REPORT OF GEOTECHNICAL EXPLORATION

EAST AND WEST ASH DISPOSAL AREAS
ALLEN FOSSIL PLANT
MEMPHIS, TENNESSEE

Prepared For:

TENNESSEE VALLEY AUTHORITY

Chattanooga, Tennessee

Prepared By:

MACTEC ENGINEERING AND CONSULTING, INC.

Knoxville, Tennessee

MACTEC Project 3043041037/01

August 18, 2004

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August 18, 2004

Mr. Ron Purkey
Tennessee Valley Authority
1101 Market Street, LP-2G
Chattanooga, TN 37402

Subject: **Report of Geotechnical Exploration**
East and West Ash Disposal Areas
TVA Allen Fossil Plant
Memphis, Tennessee
MACTEC Project 3043041037/01

Dear Mr. Purkey:

We at MACTEC Engineering and Consulting, Inc., (MACTEC) are pleased to submit this Report of Geotechnical Exploration for your project. Our services, as authorized through TAO No. MAC-0701-00059 were provided in general accordance with our proposal number Prop04Knox/251, Revision 1, dated July 6, 2004.

This report reviews the information provided to us, discusses the site and subsurface conditions, and presents the results of our field and laboratory testing for the materials at the existing east and west disposal areas. The Appendices contain a brief description of the Field Exploratory Procedures, a Key Sheet and Test Boring Records, Cone Penetrometer Test Results, the Laboratory Test Procedures, and the Laboratory Test Results.

We anticipate further dialog and interaction with the designers as the design proceeds and will be happy to provide any additional information or interpretation of the data presented here in which may be necessary.

We will be pleased to discuss our data with you and would welcome the opportunity to provide the engineering and material testing services needed to successfully complete your project.

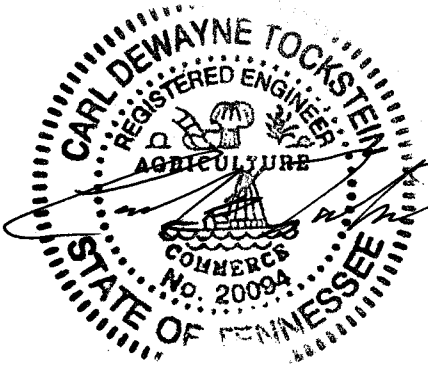
Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

Hussein A. Benkhayal
Senior Professional

Carl D. Tockstein, P.E.
Chief Engineer - Tennessee Operations

HAB/CDT:sjm



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EXECUTIVE SUMMARY

MACTEC was selected by the Tennessee Valley Authority (TVA) to perform a geotechnical exploration for the East and West Ash Disposal Areas at the Allen Fossil Plant in Memphis, Tennessee. The objectives of our exploration were to determine general subsurface conditions and to obtain data to evaluate the engineering characteristics of the fly ash and underlying soils.

The exploration consisted of drilling eight test borings and performing cone penetrometer testing (CPT) at five locations. Five test borings were drilled and cone penetrometer testing was performed at three locations in the East Ash Disposal Area. Three test borings were drilled and cone penetrometer testing was performed at two locations in the West Ash Disposal Area. All test borings were drilled to predetermined depths ranging from about 40 to 100 feet. The major findings of our geotechnical exploration are as follows:

- The test borings typically encountered an interval of ash underlain by alluvium. The ash interval extended from the existing ground surface to depths ranging from about 12 to 29 feet in the east disposal area and from about 15 to 23 feet in the west disposal area. The ash ranged in relative density from very loose to very dense. The alluvium, which extended below the ash to the termination depths, had consistencies ranging from soft to hard and relative densities ranging from firm to very dense.

- Ground water was encountered in several of the test borings at the time of drilling. Ground-water measurements were made at least 24 hours after completion of drilling. Long-term measurements for the presence or absence of ground water were not obtained during this exploration.

- Cone penetrometer test soundings were performed at five locations that correspond to test borings. The results of the cone penetrometer testing are presented in Appendix C.

This summary is only an overview and should not be used as a separate document or in place of reading the entire report, including the appendices.

1.0 INTRODUCTION

This report presents the findings of our subsurface exploration and laboratory testing recently performed for the East and West Ash Disposal Areas at TVA's Allen Fossil Plant. Our services were authorized by Mr. Ron Purkey of TVA.

2.0 OBJECTIVES OF EXPLORATION

The objectives of our exploration were to determine general subsurface conditions and to obtain data to evaluate the engineering characteristics of the fly ash and underlying soils. An assessment of site environmental conditions, or an assessment for the presence or absence of pollutants in the soil, bedrock, surface water, or ground water of the site was beyond the proposed objectives of our exploration.

3.0 SCOPE OF EXPLORATION

The scope of our exploration was based on our proposal number Prop04Knox/251, Revision 1, dated July 6, 2004, and the geotechnical scope of work outlined in the project's scope of work prepared by Parsons E&C. It includes the following:

- Reconnaissance of the immediate site
- Drilling eight test borings to depths ranging from about 40 to 100 feet
- Performing cone penetrometer testing (CPT) at five locations
- Laboratory testing
- Geotechnical report summarizing the field and laboratory test results

The drilling and sampling were performed in general accordance with ASTM procedures included in Appendix A. The drilling was performed during the period from July 13 to 22, 2004. The equipment used consisted of a CME Model 75 truck-mounted drill rig equipped with an automatic hammer. Standard penetration tests (SPTs) were performed at 3-foot vertical intervals in the upper 20 feet and at 5-foot intervals below a depth of 20 feet. In addition to the SPT samples, ten relatively undisturbed samples were obtained from three test borings for laboratory testing.

Ground-water levels were observed during drilling in each boring by observing the wetness of samples. Ground water measurements were made in the borings at approximately 24 hours or later after the completion of the borings.

Upon completion of drilling, the borings were plugged and abandoned by backfilling the full depth with cement grout.

The CPT soundings were performed on July 20, 2004. The CPT testing procedures are presented in Appendix C. A truck-mounted CPT rig with a 20-ton capacity electronic cone was utilized to perform the testing. During the CPT testing, the cone is continuously pushed into the ground and measurements are taken of the cone tip resistance, sleeve friction, and dynamic pore pressure. Pore pressure dissipation testing was performed only once at each CPT location to estimate the depth to ground-water level. Upon completion of the CPT testing, each hole was plugged and abandoned by backfilling the full depth with hole plug.

All samples were transported to our laboratories in Knoxville, Tennessee, where ash and soil samples were selected for laboratory testing. The testing program for this project consisted of the following:

- 6 Plasticity Index (Atterberg Limits) Tests
- 19 Grain Size Distribution Tests
- 36 Natural Moisture Content Tests
- 7 Specific Gravity Tests
- 4 Consolidated Undrained Triaxial Compression (CU) Test

Subsurface conditions encountered in the test borings are presented on the Test Boring Records in Appendix B. The results of the CPT testing are presented in Appendix C. The laboratory testing results are presented in Appendix D.

4.0 PROJECT INFORMATION AND SITE CONDITIONS

Project information was provided to us by Mr. Daniel Smith with Parsons E&C in the form of a Geotechnical Investigation Scope of Work and a boring/CPT location plan. The exploration included both the East and the West Ash Disposal Areas. The two sites are located on the respective sides (east and west) of the Allen Fossil Plant site. The ground surface elevations varied by as much as 1 foot and 8 feet in the areas explored at the East and West Ash Disposal Areas, respectively.

5.0 AREA AND SITE GEOLOGY

The published geologic map of this area shows that this site is underlain by fill material, which in turn is underlain by Quaternary-aged alluvium deposits. The fill material is comprised of brown to gray, fine to coarse sands with some brown and gray silts. This fill material was obtained from dredgings in the harbor development work of the site. The thickness of this fill material varies from a minimum of 20 feet to a maximum of 40 feet in the plant area. The alluvium is a water-transported deposit, consisting generally of irregular lenses of fine sand, silt and clay in the upper part, and of coarse sand, graveliferous sand, and sandy gravel in the lower part. The maximum thickness of this deposit is 175 feet in areas of the Mississippi flood plain but is believed to be about 120 feet thick in the plant area. The alluvium is shown to be underlain by a series of dense clays and sands known as the Claiborne Group. The clays and sands in this formation are highly consolidated and are of considerable thickness (up to 800 feet).

6.0 SUBSURFACE CONDITIONS

Subsurface conditions for the project were explored with eight test borings (EAD-1 through EAD-5 and WAD-1 through WAD-3) and five CPT soundings (CPT-1 through CPT-5). The locations for all the borings and CPT soundings were proposed by Parsons E&C. The boring locations were established in the field by MACTEC personnel. After drilling was completed, the boring locations were surveyed by others and we were provided with the surveyed locations and elevations of all borings. Because of access restrictions, some of the borings were offset from the originally proposed location.

Subsurface conditions encountered at each boring location are shown on the Test Boring Records in Appendix B. The Test Boring Records represent our interpretation of the subsurface conditions, based on the field logs and visual examination of the samples by one of our geotechnical engineers. The lines designating the interfaces between various strata on the Test Boring Records represent the approximate interface locations.

The test borings performed at this site typically encountered ash and alluvial materials. Alluvial soils are soils that have been transported to their present location by running water. None of the borings encountered refusal; therefore, all borings were drilled to the predetermined depths. A summary of the test boring depths is presented in Table 1.

Table 1
Test Boring Summary

Boring Number	Ground Surface Elevation (Feet msl)	Boring Termination Depth (Feet)	Boring Termination Elevation (Feet msl)
WAD-1	227.9	41.5	186.4
WAD-2	228.1	51.5	176.6
WAD-3	228.2	41.5	186.6
EAD-1	238.6	71.5	167.1
EAD-1B	238.6	100.5	138.1
EAD-2	236.6	51.5	185.1
EAD-3	236.4	51.5	184.9
EAD-4	236.6	51.5	185.1
EAD-5	230.5	51.5	179.0

Prepared/Date: HAB 8/18/04
Checked/Date: CDT 8/18/04

6.1 ASH

Ash material was encountered in all test borings. The ash interval extended from the existing ground surface to depths ranging from about 12 to 29 feet in the east disposal area and from about 15 to 23 feet in the west disposal area. The standard penetration test (SPT) resistance values in the ash ranged from 0 (weight of hammer) to over 50 blows per foot (bpf); indicating very loose to very dense relative densities.

6.2 ALLUVIUM

Alluvial soils were encountered in all test borings. The alluvial soils were encountered below the ash and extended to the termination depths in all borings. The alluvial soils consisted primarily of brown, gray, dark gray, and olive-brown silty clay, sandy silt, and silty sand. The SPT resistance values in the alluvium ranged from 3 to over 50 blows per foot (bpf), indicating soft to very hard consistencies and firm to very dense relative densities. However, the majority of the alluvium had a stiff to very stiff consistency or firm to dense relative densities.

7.0 CONE PENETROMETER TESTING

Five CPT soundings (CPT-1 through CPT-5) were performed in general accordance with ASTM Standard D5778-95 and the procedures in Appendix C. The CPT sounding locations were proposed by Parsons E&C and corresponded to five boring locations. The results are presented in Appendix C.

During the CPT testing, the cone is pushed into the ground at a constant rate. Measurement of tip resistance (q_c), sleeve friction (f_s), and dynamic pore pressure (U) are obtained at small intervals (approximately 2-inch intervals). Using published correlations, the collected data is used to estimate several soil parameters such as unit weight, strength parameters, standard penetration test (SPT) value, relative density, and others. Graphs in Appendix C show plots of recorded field data versus depth. The estimated SPT values are also plotted versus depth. The recorded field data and estimated parameters are presented in table format in Appendix C, in addition to the correlations used to develop them.

In addition to the above, pore pressure dissipation tests were performed at all CPT locations to estimate the depth to ground water. Also, seismic cone penetrometer tests were performed at the location of CPT-5 at the 5-foot depth interval. The results of the pore pressure and seismic tests are also presented in Appendix C.

The results of the CPT soundings and the estimated SPT values are in good agreement with the SPT values obtained during drilling for the corresponding locations. The results of the seismic cone penetrometer testing indicate that the estimated shear wave velocity of the ash was 571 feet per second (fps); and the shear wave velocity of the alluvium ranged from 507 to 1,032 fps.

8.0 LABORATORY TESTING AND DISCUSSION OF TEST RESULTS

This section describes the geotechnical laboratory testing program. The laboratory testing procedures and laboratory test results are included in Appendix D. The following paragraphs provide a short discussion of the general types of testing conducted and the test results.

8.1 INDEX PROPERTIES, SPECIFIC GRAVITY AND UNIT WEIGHTS

Natural moisture content tests were performed on many of the split-spoon and undisturbed soil samples. Liquid limit, plastic limit, and plasticity index tests (collectively referred to herein as Atterberg limits); specific gravity tests; and grain size distributions with hydrometer analyses were performed on selected samples and a split-spoon sample. These tests were used to confirm our visual-manual classifications.

The ash samples tested were all non-plastic. The plasticity tests were performed only on the clayey alluvial soils. Liquid limits for the clayey alluvium tested varied from 56 to 76; plastic limits varied from 24 to 34; and plasticity indices varied from 32 to 42. The tested alluvial soils classified as CH in accordance with the Unified Soil Classification System (USCS).

Natural moisture contents for the ash ranged from 2.9 percent (boring EAD-3) to 139.3 percent (boring EAD-1). However, the majority of the moisture contents in the ash varied from about 12.8 to 33.4 percent. The natural moisture content of the alluvium ranged from 13.9 percent (boring WAD-3) to 42.7 percent (boring WAD-3). The majority of the alluvium samples tested had a natural moisture content ranging from about 20 to 37 percent.

Specific gravities of the ash ranged from 2.53 to 2.83 and averaged about 2.72. Specific gravities of the alluvium was 2.69.

8.2 STRENGTH

Four consolidated undrained (CU) triaxial compression test were performed on undisturbed ash and soil samples. Three CU tests were performed on ash samples obtained from borings EAD-1, EAD-3, and WAD-2. The fourth CU test was performed on an alluvium sample obtained from boring WAD-2.

The results of the CU tests performed on the ash indicated that the tested samples had a total friction angle ranging from 26.5 to 31.9 degrees and a total cohesion intercept from 1,950 to 3,700 pounds per square foot (psf). The tests also indicated that the effective friction angle ranged from 35.5 to 39.8 degrees and the effective cohesion intercept ranged from 0.0 to 1,010 psf for the ash samples tested.

The CU test performed on the alluvium yielded a total friction angle of 19.7 degrees and a total cohesion intercept of 1,050 psf. The effective friction angle was 35.8 degrees and the effective cohesion intercept was 0.0 psf.

9.0 GROUND-WATER CONDITIONS

Ground-water levels were observed in the test borings at the time of drilling. Further, ground-water measurements were obtained approximately 24 hours or later after the completion of drilling. The recorded ground-water levels are presented in Table 2. For safety reasons, the borings were backfilled promptly; consequently, long-term measurements for the presence or absence of ground water were not obtained.

Fluctuations in the ground-water level occur because of variation in rainfall, evaporation, construction activity, surface run-off, and other site-specific factors such as fluctuation of water levels in the adjacent Lake McKellar.

Table 2
Ground-Water Data

Boring Number	Ground Elevation (msl) (Feet)	Depth to Ground Water at Time of Drilling (Feet)	Ground-Water Elevation (msl) at Time of Drilling (Feet)	Depth to Ground Water 24 Hours After Drilling (Feet)	Ground-Water Elevation 24 Hours After Drilling (msl) (Feet)
WAD-1	227.9	Not Recorded	Not Recorded	31.6*	196.3
WAD-2	228.1	Not Recorded	Not Recorded	30.5*	197.6
WAD-3	228.2	Not Recorded	Not Recorded	32.6	195.6
EAD-1	238.6	7.8	230.8	Not Measured	Not Measured
EAD-1B	238.6	Not Recorded	Not Recorded	Not Measured	Not Measured
EAD-2	236.6	Not Recorded	Not Recorded	3.0*	233.6
EAD-3	236.4	Not Recorded	Not Recorded	6.8	229.6
EAD-4	236.6	Not Recorded	Not Recorded	14.8	221.8
EAD-5	230.5	Not Recorded	Not Recorded	3.0*	227.5

*This is the depth of the hole cave-in.

Prepared/Date: HAB 8/18/04
Checked/Date: CDT 8/18/04

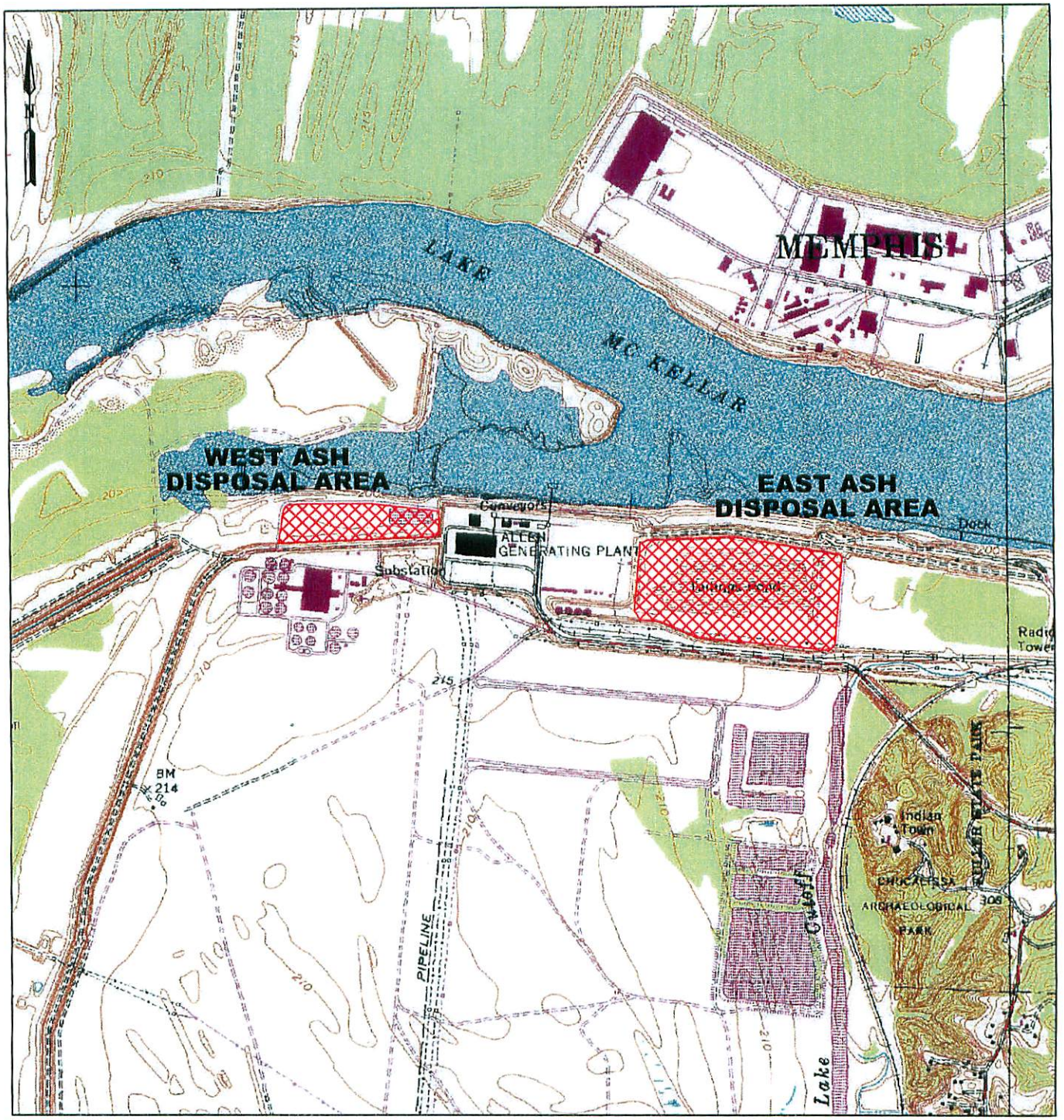
10.0 BASIS OF RESULTS

The results provided herein are based on the encountered subsurface conditions related to the specific project and site discussed in this report.

Regardless of the thoroughness of a field exploration, there is always a possibility that conditions between test locations will differ from those at specific test locations, and that conditions may not be anticipated. In addition, interpretation of the data is critical to the intended design and/or analysis. Therefore, experienced geotechnical engineer should interpret the field data and review any site-specific analysis or design that incorporates the field data. We recommend that TVA retain MACTEC to provide this service, based upon our familiarity with the subsurface conditions, the field and laboratory data, and our geotechnical experience.

Our exploration services include storing the collected samples and making them available for inspection for a period of 30 days. The samples are then discarded unless you request otherwise.

FIGURES



SOURCE: USGS TOPOGRAPHIC MAP OF THE FLETCHER LAKE, TN QUADRANGLE

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FIGURE 1: SITE LOCATION MAP
ASH DISPOSAL AREAS
TVA ALLEN FOSSIL PLANT
MEMPHIS, TENNESSEE

DRAFTING BY:	PREPARED BY: HAB	CHECKED BY: CDT
JOB NUMBER: 3043041037/0001	DATE: AUGUST 2, 2004	SCALE: 0 2000'

COORDINATES: N 35°04'27" W 90°08'57"

3043041037_01_FIG1.dwg Mon, 02 Aug 2004 - 1:34pm reverend

LEGEND

EAD-1 BORING LOCATION AND IDENTIFICATION

CPT-1 CONE PENETROMETER SOUNDING LOCATION AND IDENTIFICATION

NOTE: THIS DRAWING WAS ADAPTED FROM A BORING LOCATION PLAN PROVIDED BY PARSONS E&C.

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FIGURE 2: BORING LOCATION PLAN
ASH DISPOSAL AREAS
TVA ALLEN FOSSIL PLANT
MEMPHIS, TENNESSEE

DRAWN BY:	PREPARED BY: HAB	CHECKED BY:
JOB NUMBER: 3043041037/0001	DATE: AUGUST 18, 2004	SCALE: 0 300'

APPENDIX A

FIELD EXPLORATORY PROCEDURES

FIELD EXPLORATORY PROCEDURES

Soil Test Boring (Hollow Stem)

All boring and sampling operations were conducted in general accordance with ASTM D 1586. The borings were advanced by mechanically twisting continuous steel hollow-stem auger flights into the ground. At regular intervals, soil samples were obtained with a standard 1.4-inch I.D., 2-inch O.D., split-tube sampler. The sampler was first seated six inches to penetrate any loose cuttings and then driven an additional foot with blows of a 140-pound hammer falling 30 inches. The number of hammer blows required to drive the sampler the final foot of penetration was recorded and is designated the "standard penetration resistance (SPT)". Proper evaluation of the penetration resistance provides an index to the soil's strength, density, and ability to support foundations.

Representative portions of the soil samples obtained from the split-tube sampler were sealed in glass jars and transported to our laboratory, where they were examined by our engineer to verify the driller's field classifications. Test Boring Records are attached, graphically showing the soil descriptions and penetration resistances.

Undisturbed Sampling

The relatively undisturbed samples were obtained by pushing a section of 3-inch O.D., 16-gauge steel tubing into the soil at the desired sampling level. The sampling was performed in general accordance with ASTM D-1587. The tube, together with the encased soils, was carefully removed from the ground, made airtight, and transported to our laboratory.

Boring Backfill

The borings were backfilled to the ground surface with auger cuttings. The owner is advised that, even with this backfill technique, there is the possibility of future borehole subsidence depending on actual subsurface conditions, surface drainage, etc. The property owner should monitor the boring locations over time to discover subsidence and make the necessary repairs.

APPENDIX B

KEY TO SYMBOLS AND DESCRIPTIONS

TEST BORING RECORDS

GROUP SYMBOLS	TYPICAL NAMES	GROUP SYMBOLS	TYPICAL NAMES
	TOPSOIL		**CONCRETE**
	ASPHALT		**DOLOMITE**
	GRAVEL		**LIMESTONE**
	FILL		**SHALE**
	SUBSOIL		**LIMESTONE/SHALE** - Limestone with shale interbeds
	ALLUVIUM		**SANDSTONE**
	COLLUVIUM		**SILTSTONE**
	RESIDUUM - Soft to firm		**AUGER BORING**
	RESIDUUM - Stiff to very hard		**UNDISTURBED SAMPLE ATTEMPT**

	Undisturbed Sample 1.5-2.0 = Recovered (ft) / Pushed (ft)		
	Split Spoon Sample		Auger Cuttings
	Rock Core 60-100 = RQD / Recovery		Dilatometer
	No Sample		Crandall Sampler
	Rotary Drill		Pressure Meter
▽	Water Table at time of drilling	○	No Recovery
		▼	Water Table after 24 hours

Correlation of Penetration Resistance with Relative Density and Consistency

SAND & GRAVEL		SILT & CLAY	
No. of Blows	Relative Density	No. of Blows	Consistency
0 - 4	Very Loose	0 - 2	Very Soft
5 - 10	Loose	3 - 4	Soft
11 - 20	Firm	5 - 8	Firm
21 - 30	Very Firm	9 - 15	Stiff
31 - 50	Dense	16 - 30	Very Stiff
Over 50	Very Dense	31 - 50	Hard
		Over 50	Very Hard

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

SILT OR CLAY	SAND			GRAVEL		Cobbles	Boulders
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

KEY TO SYMBOLS AND DESCRIPTIONS

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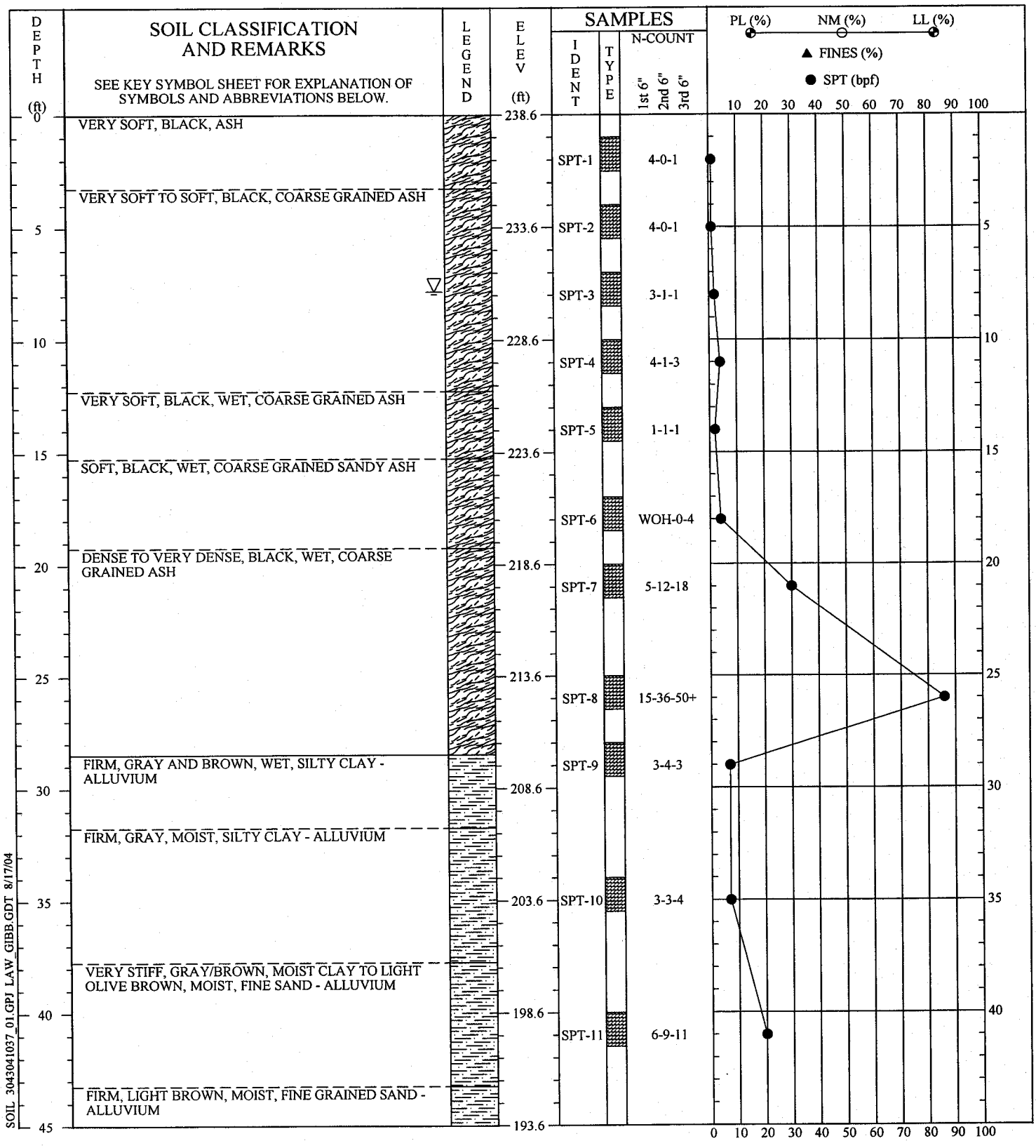

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/17/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren	
Prepared By: Smith	
Checked By: H.A.B.	

