	18.04	30.64	0.41	1.35	1.06	sandy silt to clayey silt	UNDFND	UNDFD	12	2.9
5.75	18.86	33.36	0.61	1.84	1.11	sandy silt to clayey silt	UNDFND	UNDFD	13	3.2
6.00	19.69	21.15	0.77	3.66	1.16	silty clay to clay	UNDFND	UNDFD	14	1.9
6.25	20.51	170.75	2.07	1.21	1.21	sand to silty sand	70-80	42-44	41	UNDEFINED
6.50	21.33	131.84	2.21	1.68	1.25	sand to silty sand	70-80	40-42	32	UNDEFINE
6.75	22.15	45.69	1.40	3.06	1.30	sandy silt to clayey silt	UNDFND	UNDFD	18	4.4
7.00	22.97	38.81	1.53	3.95	1.35	clayey silt to silty clay	UNDFND	UNDFD	19	3.7
7.25	23.79	52.88	1.30	2.46	1.40	sandy silt to clayey silt	UNDFND	UNDFD	20	5.1
7.50	24.61	50.08	0.58	1.15	1.45	silty sand to sandy silt	40-50	34-36	16	UNDEFINED
7.75	25.43	29.07	0.86	2.96	1.50	clayey silt to silty clay	UNDFND	UNDFD	14	2.7
8.00	26.25	48.20	0.77	1.61	1.55	silty sand to sandy silt	(40	34-36	15	UNDEFINED
8.25	27.07	18.13	0.73	4.00	1.60	silty clay to clay	UNDFND	UNDFD	12	1.6
8.50	27.69	34.80	1.23	3.53	1.65	clayey silt to silty clay	UNDFND	UNDFD	17	3.3
8.75	28.71	41.65	1.10	2.64	1.70	sandy silt to clayey silt	UNDFND	UNDFD	16	3.9
9.00	29.53	28.02	0.88	3.13	1.75	clayey silt to silty clay	UNDFND	UNDFD	13	2.6
9.25	30.35	20.83	0.90	4.31	1.80	clay	UNDFND	UNDFD	20	1.9
9.50	31.17	16.83	0.76	4.53	1.85	clay	UNDFND	UNDFD	16	1.4

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.24) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-071	2-16-00	CPT-11
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10.5
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

29.9 m ~~Feet~~ Right or Left "A" Line Station 70+72

Surface Elevation: 10.652 m

Required Depth: ~~30~~ 60

Depth of Sounding: 63.65

Depth to Ground Water: Dry

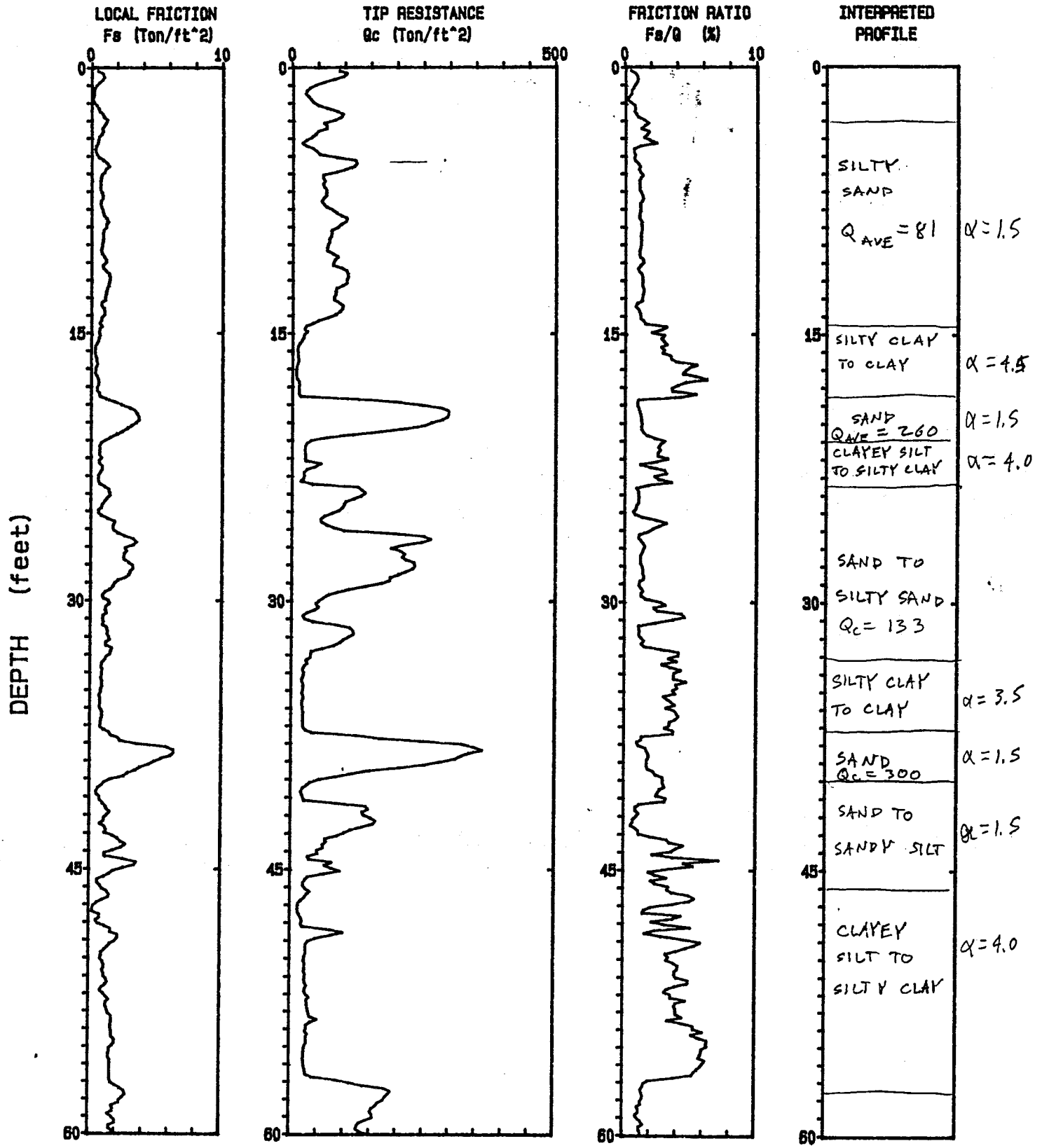
Depth to Caving: 5.7

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-071 Pg 1 / 2
Cone Used : 369 TC

CPT Date : 02-16-00 12:35
Location : CPT-11
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 63.65 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-11
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-16-00 12:35
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	85.48	0.72	0.85	0.02	sand to silty sand	)90	)48	20	UNDEFINE
0.50	1.64	30.23	0.16	0.54	0.07	silty sand to sandy silt	60-70	46-48	10	UNDEFINE
0.75	2.46	53.80	0.34	0.63	0.12	sand to silty sand	70-80	46-48	13	UNDEFINEI
1.00	3.28	77.54	1.00	1.29	0.17	silty sand to sandy silt	80-90	46-48	25	UNDEFINE
1.25	4.10	42.09	0.66	1.57	0.22	silty sand to sandy silt	60-70	42-44	13	UNDEFINEI
1.50	4.92	35.71	0.32	0.91	0.27	silty sand to sandy silt	50-60	42-44	11	UNDEFINE
1.75	5.74	108.48	1.01	0.93	0.32	sand to silty sand	80-90	46-48	26	UNDEFINEI
2.00	6.56	62.45	0.74	1.18	0.37	silty sand to sandy silt	60-70	42-44	20	UNDEFINE
2.25	7.38	61.30	0.75	1.23	0.42	silty sand to sandy silt	60-70	42-44	20	UNDEFINEI
2.50	8.20	66.76	0.76	1.14	0.47	silty sand to sandy silt	60-70	42-44	21	UNDEFINEI
2.75	9.02	94.09	1.13	1.20	0.52	sand to silty sand	70-80	42-44	23	UNDEFINEI
3.00	9.84	71.09	0.86	1.21	0.57	silty sand to sandy silt	60-70	40-42	23	UNDEFINEI
3.25	10.66	71.32	0.81	1.13	0.62	silty sand to sandy silt	60-70	40-42	23	UNDEFINEI
3.50	11.48	85.58	1.02	1.19	0.66	sand to silty sand	60-70	42-44	20	UNDEFINEI
3.75	12.30	101.95	1.36	1.33	0.71	sand to silty sand	70-80	42-44	24	UNDEFINEI
4.00	13.12	80.28	1.10	1.37	0.76	silty sand to sandy silt	60-70	40-42	26	UNDEFINEI
4.25	13.94	89.54	0.89	1.00	0.81	sand to silty sand	60-70	40-42	21	UNDEFINEI
4.50	14.76	39.95	0.70	1.75	0.86	sandy silt to clayey silt	UNDFND	UNDFD	15	3.9
4.75	15.58	19.20	0.52	2.73	0.91	clayey silt to silty clay	UNDFND	UNDFD	9	1.6
5.00	16.40	9.27	0.29	3.18	0.96	silty clay to clay	UNDFND	UNDFD	6	.8
5.25	17.22	7.49	0.35	4.66	1.01	clay	UNDFND	UNDFD	7	.6
5.50	18.04	10.53	0.48	4.59	1.06	clay	UNDFND	UNDFD	10	.9
5.75	18.86	73.37	0.95	1.29	1.11	silty sand to sandy silt	50-60	38-40	23	UNDEFINED
6.00	19.69	283.53	3.21	1.13	1.16	sand	)90	44-46	)50	UNDEFINEI
6.25	20.51	235.49	3.07	1.30	1.21	sand	80-90	42-44	45	UNDEFINED
6.50	21.33	52.31	1.16	2.21	1.25	sandy silt to clayey silt	UNDFND	UNDFD	20	5.1
6.75	22.15	24.23	0.65	2.70	1.30	clayey silt to silty clay	UNDFND	UNDFD	12	2.2
7.00	22.97	34.27	0.71	2.08	1.35	sandy silt to clayey silt	UNDFND	UNDFD	13	3.2
7.25	23.79	66.94	0.85	1.27	1.40	silty sand to sandy silt	50-60	36-38	21	UNDEFINED
7.50	24.61	117.25	1.19	1.02	1.45	sand to silty sand	60-70	40-42	28	UNDEFINEI
7.75	25.43	74.61	0.80	1.08	1.50	sand to silty sand	50-60	36-38	18	UNDEFINED
8.00	26.25	98.89	1.83	1.86	1.55	silty sand to sandy silt	60-70	38-40	32	UNDEFINED
8.25	27.07	231.44	3.06	1.32	1.60	sand	80-90	42-44	44	UNDEFINED
8.50	27.89	215.68	2.67	1.24	1.65	sand	80-90	42-44	41	UNDEFINED
8.75	28.71	212.81	3.03	1.42	1.70	sand to silty sand	80-90	40-42	)50	UNDEFINED
9.00	29.53	136.67	1.64	1.20	1.75	sand to silty sand	60-70	38-40	33	UNDEFINED
9.25	30.35	54.42	1.17	2.16	1.80	sandy silt to clayey silt	UNDFND	UNDFD	21	5.2
9.50	31.17	31.60	1.04	3.28	1.85	clayey silt to silty clay	UNDFND	UNDFD	15	2.9