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 17, 2004 **BORING NO.:** EAD-1

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 2

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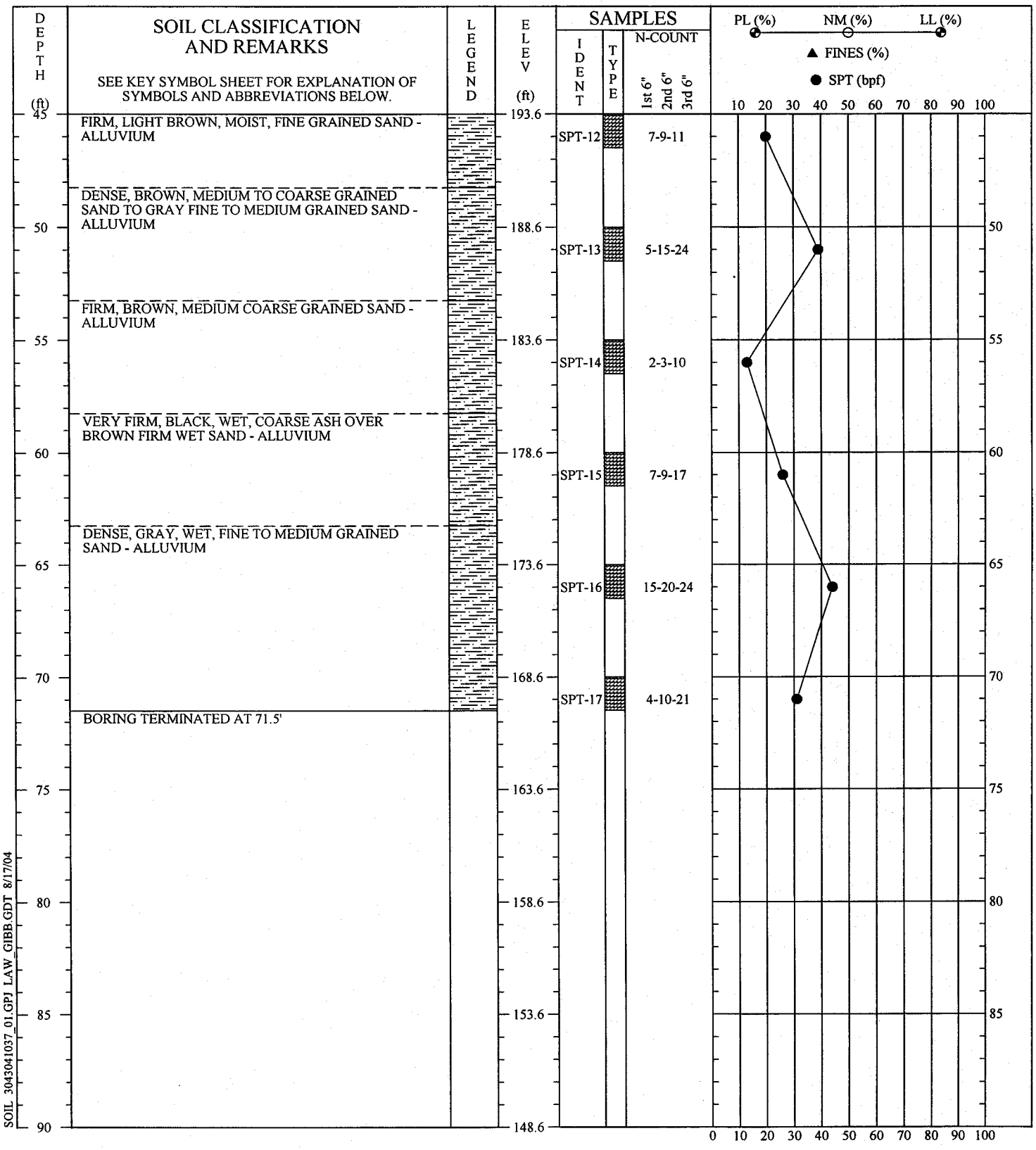

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/17/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 17, 2004 **BORING NO.:** EAD-1

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

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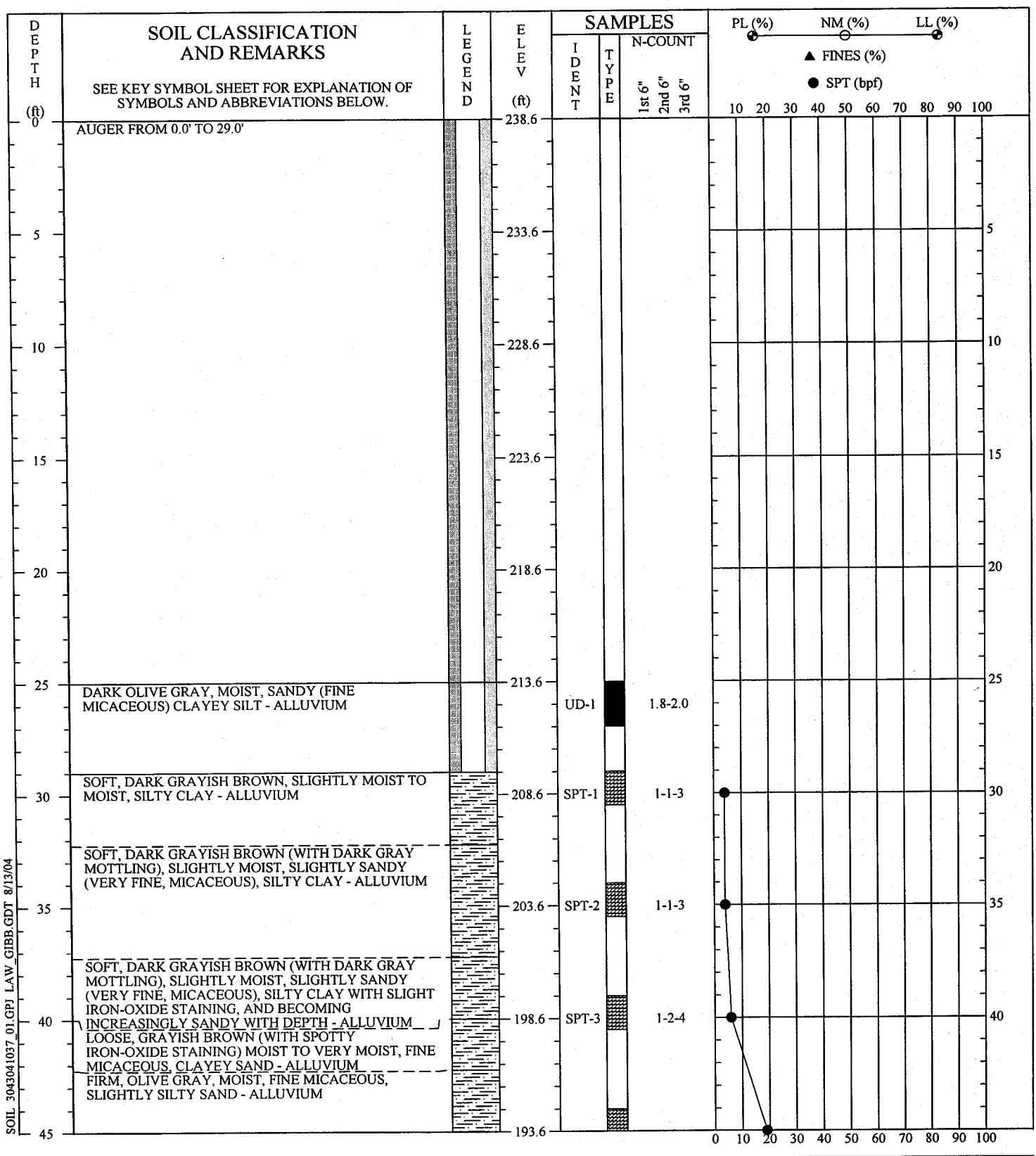

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. NO GROUND WATER ENCOUNTERED AT TIME OF EXPLORATION. BORING IS LOCATED APPROXIMATELY 10.0' NORTH OF EAD-1, AND IS THE THIRD ATTEMPT TO SAMPLE TO A DEPTH OF 100.0'.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Akins
Prepared By: Mason
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 21, 2004 **BORING NO.:** EAD-1B

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 3

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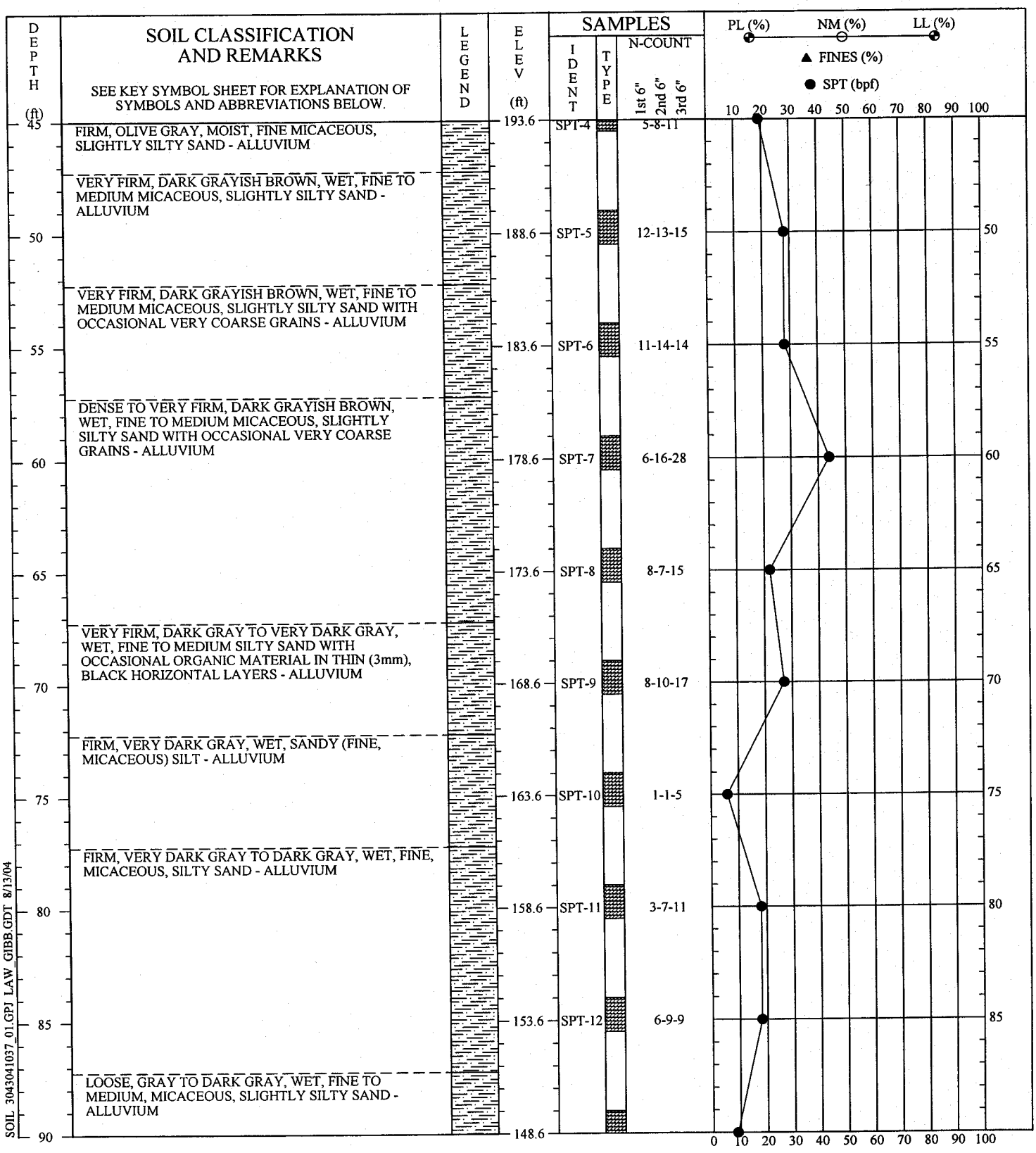

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. NO GROUND WATER ENCOUNTERED AT TIME OF EXPLORATION. BORING IS LOCATED APPROXIMATELY 10.0' NORTH OF EAD-1, AND IS THE THIRD ATTEMPT TO SAMPLE TO A DEPTH OF 100.0'.

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Driller : Akins
Prepared By: Mason
Checked By: H.A.B.

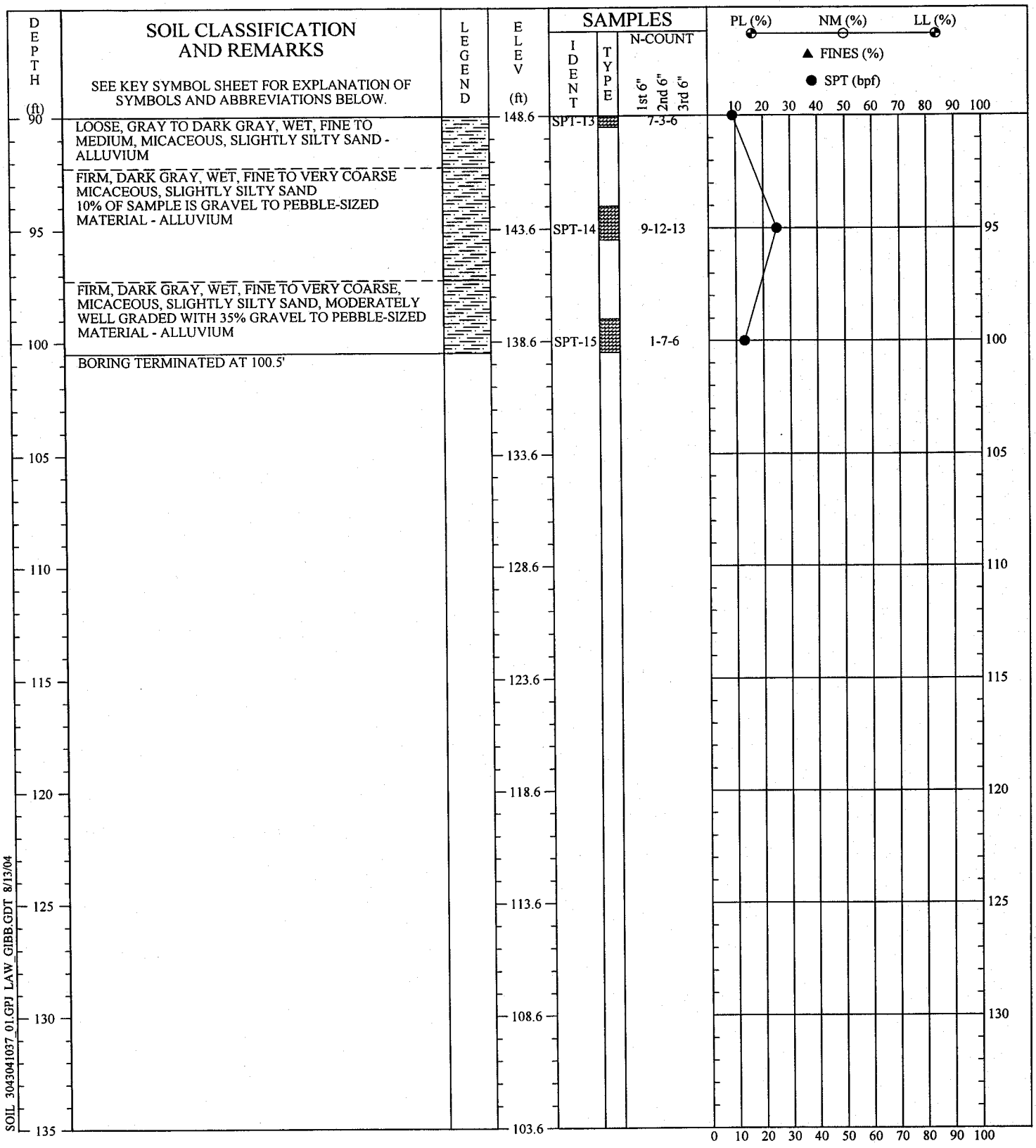
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 21, 2004 **BORING NO.:** EAD-1B

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 3**

MACTEC



SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. NO GROUND WATER ENCOUNTERED AT TIME OF EXPLORATION. BORING IS LOCATED APPROXIMATELY 10.0' NORTH OF EAD-1, AND IS THE THIRD ATTEMPT TO SAMPLE TO A DEPTH OF 100.0'.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Akins
Prepared By: Mason
Checked By: H.A.B.

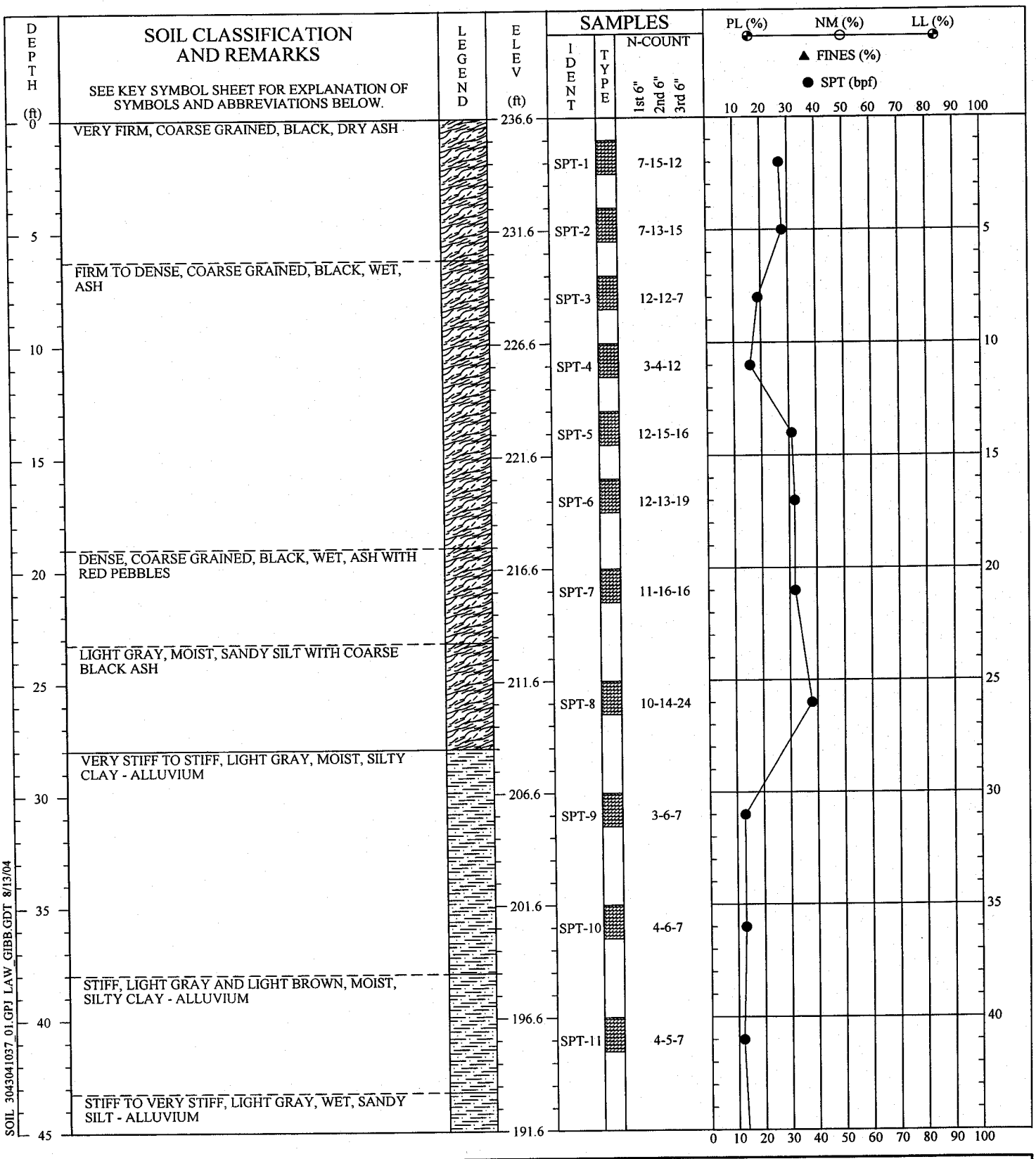
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 21, 2004 **BORING NO.:** EAD-1B

PROJ. NO.: 3043041037/0001 **PAGE** 3 **OF** 3

MACTEC



REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 3.0' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

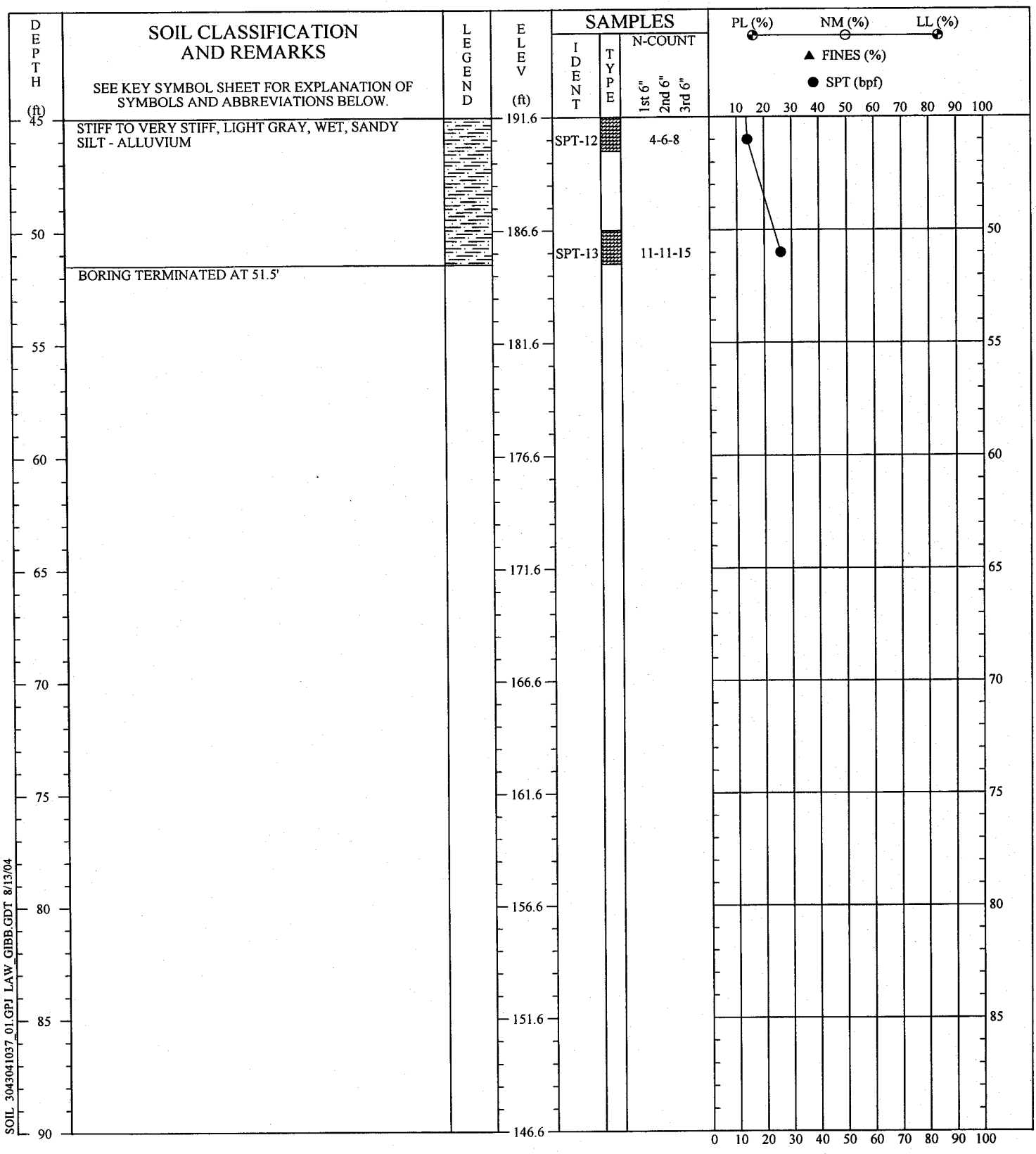
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 15, 2004 **BORING NO.:** EAD-2

PROJ. NO.: 3043041037/0001 **PAGE 1 OF 2**

MACTEC



SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 3.0' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 15, 2004 **BORING NO.:** EAD-2

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

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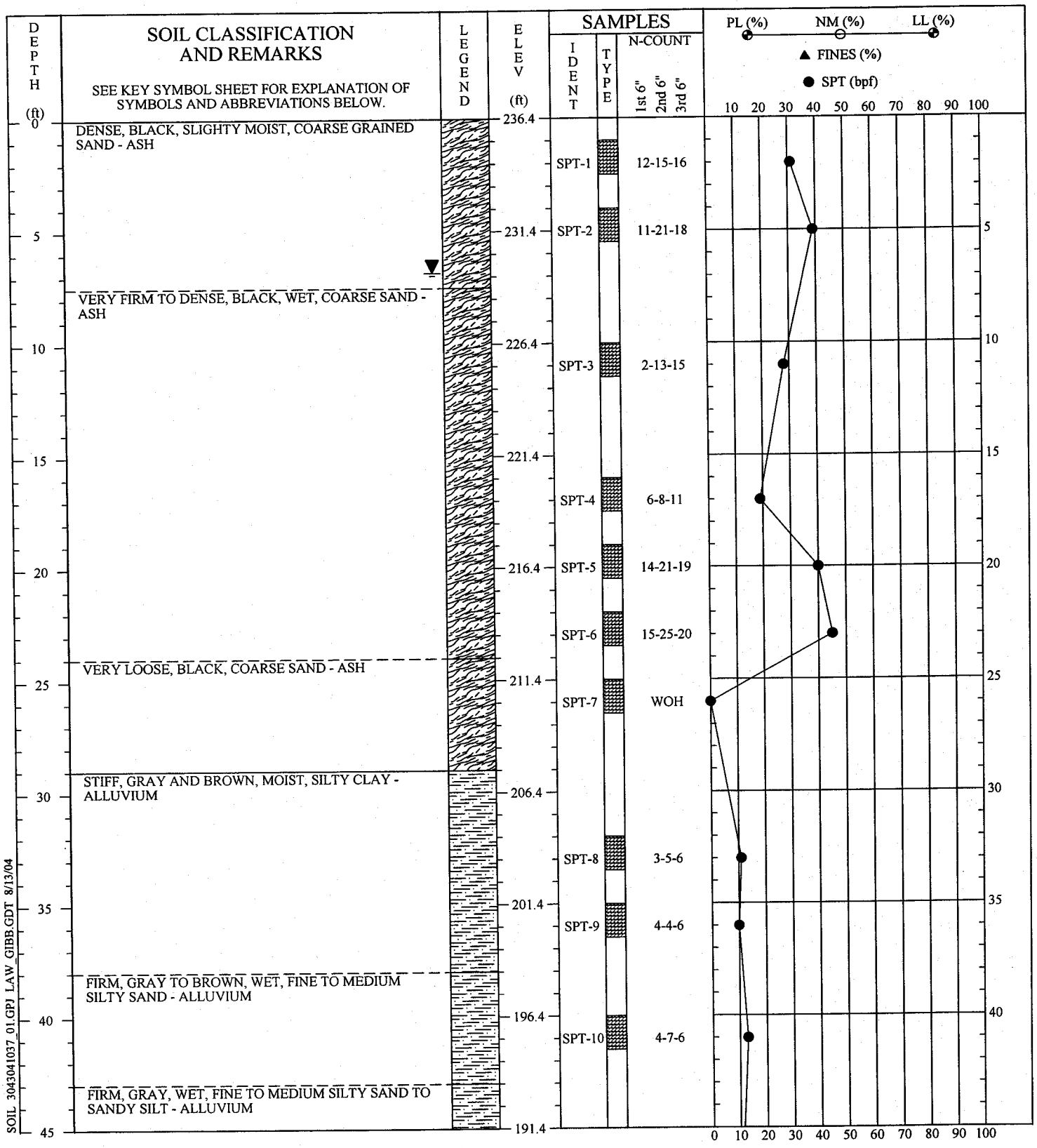

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 18, 2004 **BORING NO.:** EAD-3

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 2

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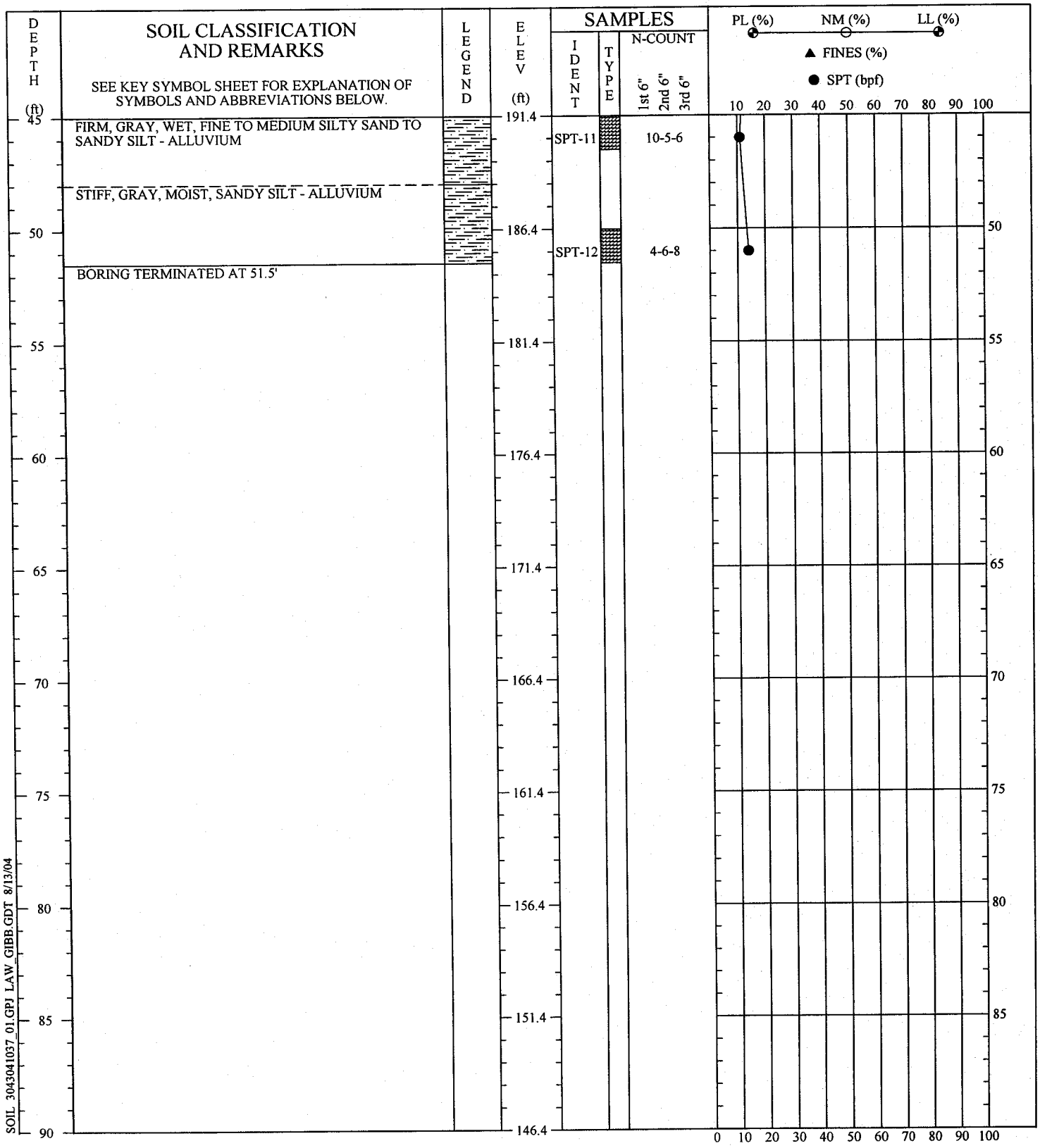

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

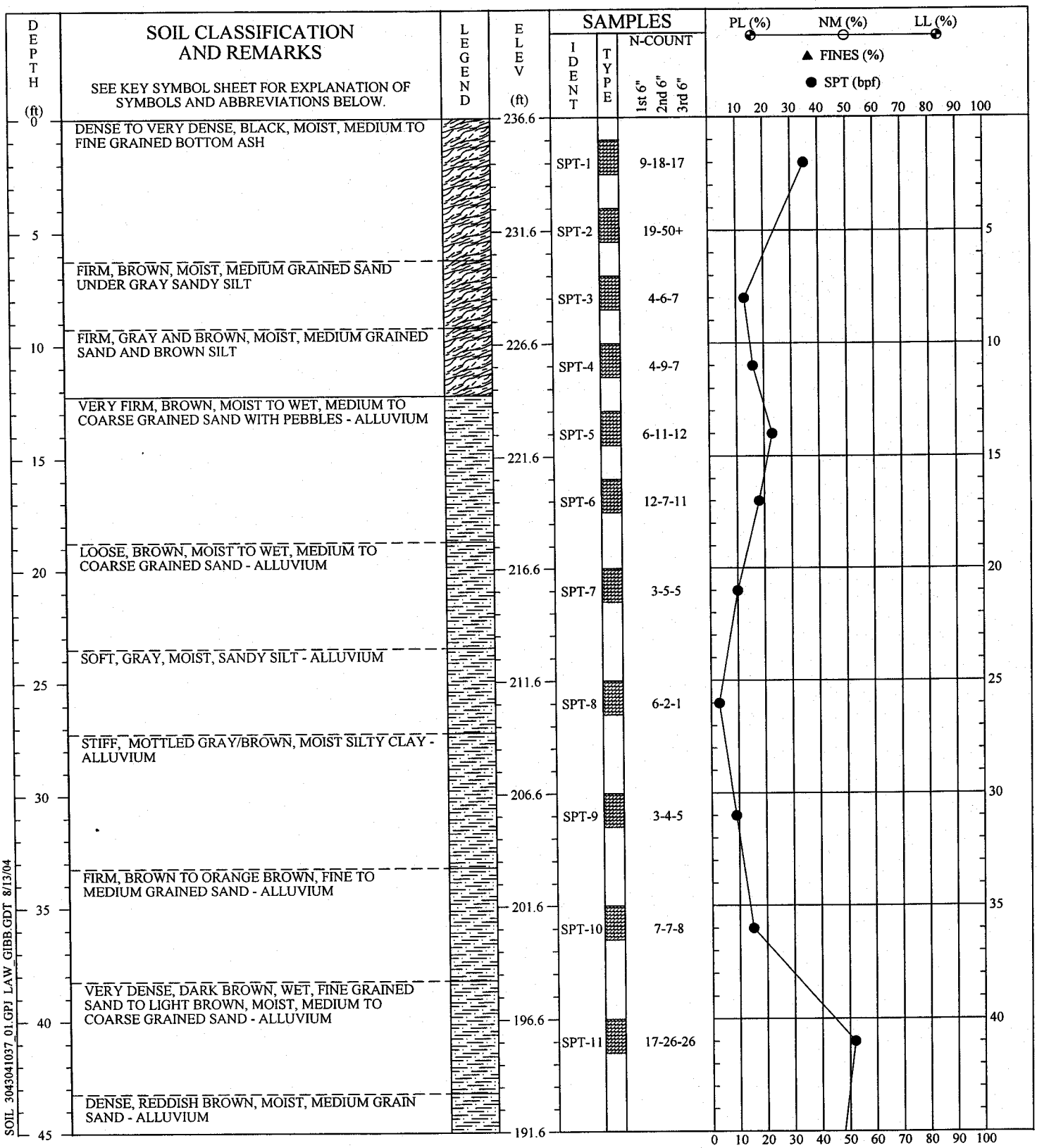
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 18, 2004 **BORING NO.:** EAD-3

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

MACTEC



SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 14.8' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 16, 2004 **BORING NO.:** EAD-4

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 2

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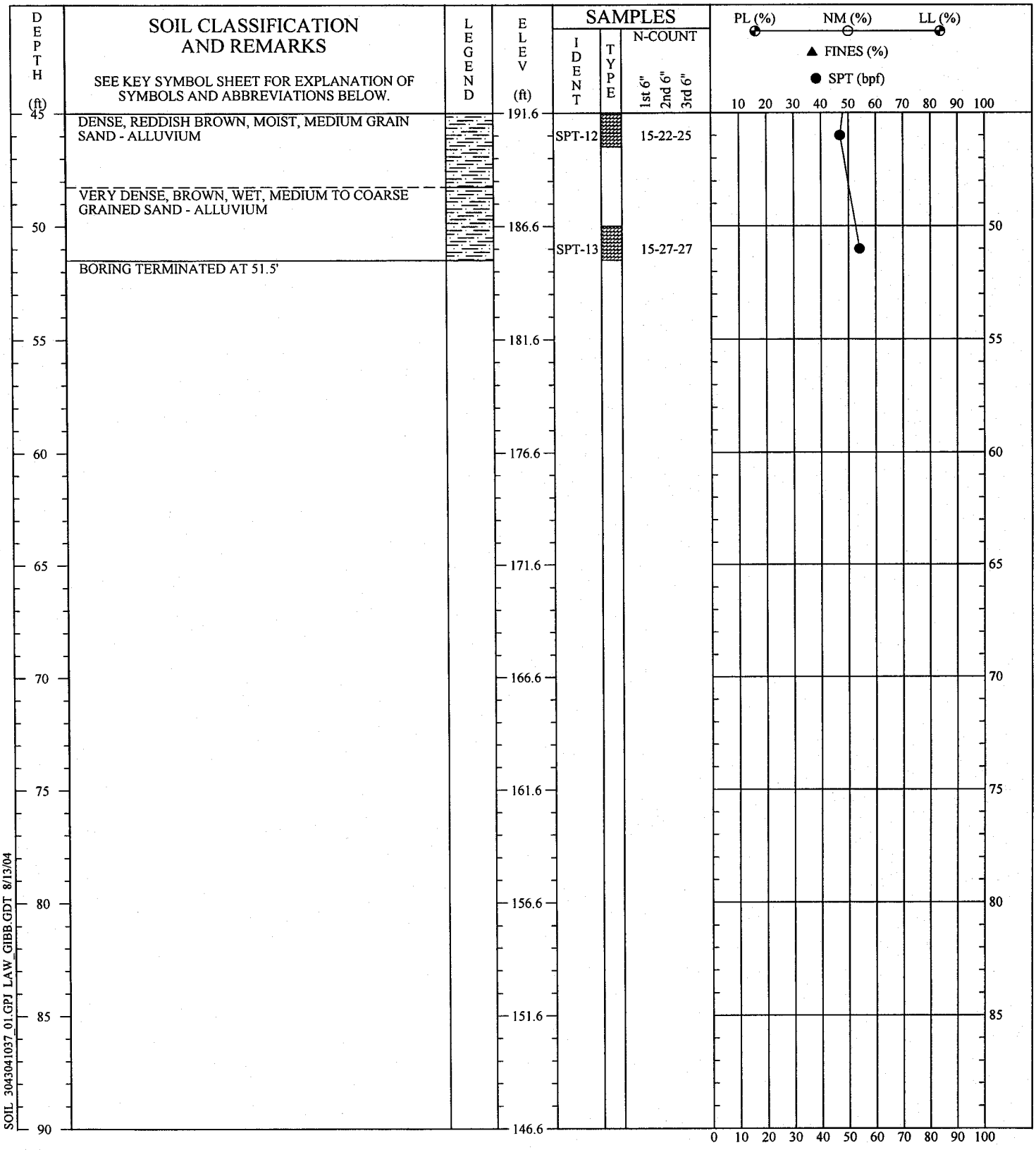

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 14.8' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 16, 2004 **BORING NO.:** EAD-4

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

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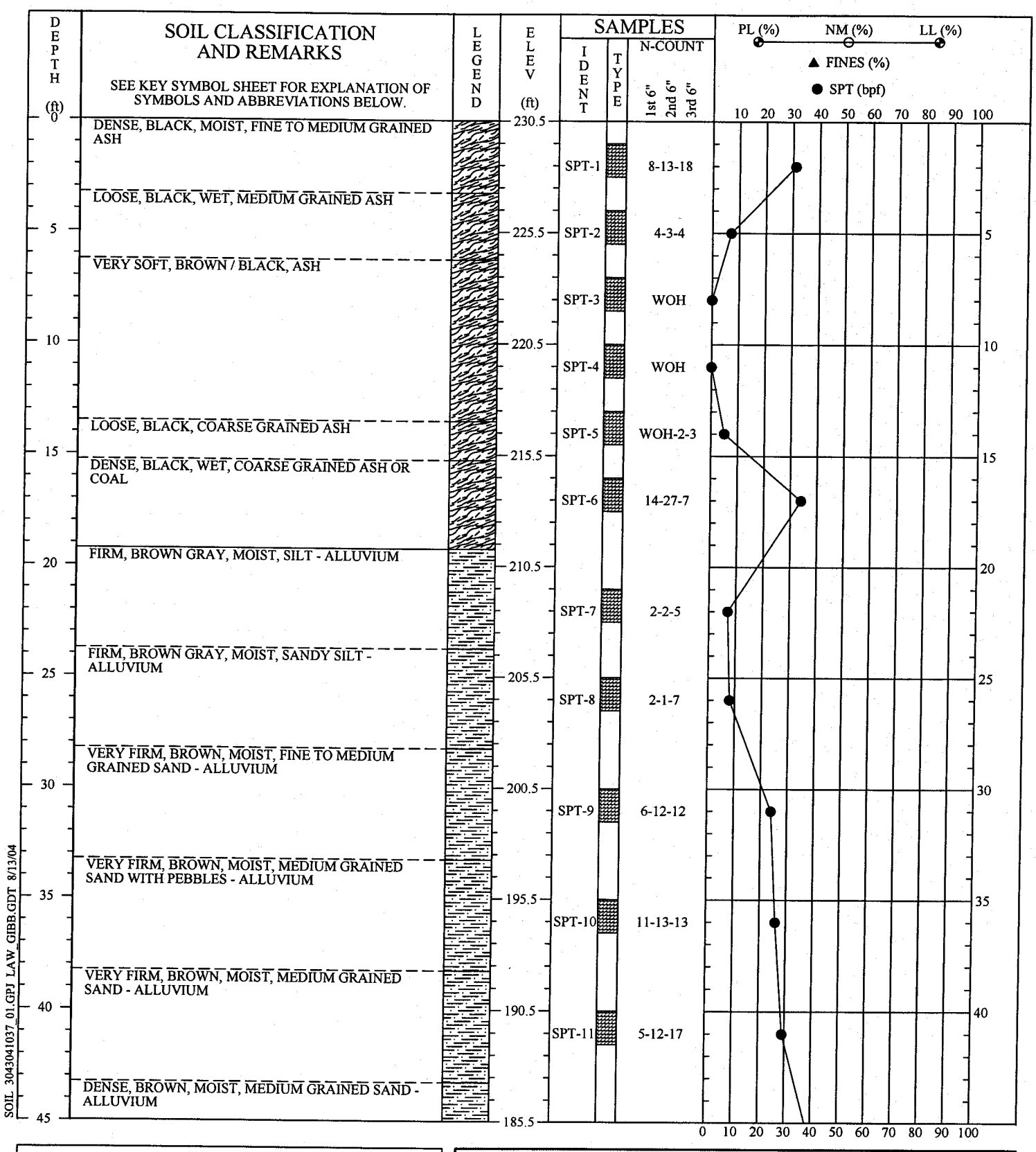

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 3.0' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 15, 2004 **BORING NO.:** EAD-5

PROJ. NO.: 3043041037/0001 **PAGE 1 OF 2**

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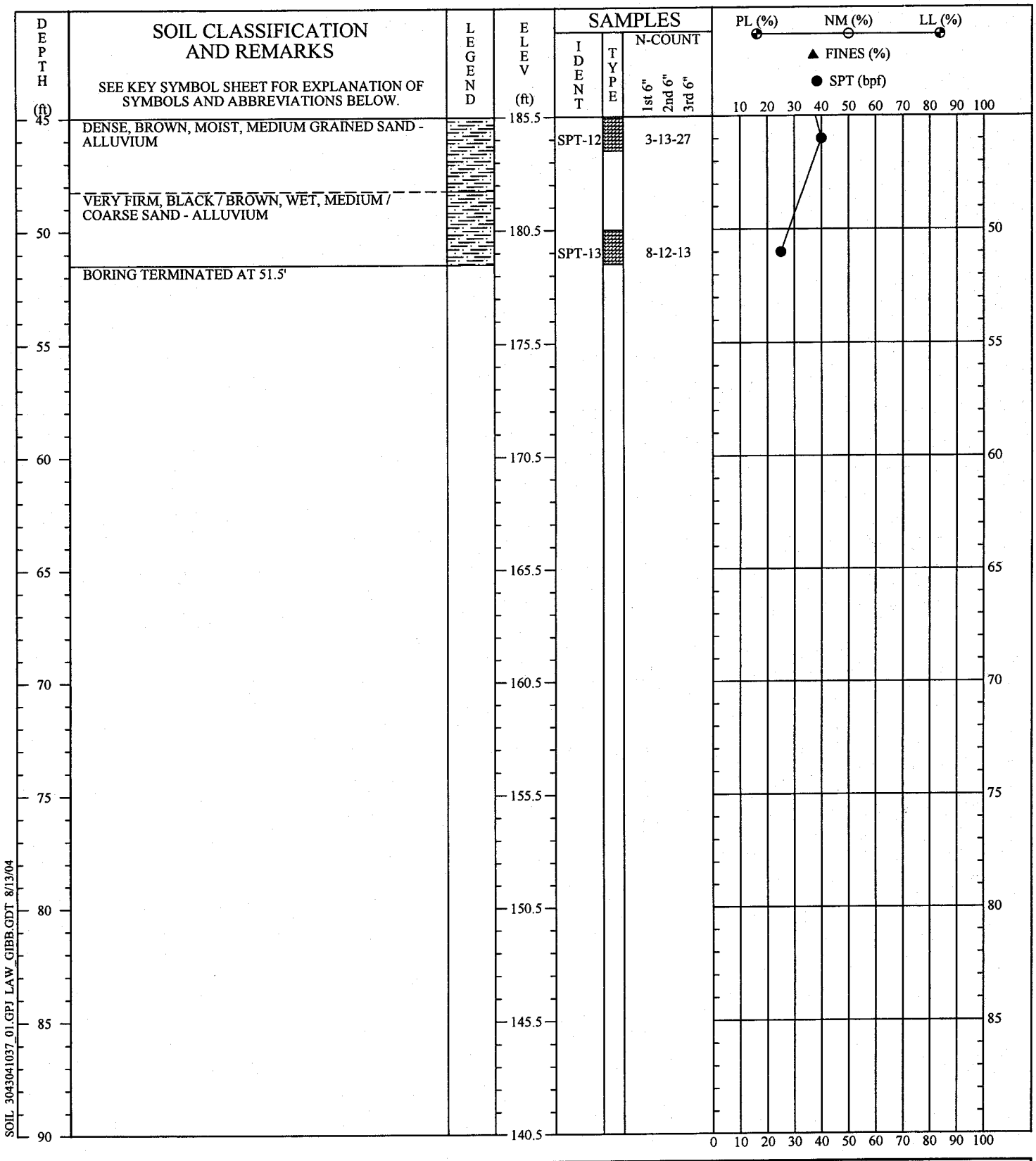

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 3.0' ON 7/17/04.

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Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 15, 2004 **BORING NO.:** EAD-5

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

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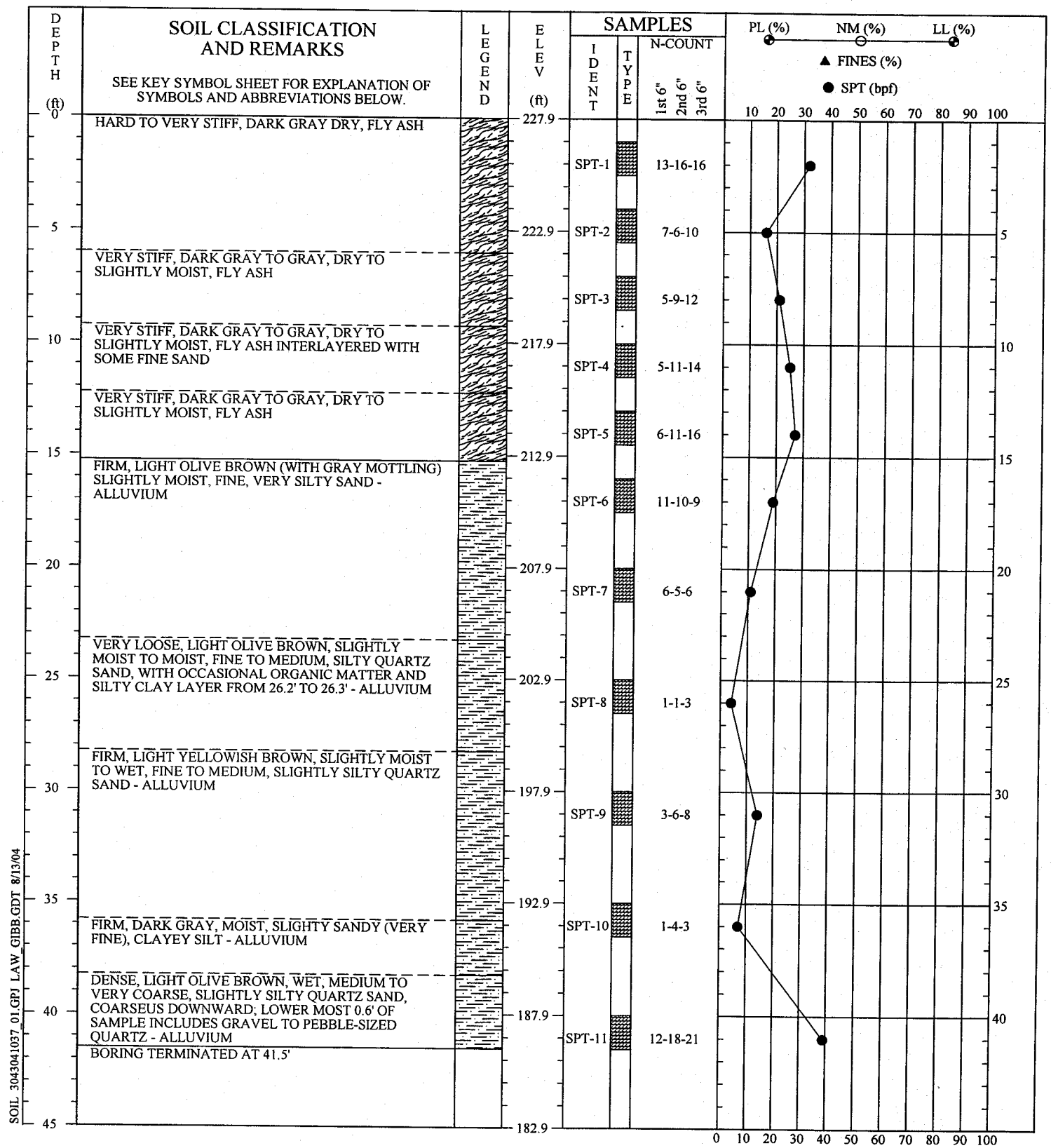

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 31.5' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Mason
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 14, 2004 **BORING NO.:** WAD-1

PROJ. NO.: 3043041037/0001 **PAGE 1 OF 1**

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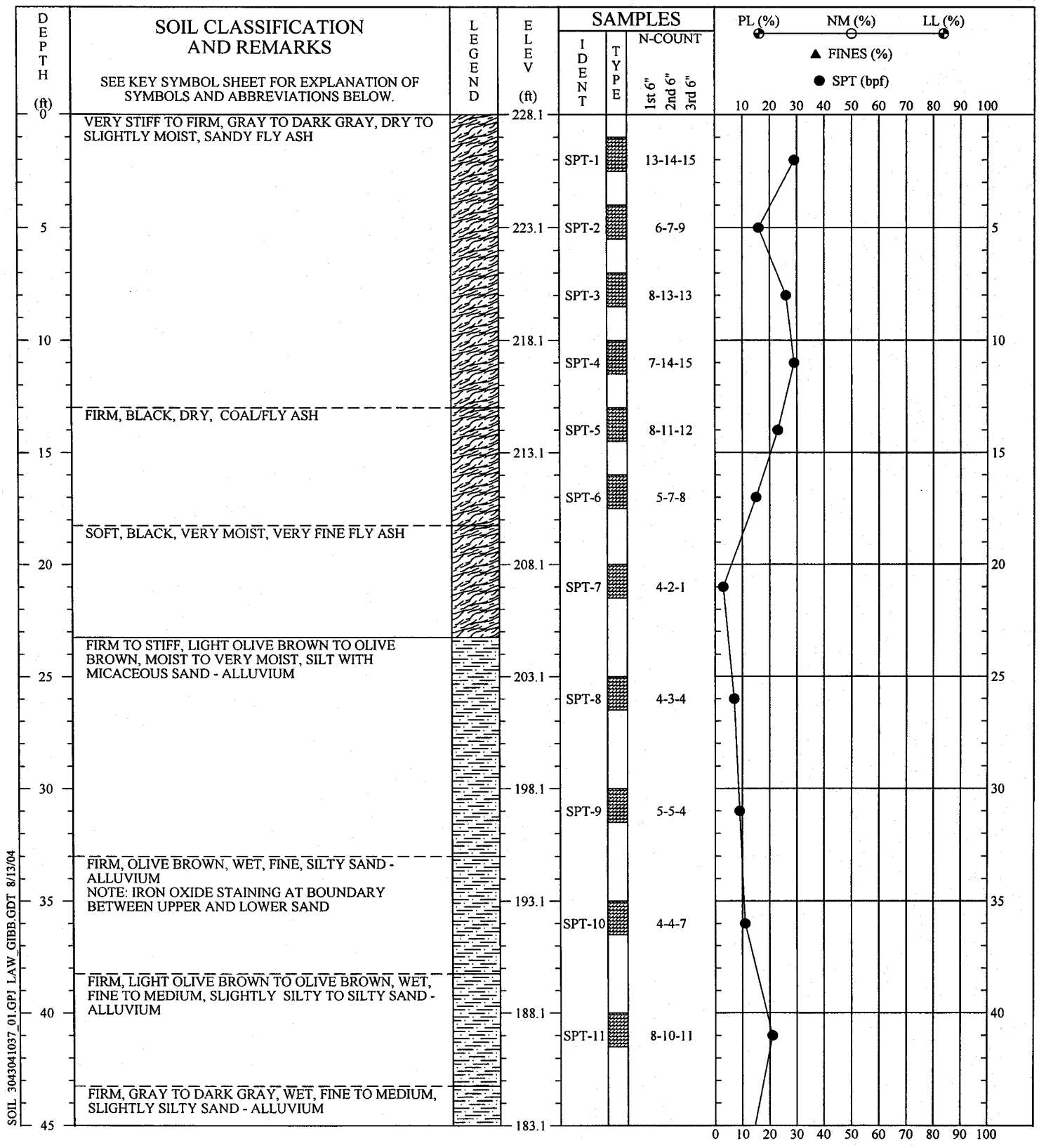

SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 30.5' ON 7/17/04.

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Driller : Warren
Prepared By: Mason
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 14, 2004 **BORING NO.:** WAD-2

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 2

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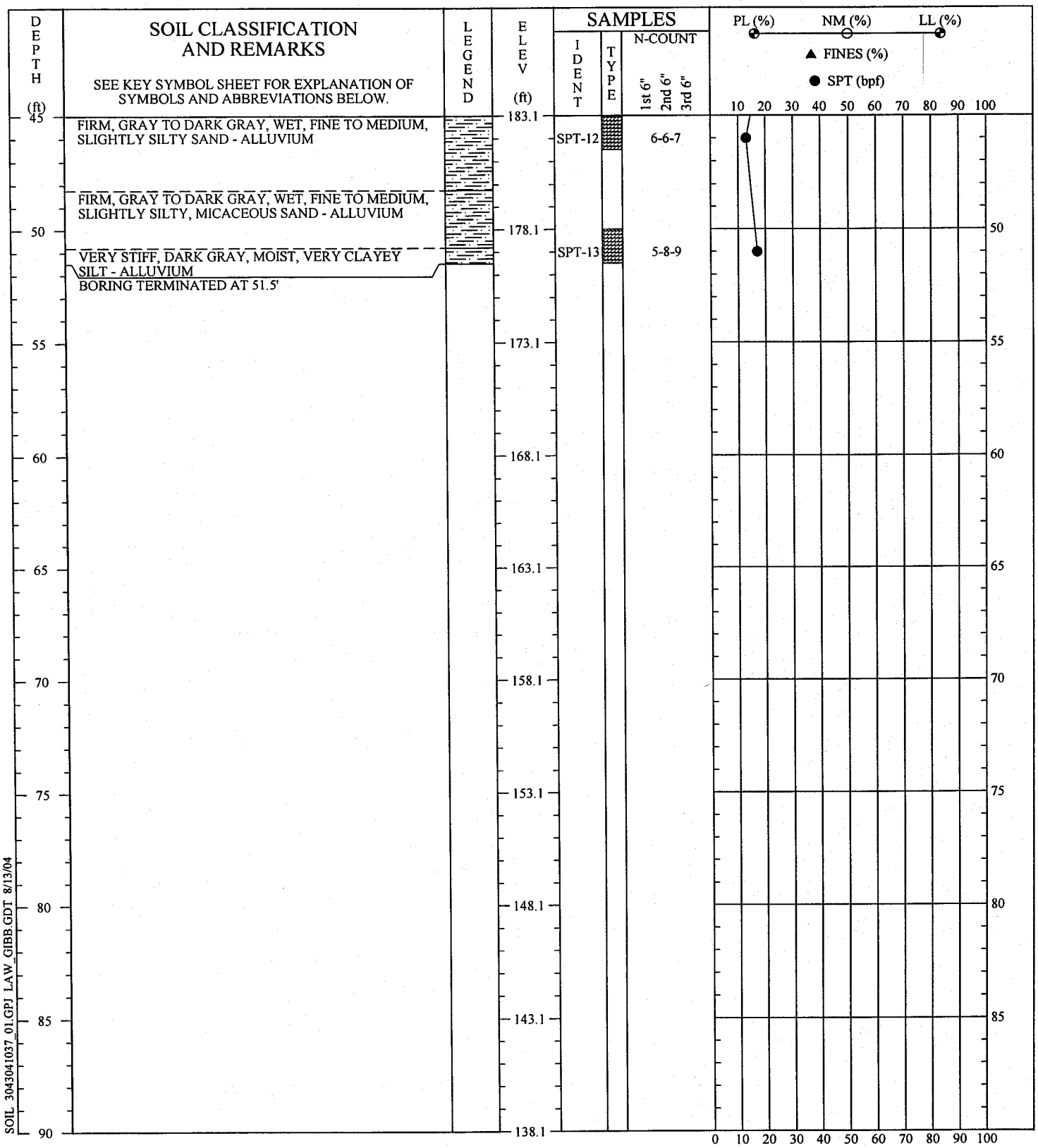


REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER. HOLE CAVED IN TO A DEPTH OF ABOUT 30.5' ON 7/17/04.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Mason
Checked By: H.A.B.