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-11 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	108.75	1.24	1.14	1.89	sand to silty sand	50-60	38-40	26	UNDEFINED
10.00	32.81	73.05	1.42	1.95	1.94	silty sand to sandy silt	40-50	36-38	23	UNDEFINED
10.25	33.63	30.25	1.09	3.60	1.99	clayey silt to silty clay	UNDFND	UNDFD	14	2.6
10.50	34.45	21.20	0.87	4.08	2.04	silty clay to clay	UNDFND	UNDFD	14	1.9
10.75	35.27	21.50	0.80	3.74	2.09	silty clay to clay	UNDFND	UNDFD	14	1.9
11.00	36.09	21.07	0.75	3.57	2.14	silty clay to clay	UNDFND	UNDFD	13	1.8
11.25	36.91	22.33	0.85	3.82	2.19	silty clay to clay	UNDFND	UNDFD	14	2.0
11.50	37.73	77.23	1.41	1.83	2.24	silty sand to sandy silt	40-50	34-36	25	UNDEFINED
11.75	38.55	324.80	4.92	1.52	2.29	sand to silty sand	80-90	42-44	>50	UNDEFINED
12.00	39.37	274.73	4.95	1.80	2.34	sand to silty sand	80-90	40-42	>50	UNDEFINED
12.25	40.19	86.60	2.29	2.64	2.39	sandy silt to clayey silt	UNDFND	UNDFD	33	8.4
12.50	41.01	22.32	0.64	2.88	2.44	clayey silt to silty clay	UNDFND	UNDFD	11	1.9
12.75	41.83	108.03	1.18	1.09	2.48	sand to silty sand	50-60	36-38	26	UNDEFINED
13.00	42.65	149.11	1.09	0.73	2.53	sand	60-70	38-40	29	UNDEFINED
13.25	43.47	86.30	1.76	2.04	2.58	silty sand to sandy silt	40-50	34-36	28	UNDEFINED
13.50	44.29	51.04	1.89	3.69	2.63	clayey silt to silty clay	UNDFND	UNDFD	24	4.8
13.75	45.11	70.71	2.81	3.98	2.68	clayey silt to silty clay	UNDFND	UNDFD	34	6.8
14.00	45.93	34.05	0.92	2.69	2.73	sandy silt to clayey silt	UNDFND	UNDFD	13	3.1
14.25	46.75	28.50	1.27	4.45	2.78	silty clay to clay	UNDFND	UNDFD	18	2.5
14.50	47.57	14.78	0.41	2.77	2.83	clayey silt to silty clay	UNDFND	UNDFD	7	1.1
14.75	48.39	31.95	0.97	3.05	2.88	clayey silt to silty clay	UNDFND	UNDFD	15	2.9
15.00	49.21	57.72	1.93	3.34	2.93	clayey silt to silty clay	UNDFND	UNDFD	28	5.4
15.25	50.03	28.21	1.06	3.77	2.98	clayey silt to silty clay	UNDFND	UNDFD	14	2.5
15.50	50.85	27.62	1.11	4.02	3.03	silty clay to clay	UNDFND	UNDFD	18	2.4
15.75	51.67	28.97	1.23	4.25	3.08	silty clay to clay	UNDFND	UNDFD	19	2.5
16.00	52.49	32.15	1.25	3.87	3.12	clayey silt to silty clay	UNDFND	UNDFD	15	2.9
16.25	53.31	35.91	1.49	4.16	3.17	silty clay to clay	UNDFND	UNDFD	23	3.2
16.50	54.13	36.89	1.76	4.77	3.22	silty clay to clay	UNDFND	UNDFD	24	3.3
16.75	54.95	31.24	1.89	6.06	3.27	clay	UNDFND	UNDFD	30	2.7
17.00	55.77	26.50	1.60	6.02	3.32	clay	UNDFND	UNDFD	25	2.3
17.25	56.59	29.41	1.67	5.68	3.37	clay	UNDFND	UNDFD	28	2.6
17.50	57.41	114.32	1.96	1.71	3.42	silty sand to sandy silt	50-60	34-36	37	UNDEFINED
17.75	58.23	181.50	2.63	1.45	3.47	sand to silty sand	60-70	36-38	43	UNDEFINED
18.00	59.06	157.45	1.79	1.13	3.52	sand to silty sand	60-70	36-38	38	UNDEFINED
18.25	59.88	132.33	1.85	1.40	3.57	sand to silty sand	50-60	36-38	32	UNDEFINED
18.50	60.70	172.47	2.03	1.18	3.62	sand to silty sand	60-70	36-38	41	UNDEFINED
18.75	61.52	125.06	1.67	1.33	3.67	sand to silty sand	50-60	34-36	30	UNDEFINED
19.00	62.34	34.23	1.02	2.97	3.71	clayey silt to silty clay	UNDFND	UNDFD	16	3.0
19.25	63.16	85.85	1.68	1.96	3.76	silty sand to sandy silt	40-50	32-34	27	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) ****

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-072	2-17-00	CPT-12
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10
Cone I.D.	Job Number	DIST - CO - RTE - P.

(3 Channel) or 4 Channel or 5 Channel

64.5 m ~~Feet~~ Right or (Left) "A" Line Station 66+08

Surface Elevation: 9.492 m

Required Depth: 30

Depth of Sounding: 30.51

Depth to Ground Water: DRY

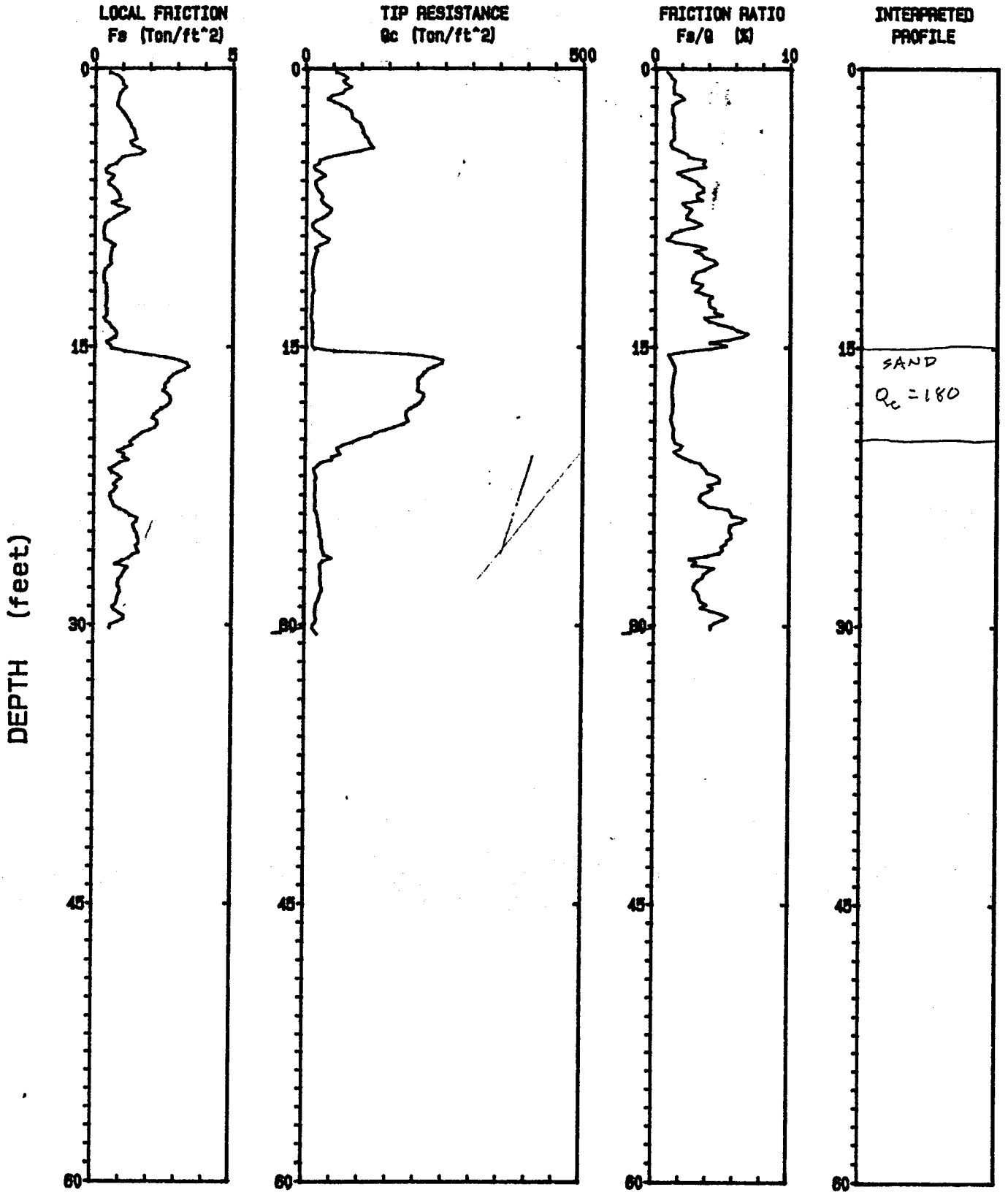
Depth to Caving: 6.0

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-072 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-17-00 08:05
Location : CPT-12
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 30.51 ft

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-12
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-17-00 08:[illegible]
Cone Used :369 TC
Water table (meters) : [illegible]