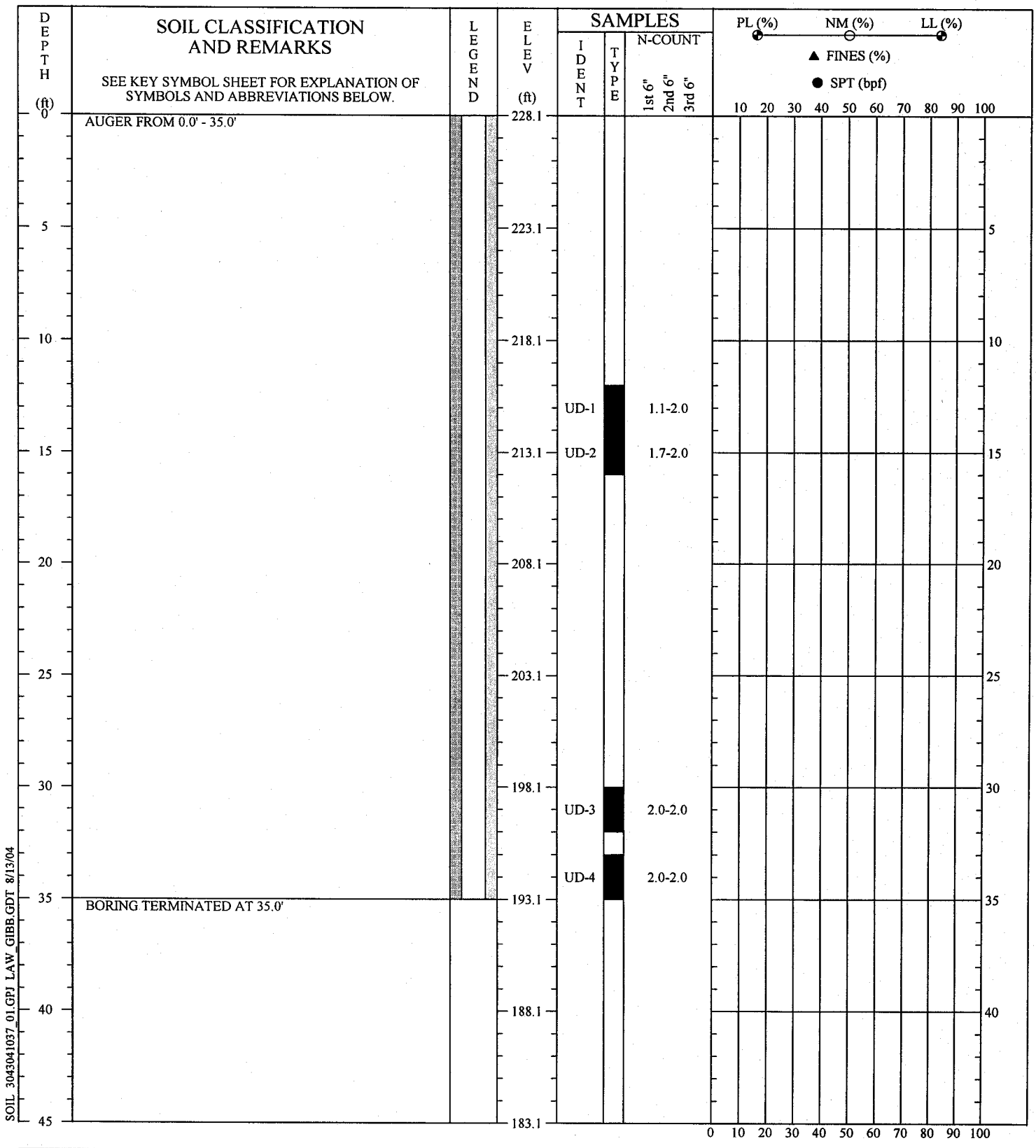
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 14, 2004 **BORING NO.:** WAD-2

PROJ. NO.: 3043041037/0001 **PAGE 2 OF 2**

MACTEC



SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: TEST BORING WAD-2 WAS OFFSET APPROXIMATELY 10.0' TO THE WEST TO OBTAIN UNDISTURBED SAMPLES.

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

Driller : Warren
Prepared By: Mason
Checked By: H.A.B.

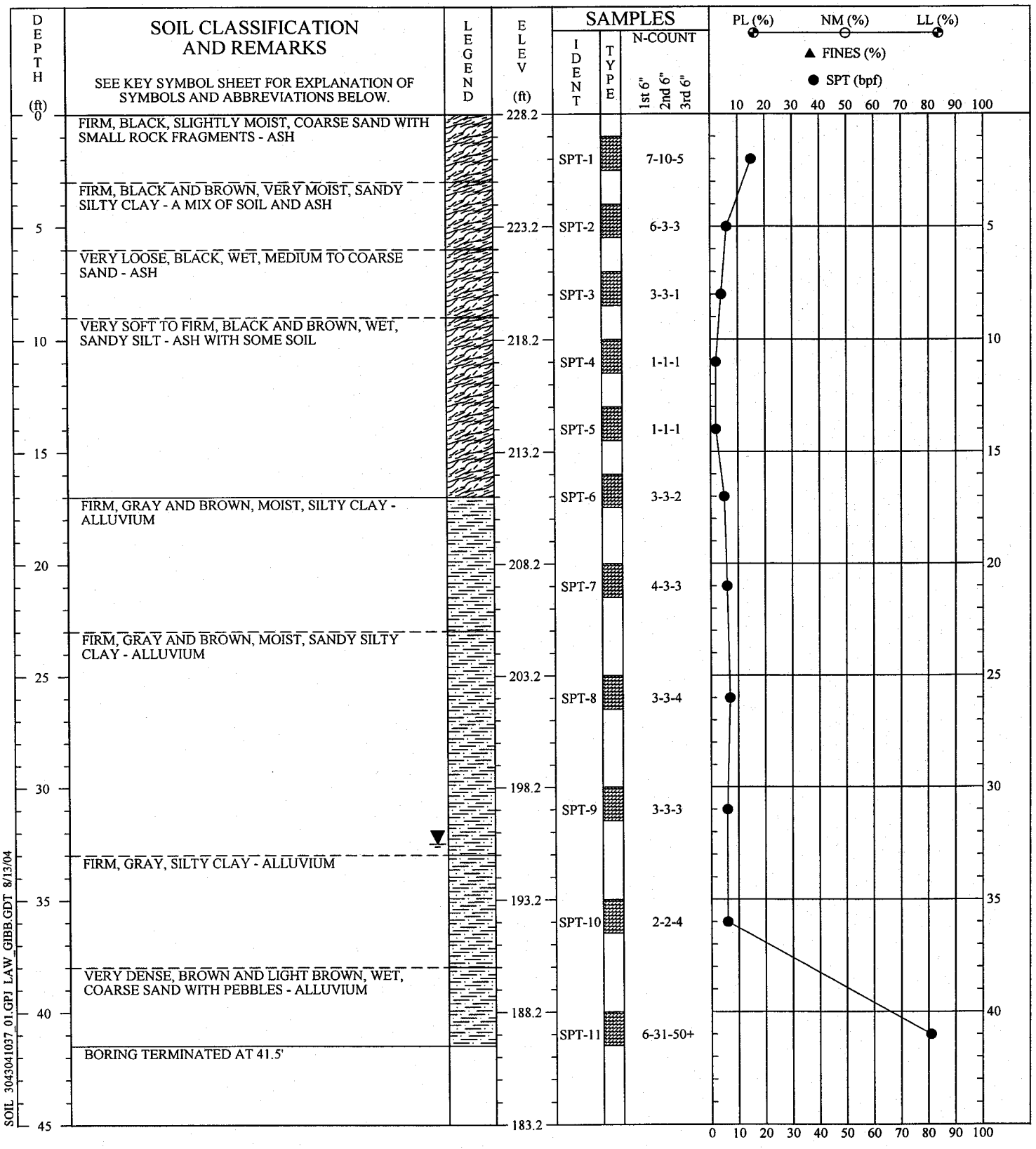
SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 14, 2004 **BORING NO.:** WAD-2ud

PROJ. NO.: 3043041037/0001 **PAGE 1 OF 1**

MACTEC



SOIL 3043041037_01.GPJ LAW_GIBB.GDT 8/13/04

REMARKS: STANDARD PENETRATION RESISTANCE TESTING PERFORMED USING AN AUTOMATIC HAMMER.

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Driller : Warren
Prepared By: Smith
Checked By: H.A.B.

SOIL TEST BORING RECORD

PROJECT: Allen Fossil Plant - East and West Ash Ponds

DRILLED: July 15, 2004 **BORING NO.:** WAD-3

PROJ. NO.: 3043041037/0001 **PAGE** 1 **OF** 1

MACTEC

APPENDIX C

CONE PENETROMETER TEST PROCEDURES

CONE PENETROMETER TEST RESULTS

CONE PENETROMETER TEST PROCEDURES

Cone Penetration Testing Procedure (CPT)

Gregg In Situ, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm^2 and a friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and dynamic pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are simultaneously printed and stored on disk for further analysis and reference. All CPT soundings are performed in accordance with ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip, *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain Pore Pressure Dissipation Tests (PPDT's) at 5 second intervals during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.

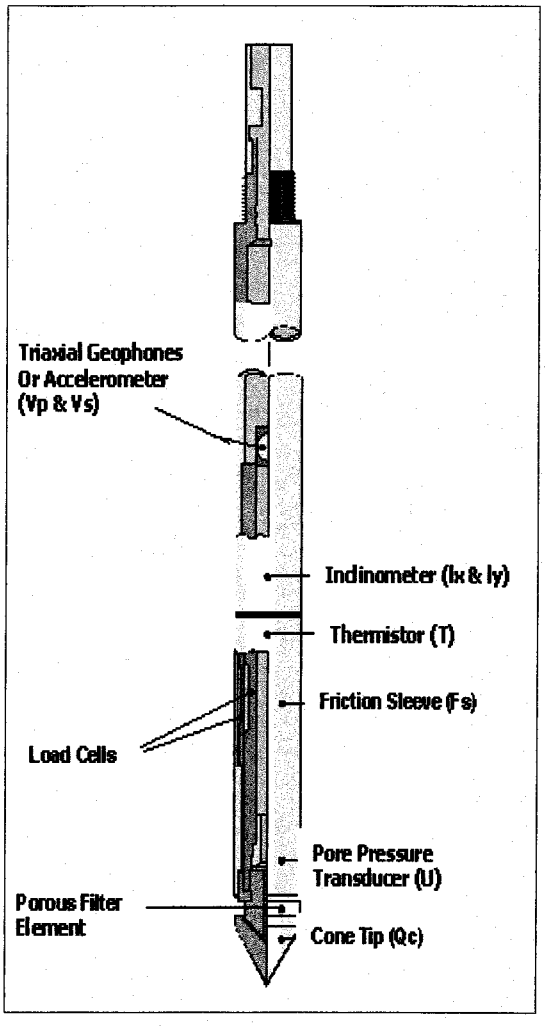


Figure CPT

When the soundings are complete, the test holes are grouted using a Gregg In Situ support rig. The grouting procedure consists of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

GREGG IN SITU

Environmental and Geotechnical Site Investigation Contractors

GREGG IN SITU CPT Interpretations as of July 31, 2002 (Release 1.20c)

GREGG IN SITU's interpretation routine provides a tabular output of geotechnical parameters based on current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended. GREGG IN SITU, Inc. and GREGG DRILLING & TESTING Inc. do not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the program and can not assume liability for any use of the results in any design or review. Representative hand calculations should be made for any parameter that is critical for design purposes. The end user of the interpreted output should also be fully aware of the techniques and the limitations of any method used in this program. The purpose of this document is to inform the user as to which methods were used and what the appropriate papers and/or publications are for further reference.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (e.g. 0.20m). Note that q_t is the recorded tip value, q_c, corrected for pore pressure effects. Since all GREGG IN SITU cones have equal end area friction sleeves, pore pressure corrections to sleeve friction, Fs, are not required.

The tip correction is: $q_t = q_c + (1-a) \bullet u_2$

where: q_t is the corrected tip resistance
q_c is the recorded tip resistance
u_2 is the recorded dynamic pore pressure behind the tip (u_2 position)
a is the Net Area Ratio for the cone (typically 0.85 for GREGG IN SITU cones)

The total stress calculations are based on soil unit weights that have been assigned to the Soil Behavior Type zones, from a user defined unit weight profile or by using a single value throughout the profile. Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). For over water projects the effects of the column of water have been taken in to account as has the appropriate unit weight of water. How this is done depends on where the instruments were zeroed (i.e. on deck or at mud line).

Details regarding the interpretation methods for all of the interpreted parameters are provided in Table 1. The appropriate references cited in Table 1 are listed in Table 2. Where methods are based on charts or techniques that are too complex to describe in this summary the user should reference to the cited references.

The estimated Soil Behavior Types (normalized and non-normalized) are based on the charts developed by Robertson and Campanella shown in Figures 1 and 2.

Where the results of a calculation/interpretation are declared *'invalid'* the value will be represented by the text strings "-9999" or "-9999.0". Invalid results will occur because of (and not limited to) one or a combination of:

1. Invalid or undefined CPT data (e.g. drilled out section or data gap).
2. Where the interpretation method is inappropriate, for example, drained parameters in an undrained material (and vice versa).
3. Where interpretation input values are beyond the range of the referenced charts or specified limitations of the interpretation method.
4. Where pre-requisite or intermediate interpretation calculations are invalid.

The parameters selected for output from the program are often specific to a particular project. As such, not all of the interpreted parameters listed in Table 1 may be included in the output files delivered with this report.

Table 1
CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	Mid Layer Depth *(where interpretations are done at each point then Mid Layer Depth = Recorded Depth)*	*Depth (Layer Top) + Depth (Layer Bottom) / 2.0*	
Elevation	Elevation of Mid Layer based on sounding collar elevation supplied by client	Elevation = Collar Elevation - Depth	
Avgqc	Averaged recorded tip value (q_c)	$Avgqc = \frac{1}{n}\sum_{i=1}^{n} q_c$ *n=1 when interpretations are done at each point*	
Avgqt	Averaged corrected tip (q_t) where: $q_t = q_c + (1-a) \bullet u$	$Avgqt = \frac{1}{n}\sum_{i=1}^{n} q_t$ *n=1 when interpretations are done at each point*	
Avgfs	Averaged sleeve friction (f_s)	$Avgfs = \frac{1}{n}\sum_{i=1}^{n} fs$ *n=1 when interpretations are done at each point*	
AvgRf	Averaged friction ratio (Rf) where friction ratio is defined as: $Rf = 100\% \bullet \frac{fs}{qt}$	$AvgRf = 100\% \bullet \frac{Avgfs}{Avgqt}$ *n=1 when interpretations are done at each point*	
Avgu	Averaged dynamic pore pressure *(u)*	$Avgu = \frac{1}{n}\sum_{i=1}^{n} u_i$ *n=1 when interpretations are done at each point*	
AvgRes	Averaged Resistivity (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} RESISTIVITY_i$ *n=1 when interpretations are done at each point*	
AvgUVIF	Averaged UVIF ultra-violet induced fluorescence (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} UVIF_i$ *n=1 when interpretations are done at each point*	
AvgTemp	Averaged Temperature (this data is not always available since it is a specialized test)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} TEMPERATURE_i$ *n=1 when interpretations are done at each point*	
AvgGamma	Averaged Gamma Counts (this data is not always available since it is a specialized test requiring an additional module)	$Avgu = \frac{1}{n}\sum_{i=1}^{n} GAMMA_i$ *n=1 when interpretations are done at each point*	
SBT	Soil Behavior Type as defined by Robertson and Campanella	See Figure 1	2, 5
U.Wt.	Unit Weight of soil determined from one of the following user selectable options: 1) uniform value 2) value assigned to each SBT zone 3) user supplied unit weight profile	See references	5
T. Stress σ_v	Total vertical overburden stress at Mid Layer Depth. *A layer is defined as the averaging interval specified by the user. For data interpreted at each point the Mid Layer Depth is the same as the recorded depth.*	$TStress = \sum_{i=1}^{n} \gamma_i h_i$ *where* γ_i is layer unit weight h_i is layer thickness	

CPT Interpretations

Interpreted Parameter	Description	Equation	Ref
E. Stress σ_v'	Effective vertical overburden stress at Mid Layer Depth	*Estress = Tstress - u_{eq}*	
Ueq	Equilibrium pore pressure determined from one of the following user selectable options: 1) hydrostatic from water table depth 2) user supplied profile	For hydrostatic option: $u_{eq} = \gamma_w \bullet (D - D_{wt})$ where u_{eq} is equilibrium pore pressure γ_w is unit weight of water D is the current depth D_{wt} is the depth to the water table	
Cn	SPT N_{60} overburden correction factor	$Cn=(\sigma_v')^{-0.5}$ where σ_v' *is in tsf* $0.5 < C_n < 2.0$	
N_{60}	SPT N value at 60% energy calculated from qt/N ratios assigned to each SBT zone. This method has abrupt N value changes at zone boundaries.	*See Figure 1*	4, 5
N_{60} (Ic)	SPTN Value at 60% energy. This method is a slight modification of the Jefferies and Davies technique whereby the qt/N ratio varies across soil classification zones based on the Ic parameter. This techniques is limited to zones 2 through 7 on the normalized Soil Behavior Type Chart	*See Figure 1*	5, 8
$(N_1)_{60}$	SPT N_{60} value corrected for overburden pressure	$(N_1)_{60} = Cn \bullet N_{60}$	4
$\Delta(N_1)_{60}$	Equivalent Clean Sand Correction to $(N_1)_{60}$	$\Delta(N_1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \bullet (N_1)_{60}$ Where: K_{SPT} is defined as: 0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35% FC - Fines Content in %	4
$(N_1)_{60cs}$	Equivalent Clean Sand $(N_1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	4
Su	Undrained shear strength - N_{kt} is user selectable	$Su = \frac{qt - \sigma_v}{N_{kt}}$	1, 5
k	Coefficient of permeability (assigned to each SBT zone)		5
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{qt - \sigma_v}$ *where:* $\Delta u = u - u_{eq}$ *and u = dynamic pore pressure* *u_{eq} = equilibrium pore pressure*	1, 5
Q_t	Normalized q_t for Soil Behavior Type classification as defined by Robertson, 1990	$Qt = \frac{qt - \sigma_v}{\sigma_v'}$	2, 5
F_r	Normalized Friction Ratio for Soil Behavior Type classification as defined by Robertson, 1990	$Fr = 100\% \bullet \frac{fs}{qt - \sigma_v}$	2, 5
SBTn	Normalized Soil Behavior Type as defined by Robertson and Campanella	See Figure 2	2, 5

CPT Interpretations

Interpreted Parameter	Description	Equation	Ref
q_{c1}	q_t normalized for overburden stress used for seismic analysis	$q_{c1} = q_t \bullet (Pa/\sigma_v')^{0.5}$ where: Pa = atm. Pressure q_t is in MPa	3
q_{c1N}	q_{c1} in dimensionless form used for seismic analysis	$q_{c1N} = q_{c1} / Pa$ where: Pa = atm. pressure	3
K_c	Equivalent clean sand correction for q_{c1N}	*$K_c = 1.0$ for $I_c \leq 1.64$* *$K_c = f(I_c)$ for $I_c > 1.64$ (see reference)* *$K_c = 1.0$ for $1.64 < I_c < 2.36$ and $Fc < 0.5\%$*	3
q_{c1Ncs}	Clean Sand equivalent q_{c1N}	$q_{c1Ncs} = q_{c1N} \bullet K_c$	3
I_c	Soil index for estimating grain characteristics	$Ic = [(3.47 - \log_{10}Q)^2 + (\log_{10} Fr + 1.22)^2]^{0.5}$ *Where:* $Q = \left(\frac{qt - \sigma_v}{P_{a2}}\right)\left(\frac{P_a}{\sigma_v'}\right)^n$ *And* *Fr is in percent* *P_a = atmospheric pressure* *P_{a2} = atmospheric pressure* *n varies from 0.5 to 1.0 and is selected in an iterative manner based on the resulting I_c*	3, 8
FC	Apparent fines content (%)	*$FC = 1.75(Ic^{3.25}) - 3.7$* *$FC = 100$ for $Ic > 3.5$* *$FC = 0$ for $Ic < 1.26$* *$FC = 5\%$ if $1.64 < Ic < 2.6$ AND $F_f < 0.5$*	3
Ic Zone	This parameter is the Soil Behavior Type zone based on the Ic parameter (valid for zones 2 through 7 on SBTn chart)	Ic < 1.31 Zone = 7 1.31 < Ic < 2.05 Zone = 6 2.05 < Ic < 2.60 Zone = 5 2.60 < Ic < 2.95 Zone = 4 2.95 < Ic < 3.60 Zone = 3 Ic > 3.60 Zone = 2	3
PHI ϕ	Friction Angle determined from one of the following user selectable options: a) Campanella and Robertson b) Durgunoglu and Mitchel c) Janbu	See reference	5
Dr	Relative Density determined from one of the following user selectable options: a) Ticino Sand b) Hokksund Sand c) Schmertmann 1976 d) Jamiolkowski - All Sands	See reference	5
OCR	Over Consolidation Ratio – 2 methods available	a) Based on Schmertmann's method involving a plot of S_u/σ_v' /($S_u/\sigma_v')_{NC}$ and OCR b) Based on $OCR = K \bullet \left(\frac{qt - \sigma_v}{\sigma_v'}\right)$ where an average value of k=0.3 is used	5
State Parameter	The state parameter is used to describe whether a soil is contractive (SP is positive) or dilative (SP is negative) at large strains based on the work by Been and Jefferies	See reference	9, 7, 5

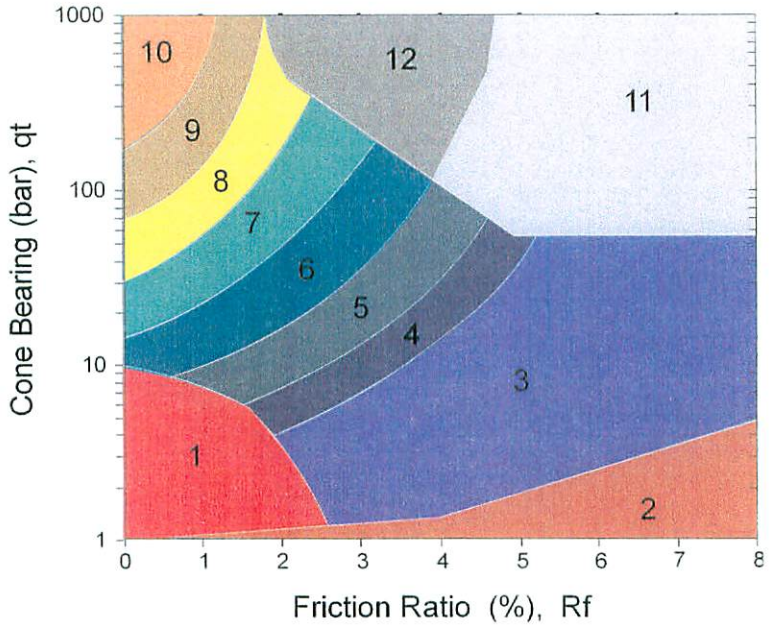
CPT Interpretations

Interpreted Parameter	Description	Equation	Ref
CRR	Cyclic Resistance Ratio (for M=7.5)	*For $(q_{c1N})_{cs}$ < 160:* $CRR = 93 \bullet \left(\frac{(q_{c1N})cs}{1000}\right)^3 + 0.08$ *For $(q_{c1N})_{cs}$ < 50:* $CRR = 0.833 \bullet \left(\frac{(q_{c1N})cs}{1000}\right)^3 + 0.05$	5
Youngs Modulus E	Youngs Modulus based on the work by Baldi. There are three types of sands considered in this technique. The user selects the approriate type for the site from: a) OC Sands b) Aged NC Sands c) Recent NC Sands Each sand type has a family of curves that depend on mean normal stress. The program calculates mean normal stress and linearly interpolates between the two extremes provided in Baldi's chart.	Mean normal stress is evaluated from: $\sigma'_m = \frac{1}{3} \bullet (\sigma'_v + \sigma'_h + \sigma'_h)$ where σ_v'= vertical effective stress σ_h'= horizontal effective stress and $\sigma_h = K_o * \sigma_v'$ with Ko assumed to be 0.5	5
K_o	Coefficient of lateral earth pressure at rest.	$K_o = 0.1 \bullet \left(\frac{q_t - \sigma_{v0}}{\sigma'_v}\right)$	5

Savannah River Site Specific Parameters

Interpreted Parameter	Description	Equation	Ref
Ic	Ic based on normalized data at the Savannah River Site; developed by Frank Syms and SGS	*$Ic = [(1.95 - \log_{10}Q)^2 + (\log_{10} Fr + 1.78)^2]^{0.5}$* *Where: Q is the normalized tip resistance And Fr is the normalized friction ratio*	10
FC	Fines content based on the normalized Savannah River Site Ic parameter; developed by Frank Syms and SGS	*$FC = (5.31 * (Ic)^{2.31}) + 9.61$* For FC > 100 and q_t < 15 tsf the material is flagged as a soft zone	10
FC	Fines Content directly from non-normalized data at the Savannah River Site; developed by Frank Syms and SGS	*$FC = [(3.58 - \log_{10}(qtsf))^2 + (1.43 + \log_{10}(Rf))^2]^{1.8}$* For FC > 100 and q_t < 15 tsf the material is flagged as a soft zone *Where: qtsf is the non-normalized tip resistance in tsf Rf is the non-normalized friction ratio*	11

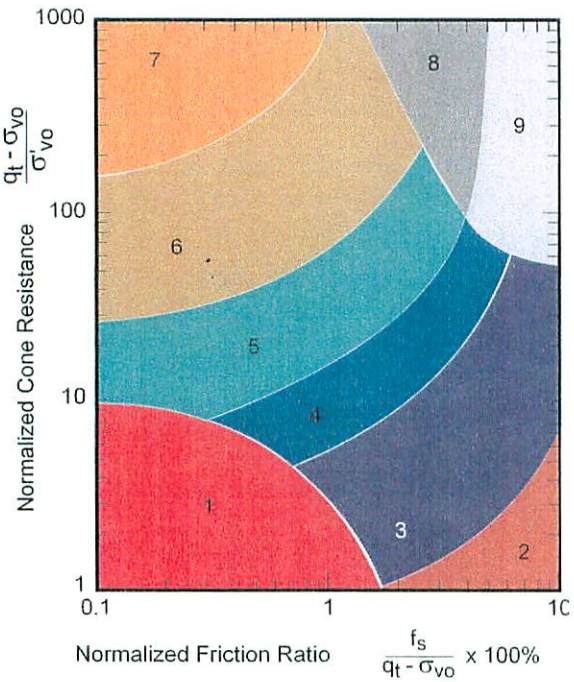
Figure 1
Non-Normalized Behavior Type Classification Chart



Zone	qt / N	Soil Behavior Type
1	2	sensitive fine grained
2	1	organic material
3	1	clay
4	1.5	silty clay to clay
5	2	clayey silt to silty clay
6	2.5	sandy silt to clayey silt
7	3	silty sand to sandy silt
8	4	sand to silty sand
9	5	sand
10	6	gravelly sand to sand
11	1	very stiff fine grained *
12	2	sand to clayey sand *

* overconsolidated or cemented

Figure 2
Normalized Behavior Type Classification Chart



Zone	Normalized Soil Behavior Type
1	sensitive fine grained
2	organic material
3	clay to silty clay
4	clayey silt to silty clay
5	silty sand to sandy silt
6	clean sands to silty sands
7	gravelly sand to sand
8	very stiff sand to clayey sand
9	very stiff fine grained

GREGG

Table 2
References

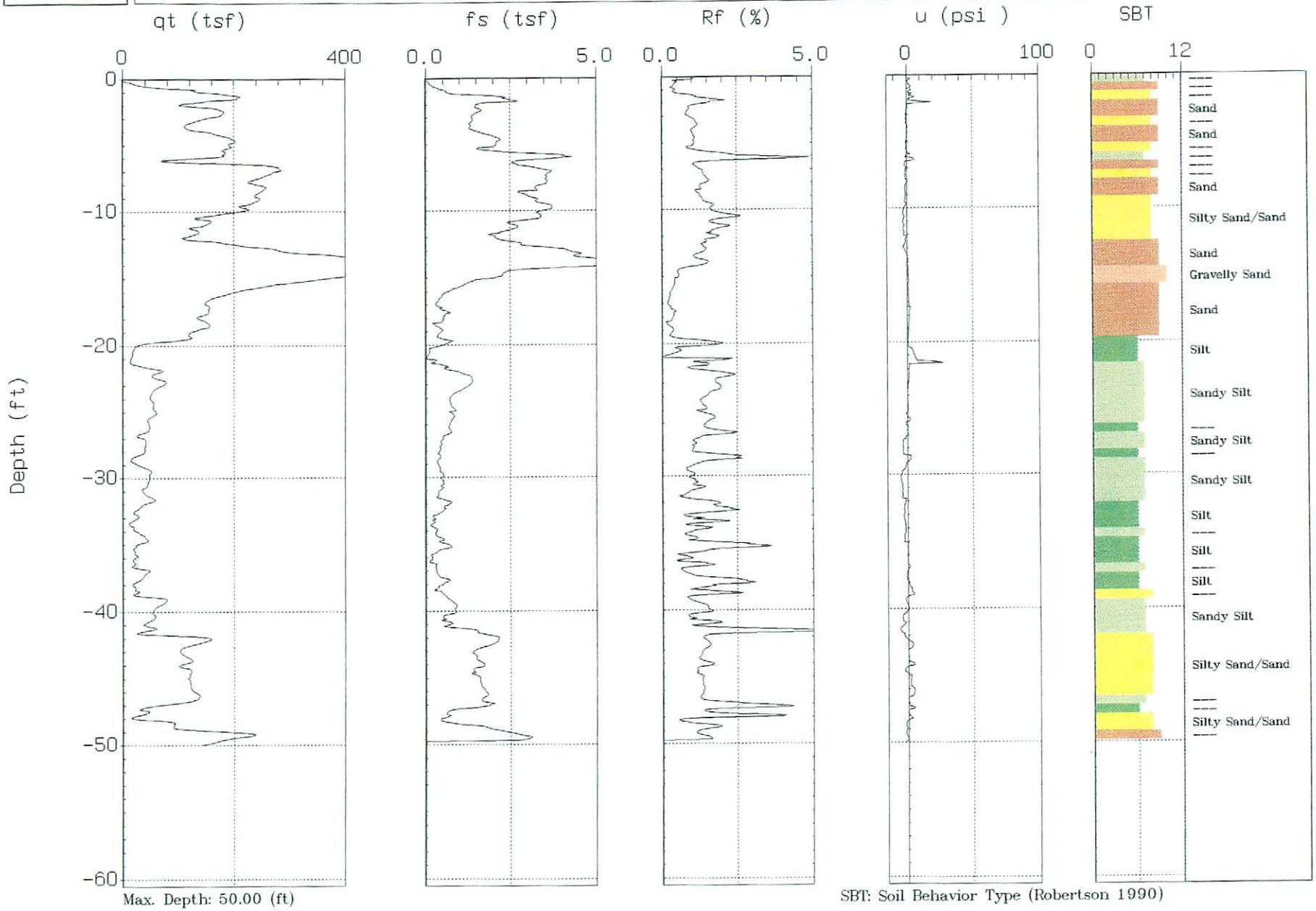
No.	References
1	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
2	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
3	Robertson, P.K. and Fear, C.E., 1998, "Evaluating cyclic liquefaction potential using the cone penetration test", Canadian Geotechnical Journal, 35: 442-459.
4	Robertson, P.K. and Wride, C.E., 1998, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
5	Lunne, T., Robertson, P.K. and Powell, J. J. M., 1997, " Cone Penetration Testing in Geotechnical Practice," Blackie Academic and Professional.
6	GREGG IN SITU Internal Report
7	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.
8	Jefferies, M.G. and Davies, M.P., 1993. "Use of CPTu to Estimate equivalent N_{60}", Geotechnical Testing Journal, 16(4): 458-467.
9	Been, K. and Jefferies, M.P., 1985, "A state parameter for sands", Geotechnique, 35(2), 99-112.
10	Frank Syms, Bechtel Corp (Savannah River Site), 2001, "CPTU Fines Content Determination", Calculation No. K-CIC-G-00065 Revision 0.
11	Frank Syms, Bechtel Corp (Savannah River Site) – personal communication