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	67.27	0.84	1.24	0.02	silty sand to sandy silt	)90	)48	21	UNDEFINED
0.50	1.64	59.56	0.92	1.55	0.07	silty sand to sandy silt	80-90	)48	19	UNDEFINED
0.75	2.46	69.78	0.89	1.28	0.12	silty sand to sandy silt	80-90	)48	22	UNDEFINED
1.00	3.28	94.66	1.26	1.33	0.17	sand to silty sand	)90	)48	23	UNDEFINED
1.25	4.10	109.97	1.40	1.27	0.22	sand to silty sand	)90	46-48	26	UNDEFINED
1.50	4.92	69.23	1.36	1.97	0.27	silty sand to sandy silt	70-80	44-46	22	UNDEFINED
1.75	5.74	21.85	0.53	2.44	0.32	clayey silt to silty clay	UNDFND	UNDFD	10	2.1
2.00	6.56	19.10	0.61	3.18	0.37	clayey silt to silty clay	UNDFND	UNDFD	9	1.8
2.25	7.38	30.11	0.82	2.72	0.42	sandy silt to clayey silt	UNDFND	UNDFD	12	2.9
2.50	8.20	34.00	0.86	2.52	0.47	sandy silt to clayey silt	UNDFND	UNDFD	13	3.3
2.75	9.02	18.34	0.32	1.73	0.52	sandy silt to clayey silt	UNDFND	UNDFD	7	1.7
3.00	9.84	27.96	0.56	2.00	0.57	sandy silt to clayey silt	UNDFND	UNDFD	11	2.7
3.25	10.66	13.58	0.55	4.02	0.62	clay	UNDFND	UNDFD	13	1.2
3.50	11.48	11.03	0.33	2.98	0.66	silty clay to clay	UNDFND	UNDFD	7	1.0
3.75	12.30	11.94	0.42	3.50	0.71	silty clay to clay	UNDFND	UNDFD	8	1.1
4.00	13.12	9.81	0.41	4.21	0.76	clay	UNDFND	UNDFD	9	.9
4.25	13.94	9.80	0.46	4.68	0.81	clay	UNDFND	UNDFD	9	.8
4.50	14.76	11.23	0.66	5.88	0.86	clay	UNDFND	UNDFD	11	1.0
4.75	15.58	99.02	1.34	1.35	0.91	sand to silty sand	60-70	40-42	24	UNDEFINED
5.00	16.40	230.86	3.22	1.40	0.96	sand to silty sand	)90	44-46	)50	UNDEFINED
5.25	17.22	203.18	2.65	1.30	1.01	sand to silty sand	80-90	44-46	49	UNDEFINED
5.50	18.04	207.21	2.66	1.28	1.06	sand	80-90	42-44	40	UNDEFINED
5.75	18.86	184.34	2.29	1.24	1.11	sand to silty sand	80-90	42-44	44	UNDEFINED
6.00	19.69	156.83	2.07	1.32	1.16	sand to silty sand	70-80	42-44	36	UNDEFINED
6.25	20.51	84.15	1.33	1.58	1.21	silty sand to sandy silt	50-60	38-40	27	UNDEFINED
6.50	21.33	48.32	1.02	2.10	1.25	sandy silt to clayey silt	UNDFND	UNDFD	19	4.7
6.75	22.15	17.77	0.75	4.23	1.30	clay	UNDFND	UNDFD	17	1.6
7.00	22.97	17.54	0.72	4.12	1.35	clay	UNDFND	UNDFD	17	1.6
7.25	23.79	17.54	0.70	4.02	1.40	silty clay to clay	UNDFND	UNDFD	11	1.6
7.50	24.61	22.94	1.40	6.10	1.45	clay	UNDFND	UNDFD	22	2.1
7.75	25.43	27.55	1.54	5.60	1.50	clay	UNDFND	UNDFD	26	2.6
8.00	26.25	32.18	1.55	4.81	1.55	clay	UNDFND	UNDFD	31	3.0
8.25	27.07	32.58	1.07	3.28	1.60	clayey silt to silty clay	UNDFND	UNDFD	16	3.0
8.50	27.89	28.46	0.93	3.27	1.65	clayey silt to silty clay	UNDFND	UNDFD	14	2.6
8.75	28.71	26.96	0.88	3.27	1.70	clayey silt to silty clay	UNDFND	UNDFD	13	2.5
9.00	29.53	19.06	0.84	4.42	1.75	clay	UNDFND	UNDFD	18	1.7
9.25	30.35	16.99	-6552.98	-38569.64	1.80	undefined	UNDFND	UNDFD	UDF	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-073	2-17	CPT-13
File	Date	Boring Number
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/1
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

60.4 m ~~Feet~~ Right or Left "A" Line Station 61+93

Surface Elevation: 10.43 m

Required Depth: 30

Depth of Sounding: 20.34

Depth to Ground Water: DRY

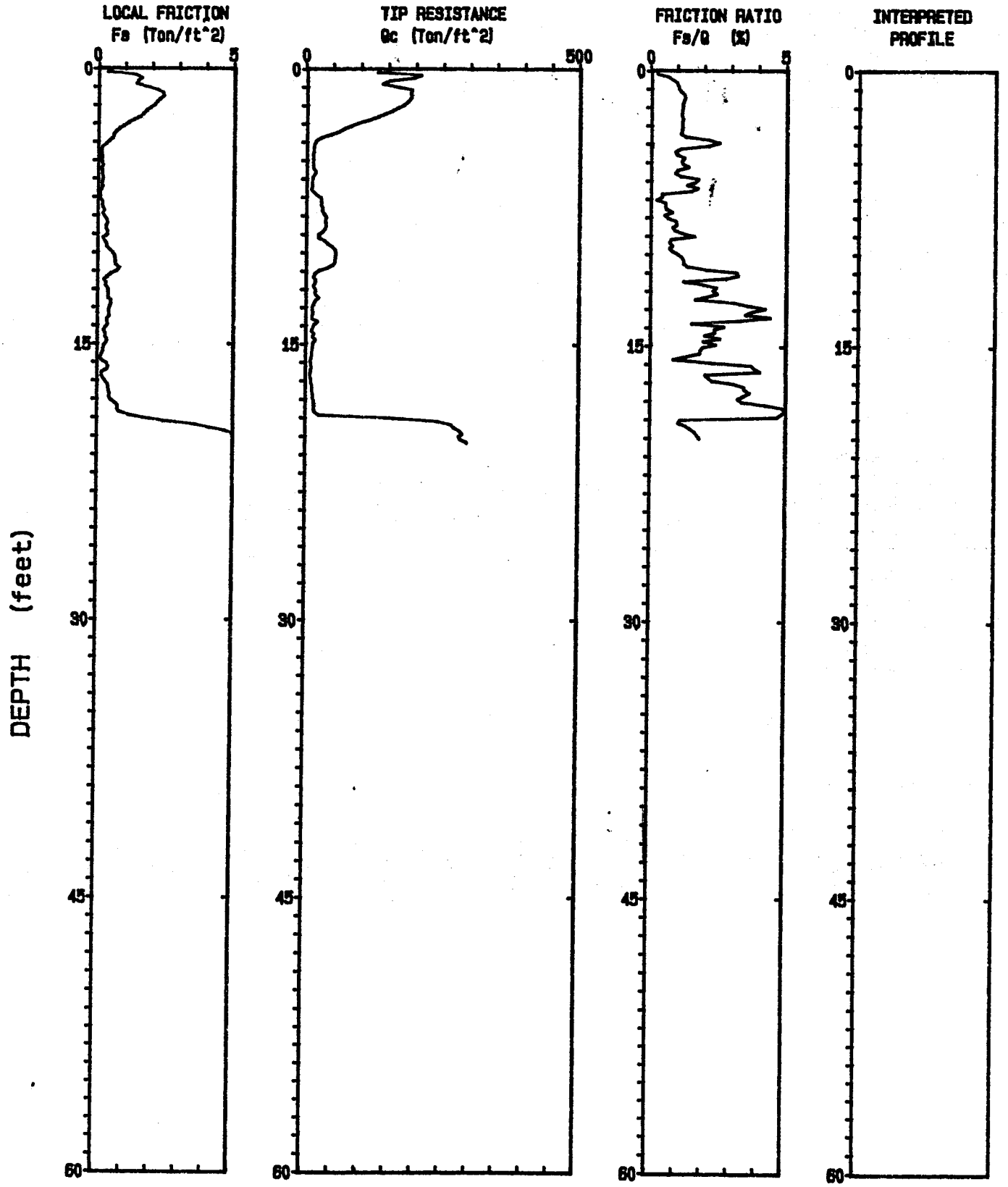
Depth to Caving: 10.1

Remarks: Quit for Qc > 300 TSF

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-073 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-17-00 08:52
Location : CPT-13
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 20.34 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-13
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-17-00 08:[illegible]
Cone Used :369 TC
Water table (meters) : [illegible]

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	163.15	1.22	0.75	0.02	sand	)90	)48	31	UNDEFIN.
0.50	1.64	184.34	2.19	1.19	0.07	sand to silty sand	)90	)48	44	UNDEFIN.
0.75	2.46	163.51	1.89	1.16	0.12	sand to silty sand	)90	)48	39	UNDEFINE
1.00	3.28	95.22	1.11	1.17	0.17	sand to silty sand	)90	)48	23	UNDEFIN.
1.25	4.10	29.58	0.46	1.56	0.22	sandy silt to clayey silt	UNDFND	UNDFD	11	2.
1.50	4.92	10.70	0.11	1.04	0.27	clayey silt to silty clay	UNDFND	UNDFD	5	1.
1.75	5.74	12.44	0.13	1.08	0.32	sandy silt to clayey silt	UNDFND	UNDFD	5	1.
2.00	6.56	8.53	0.14	1.59	0.37	clayey silt to silty clay	UNDFND	UNDFD	4	.
2.25	7.38	22.41	0.09	0.41	0.42	silty sand to sandy silt	(40	36-38	7	UNDEFINE
2.50	8.20	31.90	0.22	0.69	0.47	silty sand to sandy silt	40-50	38-40	10	UNDEFINE
2.75	9.02	30.83	0.32	1.05	0.52	silty sand to sandy silt	40-50	38-40	10	UNDEFINE
3.00	9.84	39.17	0.29	0.75	0.57	silty sand to sandy silt	40-50	38-40	13	UNDEFINE
3.25	10.66	51.95	0.62	1.20	0.62	silty sand to sandy silt	50-60	40-42	17	UNDEFINE
3.50	11.48	20.43	0.50	2.43	0.66	clayey silt to silty clay	UNDFND	UNDFD	10	1.
3.75	12.30	15.21	0.34	2.26	0.71	clayey silt to silty clay	UNDFND	UNDFD	7	1.
4.00	13.12	14.29	0.43	2.99	0.76	silty clay to clay	UNDFND	UNDFD	9	1.
4.25	13.94	13.39	0.38	2.81	0.81	clayey silt to silty clay	UNDFND	UNDFD	6	1.
4.50	14.76	12.39	0.27	2.20	0.86	clayey silt to silty clay	UNDFND	UNDFD	6	1.
4.75	15.58	10.55	0.20	1.88	0.91	clayey silt to silty clay	UNDFND	UNDFD	5	.
5.00	16.40	8.60	0.26	3.01	0.96	silty clay to clay	UNDFND	UNDFD	5	.
5.25	17.22	8.83	0.24	2.70	1.01	silty clay to clay	UNDFND	UNDFD	6	.
5.50	18.04	12.93	0.45	3.46	1.06	silty clay to clay	UNDFND	UNDFD	8	1.
5.75	18.86	17.59	0.83	4.75	1.11	clay	UNDFND	UNDFD	17	1.
6.00	19.69	244.64	3.33	1.36	1.16	sand to silty sand	)90	44-46	)50	UNDEFINE

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-074	2-17	CPT-14
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/1
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