GREGG

MACTEC

Sounding: CPT-01
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 10:19



Max. Depth: 50.00 (ft)

Depth Inc.: 0.066 (ft)

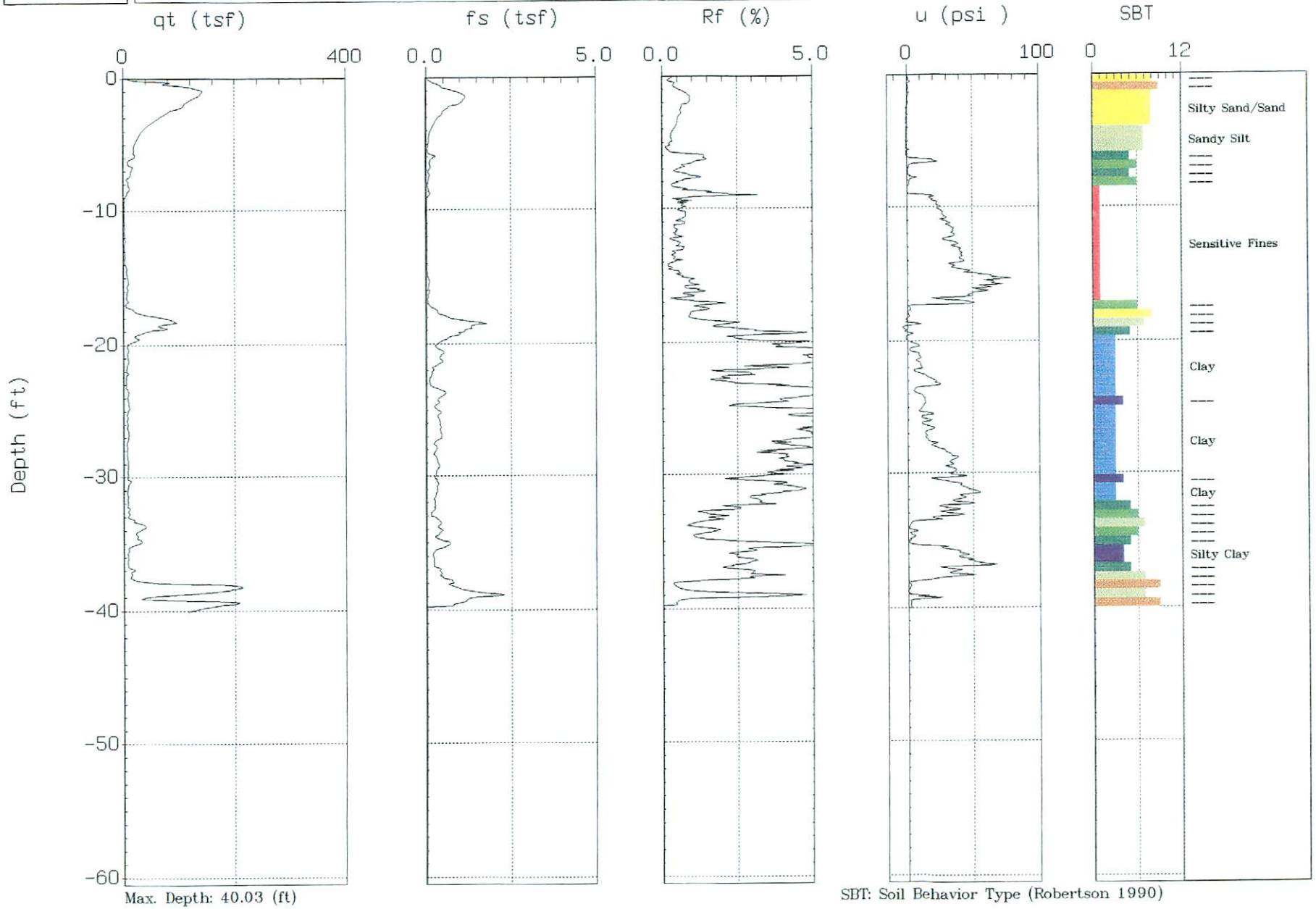
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-02
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 11:13



Max. Depth: 40.03 (ft)

Depth Inc.: 0.066 (ft)

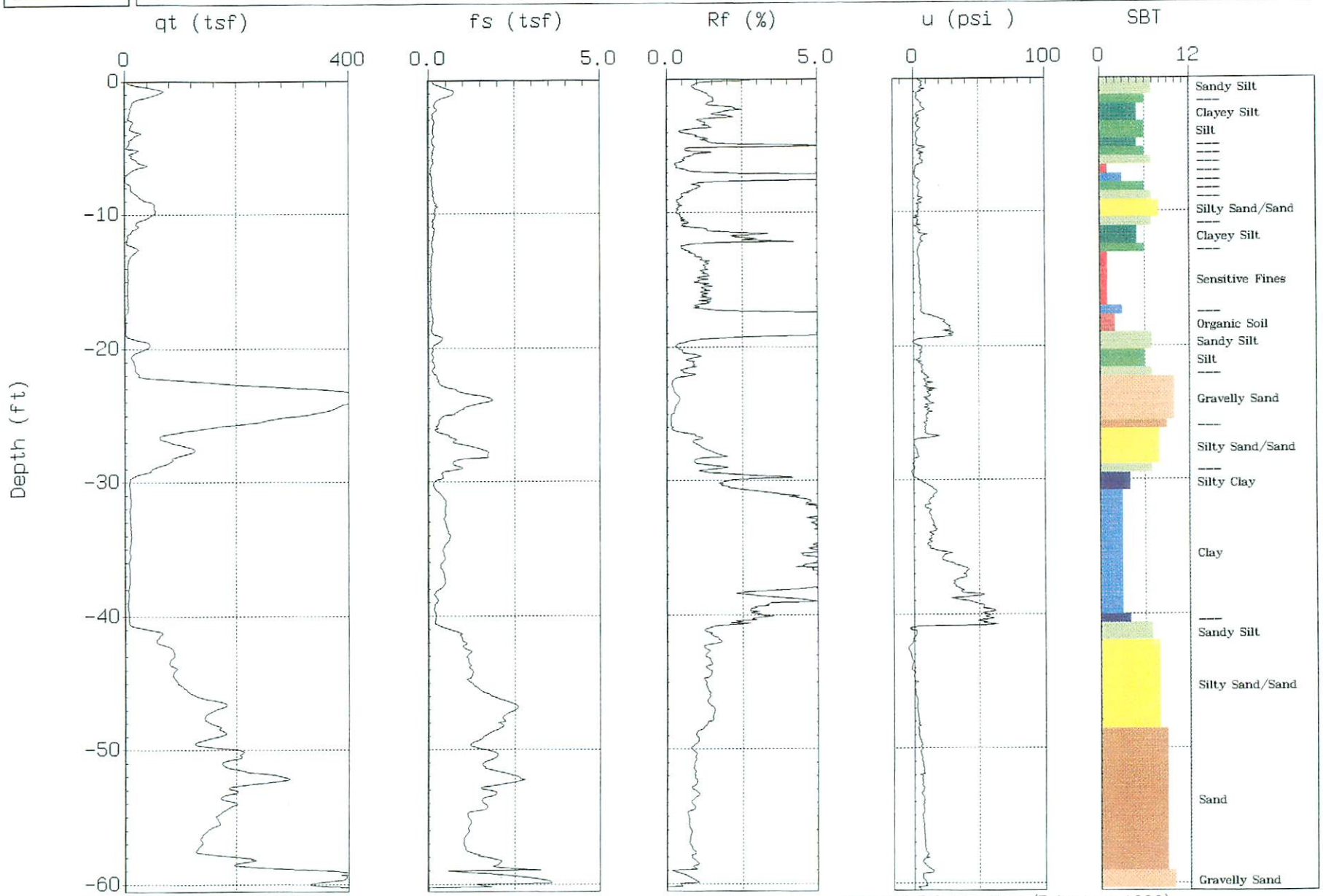
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-03
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 12:06



Max. Depth: 60.50 (ft)

Depth Inc.: 0.066 (ft)

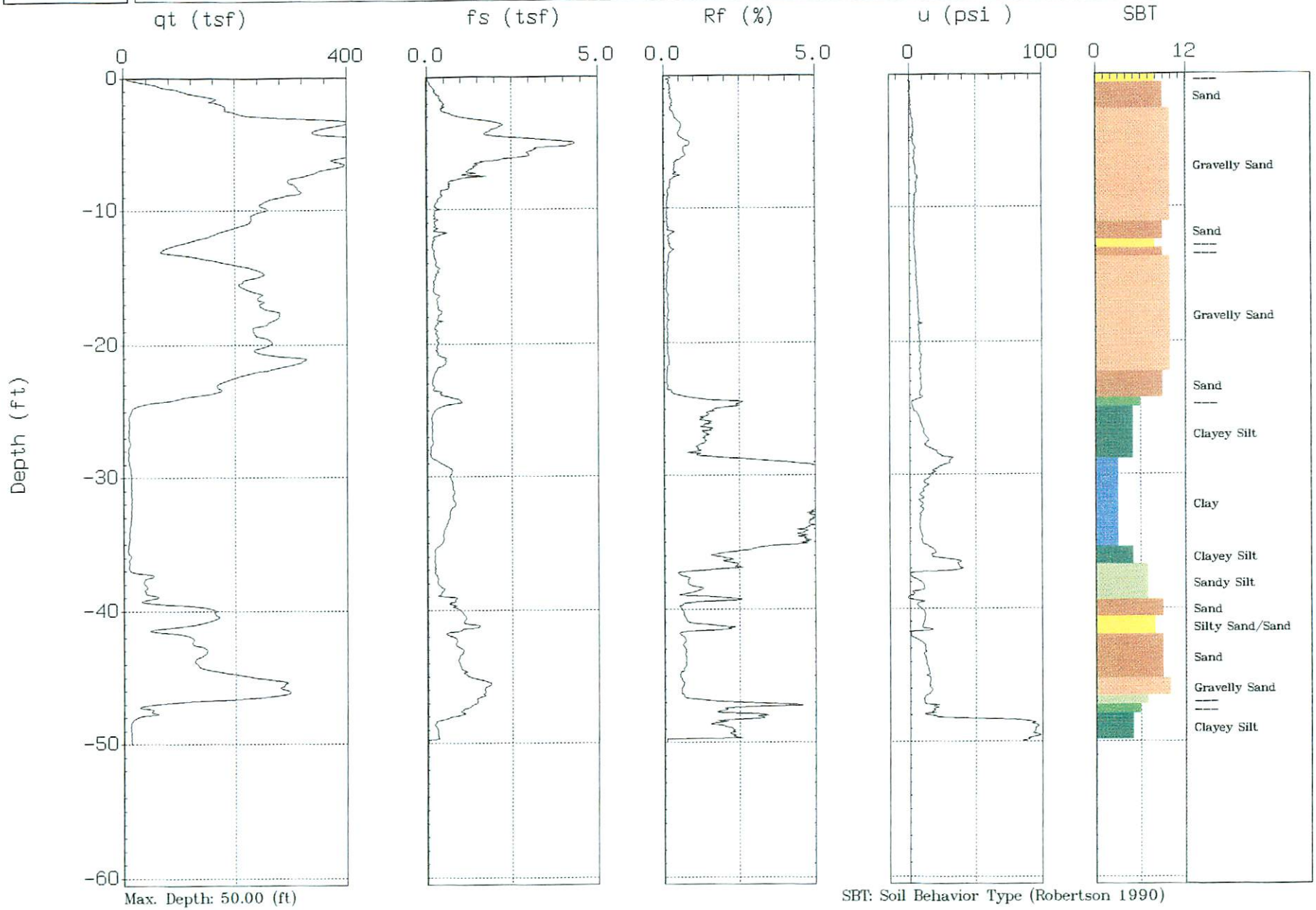
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-04
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 13:08



Max. Depth: 50.00 (ft)

Depth Inc.: 0.066 (ft)

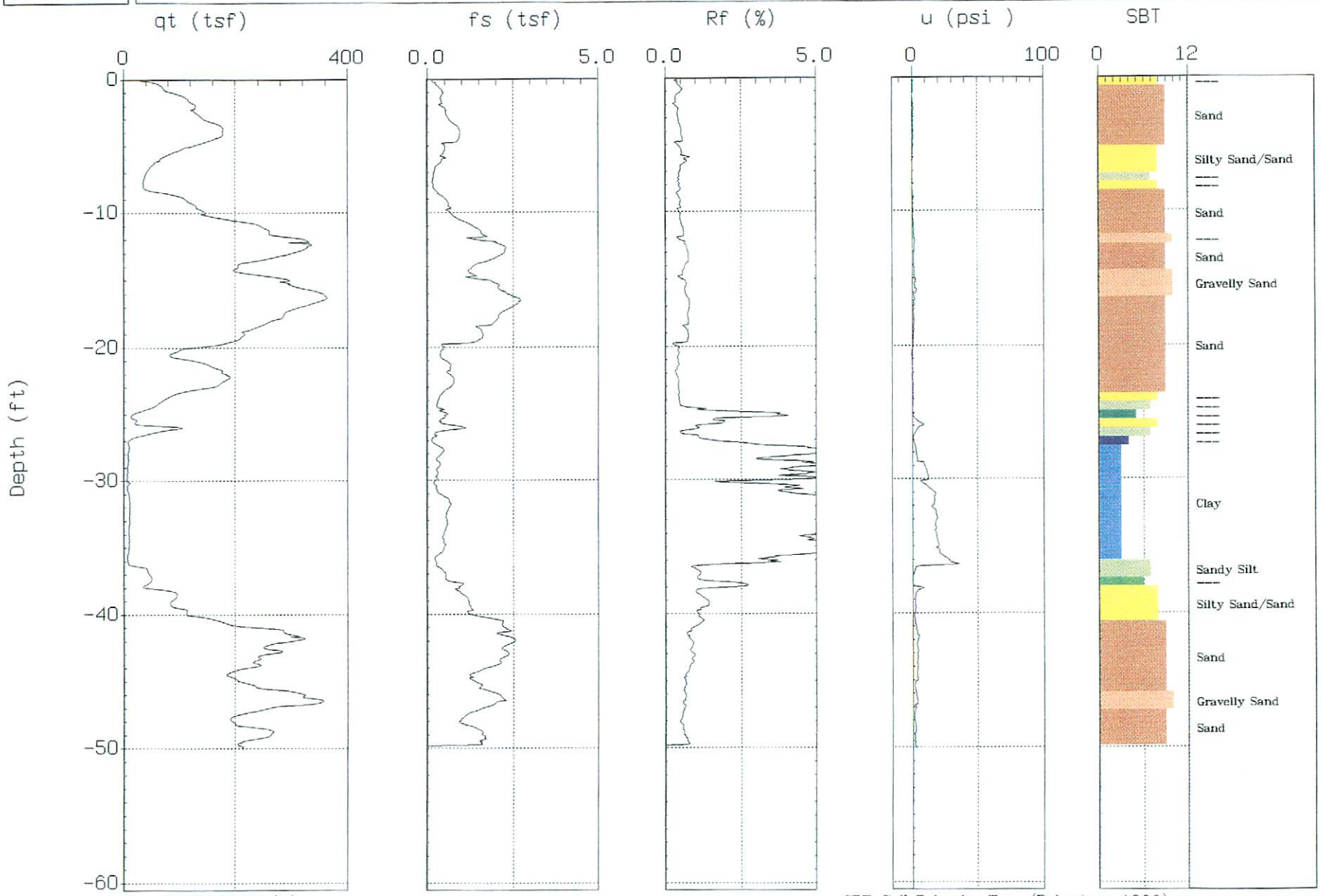
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-05
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 14:24



Max. Depth: 50.07 (ft)

Depth Inc.: 0.066 (ft)

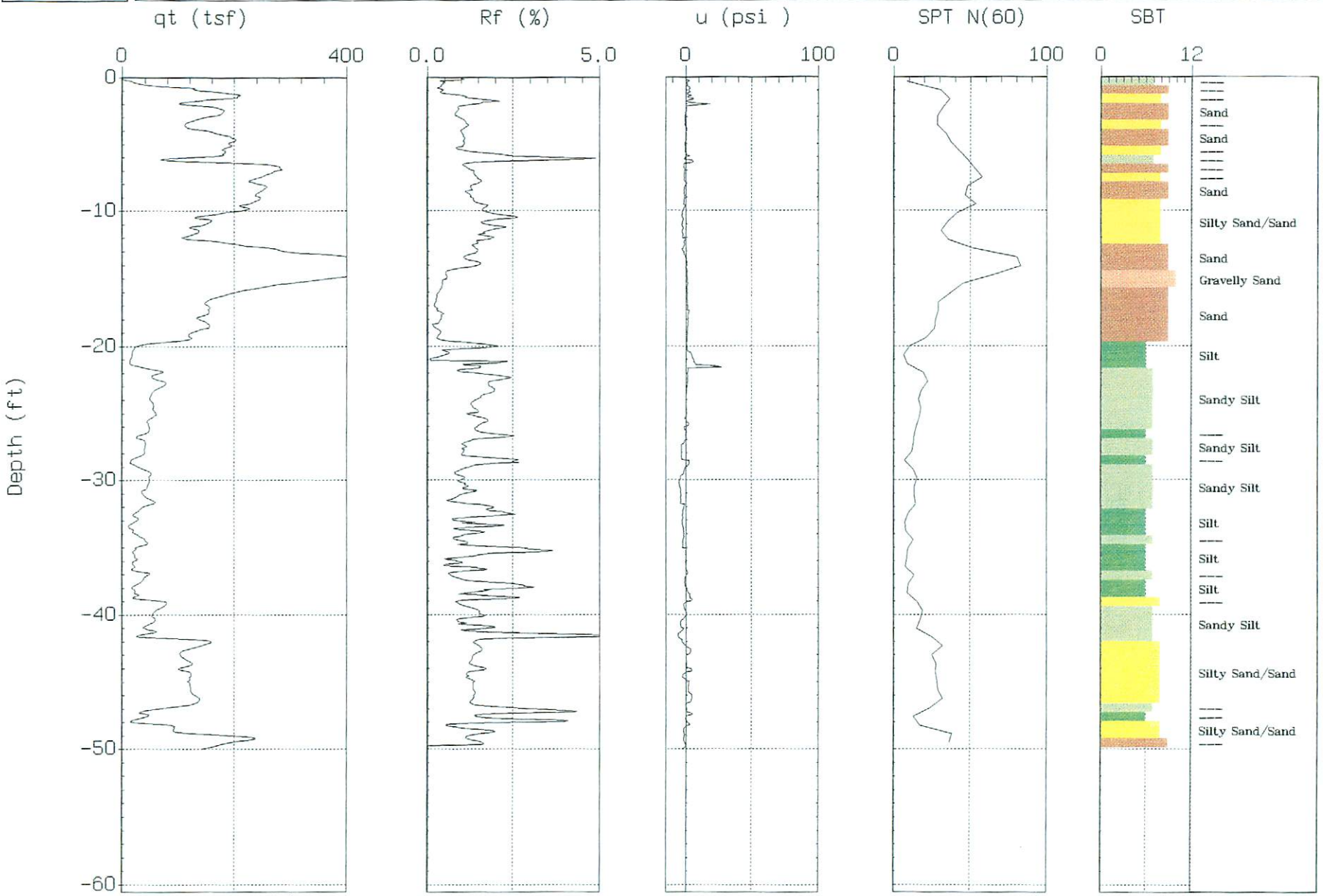
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-01
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 10:19



Max. Depth: 50.00 (ft)

Depth Inc.: 0.066 (ft)

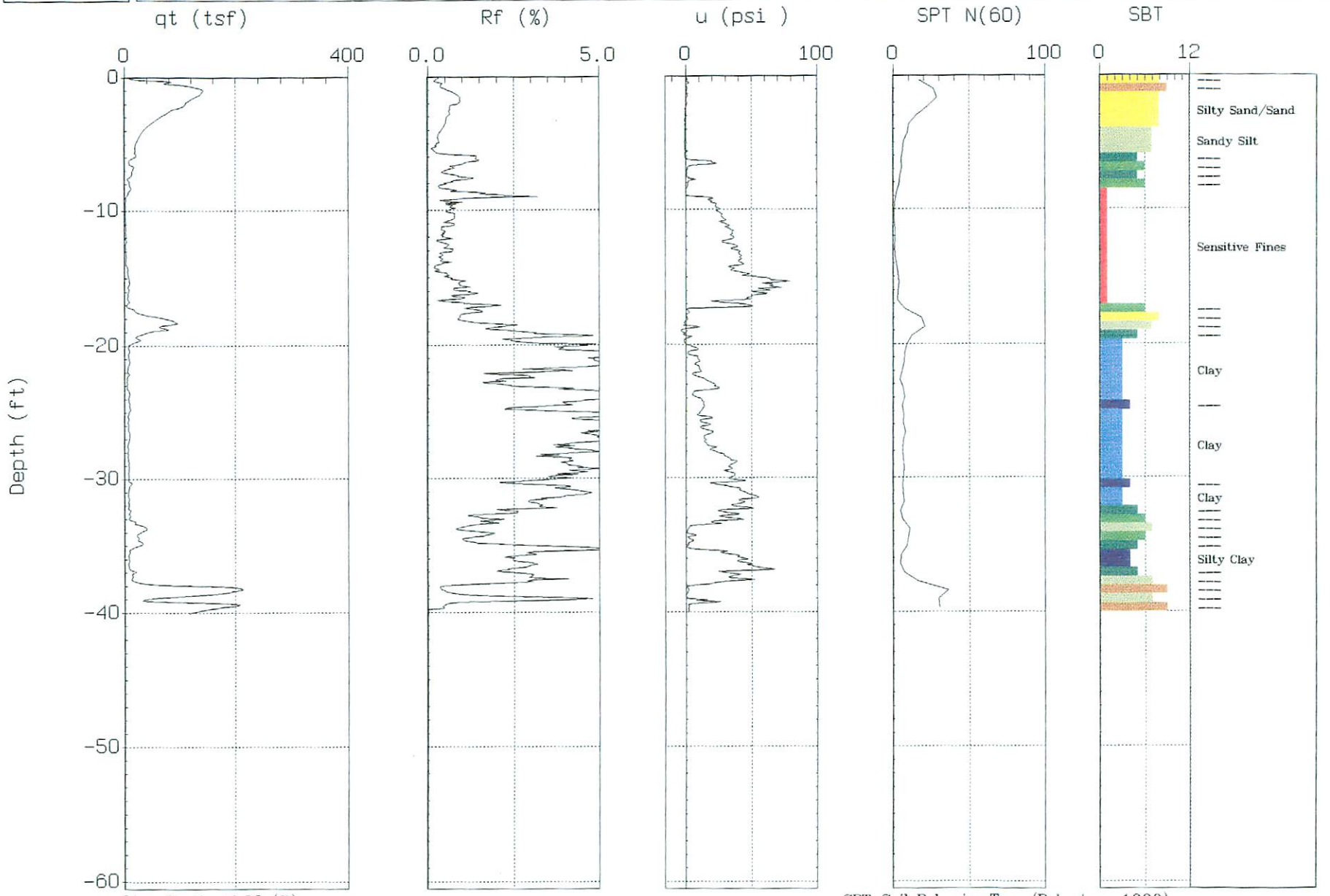
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-02
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 11:13



Max. Depth: 40.03 (ft)

Depth Inc.: 0.066 (ft)

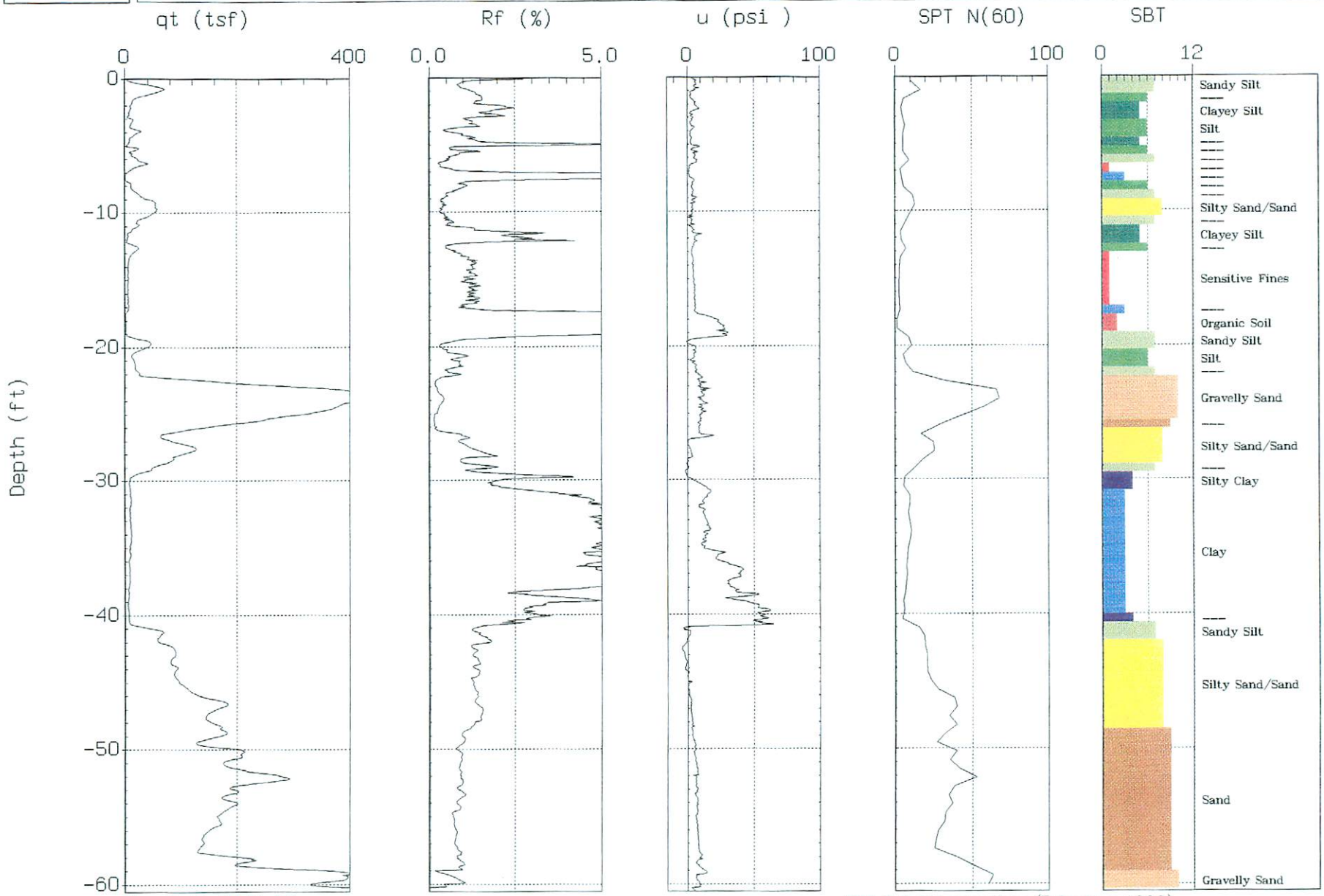
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-03
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 12:06



Max. Depth: 60.50 (ft)

Depth Inc.: 0.066 (ft)