12.4 m ~~Feet~~ Right or Left "A" Line Station 57+97

Surface Elevation: 10.687m

Required Depth: 30

Depth of Sounding: 31.82

Depth to Ground Water: DRY

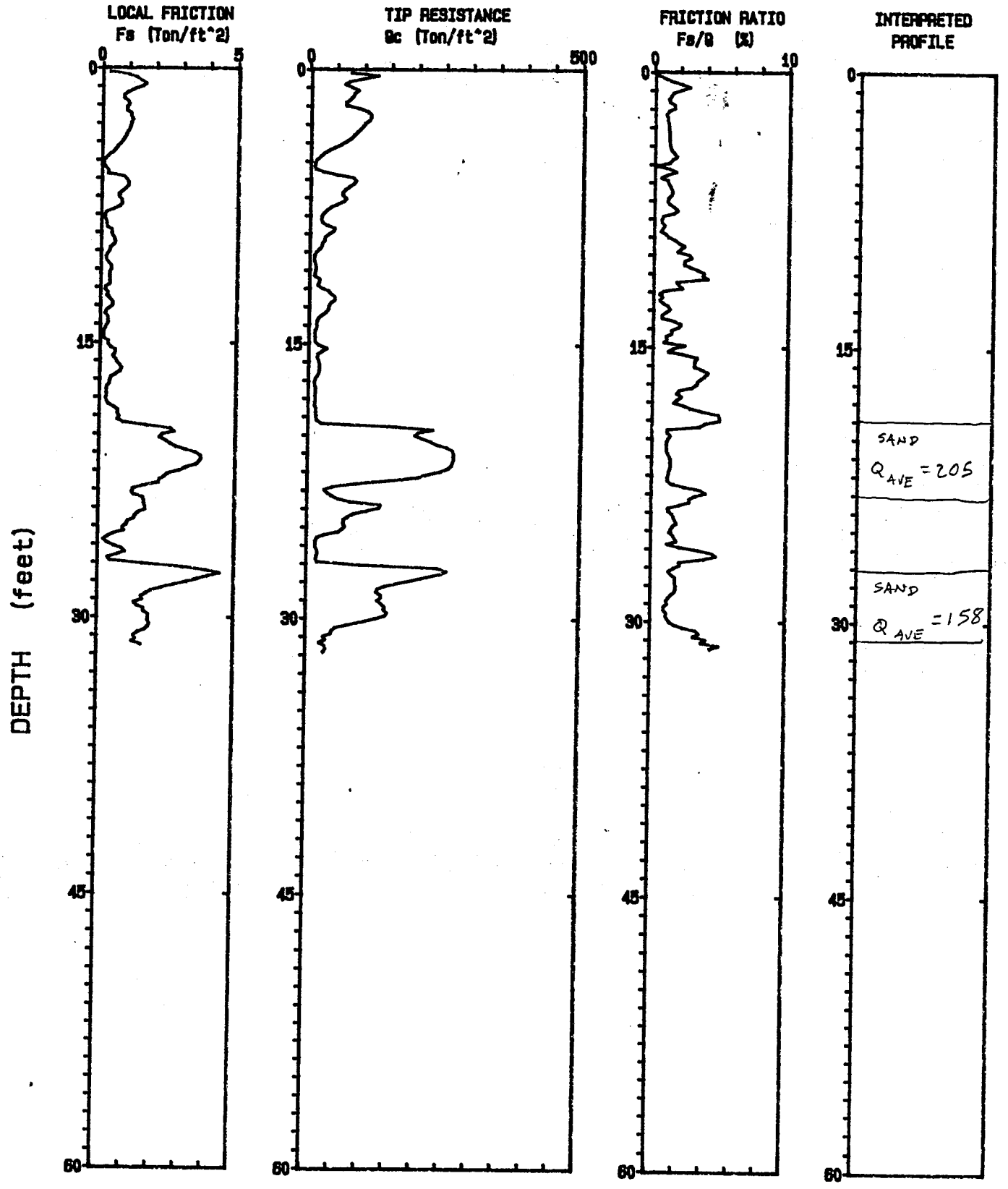
Depth to Caving: Surface

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-074 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-17-00 09:19
Location : CPT-14
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 31.82 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-14
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-17-00 09:19
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	85.10	1.09	1.28	0.02	sand to silty sand	)90	)48	20	UNDEFINEI
0.50	1.64	76.62	1.00	1.30	0.07	silty sand to sandy silt	)90	)48	24	UNDEFINE
0.75	2.46	85.44	0.93	1.09	0.12	sand to silty sand	)90	)48	20	UNDEFINEI
1.00	3.28	99.44	1.04	1.04	0.17	sand to silty sand	)90	)48	24	UNDEFINE
1.25	4.10	70.03	0.79	1.13	0.22	silty sand to sandy silt	70-80	44-46	22	UNDEFINEI
1.50	4.92	23.70	0.33	1.40	0.27	sandy silt to clayey silt	UNDFND	UNDFD	9	2.
1.75	5.74	18.66	0.13	0.70	0.32	sandy silt to clayey silt	UNDFND	UNDFD	7	1.8
2.00	6.56	75.57	0.90	1.19	0.37	silty sand to sandy silt	70-80	44-46	24	UNDEFINEI
2.25	7.38	59.08	0.69	1.18	0.42	silty sand to sandy silt	60-70	42-44	19	UNDEFINEI
2.50	8.20	25.75	0.29	1.12	0.47	sandy silt to clayey silt	UNDFND	UNDFD	10	2.5
2.75	9.02	34.96	0.27	0.77	0.52	silty sand to sandy silt	40-50	38-40	11	UNDEFINEI
3.00	9.84	22.45	0.43	1.93	0.57	sandy silt to clayey silt	UNDFND	UNDFD	9	2.
3.25	10.66	8.71	0.23	2.60	0.62	silty clay to clay	UNDFND	UNDFD	6	.8
3.50	11.48	11.03	0.33	3.01	0.66	silty clay to clay	UNDFND	UNDFD	7	1.
3.75	12.30	25.74	0.23	0.91	0.71	silty sand to sandy silt	(40	36-38	8	UNDEFINEI
4.00	13.12	40.64	0.34	0.84	0.76	silty sand to sandy silt	40-50	36-38	13	UNDEFINEI
4.25	13.94	19.42	0.23	1.16	0.81	sandy silt to clayey silt	UNDFND	UNDFD	7	1.8
4.50	14.76	11.05	0.12	1.11	0.86	clayey silt to silty clay	UNDFND	UNDFD	5	1.
4.75	15.58	20.75	0.41	1.96	0.91	sandy silt to clayey silt	UNDFND	UNDFD	8	1.9
5.00	16.40	18.33	0.64	3.48	0.96	silty clay to clay	UNDFND	UNDFD	12	1.7
5.25	17.22	13.42	0.47	3.50	1.01	silty clay to clay	UNDFND	UNDFD	9	1.2
5.50	18.04	12.29	0.23	1.86	1.06	clayey silt to silty clay	UNDFND	UNDFD	6	1.1
5.75	18.86	12.53	0.49	3.90	1.11	clay	UNDFND	UNDFD	12	1.1
6.00	19.69	89.22	1.32	1.48	1.16	silty sand to sandy silt	60-70	38-40	28	UNDEFINED
6.25	20.51	214.67	2.46	1.15	1.21	sand	80-90	42-44	41	UNDEFINED
6.50	21.33	266.57	3.42	1.28	1.25	sand	)90	44-46	)50	UNDEFINED
6.75	22.15	249.69	3.17	1.27	1.30	sand	80-90	42-44	48	UNDEFINED
7.00	22.97	102.64	1.92	1.87	1.35	silty sand to sandy silt	60-70	38-40	33	UNDEFINED
7.25	23.79	71.18	1.48	2.08	1.40	silty sand to sandy silt	50-60	36-38	23	UNDEFINED
7.50	24.61	93.59	1.49	1.59	1.45	silty sand to sandy silt	50-60	38-40	30	UNDEFINED
7.75	25.43	57.42	0.87	1.52	1.50	silty sand to sandy silt	40-50	36-38	18	UNDEFINED
8.00	26.25	16.52	0.46	2.77	1.55	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
8.25	27.07	34.50	0.82	2.38	1.60	sandy silt to clayey silt	UNDFND	UNDFD	13	3.2
8.50	27.89	233.17	3.86	1.66	1.65	sand to silty sand	80-90	42-44	)50	UNDEFINED
8.75	28.71	142.00	2.39	1.68	1.70	sand to silty sand	60-70	40-42	34	UNDEFINED
9.00	29.53	138.33	1.53	1.11	1.75	sand to silty sand	60-70	40-42	33	UNDEFINED
9.25	30.35	120.69	1.83	1.52	1.80	sand to silty sand	60-70	38-40	29	UNDEFINED
9.50	31.17	42.77	1.55	3.63	1.85	clayey silt to silty clay	UNDFND	UNDFD	20	4.0

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-075	2-17-00	CPT -15
File	Date	Boring Numbe
TOTH / SQUIRE		
Operator	Bridge Name	Bridge Number
369 TC	11-068001	11 IMP 7/10 1.9
Cone I.D.	Job Number	DIST - CO - RTE -

3 Channel or 4 Channel or 5 Channel

25.6 m ~~Feet~~ Right or Left "A" Line Station 53+91

Surface Elevation: 10.066 m

Required Depth: 30

Depth of Sounding: 31.82

Depth to Ground Water: DRY

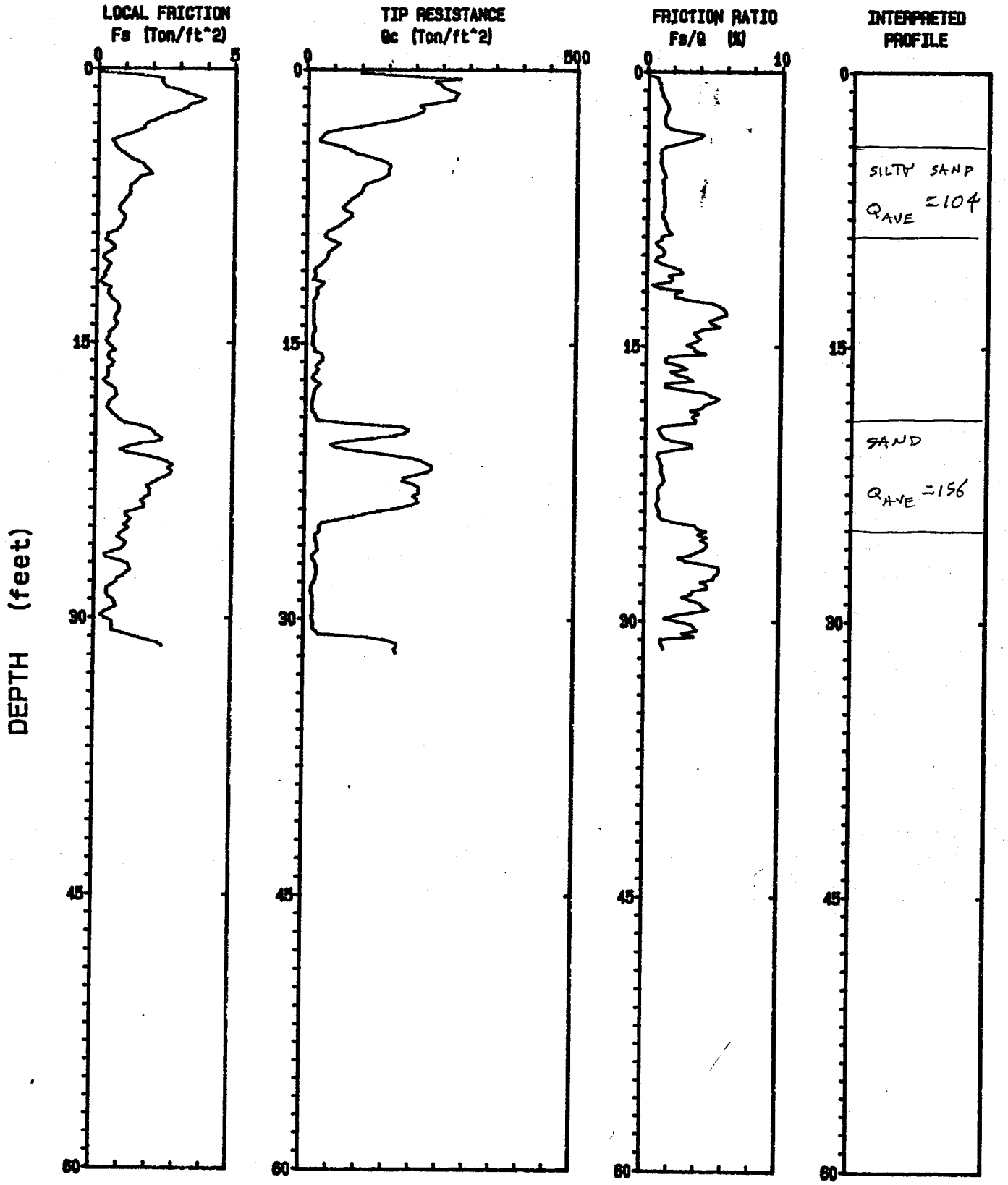
Depth to Caving: 7.8

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-075 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-17-00 09:58
Location : CPT-15
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 31.82 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-15
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-17-00 09:58
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	207.88	1.72	0.83	0.02	sand	)90	)48	40	UNDEFINE
0.50	1.64	266.53	3.22	1.21	0.07	sand	)90	)48	)50	UNDEFINE
0.75	2.46	211.36	3.12	1.47	0.12	sand to silty sand	)90	)48	)50	UNDEFINE
1.00	3.28	121.43	1.87	1.54	0.17	sand to silty sand	)90	)48	29	UNDEFINE
1.25	4.10	30.14	0.85	2.82	0.22	clayey silt to silty clay	UNDFND	UNDFD	14	2.
1.50	4.92	96.13	0.91	0.95	0.27	sand to silty sand	80-90	46-48	23	UNDEFINE
1.75	5.74	149.92	1.75	1.17	0.32	sand to silty sand	)90	46-48	36	UNDEFINE
2.00	6.56	115.63	1.33	1.15	0.37	sand to silty sand	80-90	44-46	28	UNDEFINE
2.25	7.38	82.80	1.03	1.25	0.42	sand to silty sand	70-80	44-46	20	UNDEFINE
2.50	8.20	73.46	0.87	1.19	0.47	silty sand to sandy silt	60-70	42-44	23	UNDEFINE
2.75	9.02	48.06	0.71	1.48	0.52	silty sand to sandy silt	50-60	40-42	15	UNDEFINE
3.00	9.84	48.32	0.47	0.97	0.57	silty sand to sandy silt	50-60	40-42	15	UNDEFINE
3.25	10.66	33.32	0.35	1.05	0.62	silty sand to sandy silt	40-50	38-40	11	UNDEFINE
3.50	11.48	14.21	0.30	2.10	0.66	clayey silt to silty clay	UNDFND	UNDFD	7	1.
3.75	12.30	23.17	0.34	1.46	0.71	sandy silt to clayey silt	UNDFND	UNDFD	9	2.
4.00	13.12	13.66	0.68	4.98	0.76	clay	UNDFND	UNDFD	13	1.
4.25	13.94	13.44	0.71	5.29	0.81	clay	UNDFND	UNDFD	13	1.
4.50	14.76	13.46	0.52	3.84	0.86	silty clay to clay	UNDFND	UNDFD	9	1.
4.75	15.58	16.75	0.50	2.98	0.91	clayey silt to silty clay	UNDFND	UNDFD	8	1.
5.00	16.40	25.53	0.50	1.97	0.96	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
5.25	17.22	17.98	0.38	2.13	1.01	clayey silt to silty clay	UNDFND	UNDFD	9	1.
5.50	18.04	15.41	0.67	4.36	1.06	clay	UNDFND	UNDFD	15	1.
5.75	18.86	12.73	0.49	3.82	1.11	clay	UNDFND	UNDFD	12	1.
6.00	19.69	100.22	1.27	1.26	1.16	sand to silty sand	60-70	40-42	24	UNDEFINED
6.25	20.51	116.73	2.15	1.85	1.21	silty sand to sandy silt	60-70	40-42	37	UNDEFINED
6.50	21.33	135.63	1.45	1.07	1.25	sand to silty sand	70-80	40-42	32	UNDEFINED
6.75	22.15	223.78	2.72	1.22	1.30	sand	80-90	42-44	43	UNDEFINED
7.00	22.97	195.17	2.13	1.09	1.35	sand	80-90	42-44	37	UNDEFINED
7.25	23.79	203.58	1.82	0.89	1.40	sand	80-90	42-44	39	UNDEFINED
7.50	24.61	113.11	1.33	1.18	1.45	sand to silty sand	60-70	38-40	27	UNDEFINED
7.75	25.43	25.52	1.07	4.18	1.50	silty clay to clay	UNDFND	UNDFD	16	2.4
8.00	26.25	22.46	0.98	4.38	1.55	clay	UNDFND	UNDFD	22	2.0
8.25	27.07	17.61	0.70	3.99	1.60	silty clay to clay	UNDFND	UNDFD	11	1.6
8.50	27.89	21.46	1.11	5.16	1.65	clay	UNDFND	UNDFD	21	1.9
8.75	28.71	14.00	0.54	3.86	1.70	silty clay to clay	UNDFND	UNDFD	9	1.2
9.00	29.53	16.19	0.67	4.11	1.75	clay	UNDFND	UNDFD	16	1.4
9.25	30.35	16.07	0.45	2.80	1.80	clayey silt to silty clay	UNDFND	UNDFD	8	1.4
9.50	31.17	68.35	1.13	1.66	1.85	silty sand to sandy silt	40-50	36-38	22	UNDEFINED

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR (v 3.24) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-076	2-17-00	CPT-16
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10
Cone I.D.	Job Number	DIST - CO - RTE - P.:

3 Channel or 4 Channel or 5 Channel

139 m ~~Feet~~ Right or Left "A" Line Station 49+92

Surface Elevation: 10.569 m

Required Depth: 30

Depth of Sounding: 31.99

Depth to Ground Water: DRY

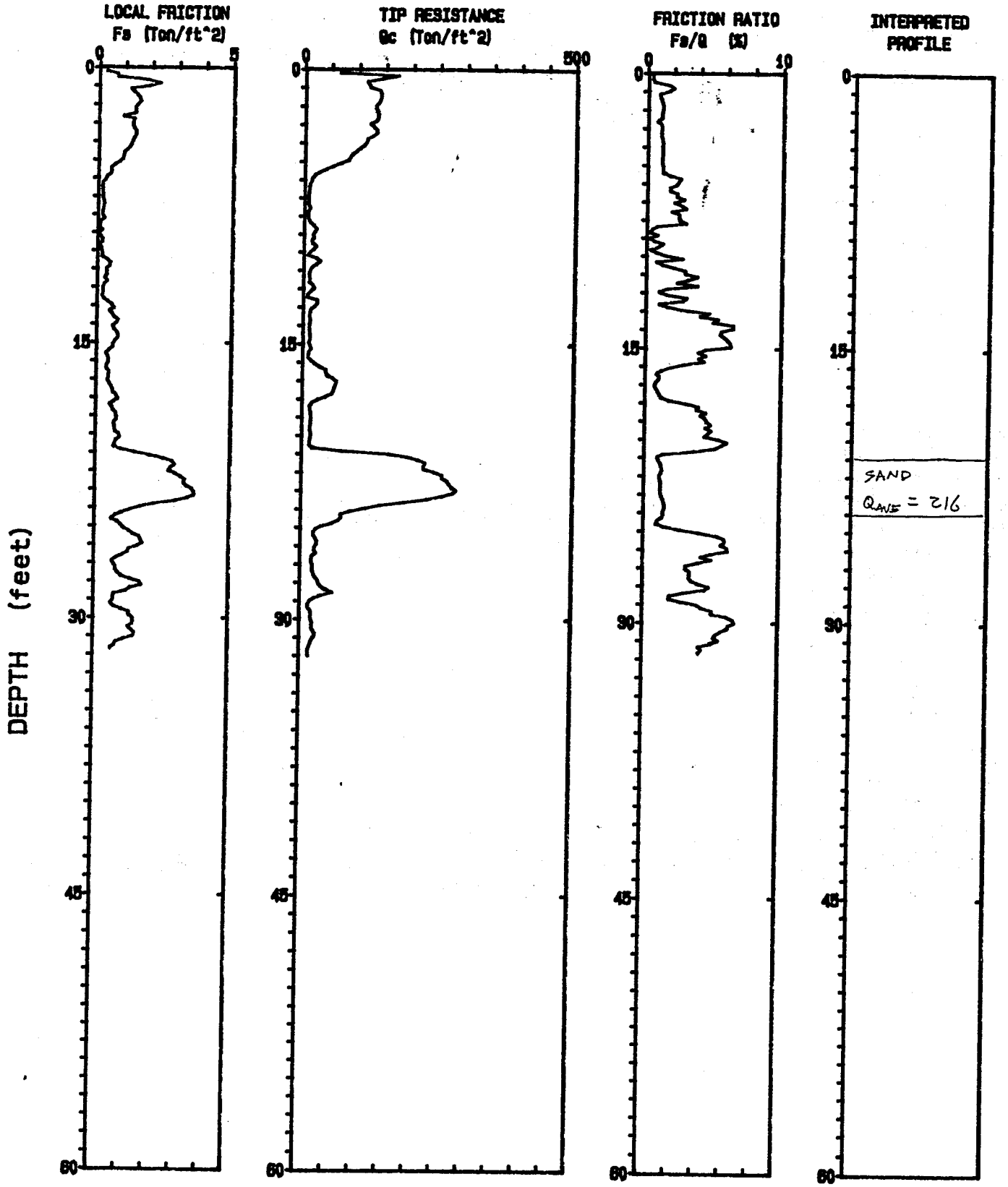
Depth to Caving: 8.2

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-076 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-17-00 13:36
Location : CPT-16
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 31.99 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-16
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-17-00 13:36
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	120.87	1.14	0.94	0.02	sand to silty sand	)90	)48	29	UNDEFINE
0.50	1.64	134.00	1.43	1.07	0.07	sand to silty sand	)90	)48	32	UNDEFINE
0.75	2.46	131.83	1.40	1.06	0.12	sand to silty sand	)90	)48	32	UNDEFINE
1.00	3.28	127.67	1.19	0.94	0.17	sand to silty sand	)90	)48	31	UNDEFINE
1.25	4.10	117.80	1.29	1.10	0.22	sand to silty sand	)90	46-48	28	UNDEFINE
1.50	4.92	87.91	0.97	1.10	0.27	sand to silty sand	80-90	46-48	21	UNDEFINE
1.75	5.74	38.91	0.53	1.37	0.32	silty sand to sandy silt	50-60	40-42	12	UNDEFINE
2.00	6.56	9.18	0.19	2.08	0.37	clayey silt to silty clay	UNDFND	UNDFD	4	.
2.25	7.38	6.74	0.17	2.52	0.42	silty clay to clay	UNDFND	UNDFD	4	.
2.50	8.20	7.28	0.17	2.38	0.47	silty clay to clay	UNDFND	UNDFD	5	.
2.75	9.02	17.13	0.07	0.41	0.52	sandy silt to clayey silt	UNDFND	UNDFD	7	1.
3.00	9.84	17.46	0.11	0.65	0.57	sandy silt to clayey silt	UNDFND	UNDFD	7	1.
3.25	10.66	18.61	0.26	1.42	0.62	sandy silt to clayey silt	UNDFND	UNDFD	7	1.
3.50	11.48	11.21	0.34	3.00	0.66	silty clay to clay	UNDFND	UNDFD	7	1.
3.75	12.30	13.13	0.24	1.82	0.71	clayey silt to silty clay	UNDFND	UNDFD	6	1.
4.00	13.12	18.09	0.40	2.19	0.76	clayey silt to silty clay	UNDFND	UNDFD	9	1.
4.25	13.94	11.40	0.63	5.52	0.81	clay	UNDFND	UNDFD	11	1.
4.50	14.76	11.87	0.70	5.93	0.86	clay	UNDFND	UNDFD	11	1.
4.75	15.58	11.40	0.52	4.58	0.91	clay	UNDFND	UNDFD	11	1.
5.00	16.40	24.58	0.40	1.62	0.96	sandy silt to clayey silt	UNDFND	UNDFD	9	2.
5.25	17.22	54.62	0.44	0.81	1.01	silty sand to sandy silt	40-50	38-40	17	UNDEFINED
5.50	18.04	47.65	0.67	1.41	1.06	silty sand to sandy silt	40-50	36-38	15	UNDEFINED
5.75	18.86	14.78	0.63	4.25	1.11	clay	UNDFND	UNDFD	14	1.3
6.00	19.69	15.03	0.72	4.78	1.16	clay	UNDFND	UNDFD	14	1.3
6.25	20.51	14.61	0.79	5.42	1.21	clay	UNDFND	UNDFD	14	1.3
6.50	21.33	132.88	1.53	1.15	1.25	sand to silty sand	70-80	40-42	32	UNDEFINED
6.75	22.15	237.32	2.88	1.21	1.30	sand	80-90	42-44	45	UNDEFINED
7.00	22.97	274.06	3.38	1.23	1.35	sand	)90	44-46	)50	UNDEFINED
7.25	23.79	220.27	3.19	1.45	1.40	sand to silty sand	80-90	42-44	)50	UNDEFINED
7.50	24.61	84.01	1.04	1.24	1.45	sand to silty sand	50-60	38-40	20	UNDEFINED
7.75	25.43	33.05	1.12	3.40	1.50	clayey silt to silty clay	UNDFND	UNDFD	16	3.1
8.00	26.25	27.32	1.62	5.92	1.55	clay	UNDFND	UNDFD	26	2.5
8.25	27.07	22.45	0.88	3.94	1.60	silty clay to clay	UNDFND	UNDFD	14	2.0
8.50	27.89	26.42	0.96	3.65	1.65	clayey silt to silty clay	UNDFND	UNDFD	13	2.4
8.75	28.71	43.34	1.35	3.11	1.70	clayey silt to silty clay	UNDFND	UNDFD	21	4.1
9.00	29.53	17.87	0.75	4.17	1.75	clay	UNDFND	UNDFD	17	1.6
9.25	30.35	21.61	1.41	6.53	1.80	clay	UNDFND	UNDFD	21	1.9
9.50	31.17	25.03	1.37	5.46	1.85	clay	UNDFND	UNDFD	24	2.3

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) **

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-16 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	16.88	-13106.76	-77665.08	1.89	undefined	UNDFND	UNDFD	UDF	UNDEFIN

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.24)

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-077	2-23-00	CPT-17
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10.9
Cone I.D.	Job Number	DIST - CO - RTE - P.M.

3 Channel or 4 Channel or 5 Channel

18.4 m ~~Feet~~ Right or Left "A" Line Station 45+88

Surface Elevation: 9.504m

Required Depth: 30

Depth of Sounding: 29.53

Depth to Ground Water: moist on bottom

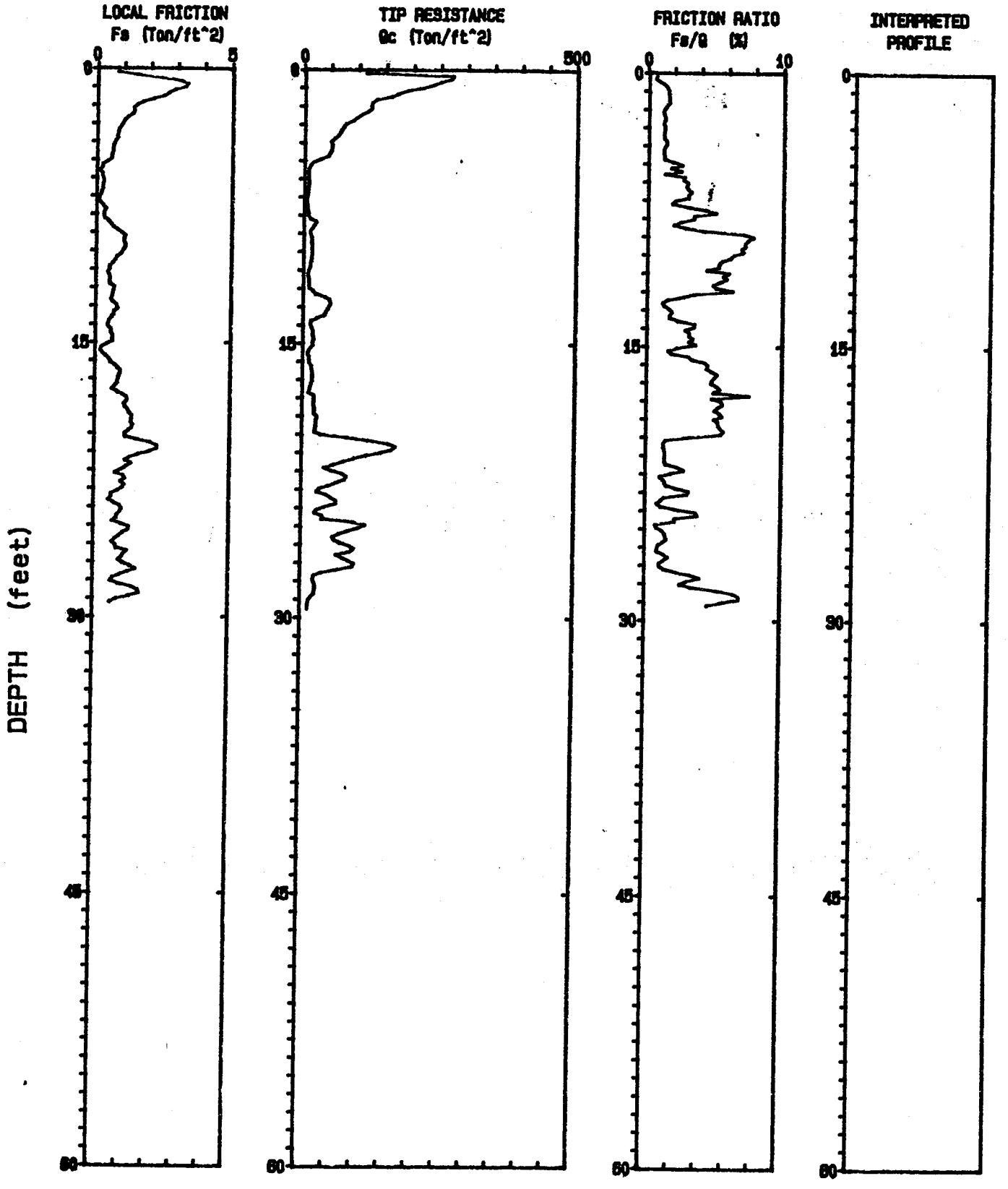
Depth to Caving: 7.8

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-077 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-23-00 08:23
Location : CPT-17
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 29.53 ft

E

FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-17
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-23-00 08:23
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	226.81	2.19	0.97	0.02	sand	)90	)48	43	UNDEFIN
0.50	1.64	170.40	2.65	1.55	0.07	sand to silty sand	)90	)48	41	UNDEFIN
0.75	2.46	115.33	1.41	1.22	0.12	sand to silty sand	)90	)48	28	UNDEFIN
1.00	3.28	77.79	0.93	1.19	0.17	sand to silty sand	80-90	46-48	19	UNDEFIN
1.25	4.10	54.71	0.69	1.27	0.22	silty sand to sandy silt	70-80	44-46	17	UNDEFIN
1.50	4.92	42.34	0.54	1.28	0.27	silty sand to sandy silt	60-70	42-44	14	UNDEFIN
1.75	5.74	8.84	0.20	2.24	0.32	silty clay to clay	UNDFND	UNDFD	6	
2.00	6.56	7.10	0.21	2.96	0.37	clay	UNDFND	UNDFD	7	
2.25	7.38	4.53	0.12	2.63	0.42	clay	UNDFND	UNDFD	4	
2.50	8.20	7.85	0.28	3.53	0.47	clay	UNDFND	UNDFD	8	
2.75	9.02	15.94	0.66	4.15	0.52	clay	UNDFND	UNDFD	15	1.
3.00	9.84	14.68	1.06	7.21	0.57	clay	UNDFND	UNDFD	14	1
3.25	10.66	13.74	0.79	5.76	0.62	clay	UNDFND	UNDFD	13	1.
3.50	11.48	9.00	0.48	5.38	0.66	clay	UNDFND	UNDFD	9	.
3.75	12.30	14.42	0.59	4.11	0.71	clay	UNDFND	UNDFD	14	1.
4.00	13.12	46.59	0.67	1.45	0.76	silty sand to sandy silt	40-50	38-40	15	UNDEFINE
4.25	13.94	26.18	0.57	2.17	0.81	sandy silt to clayey silt	UNDFND	UNDFD	10	2.
4.50	14.76	17.99	0.57	3.15	0.86	clayey silt to silty clay	UNDFND	UNDFD	9	1.
4.75	15.58	13.19	0.33	2.52	0.91	clayey silt to silty clay	UNDFND	UNDFD	6	1.
5.00	16.40	13.57	0.60	4.42	0.96	clay	UNDFND	UNDFD	13	1.
5.25	17.22	17.22	0.87	5.07	1.01	clay	UNDFND	UNDFD	16	1.
5.50	18.04	15.90	0.88	5.55	1.06	clay	UNDFND	UNDFD	15	1.
5.75	18.86	21.96	1.19	5.41	1.11	clay	UNDFND	UNDFD	21	2.
6.00	19.69	25.62	1.38	5.40	1.16	clay	UNDFND	UNDFD	25	2.
6.25	20.51	83.89	1.43	1.70	1.21	silty sand to sandy silt	50-60	39-40	27	UNDEFINE
6.50	21.33	138.83	1.93	1.39	1.25	sand to silty sand	70-80	40-42	33	UNDEFINE
6.75	22.15	60.80	1.08	1.78	1.30	silty sand to sandy silt	40-50	36-38	19	UNDEFINE.
7.00	22.97	61.30	1.06	1.74	1.35	silty sand to sandy silt	40-50	36-38	20	UNDEFINE
7.25	23.79	51.37	0.67	1.30	1.40	silty sand to sandy silt	40-50	36-38	16	UNDEFINE.
7.50	24.61	34.29	0.92	2.69	1.45	sandy silt to clayey silt	UNDFND	UNDFD	13	3.
7.75	25.43	94.79	1.07	1.13	1.50	sand to silty sand	50-60	38-40	23	UNDEFINEI
8.00	26.25	75.72	0.81	1.07	1.55	sand to silty sand	50-60	36-38	18	UNDEFINEI
8.25	27.07	83.57	1.09	1.30	1.60	silty sand to sandy silt	50-60	36-38	27	UNDEFINEI
8.50	27.89	49.13	1.19	2.42	1.65	sandy silt to clayey silt	UNDFND	UNDFD	19	4.7
8.75	28.71	25.62	1.28	5.01	1.70	clay	UNDFND	UNDFD	25	2.3
9.00	29.53	14.70	-13106.63	-89185.05	1.75	undefined	UNDFND	UNDFD	UDF	UNDEFINEI