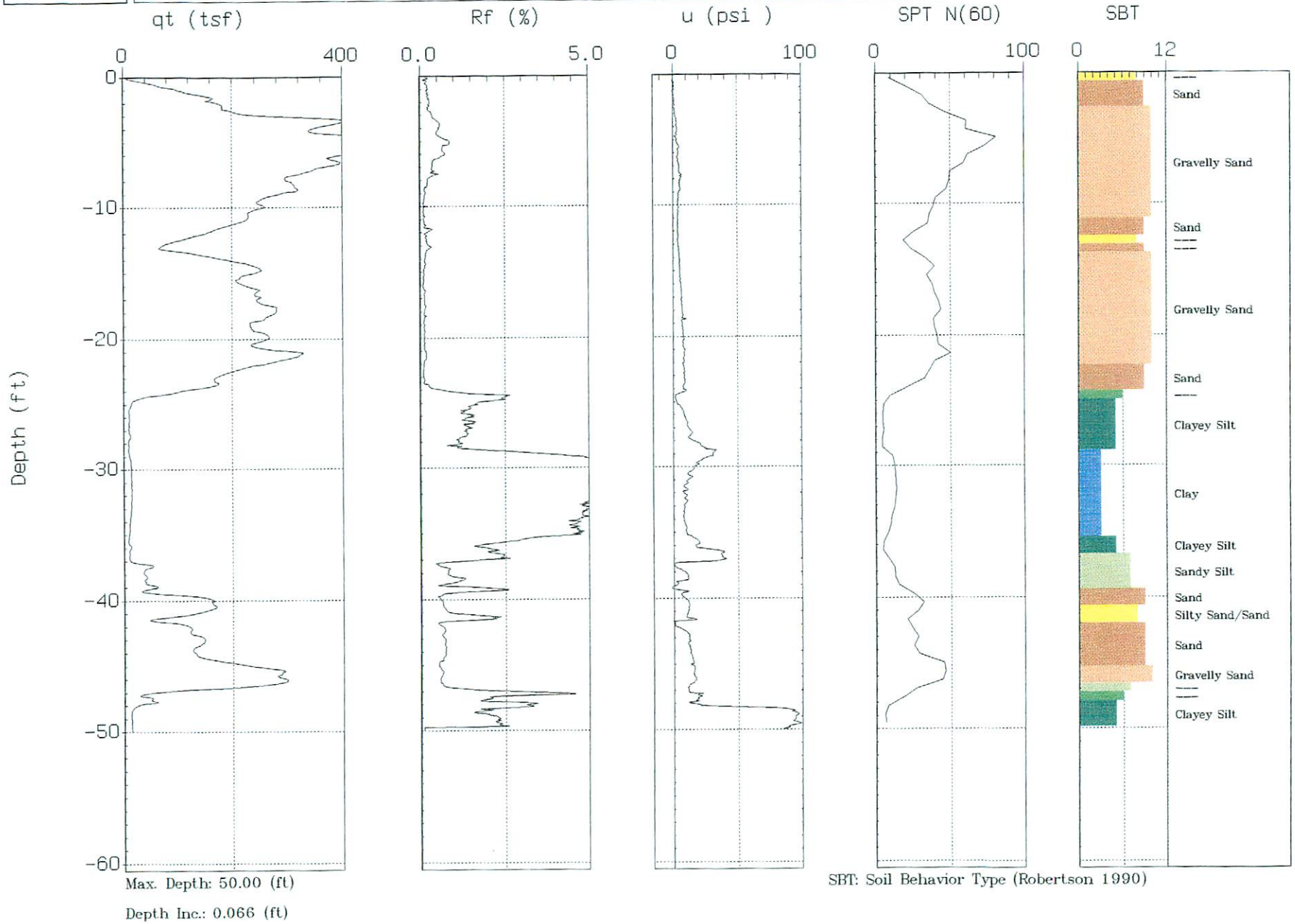
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-04
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 13:08



Max. Depth: 50.00 (ft)

Depth Inc.: 0.066 (ft)

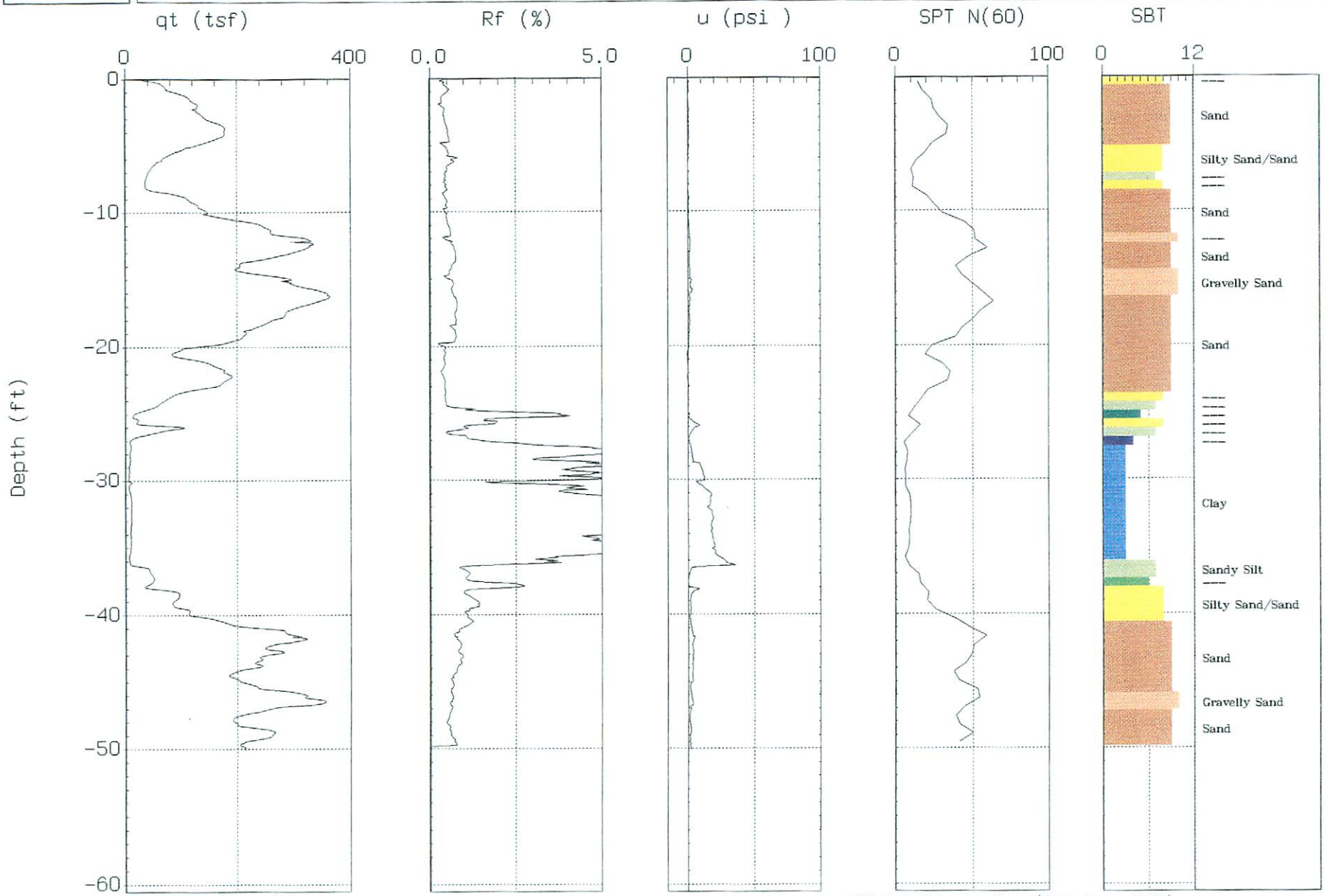
SBT: Soil Behavior Type (Robertson 1990)

GREGG

MACTEC

Sounding: CPT-05
Location: Allen Plant

Oversite: H. Benkhayal
Date: 07:20:04 14:24



Max. Depth: 50.07 (ft)

Depth Inc.: 0.066 (ft)

SBT: Soil Behavior Type (Robertson 1990)

CONE PENETROMETER TEST RESULTS - GRAPHS

CONE PENETROMETER TEST RESULTS - TABLES

Gregg In Situ, Inc. - CPT Interpretation

Interpretation Output - Release	1.22A	Format:	NLI	Imperial
Run No:	04-0816-0955-2271			
Job No:	04-127SC			
Client:	MACTEC			
Project:	Allen Fossil Plant			
Site:	CPT-01			
Location:	Allen Plant			
Oversite:	H. Benkhayal			
CPT Date:	04/20/07			
CPT Time:	10:19			
CPT File:	130CP01.COR			
Northing (m):	0.000000			
Easting (m):	0.000000			
Elevation (m):	0.000000			

Water Table (m):	5.18	(ft):	17.0
Unit Weight of Water (default):	62.40 pcf		
Averaging Increment (m):	0.0 (Every Data Point)		
Phi Method :	Robertson and Campanella, 1983		
Su Nkt used:	15.00	Su/P' (nc):	0.30
Dr Method :	Jamiolkowski - All Sands		
State Parameter M:	1.20		