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTRI (v 3.04) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-078	2-23-00	CPT-18
File	Date	Boring Numbe.
Toth / Squire		
Operator	Bridge Name	Bridge Number
369T	11-06600 1	11 IMP 7 19
Cone I.D.	Job Number	DIST - CO - RTE - I

3 Channel or 4 Channel or 5 Channel

8.7 m ~~Feet~~ Right or Left "A" Line Station 38+22

Surface Elevation: 9.724 m

Required Depth: 60

Depth of Sounding: 41.34

Depth to Ground Water: Dry

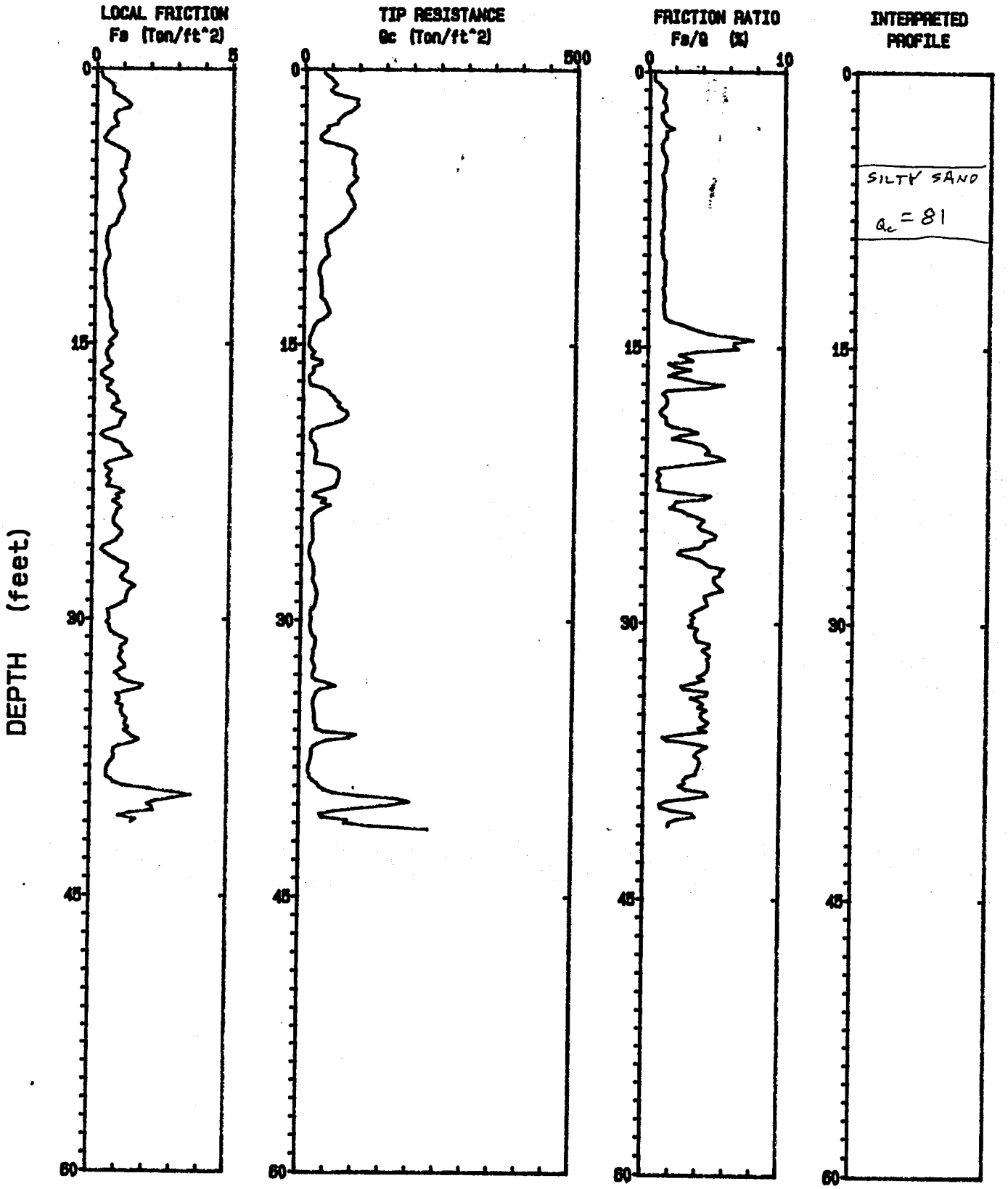
Depth to Caving: 2.5

Remarks:

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-078 Pg 1 / 1
Cone Used : 369 TC

CPT Date : 02-23-00 08:47
Location : CPT-18
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 41.34 ft

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-18
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-23-00 08:47
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	47.49	0.30	0.64	0.02	silty sand to sandy silt	)90	)48	15	UNDEFINEI
0.50	1.64	64.20	0.73	1.13	0.07	silty sand to sandy silt	)90	)48	20	UNDEFINEI
0.75	2.46	86.84	1.00	1.15	0.12	sand to silty sand	)90	)48	21	UNDEFINEI
1.00	3.28	52.36	0.67	1.28	0.17	silty sand to sandy silt	70-80	44-46	17	UNDEFINEI
1.25	4.10	36.53	0.39	1.07	0.22	silty sand to sandy silt	50-60	42-44	12	UNDEFINEI
1.50	4.92	87.71	1.05	1.20	0.27	sand to silty sand	80-90	46-48	21	UNDEFINEI
1.75	5.74	89.86	1.02	1.13	0.32	sand to silty sand	70-80	44-46	22	UNDEFINEI
2.00	6.56	86.22	0.97	1.13	0.37	sand to silty sand	70-80	44-46	21	UNDEFINEI
2.25	7.38	86.10	0.93	1.08	0.42	sand to silty sand	70-80	44-46	21	UNDEFINEI
2.50	8.20	81.83	0.91	1.12	0.47	sand to silty sand	70-80	42-44	20	UNDEFINEI
2.75	9.02	54.29	0.57	1.05	0.52	silty sand to sandy silt	50-60	40-42	17	UNDEFINED
3.00	9.84	40.13	0.41	1.03	0.57	silty sand to sandy silt	40-50	38-40	13	UNDEFINEI
3.25	10.66	37.02	0.45	1.21	0.62	silty sand to sandy silt	40-50	38-40	12	UNDEFINED
3.50	11.48	27.92	0.34	1.23	0.66	sandy silt to clayey silt	UNDFND	UNDFD	11	2.7
3.75	12.30	31.32	0.38	1.20	0.71	silty sand to sandy silt	(40	36-38	10	UNDEFINEI
4.00	13.12	40.11	0.48	1.21	0.76	silty sand to sandy silt	40-50	36-38	13	UNDEFINED
4.25	13.94	33.25	0.59	1.78	0.81	sandy silt to clayey silt	UNDFND	UNDFD	13	3.2
4.50	14.76	12.97	0.71	5.45	0.86	clay	UNDFND	UNDFD	12	1.2
4.75	15.58	13.36	0.51	3.85	0.91	silty clay to clay	UNDFND	UNDFD	9	1.2
5.00	16.40	23.62	0.53	2.22	0.96	sandy silt to clayey silt	UNDFND	UNDFD	9	2.2
5.25	17.22	12.30	0.43	3.51	1.01	silty clay to clay	UNDFND	UNDFD	8	1.1
5.50	18.04	49.94	0.68	1.35	1.06	silty sand to sandy silt	40-50	36-38	16	UNDEFINED
5.75	18.86	74.06	0.85	1.15	1.11	silty sand to sandy silt	50-60	38-40	24	UNDEFINED
6.00	19.69	48.70	0.92	1.88	1.16	silty sand to sandy silt	40-50	36-38	16	UNDEFINED
6.25	20.51	16.01	0.55	3.42	1.21	silty clay to clay	UNDFND	UNDFD	10	1.4
6.50	21.33	23.88	1.18	4.95	1.25	clay	UNDFND	UNDFD	23	2.2
6.75	22.15	54.85	0.54	0.99	1.30	silty sand to sandy silt	40-50	36-38	18	UNDEFINED
7.00	22.97	59.14	0.63	1.07	1.35	silty sand to sandy silt	40-50	36-38	19	UNDEFINED
7.25	23.79	35.05	0.91	2.59	1.40	sandy silt to clayey silt	UNDFND	UNDFD	13	3.3
7.50	24.61	24.84	0.85	3.43	1.45	clayey silt to silty clay	UNDFND	UNDFD	12	2.3
7.75	25.43	20.19	0.94	4.64	1.50	clay	UNDFND	UNDFD	19	1.8
8.00	26.25	16.60	0.61	3.65	1.55	silty clay to clay	UNDFND	UNDFD	11	1.5
8.25	27.07	18.32	0.83	4.54	1.60	clay	UNDFND	UNDFD	18	1.6
8.50	27.89	22.07	1.16	5.27	1.65	clay	UNDFND	UNDFD	21	2.0
8.75	28.71	27.63	1.38	4.98	1.70	clay	UNDFND	UNDFD	26	2.5
9.00	29.53	23.51	0.97	4.13	1.75	silty clay to clay	UNDFND	UNDFD	15	2.1
9.25	30.35	17.40	0.61	3.52	1.80	silty clay to clay	UNDFND	UNDFD	11	1.5
9.50	31.17	22.73	0.91	4.02	1.85	silty clay to clay	UNDFND	UNDFD	15	2.0

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) ****

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE On Site Loc:CPT-18 Page No. 2

DEPTH (meters)	(feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
9.75	31.99	24.14	1.11	4.60	1.89	clay	UNDFND	UNDFD	23	2
10.00	32.81	24.41	1.13	4.61	1.94	clay	UNDFND	UNDFD	23	2.
10.25	33.63	38.46	1.26	3.26	1.99	clayey silt to silty clay	UNDFND	UNDFD	18	3
10.50	34.45	28.61	1.22	4.26	2.04	silty clay to clay	UNDFND	UNDFD	18	2.
10.75	35.27	25.88	1.10	4.27	2.09	silty clay to clay	UNDFND	UNDFD	17	2
11.00	36.09	31.88	1.28	4.01	2.14	silty clay to clay	UNDFND	UNDFD	20	2.
11.25	36.91	60.59	1.46	2.41	2.19	sandy silt to clayey silt	UNDFND	UNDFD	23	5.
11.50	37.73	20.39	0.81	3.99	2.24	silty clay to clay	UNDFND	UNDFD	13	1.
11.75	38.55	17.14	0.60	3.51	2.29	silty clay to clay	UNDFND	UNDFD	11	1.
12.00	39.37	41.22	1.59	3.86	2.34	clayey silt to silty clay	UNDFND	UNDFD	20	3.
12.25	40.19	155.62	2.68	1.72	2.39	sand to silty sand	60-70	38-40	37	UNDEFINE
12.50	41.01	63.10	1.59	2.51	2.44	sandy silt to clayey silt	UNDFND	UNDFD	24	6.