Constant Unit Weight Used Throughout (pcf): 119.97
N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
0.066	1.00	1.00	0.01	1.00	-0.24	-9999.0	120.0	0.004	0.000	0.004	0.3	-9999.0	252.96	1.01	-0.02	34.6	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
0.131	1.85	1.86	0.02	1.08	0.26	1.0E-07	120.0	0.008	0.000	0.008	0.5	5.3	234.87	1.08	0.01	30.5	-9999.0	-9999.0	-9999.0	-9999.0	0.123	10.0
0.197	9.01	9.02	0.06	0.67	0.77	1.0E-07	120.0	0.012	0.000	0.012	1.7	16.1	762.70	0.67	0.01	9.9	-9999.0	-9999.0	-9999.0	-9999.0	0.601	10.0
0.262	16.35	16.38	0.06	0.37	2.90	5.0E-05	120.0	0.016	0.000	0.016	-9999.0	-9999.0	1039.18	0.37	0.01	-9999.0	74.3	50.0	1.997	32.7	1.091	10.0
0.328	18.59	18.61	0.09	0.48	2.11	5.0E-04	120.0	0.020	0.000	0.020	3.2	23.7	944.27	0.49	0.01	4.9	74.7	50.0	1.988	37.0	-9999.0	-9999.0
0.394	23.13	23.13	0.10	0.43	0.63	5.0E-04	120.0	0.024	0.000	0.024	3.9	26.2	978.28	0.43	0.00	3.7	78.4	50.0	1.920	44.4	-9999.0	-9999.0
0.459	30.40	30.41	0.14	0.46	0.83	5.0E-04	120.0	0.028	0.000	0.028	-9999.0	-9999.0	1102.53	0.46	0.00	-9999.0	84.0	50.0	1.891	57.5	-9999.0	-9999.0
0.525	40.82	40.83	0.17	0.42	1.33	5.0E-03	120.0	0.031	0.000	0.031	-9999.0	-9999.0	1295.45	0.42	0.00	-9999.0	90.5	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.591	55.64	55.66	0.21	0.38	1.27	5.0E-03	120.0	0.035	0.000	0.035	-9999.0	-9999.0	1569.80	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.656	72.38	72.39	0.28	0.39	1.31	5.0E-03	120.0	0.039	0.000	0.039	-9999.0	-9999.0	1837.68	0.39	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.722	112.37	112.40	0.37	0.33	2.96	5.0E-02	120.0	0.043	0.000	0.043	-9999.0	-9999.0	2594.49	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.787	130.19	130.22	0.37	0.28	2.92	5.0E-02	120.0	0.047	0.000	0.047	-9999.0	-9999.0	2755.24	0.28	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.853	125.98	126.01	0.48	0.38	3.48	5.0E-02	120.0	0.051	0.000	0.051	-9999.0	-9999.0	2461.08	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.919	129.74	129.77	0.60	0.46	2.33	5.0E-02	120.0	0.055	0.000	0.055	-9999.0	-9999.0	2353.37	0.46	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.984	140.47	140.49	0.58	0.41	2.17	5.0E-02	120.0	0.059	0.000	0.059	-9999.0	-9999.0	2378.01	0.41	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.050	168.90	168.93	0.61	0.36	2.61	5.0E-02	120.0	0.063	0.000	0.063	-9999.0	-9999.0	2680.70	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.115	183.08	183.12	0.70	0.38	3.58	5.0E-02	120.0	0.067	0.000	0.067	-9999.0	-9999.0	2735.04	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.181	193.69	193.70	0.90	0.47	1.17	5.0E-02	120.0	0.071	0.000	0.071	-9999.0	-9999.0	2732.33	0.47	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.247	209.85	209.86	1.49	0.71	1.41	5.0E-02	120.0	0.075	0.000	0.075	-9999.0	-9999.0	2804.52	0.71	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.312	213.30	213.31	1.93	0.91	1.39	5.0E-02	120.0	0.079	0.000	0.079	-9999.0	-9999.0	2708.04	0.91	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.378	207.55	207.60	2.13	1.02	4.52	5.0E-02	120.0	0.083	0.000	0.083	-9999.0	-9999.0	2509.97	1.02	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.444	205.83	205.85	2.39	1.16	1.80	5.0E-02	120.0	0.087	0.000	0.087	-9999.0	-9999.0	2375.59	1.16	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.509	207.10	207.12	2.27	1.09	1.45	5.0E-02	120.0	0.091	0.000	0.091	-9999.0	-9999.0	2286.28	1.09	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.575	173.31	173.37	2.44	1.41	5.19	5.0E-03	120.0	0.094	0.000	0.094	-9999.0	-9999.0	1833.78	1.41	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.640	152.23	152.30	2.54	1.67	6.11	5.0E-03	120.0	0.098	0.000	0.098	-9999.0	-9999.0	1546.30	1.67	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.706	140.67	140.69	2.75	1.95	2.13	5.0E-04	120.0	0.102	0.000	0.102	-9999.0	-9999.0	1373.46	1.95	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.772	125.01	125.02	2.67	2.13	1.08	5.0E-04	120.0	0.106	0.000	0.106	-9999.0	-9999.0	1175.15	2.13	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.837	111.41	111.42	1.81	1.63	0.94	5.0E-03	120.0	0.110	0.000	0.110	-9999.0	-9999.0	1009.73	1.63	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.903	101.89	101.91	1.63	1.60	2.55	5.0E-04	120.0	0.114	0.000	0.114	-9999.0	-9999.0	891.62	1.61	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.968	101.26	101.36	1.51	1.49	9.66	5.0E-03	120.0	0.118	0.000	0.118	-9999.0	-9999.0	857.17	1.50	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.034	117.28	117.49	1.46	1.25	18.78	5.0E-03	120.0	0.122	0.000	0.122	20.5	59.9	961.63	1.25	0.01	4.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.100	138.56	138.63	1.48	1.07	6.52	5.0E-03	120.0	0.126	0.000	0.126	-9999.0	-9999.0	1099.34	1.07	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.165	161.81	161.82	1.45	0.90	0.83	5.0E-02	120.0	0.130	0.000	0.130	-9999.0	-9999.0	1244.52	0.90	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.231	171.01	171.02	1.51	0.89	0.45	5.0E-02	120.0	0.134	0.000	0.134	-9999.0	-9999.0	1276.60	0.89	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.297	174.90	174.91	1.58	0.91	0.69	5.0E-02	120.0	0.138	0.000	0.138	-9999.0	-9999.0	1268.35	0.91	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.362	178.10	178.11	1.63	0.92	1.04	5.0E-02	120.0	0.142	0.000	0.142	-9999.0	-9999.0	1255.67	0.92	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.428	182.32	182.33	1.65	0.91	0.39	5.0E-02	120.0	0.146	0.000	0.146	-9999.0	-9999.0	1250.63	0.91	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.493	182.95	182.96	1.61	0.88	0.35	5.0E-02	120.0	0.150	0.000	0.150	-9999.0	-9999.0	1221.91	0.88	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.559	181.68	181.69	1.54	0.85	0.55	5.0E-02	120.0	0.154	0.000	0.154	-9999.0	-9999.0	1182.28	0.85	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.625	179.77	179.77	1.48	0.83	-0.04	5.0E-02	120.0	0.157	0.000	0.157	-9999.0	-9999.0	1140.50	0.83	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.690	178.29	178.29	1.44	0.81	-0.10	5.0E-02	120.0	0.161	0.000	0.161	-9999.0	-9999.0	1103.52	0.81	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.756	174.65	174.65	1.39	0.80	-0.16	5.0E-02	120.0	0.165	0.000	0.165	-9999.0	-9999.0	1055.22	0.80	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.821	168.97	168.97	1.35	0.80	-0.35	5.0E-02	120.0	0.169	0.000	0.169	27.5	68.4	997.07	0.80	0.00	1.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.887	160.73	160.72	1.37	0.85	-0.51	5.0E-02	120.0	0.173	0.000	0.173	26.5	65.1	926.81	0.86	0.00	2.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.953	152.23	152.22	1.36	0.90	-0.51	5.0E-02	120.0	0.177	0.000	0.177	25.4	61.6	858.21	0.90	0.00	2.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.018	143.73	143.72	1.35	0.94	-0.63	5.0E-02	120.0	0.181	0.000	0.181	24.2	58.2	792.59	0.94	0.00	3.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.084	137.41	137.41	1.37	1.00	-0.55	5.0E-02	120.0	0.185	0.000	0.185	23.4	55.7	741.58	1.00	0.00	3.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.150	130.90	130.89	1.38	1.06	-0.28	5.0E-03	120.0	0.189	0.000	0.189	22.6	53.1	691.64	1.06	0.00	4.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.215	126.42	126.41	1.37	1.09	-0.51	5.0E-03	120.0	0.193	0.000	0.193	22.0	51.1	654.27	1.09	0.00	4.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.281	121.31	121.31	1.35	1.12	-0.59	5.0E-03	120.0	0.197	0.000	0.197	21.3	48.9	615.24	1.12	0.00	5.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.346	116.33	116.33	1.30	1.12	-0.59	5.0E-03	120.0	0.201	0.000	0.201	20.5	46.7	578.34	1.12	0.00	5.3	94.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.412	113.52	113.51	1.27	1.12	-0.35	5.0E-03	120.0	0.205	0.000	0.205	20.1	45.3	553.45	1.12	0.00	5.5	93.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.478	112.17	112.17	1.28	1.14	-0.26	5.0E-03	120.0	0.209	0.000	0.209	19.9	44.5	536.56	1.15	0.00	5.7	92.4	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.543	110.13	110.12	1.32	1.20	-0.47	5.0E-03	120.0	0.213	0.000	0.213	19.7	43.7	516.98	1.20	0.00	6.2	91.6	48.0	-9999.0	-9999.0	-9999.0	-9999.0
3.609	111.15	111.14	1.33	1.20	-0.45	5.0E-03	120.0	0.217	0.000	0.217	19.9	43.7	512.28	1.20	0.00	6.2	91.6	48.0	-9999.0	-9999.0	-9999.0	-9999.0
3.674	113.46	113.45	1.30	1.15	-0.20	5.0E-03	120.0	0.220	0.000	0.220	20.2	43.9	513.59	1.15	0.00	5.9	91.9	48.0	-9999.0	-9999.0	-9999.0	-9999.0
3.740	114.99	114.99	1.28	1.12	0.28	5.0E-03	120.0	0.224	0.000	0.224	20.4	44.0	511.41	1.12	0.00	5.7	92.1	48.0	-9999.0	-9999.0	-9999.0	-9999.0
3.806	120.67	120.68	1.29	1.07	0.47	5.0E-03	120.0	0.228	0.000	0.228	21.2	45.3	527.48	1.07	0.00	5.2	93.2	48.0	-9999.0	-9999.0	-9999.0	-9999.0
3.871	131.09	131.10	1.37	1.05	0.71	5.0E-03	120.0	0.232	0.000	0.232	22.8	48.4	563.37	1.05	0.00	4.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.937	141.81	141.82	1.41	1.00	0.45	5.0E-02	120.0	0.236	0.000	0.236	24.4	51.3	599.36	1.00	0.00	4.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.003	153.25	153.25	1.47	0.96	0.04	5.0E-02	120.0	0.240	0.000	0.240	26.1	54.4	637.13	0.96	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.068	160.73	160.73	1.59	0.99	0.28	5.0E-02	120.0	0.244	0.000	0.244	27.4	56.6	657.48	0.99	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.134	164.94	164.94	1.65	1.00	0.18	5.0E-02	120.0	0.248	0.000	0.248	28.1	57.6	664.00	1.00	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.199	171.40	171.40	1.74	1.02	0.39	5.0E-02	120.0	0.252	0.000	0.252	29.1	59.3	679.24	1.02	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.265	179.70	179.70	1.88	1.05	0.49	5.0E-02	120.0	0.256	0.000	0.256	30.5	61.7	701.21	1.05	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.331	185.83	185.84	1.97	1.06	0.65	5.0E-02	120.0	0.260	0.000	0.260	31.6	63.3	714.19	1.06	0.00	3.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.396	192.99	192.99	2.01	1.04	0.57	5.0E-02	120.0	0.264	0.000	0.264	32.6	64.9	730.64	1.05	0.00	3.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.462	195.03	195.04	2.07	1.06	0.26	5.0E-02	120.0	0.268	0.000	0.268	33.0	65.2	727.51	1.06	0.00	3.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
4.528	196.12	196.12	2.16	1.10	0.35	5.0E-02	120.0	0.272	0.000	0.272	33.3	65.4	720.94	1.10	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.593	200.91	200.91	2.20	1.09	0.22	5.0E-02	120.0	0.276	0.000	0.276	34.1	66.4	728.01	1.09	0.00	3.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.659	203.52	203.52	2.22	1.09	0.02	5.0E-02	120.0	0.280	0.000	0.280	34.5	66.7	727.09	1.09	0.00	3.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.724	203.14	203.15	2.17	1.07	0.47	5.0E-02	120.0	0.283	0.000	0.283	34.4	66.0	715.65	1.07	0.00	3.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.790	198.86	198.86	2.09	1.05	0.16	5.0E-02	120.0	0.287	0.000	0.287	33.7	64.2	690.93	1.05	0.00	3.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.856	192.16	192.16	2.10	1.09	-0.10	5.0E-02	120.0	0.291	0.000	0.291	32.8	62.1	658.55	1.09	0.00	3.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.921	190.43	190.43	2.08	1.09	-0.31	5.0E-02	120.0	0.295	0.000	0.295	32.5	61.2	643.91	1.09	0.00	3.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.987	191.58	191.58	2.08	1.08	-0.47	5.0E-02	120.0	0.299	0.000	0.299	32.7	61.1	639.27	1.08	0.00	3.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.052	194.45	194.44	2.08	1.07	-0.63	5.0E-02	120.0	0.303	0.000	0.303	33.1	61.5	640.41	1.07	0.00	3.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.118	196.82	196.81	2.03	1.03	-0.45	5.0E-02	120.0	0.307	0.000	0.307	33.4	61.6	639.90	1.04	0.00	3.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.184	192.80	192.80	2.01	1.05	-0.20	5.0E-02	120.0	0.311	0.000	0.311	32.8	60.2	618.87	1.05	0.00	3.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.249	187.62	187.61	1.55	0.83	-0.14	5.0E-02	120.0	0.315	0.000	0.315	31.2	56.9	594.67	0.83	0.00	2.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.315	182.38	182.38	1.52	0.84	-0.08	5.0E-02	120.0	0.319	0.000	0.319	30.5	55.2	570.91	0.84	0.00	2.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.381	178.93	178.93	1.59	0.89	-0.24	5.0E-02	120.0	0.323	0.000	0.323	30.2	54.3	553.25	0.89	0.00	3.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.446	181.30	181.30	1.82	1.01	-0.26	5.0E-02	120.0	0.327	0.000	0.327	31.0	55.4	553.81	1.01	0.00	3.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.512	185.26	185.26	2.07	1.11	-0.26	5.0E-02	120.0	0.331	0.000	0.331	32.0	56.8	559.17	1.12	0.00	4.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.577	184.49	184.48	2.36	1.28	-0.39	5.0E-03	120.0	0.335	0.000	0.335	32.4	57.2	550.27	1.28	0.00	5.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.643	184.36	184.35	2.85	1.54	-0.33	5.0E-03	120.0	0.339	0.000	0.339	33.1	58.2	543.48	1.55	0.00	6.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.709	179.77	179.77	3.42	1.90	0.28	5.0E-03	120.0	0.343	0.000	0.343	-9999.0	-9999.0	523.84	1.91	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.774	182.83	182.84	3.93	2.15	0.41	5.0E-04	120.0	0.346	0.000	0.346	-9999.0	-9999.0	526.73	2.15	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.840	177.84	177.85	4.10	2.31	0.61	5.0E-04	120.0	0.350	0.000	0.350	-9999.0	-9999.0	506.56	2.31	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.905	161.04	161.07	4.11	2.55	3.04	5.0E-04	120.0	0.354	0.000	0.354	-9999.0	-9999.0	453.58	2.56	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.971	136.13	136.15	4.31	3.17	2.09	5.0E-05	120.0	0.358	0.000	0.358	-9999.0	-9999.0	379.03	3.17	0.00	-9999.0	90.2	48.0	-9999.0	-9999.0	9.053	10.0
6.037	106.94	106.94	3.91	3.66	-0.02	5.0E-05	120.0	0.362	0.000	0.362	-9999.0	-9999.0	294.24	3.67	0.00	-9999.0	83.1	46.0	1.880	201.1	7.105	10.0
6.102	75.76	75.76	3.71	4.90	-0.67	1.0E-15	120.0	0.366	0.000	0.366	-9999.0	-9999.0	205.90	4.92	0.00	-9999.0	73.1	46.0	2.021	153.1	-9999.0	-9999.0
6.168	68.36	68.35	3.04	4.44	-0.96	5.0E-06	120.0	0.370	0.000	0.370	-9999.0	-9999.0	183.68	4.47	0.00	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	4.532	10.0
6.234	84.32	84.37	2.72	3.22	4.58	5.0E-05	120.0	0.374	0.000	0.374	-9999.0	-9999.0	224.59	3.23	0.00	-9999.0	75.9	46.0	1.966	165.9	5.600	10.0
6.299	120.80	120.86	2.59	2.14	5.43	5.0E-04	120.0	0.378	0.000	0.378	-9999.0	-9999.0	318.78	2.15	0.00	-9999.0	86.0	46.0	1.961	237.0	-9999.0	-9999.0
6.365	185.07	185.13	2.56	1.38	5.75	5.0E-03	120.0	0.382	0.000	0.382	33.0	54.5	483.77	1.38	0.00	5.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
6.430	226.33	226.36	2.65	1.17	2.49	5.0E-02	120.0	0.386	0.000	0.386	38.9	63.9	585.67	1.17	0.00	4.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.496	247.92	247.91	2.72	1.10	-0.92	5.0E-02	120.0	0.390	0.000	0.390	42.0	68.7	635.05	1.10	0.00	3.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.562	264.72	264.71	2.72	1.03	-1.25	5.0E-02	120.0	0.394	0.000	0.394	44.2	72.1	671.35	1.03	0.00	2.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.627	274.50	274.48	2.92	1.06	-1.37	5.0E-02	120.0	0.398	0.000	0.398	45.9	74.5	689.27	1.06	0.00	2.9	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.693	282.36	282.34	3.16	1.12	-1.25	5.0E-02	120.0	0.402	0.000	0.402	47.5	76.5	702.08	1.12	0.00	3.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.758	281.84	281.83	3.26	1.16	-1.52	5.0E-02	120.0	0.406	0.000	0.406	47.6	76.4	693.98	1.16	0.00	3.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.824	283.57	283.56	3.39	1.19	-1.10	5.0E-02	120.0	0.409	0.000	0.409	48.1	76.7	691.52	1.20	0.00	3.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.890	286.90	286.89	3.52	1.23	-0.83	5.0E-02	120.0	0.413	0.000	0.413	48.8	77.5	692.99	1.23	0.00	3.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.955	280.25	280.24	3.64	1.30	-0.63	5.0E-02	120.0	0.417	0.000	0.417	48.1	76.0	670.52	1.30	0.00	4.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.021	273.66	273.66	3.73	1.36	-0.53	5.0E-02	120.0	0.421	0.000	0.421	47.3	74.5	648.61	1.36	0.00	4.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.087	270.99	270.98	3.71	1.37	-0.83	5.0E-02	120.0	0.425	0.000	0.425	46.9	73.5	636.29	1.37	0.00	4.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.152	269.19	269.18	3.65	1.36	-0.90	5.0E-02	120.0	0.429	0.000	0.429	46.6	72.7	626.26	1.36	0.00	4.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.218	264.34	264.33	3.59	1.36	-0.83	5.0E-02	120.0	0.433	0.000	0.433	45.8	71.2	609.36	1.36	0.00	4.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.283	258.72	258.71	3.57	1.38	-1.08	5.0E-02	120.0	0.437	0.000	0.437	45.1	69.6	590.99	1.38	0.00	4.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.349	254.12	254.11	3.55	1.40	-1.04	5.0E-02	120.0	0.441	0.000	0.441	44.4	68.3	575.27	1.40	0.00	4.9	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.415	250.74	250.73	3.59	1.43	-1.08	5.0E-03	120.0	0.445	0.000	0.445	44.0	67.4	562.57	1.43	0.00	5.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.480	246.52	246.50	3.58	1.45	-1.21	5.0E-03	120.0	0.449	0.000	0.449	43.4	66.2	548.22	1.45	0.00	5.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.546	241.92	241.91	3.58	1.48	-1.00	5.0E-03	120.0	0.453	0.000	0.453	42.8	65.0	533.29	1.48	0.00	5.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.611	237.83	237.82	3.53	1.48	-1.06	5.0E-03	120.0	0.457	0.000	0.457	42.2	63.7	519.73	1.49	0.00	5.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.677	231.89	231.88	3.59	1.55	-1.31	5.0E-03	120.0	0.461	0.000	0.461	41.4	62.4	502.39	1.55	0.00	6.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.743	227.23	227.22	3.61	1.59	-1.13	5.0E-03	120.0	0.465	0.000	0.465	40.8	61.2	488.09	1.59	0.00	6.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.808	227.29	227.28	3.59	1.58	-0.73	5.0E-03	120.0	0.469	0.000	0.469	40.8	60.9	484.12	1.58	0.00	6.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.874	235.98	235.98	3.58	1.52	0.00	5.0E-03	120.0	0.472	0.000	0.472	42.0	62.5	498.49	1.52	0.00	5.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
7.940	239.49	239.49	3.57	1.49	0.35	5.0E-03	120.0	0.476	0.000	0.476	42.5	63.0	501.74	1.49	0.00	5.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.005	247.41	247.42	3.47	1.40	0.65	5.0E-02	120.0	0.480	0.000	0.480	43.5	64.1	514.11	1.40	0.00	5.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.071	253.55	253.55	3.36	1.32	0.24	5.0E-02	120.0	0.484	0.000	0.484	44.2	64.9	522.58	1.33	0.00	4.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.136	257.12	257.12	3.29	1.28	-0.16	5.0E-02	120.0	0.488	0.000	0.488	44.6	65.2	525.68	1.28	0.00	4.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.202	258.91	258.90	3.25	1.25	-0.51	5.0E-02	120.0	0.492	0.000	0.492	44.8	65.2	525.08	1.26	0.00	4.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.268	257.96	257.95	3.24	1.26	-1.00	5.0E-02	120.0	0.496	0.000	0.496	44.7	64.8	518.98	1.26	0.00	4.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.333	254.00	253.98	3.26	1.28	-1.10	5.0E-02	120.0	0.500	0.000	0.500	44.2	63.8	506.96	1.29	0.00	4.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.399	252.71	252.70	3.29	1.30	-1.00	5.0E-02	120.0	0.504	0.000	0.504	44.0	63.4	500.45	1.30	0.00	4.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.464	251.06	251.05	3.32	1.32	-1.21	5.0E-02	120.0	0.508	0.000	0.508	43.9	62.9	493.30	1.32	0.00	4.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.530	247.35	247.34	2.76	1.11	-1.19	5.0E-02	120.0	0.512	0.000	0.512	42.4	60.6	482.25	1.12	0.00	4.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.596	245.88	245.86	2.75	1.12	-1.19	5.0E-02	120.0	0.516	0.000	0.516	42.2	60.1	475.71	1.12	0.00	4.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.661	242.37	242.35	2.80	1.15	-1.33	5.0E-02	120.0	0.520	0.000	0.520	41.8	59.3	465.34	1.16	0.00	4.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.727	239.75	239.74	2.92	1.22	-1.39	5.0E-02	120.0	0.524	0.000	0.524	41.7	58.9	456.84	1.22	0.00	4.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.793	238.66	238.65	2.99	1.25	-1.17	5.0E-02	120.0	0.528	0.000	0.528	41.7	58.6	451.35	1.25	0.00	4.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.858	238.28	238.27	3.03	1.27	-0.69	5.0E-02	120.0	0.532	0.000	0.532	41.7	58.5	447.30	1.27	0.00	5.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
8.924	245.56	245.55	3.08	1.25	-0.73	5.0E-02	120.0	0.535	0.000	0.535	42.8	59.8	457.59	1.26	0.00	4.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
8.989	248.05	248.04	3.19	1.29	-0.85	5.0E-02	120.0	0.539	0.000	0.539	43.4	60.3	458.87	1.29	0.00	4.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.055	247.92	247.91	3.29	1.33	-1.02	5.0E-02	120.0	0.543	0.000	0.543	43.5	60.3	455.29	1.33	0.00	5.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.121	246.78	246.77	3.33	1.35	-1.06	5.0E-02	120.0	0.547	0.000	0.547	43.4	60.0	449.92	1.35	0.00	5.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.186	243.58	243.57	3.28	1.35	-1.10	5.0E-02	120.0	0.551	0.000	0.551	42.9	59.1	440.90	1.35	0.00	5.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.252	239.04	239.03	3.25	1.36	-1.10	5.0E-02	120.0	0.555	0.000	0.555	42.2	57.9	429.58	1.36	0.00	5.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.317	234.89	234.88	3.27	1.39	-1.08	5.0E-02	120.0	0.559	0.000	0.559	41.7	57.0	419.13	1.39	0.00	5.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.383	232.27	232.26	3.38	1.45	-1.17	5.0E-03	120.0	0.563	0.000	0.563	41.5	56.5	411.54	1.46	0.00	6.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.449	227.80	227.79	3.55	1.56	-1.39	5.0E-03	120.0	0.567	0.000	0.567	41.1	55.8	400.79	1.56	0.00	6.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.514	220.59	220.57	3.64	1.65	-1.41	5.0E-03	120.0	0.571	0.000	0.571	40.3	54.4	385.37	1.65	0.00	7.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.580	209.53	209.52	3.71	1.77	-0.83	5.0E-03	120.0	0.575	0.000	0.575	38.8	52.2	363.50	1.78	0.00	8.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.646	211.00	210.99	3.73	1.77	-0.67	5.0E-03	120.0	0.579	0.000	0.579	39.0	52.4	363.57	1.77	0.00	8.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.711	217.58	217.57	3.72	1.71	-0.71	5.0E-03	120.0	0.583	0.000	0.583	40.0	53.5	372.39	1.71	0.00	7.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.777	226.14	226.13	3.75	1.66	-0.83	5.0E-03	120.0	0.587	0.000	0.587	41.3	55.0	384.48	1.66	0.00	7.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.842	228.44	228.43	3.72	1.63	-1.48	5.0E-03	120.0	0.591	0.000	0.591	41.6	55.3	385.80	1.63	0.00	7.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.908	221.35	221.33	3.58	1.62	-1.64	5.0E-03	120.0	0.594	0.000	0.594	40.4	53.5	371.30	1.62	0.00	7.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.974	211.57	211.55	3.47	1.64	-2.00	5.0E-03	120.0	0.598	0.000	0.598	38.8	51.3	352.51	1.64	0.00	7.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.039	199.50	199.48	3.35	1.68	-2.33	5.0E-03	120.0	0.602	0.000	0.602	36.9	48.6	330.16	1.68	0.00	8.1	93.7	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.105	187.11	187.09	3.27	1.75	-2.53	5.0E-03	120.0	0.606	0.000	0.606	35.0	45.9	307.57	1.75	0.00	8.8	91.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.170	177.91	177.88	3.32	1.87	-2.59	5.0E-03	120.0	0.610	0.000	0.610	33.7	44.1	290.50	1.87	0.00	9.6	90.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.236	169.92	169.89	3.37	1.98	-2.74	5.0E-03	120.0	0.614	0.000	0.614	32.6	42.5	275.62	1.99	0.00	10.4	88.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.302	158.42	158.40	3.41	2.15	-2.70	5.0E-04	120.0	0.618	0.000	0.618	31.0	40.2	255.25	2.16	0.00	11.6	86.7	46.0	2.006	317.8	-9999.0	-9999.0
10.367	142.91	142.88	3.41	2.39	-2.88	5.0E-04	120.0	0.622	0.000	0.622	-9999.0	-9999.0	228.68	2.40	0.00	-9999.0	83.7	46.0	1.886	269.5	-9999.0	-9999.0
10.433	130.26	130.23	3.43	2.63	-2.80	5.0E-04	120.0	0.626	0.000	0.626	-9999.0	-9999.0	207.03	2.65	0.00	-9999.0	80.9	46.0	1.885	245.5	-9999.0	-9999.0
10.499	129.10	129.08	3.39	2.62	-2.53	5.0E-04	120.0	0.630	0.000	0.630	-9999.0	-9999.0	203.91	2.64	0.00	-9999.0	80.6	46.0	1.889	243.8	-9999.0	-9999.0
10.564	139.77	139.75	3.33	2.38	-2.07	5.0E-04	120.0	0.634	0.000	0.634	28.1	36.0	219.47	2.39	0.00	13.5	82.8	46.0	1.879	262.5	-9999.0	-9999.0
10.630	152.42	152.40	3.20	2.10	-2.09	5.0E-04	120.0	0.638	0.000	0.638	29.9	38.2	237.94	2.11	0.00	11.7	85.2	46.0	1.922	292.9	-9999.0	-9999.0
10.695	159.77	159.75	2.99	1.87	-1.90	5.0E-03	120.0	0.642	0.000	0.642	30.7	39.2	247.93	1.88	0.00	10.5	86.4	46.0	1.986	317.2	-9999.0	-9999.0
10.761	158.75	158.72	2.71	1.71	-2.29	5.0E-03	120.0	0.646	0.000	0.646	30.2	38.4	244.82	1.71	0.00	9.8	86.2	46.0	1.969	312.5	-9999.0	-9999.0
10.827	155.94	155.91	2.46	1.58	-2.33	5.0E-03	120.0	0.650	0.000	0.650	29.4	37.3	239.01	1.58	0.00	9.3	85.6	46.0	1.938	302.1	-9999.0	-9999.0
10.892	152.36	152.33	2.42	1.59	-2.68	5.0E-03	120.0	0.654	0.000	0.654	28.9	36.5	232.08	1.59	0.00	9.5	84.8	46.0	1.910	290.9	-9999.0	-9999.0
10.958	149.74	149.71	2.50	1.67	-2.70	5.0E-03	120.0	0.657	0.000	0.657	28.6	36.0	226.71	1.67	0.00	10.1	84.2	46.0	1.895	283.7	-9999.0	-9999.0
11.023	144.50	144.47	2.64	1.82	-2.82	5.0E-03	120.0	0.661	0.000	0.661	28.0	35.2	217.42	1.83	0.00	11.0	83.1	46.0	1.880	271.7	-9999.0	-9999.0
11.089	137.92	137.89	2.72	1.97	-2.84	5.0E-04	120.0	0.665	0.000	0.665	27.1	34.0	206.25	1.98	0.00	12.1	81.7	46.0	1.880	259.2	-9999.0	-9999.0
11.155	124.69	124.66	2.75	2.20	-2.74	5.0E-04	120.0	0.669	0.000	0.669	25.2	31.4	185.26	2.22	0.00	13.8	78.7	44.0	1.914	238.7	-9999.0	-9999.0
11.220	118.50	118.47	2.73	2.30	-2.33	5.0E-04	120.0	0.673	0.000	0.673	24.2	30.1	174.97	2.31	0.00	14.7	77.2	44.0	1.941	230.0	-9999.0	-9999.0
11.286	124.12	124.10	2.68	2.16	-2.07	5.0E-04	120.0	0.677	0.000	0.677	25.0	31.1	182.26	2.17	0.00	13.7	78.4	44.0	1.919	238.2	-9999.0	-9999.0
11.352	131.66	131.64	2.57	1.95	-2.00	5.0E-04	120.0	0.681	0.000	0.681	26.0	32.2	192.27	1.96	0.00	12.4	80.0	44.0	1.895	249.5	-9999.0	-9999.0
11.417	135.81	135.78	2.50	1.84	-2.47	5.0E-03	120.0	0.685	0.000	0.685	26.6	32.8	197.21	1.85	0.00	11.7	80.8	46.0	1.886	256.1	-9999.0	-9999.0
11.483	136.70	136.67	2.38	1.74	-2.76	5.0E-03	120.0	0.689	0.000	0.689	26.6	32.7	197.37	1.75	0.00	11.2	80.9	46.0	1.885	257.6	-9999.0	-9999.0
11.548	135.69	135.66	2.24	1.65	-2.80	5.0E-03	120.0	0.693	0.000	0.693	26.2	32.2	194.78	1.66	0.00	10.8	80.7	44.0	1.888	256.1	-9999.0	-9999.0
11.614	133.44	133.41	2.17	1.62	-2.74	5.0E-03	120.0	0.697	0.000	0.697	25.8	31.6	190.45	1.63	0.00	10.8	80.1	44.0	1.895	252.8	-9999.0	-9999.0
11.680	129.17	129.14	2.20	1.70	-2.74	5.0E-03	120.0	0.701	0.000	0.701	25.2	30.8	183.28	1.71	0.00	11.5	79.1	44.0	1.909	246.5	-9999.0	-9999.0
11.745	125.01	124.99	1.83	1.47	-2.11	5.0E-03	120.0	0.705	0.000	0.705	24.1	29.3	176.36	1.48	0.00	10.6	78.1	44.0	1.926	240.7	-9999.0	-9999.0
11.811	119.90	119.88	1.93	1.61	-1.94	5.0E-03	120.0	0.709	0.000	0.709	23.4	28.5	168.16	1.62	0.00	11.6	76.8	44.0	1.949	233.6	-9999.0	-9999.0
11.876	115.05	115.03	2.05	1.79	-2.15	5.0E-04	120.0	0.713	0.000	0.713	22.9	27.7	160.42	1.80	0.00	12.8	75.5	44.0	1.973	226.9	-9999.0	-9999.0
11.942	105.41	105.38	2.05	1.95	-2.13	5.0E-04	120.0	0.717	0.000	0.717	21.4	25.9	146.07	1.96	0.00	14.4	72.9	44.0	2.024	213.3	-9999.0	-9999.0
12.008	110.20	110.17	2.05	1.87	-2.15	5.0E-04	120.0	0.720	0.000	0.720	22.2	26.7	151.92	1.88	0.00	13.6	74.1	44.0	2.000	220.4	-9999.0	-9999.0
12.073	116.71	116.71	2.14	1.83	0.10	5.0E-04	120.0	0.724	0.000	0.724	23.3	28.0	160.11	1.84	0.00	13.0	75.7	44.0	1.969	229.8	-9999.0	-9999.0
12.139	138.04	138.04	2.22	1.60	-0.55	5.0E-03	120.0	0.728	0.000	0.728	26.6	31.9	188.52	1.61	0.00	10.7	80.4	44.0	1.890	260.9	-9999.0	-9999.0
12.205	156.32	156.31	2.28	1.46	-0.69	5.0E-03	120.0	0.732	0.000	0.732	29.4	35.1	212.46	1.46	0.00	9.1	83.9	46.0	1.889	295.3	-9999.0	-9999.0
12.270	173.18	173.17	2.49	1.44	-0.87	5.0E-03	120.0	0.736	0.000	0.736	32.2	38.3	234.21	1.44	0.00	8.4	86.8	46.0	2.010	348.1	-9999.0	-9999.0
12.336	181.55	181.54	2.72	1.50	-1.08	5.0E-03	120.0	0.740	0.000	0.740	33.8	40.1	244.27	1.50	0.00	8.4	88.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.401	192.92	192.91	2.86	1.48	-1.12	5.0E-03	120.0	0.744	0.000	0.744	35.6	42.2	258.25	1.49	0.00	8.0	89.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.467	207.42	207.41	2.84	1.37	-0.98	5.0E-03	120.0	0.748	0.000	0.748	37.7	44.5	276.27	1.37	0.00	7.0	91.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.533	214.70	214.69	2.80	1.30	-1.04	5.0E-02	120.0	0.752	0.000	0.752	38.7	45.6	284.50	1.31	0.00	6.5	92.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.598	225.31	225.29	3.05	1.35	-1.15	5.0E-02	120.0	0.756	0.000	0.756	40.6	47.7	297.04	1.36	0.00	6.5	93.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.664	241.41	241.39	3.34	1.38	-1.58	5.0E-02	120.0	0.760	0.000	0.760	43.3	50.8	316.68	1.39	0.00	6.3	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