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.04) *

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-079	2-23-00	CPT-19
File	Date	Boring Number
TOTH/SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10.9
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

16.7 m ~~Feet~~ Right or Left _____ Line Station 33+15

Surface Elevation: 8.464m

Required Depth: 30

Depth of Sounding: 29.36

Depth to Ground Water: _____

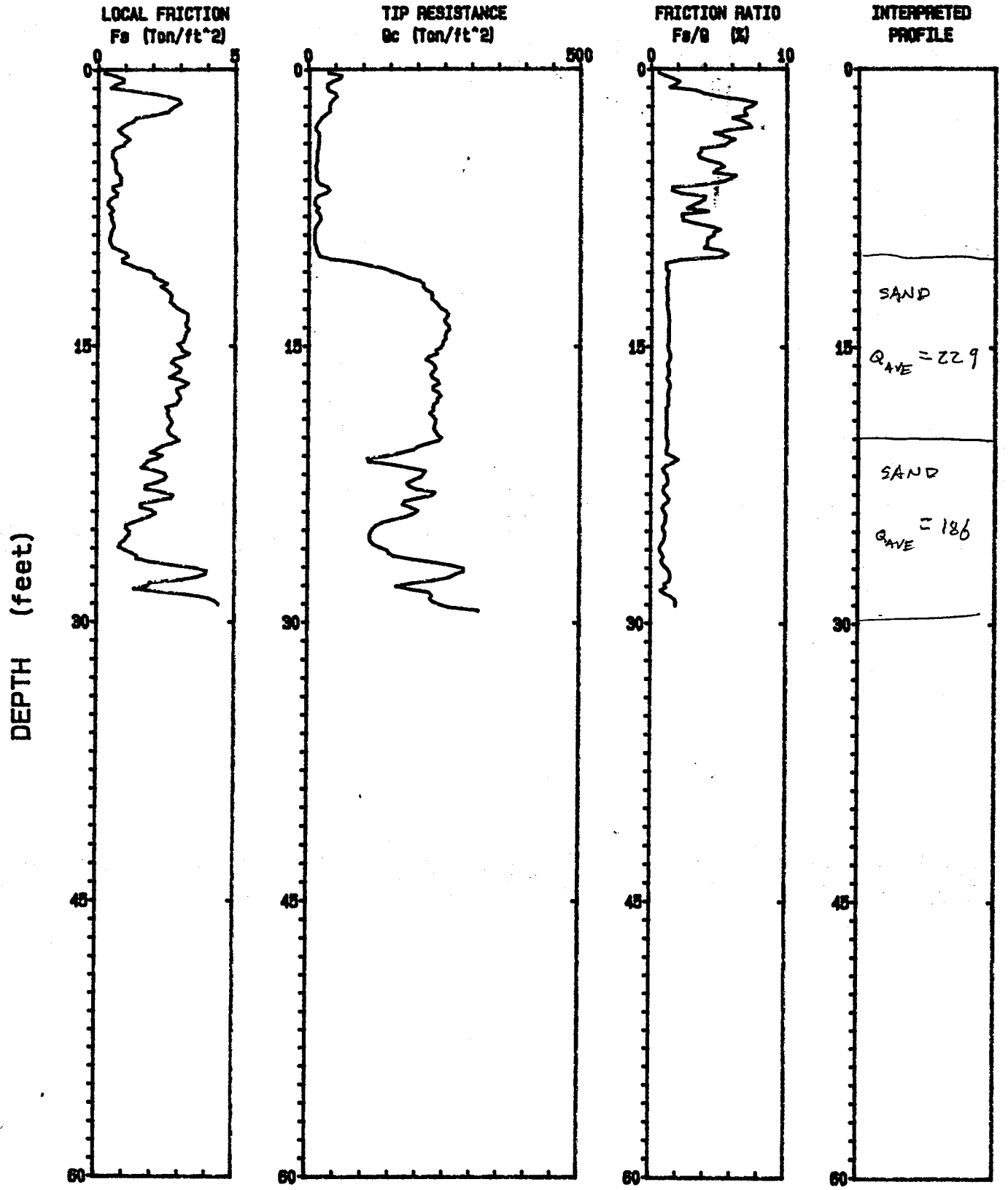
Depth to Caving: _____

Remarks: Quit for Qc > 340

FOUND. TEST. & INST.

Operator : TOTH\SQUIRE
Sounding : 00-079 Pg 1 / 1
Cone Used : 389 TC

CPT Date : 02-23-00 09:27
Location : CPT-19
Job No. : 11-068001



Depth Increment : .05 m

Max Depth : 29.36 ft

E FOUNDATION TEST. & INST.

Operator :TOTH\SQUIRE
On Site Loc:CPT-19
Job No. :11-068001
Tot. Unit Wt. (avg) : 120 pcf

CPT Date :02-23-00 09:27
Cone Used :369 TC
Water table (meters) : 999.99

DEPTH (meters)	DEPTH (feet)	Qc (avg) (tsf)	Fs (avg) (tsf)	Rf (avg) (%)	SIGV' (tsf)	SOIL BEHAVIOUR TYPE	Eq - Dr (%)	PHI deg.	SPT N	Su tsf
0.25	0.82	45.88	0.65	1.42	0.02	silty sand to sandy silt	>90	>43	15	UNDEFINE
0.50	1.64	42.78	1.83	4.28	0.07	silty clay to clay	UNDFND	UNDFD	27	4.
0.75	2.46	35.92	2.59	7.22	0.12	clay	UNDFND	UNDFD	34	3.
1.00	3.28	15.53	1.02	6.55	0.17	clay	UNDFND	UNDFD	15	1.
1.25	4.10	17.58	0.95	5.43	0.22	clay	UNDFND	UNDFD	17	1.
1.50	4.92	14.72	0.54	3.65	0.27	silty clay to clay	UNDFND	UNDFD	9	1.
1.75	5.74	12.84	0.67	5.18	0.32	clay	UNDFND	UNDFD	12	1.
2.00	6.56	24.39	0.70	2.86	0.37	clayey silt to silty clay	UNDFND	UNDFD	12	2.
2.25	7.38	15.87	0.49	3.09	0.42	clayey silt to silty clay	UNDFND	UNDFD	8	1.
2.50	8.20	18.42	0.48	2.63	0.47	clayey silt to silty clay	UNDFND	UNDFD	9	1.
2.75	9.02	11.98	0.51	4.25	0.52	clay	UNDFND	UNDFD	11	1.
3.00	9.84	11.89	0.52	4.35	0.57	clay	UNDFND	UNDFD	11	1.
3.25	10.66	55.62	1.02	1.83	0.62	silty sand to sandy silt	50-60	40-42	18	UNDEFINE
3.50	11.48	169.45	1.95	1.15	0.66	sand to silty sand	80-90	44-46	41	UNDEFINE
3.75	12.30	218.35	2.52	1.15	0.71	sand	>90	44-46	42	UNDEFINE
4.00	13.12	238.84	2.81	1.17	0.76	sand	>90	44-46	46	UNDEFINE
4.25	13.94	253.55	3.25	1.28	0.81	sand	>90	44-46	49	UNDEFINE
4.50	14.76	251.25	3.19	1.27	0.86	sand	>90	44-46	48	UNDEFINE
4.75	15.58	234.56	3.09	1.32	0.91	sand	>90	44-46	45	UNDEFINE
5.00	16.40	225.89	2.84	1.26	0.96	sand	>90	44-46	43	UNDEFINE
5.25	17.22	230.73	2.97	1.29	1.01	sand	>90	44-46	44	UNDEFINE
5.50	18.04	236.02	2.93	1.24	1.06	sand	>90	44-46	45	UNDEFINE
5.75	18.86	226.75	2.58	1.14	1.11	sand	80-90	44-46	43	UNDEFINE
6.00	19.69	231.58	2.61	1.13	1.16	sand	80-90	44-46	44	UNDEFINE
6.25	20.51	226.91	2.68	1.18	1.21	sand	80-90	42-44	43	UNDEFINE
6.50	21.33	143.70	2.05	1.43	1.25	sand to silty sand	70-80	40-42	34	UNDEFINE
6.75	22.15	194.20	2.05	1.05	1.30	sand	80-90	42-44	37	UNDEFINE
7.00	22.97	197.90	2.05	1.04	1.35	sand	80-90	42-44	38	UNDEFINE
7.25	23.79	192.47	2.12	1.10	1.40	sand	80-90	42-44	37	UNDEFINE
7.50	24.61	171.29	1.76	1.03	1.45	sand	70-80	40-42	33	UNDEFINE
7.75	25.43	114.33	1.08	0.94	1.50	sand to silty sand	60-70	38-40	27	UNDEFINE
8.00	26.25	130.58	0.95	0.73	1.55	sand	60-70	40-42	25	UNDEFINE
8.25	27.07	225.43	2.21	0.98	1.60	sand	80-90	42-44	43	UNDEFINE
8.50	27.89	246.97	3.31	1.34	1.65	sand	80-90	42-44	47	UNDEFINE
8.75	28.71	204.36	2.57	1.26	1.70	sand	70-80	40-42	39	UNDEFINE

Dr - All sands (Jamiolkowski et al. 1985) PHI - Robertson and Campanella 1983 Su: Nk= 10

**** Note: For interpretation purposes the PLOTTED CPT PROFILE should be used with the TABULATED OUTPUT from CPTINTR1 (v 3.34) **

Foundation Testing & Instrumentation

CPT Sounding Cover Sheet

00-080/081*	2-23-00	CPT-20/21*
File	Date	Boring Number
TOM / SQUIRE		
Operator	Bridge Name	Bridge Number
369TC	11-068001	11 IMP 7 1.9/10.
Cone I.D.	Job Number	DIST - CO - RTE - P

3 Channel or 4 Channel or 5 Channel

58.3 m ~~Feet~~ Right or Left "A" Line Station 29+14

Surface Elevation: _____

Required Depth: 30 / 30*

Depth of Sounding: 2.1 / 1.8*

Depth to Ground Water: _____

Depth to Caving: _____

Remarks: Quit CPT-080 for Qc > 700 TSF moved hole 5' west
Quit CPT-081 for Qc > 625 TSF / I don't want to go out side USA clearance