12.730	261.02	261.00	3.60	1.38	-1.78	5.0E-02	120.0	0.764	0.000	0.764	46.5	54.4	340.72	1.38	0.00	6.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.795	273.22	273.20	3.85	1.41	-1.84	5.0E-02	120.0	0.768	0.000	0.768	48.6	56.7	354.86	1.41	0.00	5.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.861	279.29	279.26	4.14	1.48	-2.86	5.0E-02	120.0	0.772	0.000	0.772	49.9	58.1	360.89	1.49	0.00	6.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.926	283.06	283.03	4.16	1.47	-2.51	5.0E-02	120.0	0.776	0.000	0.776	50.5	58.6	363.92	1.47	0.00	6.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.992	291.81	291.79	4.25	1.46	-2.09	5.0E-02	120.0	0.780	0.000	0.780	51.9	60.0	373.31	1.46	0.00	5.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.058	304.97	304.96	4.32	1.42	-1.29	5.0E-02	120.0	0.783	0.000	0.783	53.8	62.2	388.24	1.42	0.00	5.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.123	320.88	320.86	4.50	1.40	-1.50	5.0E-02	120.0	0.787	0.000	0.787	56.4	64.9	406.49	1.41	0.00	5.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.189	350.14	350.12	4.61	1.32	-1.39	5.0E-02	120.0	0.791	0.000	0.791	60.6	69.6	441.44	1.32	0.00	4.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.254	372.36	372.35	4.54	1.22	-1.25	5.0E-02	120.0	0.795	0.000	0.795	63.6	72.8	467.20	1.22	0.00	3.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.320	388.52	388.52	4.39	1.13	-0.45	5.0E-02	120.0	0.799	0.000	0.799	65.5	74.9	485.12	1.13	0.00	3.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.386	407.31	407.31	4.34	1.07	-0.06	5.0E-02	120.0	0.803	0.000	0.803	68.0	77.5	506.13	1.07	0.00	2.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
13.451	426.34	426.34	4.48	1.05	-0.02	5.0E-02	120.0	0.807	0.000	0.807	70.8	80.5	527.24	1.05	0.00	2.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.517	442.63	442.64	4.81	1.09	0.49	5.0E-02	120.0	0.811	0.000	0.811	73.6	83.5	544.77	1.09	0.00	2.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
13.583	451.32	451.33	5.17	1.15	0.37	5.0E-02	120.0	0.815	0.000	0.815	75.4	85.4	552.80	1.15	0.00	2.8	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
13.648	453.24	453.24	5.55	1.23	0.33	5.0E-02	120.0	0.819	0.000	0.819	76.4	86.2	552.47	1.23	0.00	3.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
13.714	450.36	450.37	6.05	1.34	0.43	5.0E-02	120.0	0.823	0.000	0.823	76.8	86.5	546.33	1.35	0.00	3.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
13.779	447.10	447.12	6.57	1.47	1.02	5.0E-02	120.0	0.827	0.000	0.827	77.1	86.7	539.79	1.47	0.00	4.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
13.845	444.87	444.88	6.89	1.55	0.73	5.0E-02	120.0	0.831	0.000	0.831	77.3	86.7	534.53	1.55	0.00	4.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.911	438.67	438.68	6.83	1.56	0.71	5.0E-02	120.0	0.835	0.000	0.835	76.4	85.4	524.58	1.56	0.00	4.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.976	430.24	430.25	6.55	1.52	0.49	5.0E-02	120.0	0.839	0.000	0.839	74.8	83.5	512.06	1.52	0.00	4.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.042	423.09	423.09	6.10	1.44	0.71	5.0E-02	120.0	0.843	0.000	0.843	73.2	81.5	501.17	1.45	0.00	4.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.107	420.09	420.09	5.58	1.33	0.45	5.0E-02	120.0	0.846	0.000	0.846	72.0	79.9	495.29	1.33	0.00	4.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.173	421.93	421.93	4.86	1.15	-0.08	5.0E-02	120.0	0.850	0.000	0.850	71.0	78.7	495.16	1.15	0.00	3.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.239	429.16	429.17	4.19	0.98	0.69	5.0E-02	120.0	0.854	0.000	0.854	70.8	78.3	501.34	0.98	0.00	2.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.304	434.07	434.08	3.51	0.81	0.67	5.0E+00	120.0	0.858	0.000	0.858	70.0	77.3	504.76	0.81	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.370	439.70	439.70	2.97	0.67	0.71	5.0E+00	120.0	0.862	0.000	0.862	69.5	76.5	508.97	0.68	0.00	0.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.436	445.51	445.52	2.56	0.57	0.85	5.0E+00	120.0	0.866	0.000	0.866	69.2	76.0	513.37	0.57	0.00	0.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.501	448.96	448.97	2.42	0.54	1.15	5.0E+00	120.0	0.870	0.000	0.870	69.3	75.9	515.01	0.54	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.567	445.89	445.90	2.36	0.53	0.98	5.0E+00	120.0	0.874	0.000	0.874	68.7	75.1	509.17	0.53	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.632	441.17	441.18	2.31	0.52	0.77	5.0E+00	120.0	0.878	0.000	0.878	68.0	74.2	501.50	0.52	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.698	432.48	432.49	2.29	0.53	0.75	5.0E+00	120.0	0.882	0.000	0.882	66.9	72.8	489.40	0.53	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.764	419.45	419.46	2.26	0.54	0.98	5.0E+00	120.0	0.886	0.000	0.886	65.1	70.7	472.52	0.54	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.829	407.18	407.19	2.28	0.56	0.90	5.0E+00	120.0	0.890	0.000	0.890	63.7	69.0	456.63	0.56	0.00	0.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.895	395.05	395.06	2.23	0.56	1.10	5.0E+00	120.0	0.894	0.000	0.894	62.0	67.0	441.04	0.56	0.00	0.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.960	378.82	378.83	2.08	0.55	0.90	5.0E+00	120.0	0.898	0.000	0.898	59.5	64.2	421.02	0.55	0.00	0.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.026	363.29	363.31	1.99	0.55	1.31	5.0E+00	120.0	0.902	0.000	0.902	57.3	61.7	401.96	0.55	0.00	0.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.092	349.12	349.13	1.50	0.43	1.29	5.0E+00	120.0	0.906	0.000	0.906	54.1	58.0	384.56	0.43	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.157	336.40	336.41	1.44	0.43	1.19	5.0E+00	120.0	0.909	0.000	0.909	52.3	56.0	368.90	0.43	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.223	323.69	323.70	1.40	0.43	1.00	5.0E+00	120.0	0.913	0.000	0.913	50.5	54.0	353.39	0.43	0.00	0.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.289	313.53	313.54	1.32	0.42	0.79	5.0E+00	120.0	0.917	0.000	0.917	49.0	52.3	340.79	0.42	0.00	0.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.354	300.88	300.90	1.25	0.42	1.60	5.0E+00	120.0	0.921	0.000	0.921	47.2	50.2	325.61	0.42	0.00	0.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.420	277.75	277.77	1.20	0.43	1.43	5.0E+00	120.0	0.925	0.000	0.925	44.1	46.8	299.22	0.43	0.00	0.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.485	270.92	270.93	1.12	0.41	1.12	5.0E+00	120.0	0.929	0.000	0.929	42.9	45.5	290.59	0.42	0.00	0.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.551	261.08	261.09	1.11	0.43	1.06	5.0E+00	120.0	0.933	0.000	0.933	41.6	44.0	278.82	0.43	0.00	0.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.617	251.76	251.77	1.00	0.40	1.02	5.0E+00	120.0	0.937	0.000	0.937	40.1	42.3	267.69	0.40	0.00	0.9	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.682	242.30	242.31	0.97	0.40	0.98	5.0E+00	120.0	0.941	0.000	0.941	38.8	40.8	256.51	0.40	0.00	1.1	92.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.748	233.87	233.88	0.87	0.37	0.90	5.0E+00	120.0	0.945	0.000	0.945	37.3	39.3	246.52	0.37	0.00	1.0	91.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.813	224.54	224.56	0.79	0.35	0.98	5.0E+00	120.0	0.949	0.000	0.949	35.9	37.6	235.67	0.35	0.00	1.0	90.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.879	216.04	216.06	0.76	0.35	1.13	5.0E-02	120.0	0.953	0.000	0.953	34.7	36.3	225.77	0.35	0.00	1.2	89.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.945	209.02	209.03	0.71	0.34	0.98	5.0E-02	120.0	0.957	0.000	0.957	33.6	35.1	217.49	0.34	0.00	1.2	88.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.010	202.06	202.07	0.66	0.33	0.94	5.0E-02	120.0	0.961	0.000	0.961	32.5	33.9	209.35	0.33	0.00	1.3	87.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.076	194.58	194.59	0.57	0.29	1.10	5.0E-02	120.0	0.965	0.000	0.965	31.2	32.5	200.74	0.30	0.00	1.2	86.3	46.0	1.988	386.9	-9999.0	-9999.0
16.142	188.58	188.59	0.52	0.28	1.06	5.0E-02	120.0	0.969	0.000	0.969	30.2	31.4	193.72	0.28	0.00	1.2	85.3	44.0	1.942	366.2	-9999.0	-9999.0
16.207	183.54	183.54	0.46	0.25	0.59	5.0E-02	120.0	0.972	0.000	0.972	29.4	30.4	187.74	0.25	0.00	1.1	84.5	44.0	1.917	351.8	-9999.0	-9999.0
16.273	177.21	177.22	0.48	0.27	1.12	5.0E-02	120.0	0.976	0.000	0.976	28.6	29.6	180.51	0.27	0.00	1.4	83.4	44.0	1.901	336.9	-9999.0	-9999.0
16.338	172.93	172.94	0.45	0.26	1.27	5.0E-02	120.0	0.980	0.000	0.980	27.9	28.8	175.41	0.26	0.00	1.4	82.6	44.0	1.898	328.3	-9999.0	-9999.0
16.404	167.63	167.64	0.46	0.28	1.13	5.0E-02	120.0	0.984	0.000	0.984	27.3	28.1	169.32	0.28	0.00	1.7	81.7	44.0	1.902	318.8	-9999.0	-9999.0
16.470	160.73	160.74	0.42	0.26	0.98	5.0E-02	120.0	0.988	0.000	0.988	26.2	27.0	161.66	0.26	0.00	1.8	80.4	44.0	1.915	307.8	-9999.0	-9999.0
16.535	156.57	156.58	0.37	0.24	0.92	5.0E-02	120.0	0.992	0.000	0.992	25.5	26.1	156.82	0.24	0.00	1.7	79.6	44.0	1.927	301.7	-9999.0	-9999.0
16.601	152.17	152.18	0.38	0.25	1.13	5.0E-02	120.0	0.996	0.000	0.996	24.9	25.5	151.78	0.25	0.00	2.0	78.7	44.0	1.942	295.6	-9999.0	-9999.0
16.666	151.15	151.16	0.36	0.24	1.17	5.0E-02	120.0	1.000	0.000	1.000	24.7	25.3	150.16	0.24	0.00	1.9	78.5	44.0	1.947	294.3	-9999.0	-9999.0
16.732	147.57	147.58	0.34	0.23	1.10	5.0E-02	120.0	1.004	0.000	1.004	24.2	24.7	146.00	0.23	0.00	2.0	77.8	44.0	1.962	289.5	-9999.0	-9999.0
16.798	146.36	146.37	0.31	0.21	1.12	5.0E-02	120.0	1.008	0.000	1.008	23.9	24.3	144.22	0.21	0.00	1.8	77.5	44.0	1.968	288.0	-9999.0	-9999.0
16.863	146.68	146.69	0.29	0.20	1.10	5.0E-02	120.0	1.012	0.000	1.012	23.9	24.2	143.97	0.20	0.00	1.7	77.5	44.0	1.968	288.7	-9999.0	-9999.0
16.929	149.16	149.18	0.29	0.19	1.37	5.0E-02	120.0	1.016	0.000	1.016	24.2	24.5	145.86	0.20	0.00	1.6	77.9	44.0	1.961	292.5	-9999.0	-9999.0
16.995	152.87	152.88	0.29	0.19	1.25	5.0E-02	120.0	1.020	0.000	1.020	24.7	25.0	148.93	0.19	0.00	1.4	78.5	44.0	1.949	298.0	-9999.0	-9999.0
17.060	155.30	155.32	0.32	0.21	2.09	5.0E-02	120.0	1.024	0.002	1.022	25.2	25.4	151.01	0.21	0.00	1.5	79.0	44.0	1.942	301.6	-9999.0	-9999.0
17.126	156.45	156.46	0.38	0.24	1.10	5.0E-02	120.0	1.028	0.004	1.024	25.6	25.8	151.84	0.25	0.00	1.9	79.2	44.0	1.939	303.3	-9999.0	-9999.0
17.191	155.55	155.56	0.47	0.30	1.54	5.0E-02	120.0	1.032	0.006	1.026	25.8	26.0	150.69	0.30	0.00	2.5	79.0	44.0	1.942	302.2	-9999.0	-9999.0
17.257	152.04	152.05	0.39	0.26	1.27	5.0E-02	120.0	1.035	0.008	1.027	25.0	25.2	146.99	0.26	0.00	2.1	78.3	44.0	1.955	297.3	-9999.0	-9999.0
17.323	153.50	153.51	0.43	0.28	0.96	5.0E-02	120.0	1.039	0.010	1.029	25.4	25.5	148.13	0.28	0.00	2.3	78.5	44.0	1.951	299.4	-9999.0	-9999.0
17.388	155.11	155.14	0.45	0.29	2.94	5.0E-02	120.0	1.043	0.012	1.031	25.7	25.8	149.43	0.29	0.00	2.4	78.8	44.0	1.946	301.9	-9999.0	-9999.0
17.454	154.01	154.04	0.59	0.38	2.31	5.0E-02	120.0	1.047	0.014	1.033	26.0	26.1	148.09	0.39	0.00	3.3	78.6	44.0	1.950	300.4	-9999.0	-9999.0
17.519	154.27	154.30	0.65	0.42	2.25	5.0E-02	120.0	1.051	0.016	1.035	26.2	26.3	148.07	0.43	0.00	3.6	78.6	44.0	1.950	300.9	-9999.0	-9999.0
17.585	153.12	153.14	0.72	0.47	2.04	5.0E-02	120.0	1.055	0.018	1.037	26.3	26.4	146.68	0.47	0.00	4.1	78.4	44.0	1.955	299.4	-9999.0	-9999.0
17.651	148.01	148.03	0.58	0.39	1.90	5.0E-02	120.0	1.059	0.020	1.039	25.2	25.2	141.49	0.40	0.00	3.6	77.4	44.0	1.974	292.3	-9999.0	-9999.0
17.716	142.33	142.34	0.55	0.39	1.50	5.0E-02	120.0	1.063	0.022	1.041	24.3	24.3	135.76	0.39	0.00	3.8	76.2	44.0	1.998	284.4	-9999.0	-9999.0
17.782	136.45	136.47	0.56	0.41	1.66	5.0E-02	120.0	1.067	0.024	1.043	23.5	23.5	129.88	0.41	0.00	4.2	75.0	44.0	2.024	276.2	-9999.0	-9999.0
17.848	132.81	132.83	0.50	0.38	1.64	5.0E-02	120.0	1.071	0.026	1.044	22.8	22.8	126.16	0.38	0.00	4.1	74.2	44.0	2.042	271.2	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
17.913	132.11	132.13	0.52	0.39	1.62	5.0E-02	120.0	1.075	0.029	1.046	22.8	22.8	125.25	0.40	0.00	4.3	74.0	44.0	2.046	270.3	-9999.0	-9999.0
17.979	136.64	136.66	0.53	0.39	1.76	5.0E-02	120.0	1.079	0.031	1.048	23.4	23.4	129.35	0.39	0.00	4.0	74.9	44.0	2.026	276.9	-9999.0	-9999.0
18.044	139.65	139.66	0.49	0.35	1.35	5.0E-02	120.0	1.083	0.033	1.050	23.7	23.7	131.97	0.35	0.00	3.6	75.5	44.0	2.014	281.2	-9999.0	-9999.0
18.110	145.26	145.28	0.51	0.35	1.80	5.0E-02	120.0	1.087	0.035	1.052	24.6	24.5	137.07	0.35	0.00	3.3	76.6	44.0	1.991	289.2	-9999.0	-9999.0
18.176	148.78	148.80	0.48	0.32	1.86	5.0E-02	120.0	1.091	0.037	1.054	24.9	24.8	140.16	0.33	0.00	3.0	77.3	44.0	1.978	294.3	-9999.0	-9999.0
18.241	149.74	149.76	0.48	0.32	1.41	5.0E-02	120.0	1.095	0.039	1.056	25.1	24.9	140.81	0.32	0.00	2.9	77.5	44.0	1.975	295.8	-9999.0	-9999.0
18.307	152.29	152.31	0.43	0.28	1.48	5.0E-02	120.0	1.098	0.041	1.058	25.2	25.1	142.97	0.29	0.00	2.5	77.9	44.0	1.966	299.5	-9999.0	-9999.0
18.372	154.73	154.74	0.19	0.12	1.43	5.0E-02	120.0	1.102	0.043	1.060	24.6	24.4	145.01	0.12	0.00	0.8	78.3	44.0	1.958	303.0	-9999.0	-9999.0
18.438	155.17	155.18	0.23	0.15	1.48	5.0E-02	120.0	1.106	0.045	1.061	24.8	24.6	145.16	0.15	0.00	1.1	78.4	44.0	1.957	303.7	-9999.0	-9999.0
18.504	156.06	156.07	0.26	0.17	1.41	5.0E-02	120.0	1.110	0.047	1.063	25.1	24.8	145.74	0.17	0.00	1.2	78.5	44.0	1.955	305.1	-9999.0	-9999.0
18.569	155.24	155.25	0.29	0.19	1.27	5.0E-02	120.0	1.114	0.049	1.065	25.1	24.8	144.70	0.19	0.00	1.4	78.4	44.0	1.959	304.1	-9999.0	-9999.0
18.635	153.89	153.91	0.36	0.23	1.37	5.0E-02	120.0	1.118	0.051	1.067	25.2	24.9	143.19	0.24	0.00	2.0	78.1	44.0	1.964	302.3	-9999.0	-9999.0
18.701	139.96	139.97	0.39	0.28	1.29	5.0E-02	120.0	1.122	0.053	1.069	23.4	23.2	129.89	0.28	0.00	2.9	75.3	44.0	2.021	282.8	-9999.0	-9999.0
18.766	135.88	135.89	0.45	0.33	1.15	5.0E-02	120.0	1.126	0.055	1.071	23.1	22.8	125.85	0.33	0.00	3.6	74.5	44.0	2.039	277.1	-9999.0	-9999.0
18.832	131.47	131.48	0.46	0.35	1.06	5.0E-02	120.0	1.130	0.057	1.073	22.5	22.2	121.51	0.35	0.00	4.0	73.5	42.0	2.061	270.9	-9999.0	-9999.0
18.897	128.72	128.73	0.50	0.39	1.06	5.0E-02	120.0	1.134	0.059	1.075	22.3	22.0	118.74	0.39	0.00	4.5	72.9	42.0	2.075	267.1	-9999.0	-9999.0
18.963	123.55	123.56	0.47	0.38	1.00	5.0E-02	120.0	1.138	0.061	1.077	21.5	21.2	113.72	0.38	0.00	4.7	71.7	42.0	2.101	259.7	-9999.0	-9999.0
19.029	119.27	119.28	0.43	0.36	1.13	5.0E-02	120.0	1.142	0.063	1.078	20.7	20.4	109.55	0.36	0.00	4.7	70.6	42.0	2.125	253.5	-9999.0	-9999.0
19.094	118.76	118.77	0.41	0.35	1.21	5.0E-02	120.0	1.146	0.065	1.080	20.6	20.3	108.88	0.35	0.00	4.6	70.5	42.0	2.129	252.8	-9999.0	-9999.0
19.160	117.67	117.68	0.37	0.32	1.00	5.0E-02	120.0	1.150	0.067	1.082	20.3	20.0	107.68	0.32	0.00	4.3	70.2	42.0	2.136	251.3	-9999.0	-9999.0
19.225	117.41	117.43	0.35	0.30	1.21	5.0E-02	120.0	1.154	0.069	1.084	20.2	19.8	107.26	0.30	0.00	4.2	70.1	42.0	2.138	251.1	-9999.0	-9999.0
19.291	121.05	121.06	0.34	0.28	0.92	5.0E-02	120.0	1.157	0.072	1.086	20.7	20.3	110.41	0.28	0.00	3.8	71.0	42.0	2.119	256.5	-9999.0	-9999.0
19.357	123.04	123.05	0.31	0.25	0.98	5.0E-02	120.0	1.161	0.074	1.088	20.8	20.4	112.04	0.25	0.00	3.4	71.4	42.0	2.109	259.6	-9999.0	-9999.0
19.422	122.97	122.98	0.34	0.28	1.04	5.0E-02	120.0	1.165	0.076	1.090	21.0	20.5	111.78	0.28	0.00	3.7	71.4	42.0	2.111	259.6	-9999.0	-9999.0
19.488	117.61	117.62	0.40	0.34	0.92	5.0E-02	120.0	1.169	0.078	1.092	20.4	20.0	106.67	0.34	0.00	4.6	70.0	42.0	2.141	251.8	-9999.0	-9999.0
19.554	107.51	107.52	0.48	0.45	0.83	5.0E-02	120.0	1.173	0.080	1.094	19.3	18.8	97.25	0.45	0.00	5.0	67.5	42.0	2.204	237.0	-9999.0	-9999.0
19.619	92.82	92.82	0.61	0.66	0.83	5.0E-03	120.0	1.177	0.082	1.095	17.5	17.1	83.67	0.67	0.00	9.3	63.2	42.0	2.324	215.7	-9999.0	-9999.0
19.685	72.19	72.19	0.78	1.08	0.75	5.0E-03	120.0	1.181	0.084	1.097	14.8	14.4	64.72	1.10	0.00	14.9	56.0	40.0	2.594	187.3	-9999.0	-9999.0
19.750	52.32	52.32	0.71	1.36	0.63	5.0E-04	120.0	1.185	0.086	1.099	11.5	11.2	46.52	1.39	0.00	20.5	46.7	38.0	3.051	159.6	-9999.0	-9999.0
19.816	38.71	38.72	0.65	1.68	0.39	5.0E-04	120.0	1.189	0.088	1.101	9.1	8.9	34.08	1.74	0.00	26.6	38.1	36.0	3.534	136.8	-9999.0	-9999.0
19.882	32.52	32.53	0.59	1.82	0.67	5.0E-05	120.0	1.193	0.090	1.103	8.0	7.8	28.41	1.89	0.00	30.2	33.1	36.0	3.815	124.1	2.089	10.0
19.947	27.22	27.22	0.55	2.03	0.43	5.0E-05	120.0	1.197	0.092	1.105	7.1	6.4	23.55	2.12	0.00	35.7	30.0	34.0	-9999.0	-9999.0	1.735	9.2
20.013	24.66	24.67	0.50	2.03	1.12	5.0E-05	120.0	1.201	0.094	1.107	6.5	5.9	21.21	2.14	0.00	37.6	30.0	34.0	-9999.0	-9999.0	1.565	7.8
20.078	22.04	22.05	0.40	1.82	0.85	5.0E-05	120.0	1.205	0.096	1.109	5.9	5.2	18.81	1.92	0.00	38.4	30.0	32.0	-9999.0	-9999.0	1.390	6.4
20.144	20.57	20.58	0.30	1.46	0.92	5.0E-05	120.0	1.209	0.098	1.111	5.4	4.8	17.44	1.55	0.00	37.2	30.0	32.0	-9999.0	-9999.0	1.291	5.7
20.210	20.76	20.77	0.16	0.77	0.87	5.0E-04	120.0	1.213	0.100	1.112	5.0	4.9	17.58	0.82	0.00	29.0	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
20.275	19.17	19.18	0.08	0.42	1.02	5.0E-04	120.0	1.217	0.102	1.114	4.5	4.3	16.12	0.45	0.00	25.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
20.341	18.14	18.16	0.09	0.50	1.13	5.0E-04	120.0	1.220	0.104	1.116	4.3	4.2	15.17	0.53	0.00	27.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
20.407	17.37	17.40	0.10	0.58	2.43	5.0E-05	120.0	1.224	0.106	1.118	4.3	4.1	14.47	0.62	0.00	29.8	30.0	32.0	-9999.0	-9999.0	1.078	4.3
20.472	17.56	17.60	0.11	0.63	3.31	5.0E-05	120.0	1.228	0.108	1.120	4.3	4.2	14.62	0.67	0.01	30.2	30.0	32.0	-9999.0	-9999.0	1.091	4.4
20.538	17.50	17.54	0.11	0.63	3.54	5.0E-05	120.0	1.232	0.110	1.122	4.3	4.2	14.54	0.68	0.01	30.3	30.0	32.0	-9999.0	-9999.0	1.087	4.3
20.603	17.37	17.42	0.09	0.52	4.29	5.0E-05	120.0	1.236	0.113	1.124	4.2	4.1	14.40	0.56	0.01	29.0	30.0	32.0	-9999.0	-9999.0	1.079	4.3
20.669	17.18	17.23	0.08	0.47	4.48	5.0E-05	120.0	1.240	0.115	1.126	4.2	4.0	14.21	0.50	0.01	28.4	30.0	32.0	-9999.0	-9999.0	1.066	4.2
20.735	16.74	16.79	0.06	0.36	4.70	5.0E-05	120.0	1.244	0.117	1.128	4.0	3.8	13.79	0.39	0.01	27.2	30.0	32.0	-9999.0	-9999.0	1.036	4.0
20.800	16.29	16.34	0.05	0.31	4.66	5.0E-05	120.0	1.248	0.119	1.129	3.9	3.7	13.36	0.33	0.01	26.8	30.0	32.0	-9999.0	-9999.0	1.006	3.8
20.866	15.53	15.58	0.02	0.13	5.09	5.0E-05	120.0	1.252	0.121	1.131	3.6	3.4	12.67	0.14	0.02	5.0	30.0	30.0	-9999.0	-9999.0	0.955	3.5
20.932	14.63	14.68	0.01	0.07	5.11	5.0E-05	120.0	1.256	0.123	1.133	-9999.0	-9999.0	11.85	0.07	0.02	-9999.0	30.0	30.0	-9999.0	-9999.0	0.895	3.2
20.997	13.86	13.93	0.01	0.07	5.89	5.0E-05	120.0	1.260	0.125	1.135	-9999.0	-9999.0	11.16	0.08	0.02	-9999.0	30.0	30.0	-9999.0	-9999.0	0.844	3.0
21.063	13.29	13.36	0.01	0.08	6.13	5.0E-05	120.0	1.264	0.127	1.137	-9999.0	-9999.0	10.64	0.08	0.03	-9999.0	30.0	30.0	-9999.0	-9999.0	0.806	2.8
21.128	14.05	14.12	0.33	2.34	6.24	5.0E-06	120.0	1.268	0.129	1.139	4.3	3.6	11.29	2.57	0.02	53.0	-9999.0	-9999.0	-9999.0	-9999.0	0.857	3.0
21.194	13.09	13.16	0.29	2.21	6.26	5.0E-06	120.0	1.272	0.131	1.141	4.1	3.4	10.42	2.45	0.03	54.1	-9999.0	-9999.0	-9999.0	-9999.0	0.793	2.7
21.260	13.09	13.17	0.26	1.98	7.05	5.0E-06	120.0	1.276	0.133	1.143	4.0	3.3	10.41	2.19	0.03	52.4	-9999.0	-9999.0	-9999.0	-9999.0	0.793	2.7
21.325	14.44	14.51	0.15	1.04	7.36	5.0E-05	120.0	1.280	0.135	1.144	4.0	3.3	11.56	1.14	0.03	41.7	30.0	30.0	-9999.0	-9999.0	0.882	3.1
21.391	18.59	18.67	0.20	1.07	8.04	5.0E-05	120.0	1.283	0.137	1.146	4.9	4.2	15.17	1.15	0.03	36.5	30.0	32.0	-9999.0	-9999.0	1.159	4.6
21.456	25.61	25.80	0.38	1.48	16.93	5.0E-05	120.0	1.287	0.139	1.148	6.5	6.2	21.34	1.55	0.04	32.0	30.0	34.0	-9999.0	-9999.0	1.634	7.8
21.522	31.31	31.57	0.49	1.56	24.63	5.0E-05	120.0	1.291	0.141	1.150	7.7	7.3	26.33	1.62	0.05	29.2	31.6	36.0	-9999.0	-9999.0	2.019	10.0
21.588	37.88	38.18	0.59	1.55	27.22	5.0E-04	120.0	1.295	0.143	1.152	9.0	8.6	32.01	1.60	0.05	26.3	37.0	36.0	3.607	137.7	-9999.0	-9999.0
21.653	45.80	45.82	0.67	1.47	1.37	5.0E-04	120.0	1.299	0.145	1.154	10.4	9.9	38.58	1.51	0.00	23.2	42.2	38.0	3.313	151.8	-9999.0	-9999.0
21.719	54.62	54.64	0.53	0.97	1.76	5.0E-04	120.0	1.303	0.147	1.156	11.6	11.0	46.15	1.00	0.00	17.4	47.3	38.0	3.036	165.9	-9999.0	-9999.0
21.785	65.73	65.75	0.55	0.84	2.04	5.0E-03	120.0	1.307	0.149	1.158	13.4	12.7	55.67	0.86	0.00	14.3	52.5	40.0	2.765	181.8	-9999.0	-9999.0
21.850	72.25	72.27	0.65	0.90	2.09	5.0E-03	120.0	1.311	0.151	1.160	14.6	13.8	61.19	0.92	0.00	13.8	55.2	40.0	2.641	190.9	-9999.0	-9999.0
21.916	71.73	71.75	0.77	1.08	1.74	5.0E-03	120.0	1.315	0.153	1.161	14.8	14.0	60.64	1.10	0.00	15.2	55.0	40.0	2.652	190.3	-9999.0	-9999.0
21.981	68.23	68.24	0.90	1.32	1.72	5.0E-04	120.0	1.319	0.156	1.163	14.5	13.7	57.53	1.35	0.00	17.5	53.5	40.0	2.719	185.6	-9999.0	-9999.0
22.047	62.35	62.37	0.97	1.56	1.35	5.0E-04	120.0	1.323	0.158	1.165	13.6	12.9	52.39	1.59	0.00	20.0	50.9	38.0	2.846	177.5	-9999.0	-9999.0
22.113	56.09	56.10	1.05	1.88	1.37	5.0E-04	120.0	1.327	0.160	1.167	12.7	12.1	46.93	1.92	0.00	23.2	47.9	38.0	3.005	168.6	-9999.0	-9999.0
22.178	52.45	52.46	1.09	2.08	1.17	5.0E-05	120.0	1.331	0.162	1.169	12.2	11.5	43.74	2.14	0.00	25.2	45.9	38.0	3.111	163.2	3.409	10.0
22.244	53.41	53.43	1.19	2.23	1.52	5.0E-05	120.0	1.335	0.164	1.171	12.5	11.8	44.49	2.29	0.00	25.8	46.4	38.0	3.084	164.8	3.473	10.0
22.309	52.58	52.59	1.29	2.46	1.43	5.0E-05	120.0	1.339	0.166	1.173	12.5	11.8	43.70	2.52	0.00	27.1	46.0	38.0	3.110	163.6	3.417	10.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
22.375	56.47	56.48	1.34	2.38	1.25	5.0E-05	120.0	1.343	0.168	1.175	13.2	12.5	46.94	2.44	0.00	25.8	48.0	38.0	3.002	169.5	3.676	10.0
22.441	60.56	60.57	1.34	2.22	1.19	5.0E-05	120.0	1.346	0.170	1.177	13.9	13.1	50.33	2.27	0.00	24.1	50.0	38.0	2.898	175.6	3.948	10.0
22.506	62.35	62.37	1.34	2.15	1.43	5.0E-04	120.0	1.350	0.172	1.178	14.2	13.4	51.78	2.20	0.00	23.4	50.8	38.0	2.857	178.2	-9999.0	-9999.0
22.572	69.38	69.39	1.34	1.94	1.33	5.0E-04	120.0	1.354	0.174	1.180	15.4	14.4	57.64	1.97	0.00	21.0	53.8	40.0	2.710	188.1	-9999.0	-9999.0
22.638	76.41	76.42	1.37	1.80	1.48	5.0E-04	120.0	1.358	0.176	1.182	16.5	15.5	63.49	1.83	0.00	19.2	56.5	40.0	2.588	197.8	-9999.0	-9999.0
22.703	77.55	77.56	1.37	1.77	1.12	5.0E-04	120.0	1.362	0.178	1.184	16.7	15.7	64.35	1.80	0.00	18.9	56.9	40.0	2.572	199.5	-9999.0	-9999.0
22.769	77.30	77.31	1.37	1.78	1.10	5.0E-04	120.0	1.366	0.180	1.186	16.7	15.7	64.03	1.81	0.00	18.9	56.8	40.0	2.577	199.2	-9999.0	-9999.0
22.834	75.89	75.91	1.35	1.78	1.06	5.0E-04	120.0	1.370	0.182	1.188	16.4	15.4	62.74	1.82	0.00	19.2	56.3	40.0	2.600	197.4	-9999.0	-9999.0
22.900	73.72	73.73	1.32	1.79	0.87	5.0E-04	120.0	1.374	0.184	1.190	16.0	15.0	60.81	1.83	0.00	19.6	55.4	40.0	2.638	194.5	-9999.0	-9999.0
22.966	71.61	71.62	1.30	1.82	0.73	5.0E-04	120.0	1.378	0.186	1.192	15.7	14.7	58.94	1.86	0.00	20.1	54.6	40.0	2.677	191.7	-9999.0	-9999.0
23.031	67.58	67.59	1.28	1.90	0.73	5.0E-04	120.0	1.382	0.188	1.194	15.0	14.0	55.47	1.94	0.00	21.2	52.9	40.0	2.756	186.3	-9999.0	-9999.0
23.097	64.78	64.78	1.23	1.90	0.71	5.0E-04	120.0	1.386	0.190	1.195	14.5	13.5	53.03	1.94	0.00	21.7	51.7	40.0	2.817	182.5	-9999.0	-9999.0
23.162	61.45	61.46	1.20	1.96	0.65	5.0E-04	120.0	1.390	0.192	1.197	13.9	13.0	50.17	2.00	0.00	22.7	50.1	38.0	2.895	177.9	-9999.0	-9999.0
23.228	58.19	58.20	1.14	1.96	0.61	5.0E-04	120.0	1.394	0.194	1.199	13.2	12.4	47.37	2.01	0.00	23.4	48.5	38.0	2.977	173.3	-9999.0	-9999.0
23.294	56.09	56.09	1.09	1.95	0.39	5.0E-04	120.0	1.398	0.197	1.201	12.8	12.0	45.53	2.00	0.00	23.8	47.5	38.0	3.035	170.3	-9999.0	-9999.0
23.359	54.36	54.37	1.06	1.95	0.53	5.0E-04	120.0	1.402	0.199	1.203	12.5	11.6	44.03	2.01	0.00	24.2	46.5	38.0	3.085	167.7	-9999.0	-9999.0
23.425	53.09	53.09	1.00	1.89	0.51	5.0E-04	120.0	1.406	0.201	1.205	12.2	11.4	42.90	1.94	0.00	24.2	45.8	38.0	3.124	165.9	-9999.0	-9999.0
23.491	52.26	52.26	0.94	1.80	0.65	5.0E-04	120.0	1.409	0.203	1.207	12.0	11.1	42.14	1.85	0.00	23.9	45.4	38.0	3.151	164.7	-9999.0	-9999.0
23.556	51.75	51.75	0.88	1.70	0.39	5.0E-04	120.0	1.413	0.205	1.209	11.8	11.0	41.64	1.75	0.00	23.5	45.1	38.0	3.168	163.9	-9999.0	-9999.0
23.622	51.62	51.62	0.84	1.63	0.28	5.0E-04	120.0	1.417	0.207	1.211	11.7	10.9	41.47	1.68	0.00	23.1	45.0	38.0	3.174	163.8	-9999.0	-9999.0
23.687	50.40	50.41	0.80	1.59	0.31	5.0E-04	120.0	1.421	0.209	1.212	11.4	10.6	40.40	1.64	0.00	23.1	44.3	38.0	3.213	162.0	-9999.0	-9999.0
23.753	49.76	49.76	0.77	1.55	0.31	5.0E-04	120.0	1.425	0.211	1.214	11.3	10.5	39.81	1.60	0.00	23.0	43.9	38.0	3.236	161.0	-9999.0	-9999.0
23.819	48.36	48.36	0.75	1.55	0.33	5.0E-04	120.0	1.429	0.213	1.216	11.0	10.2	38.59	1.60	0.00	23.5	43.0	38.0	3.283	158.8	-9999.0	-9999.0
23.884	48.49	48.49	0.72	1.49	0.16	5.0E-04	120.0	1.433	0.215	1.218	11.0	10.2	38.63	1.53	0.00	23.0	43.1	38.0	3.281	159.1	-9999.0	-9999.0
23.950	48.87	48.87	0.71	1.46	0.16	5.0E-04	120.0	1.437	0.217	1.220	11.0	10.2	38.88	1.50	0.00	22.7	43.3	38.0	3.270	159.8	-9999.0	-9999.0
24.015	50.34	50.34	0.69	1.37	0.12	5.0E-04	120.0	1.441	0.219	1.222	11.2	10.4	40.02	1.41	0.00	21.8	44.1	38.0	3.224	162.3	-9999.0	-9999.0
24.081	51.42	51.43	0.70	1.36	0.26	5.0E-04	120.0	1.445	0.221	1.224	11.4	10.6	40.84	1.40	0.00	21.4	44.7	38.0	3.191	164.1	-9999.0	-9999.0
24.147	52.45	52.45	0.69	1.32	0.20	5.0E-04	120.0	1.449	0.223	1.226	11.6	10.7	41.61	1.36	0.00	20.9	45.2	38.0	3.162	165.8	-9999.0	-9999.0
24.212	54.30	54.31	0.69	1.27	0.35	5.0E-04	120.0	1.453	0.225	1.228	11.9	11.0	43.05	1.31	0.00	20.1	46.2	38.0	3.109	168.8	-9999.0	-9999.0
24.278	54.93	54.93	0.70	1.28	0.14	5.0E-04	120.0	1.457	0.227	1.229	12.0	11.1	43.50	1.31	0.00	20.0	46.5	38.0	3.092	169.9	-9999.0	-9999.0
24.344	55.06	55.07	0.70	1.27	0.20	5.0E-04	120.0	1.461	0.229	1.231	12.0	11.1	43.53	1.31	0.00	20.0	46.6	38.0	3.090	170.2	-9999.0	-9999.0
24.409	55.19	55.20	0.72	1.31	0.31	5.0E-04	120.0	1.465	0.231	1.233	12.1	11.1	43.57	1.34	0.00	20.2	46.6	38.0	3.088	170.5	-9999.0	-9999.0
24.475	55.13	55.14	0.73	1.33	0.35	5.0E-04	120.0	1.469	0.233	1.235	12.1	11.1	43.45	1.36	0.00	20.4	46.6	38.0	3.091	170.5	-9999.0	-9999.0
24.540	55.06	55.07	0.73	1.33	0.28	5.0E-04	120.0	1.472	0.235	1.237	12.1	11.1	43.32	1.37	0.00	20.4	46.5	38.0	3.095	170.4	-9999.0	-9999.0
24.606	54.81	54.82	0.73	1.33	0.39	5.0E-04	120.0	1.476	0.237	1.239	12.1	11.1	43.05	1.37	0.00	20.5	46.4	38.0	3.104	170.1	-9999.0	-9999.0
24.672	54.17	54.18	0.76	1.41	0.43	5.0E-04	120.0	1.480	0.240	1.241	12.0	11.0	42.47	1.45	0.00	21.1	46.0	38.0	3.124	169.2	-9999.0	-9999.0
24.737	55.06	55.07	0.80	1.46	0.49	5.0E-04	120.0	1.484	0.242	1.243	12.2	11.2	43.12	1.50	0.00	21.3	46.4	38.0	3.100	170.7	-9999.0	-9999.0
24.803	56.35	56.35	0.83	1.48	0.59	5.0E-04	120.0	1.488	0.244	1.245	12.5	11.4	44.08	1.52	0.00	21.1	47.1	38.0	3.066	172.8	-9999.0	-9999.0
24.868	57.24	57.24	0.85	1.49	0.43	5.0E-04	120.0	1.492	0.246	1.246	12.7	11.6	44.73	1.53	0.00	21.0	47.5	38.0	3.043	174.2	-9999.0	-9999.0
24.934	59.47	59.48	0.88	1.48	0.49	5.0E-04	120.0	1.496	0.248	1.248	13.1	12.0	46.45	1.52	0.00	20.5	48.6	38.0	2.986	177.6	-9999.0	-9999.0
25.000	60.05	60.05	0.68	1.14	0.39	5.0E-04	120.0	1.500	0.250	1.250	12.8	11.7	46.83	1.16	0.00	18.0	48.8	38.0	2.973	178.5	-9999.0	-9999.0
25.065	60.63	60.63	0.72	1.19	0.49	5.0E-04	120.0	1.504	0.252	1.252	13.0	11.9	47.22	1.22	0.00	18.3	49.1	38.0	2.960	179.5	-9999.0	-9999.0
25.131	58.45	58.46	0.76	1.30	0.45	5.0E-04	120.0	1.508	0.254	1.254	12.7	11.6	45.41	1.34	0.00	19.6	48.0	38.0	3.017	176.4	-9999.0	-9999.0
25.197	56.60	56.60	0.78	1.38	0.33	5.0E-04	120.0	1.512	0.256	1.256	12.5	11.4	43.86	1.42	0.00	20.5	47.1	38.0	3.069	173.7	-9999.0	-9999.0
25.262	54.74	54.75	0.80	1.46	0.65	5.0E-04	120.0	1.516	0.258	1.258	12.2	11.1	42.32	1.51	0.00	21.5	46.1	38.0	3.122	170.9	-9999.0	-9999.0
25.328	51.23	51.23	0.83	1.62	-0.67	5.0E-04	120.0	1.520	0.260	1.260	11.7	10.6	39.46	1.67	-0.01	23.4	44.2	38.0	3.229	165.4	-9999.0	-9999.0
25.393	48.74	48.73	0.83	1.71	-0.79	5.0E-04	120.0	1.524	0.262	1.262	11.2	10.2	37.42	1.76	-0.01	24.6	42.7	38.0	3.312	161.4	-9999.0	-9999.0
25.459	46.06	46.06	0.81	1.76	0.26	5.0E-04	120.0	1.528	0.264	1.263	10.8	9.8	35.25	1.82	-0.01	25.7	41.1	38.0	3.405	156.8	-9999.0	-9999.0
25.525	44.85	44.85	0.79	1.77	0.26	5.0E-04	120.0	1.532	0.266	1.265	10.5	9.6	34.24	1.83	-0.01	26.1	40.3	36.0	3.450	154.7	-9999.0	-9999.0
25.590	43.57	43.57	0.77	1.77	0.65	5.0E-04	120.0	1.535	0.268	1.267	10.3	9.3	33.17	1.84	-0.01	26.6	39.4	36.0	3.499	152.5	-9999.0	-9999.0
25.656	43.89	43.89	0.76	1.74	0.53	5.0E-04	120.0	1.539	0.270	1.269	10.3	9.4	33.37	1.80	-0.01	26.3	39.6	36.0	3.489	153.1	-9999.0	-9999.0
25.721	45.93	45.95	0.74	1.61	1.50	5.0E-04	120.0	1.543	0.272	1.271	10.6	9.6	34.94	1.67	0.00	24.9	40.9	38.0	3.416	156.9	-9999.0	-9999.0
25.787	46.38	46.41	0.73	1.58	2.33	5.0E-04	120.0	1.547	0.274	1.273	10.7	9.7	35.24	1.63	0.00	24.5	41.2	38.0	3.401	157.8	-9999.0	-9999.0
25.853	46.38	46.41	0.70	1.51	2.35	5.0E-04	120.0	1.551	0.276	1.275	10.6	9.6	35.19	1.56	0.00	24.1	41.2	38.0	3.403	157.9	-9999.0	-9999.0
25.918	46.76	46.78	0.69	1.48	1.98	5.0E-04	120.0	1.555	0.278	1.277	10.7	9.7	35.43	1.53	0.00	23.7	41.4	38.0	3.391	158.7	-9999.0	-9999.0
25.984	48.04	48.03	0.70	1.46	-0.59	5.0E-04	120.0	1.559	0.281	1.279	10.9	9.9	36.35	1.51	-0.01	23.3	42.1	38.0	3.350	160.9	-9999.0	-9999.0
26.050	47.98	47.96	0.68	1.42	-1.08	5.0E-04	120.0	1.563	0.283	1.280	10.9	9.8	36.24	1.47	-0.01	23.0	42.1	38.0	3.354	160.9	-9999.0	-9999.0
26.115	47.85	47.84	0.66	1.38	-1.02	5.0E-04	120.0	1.567	0.285	1.282	10.8	9.8	36.08	1.43	-0.01	22.8	42.0	38.0	3.360	160.7	-9999.0	-9999.0
26.181	48.04	48.03	0.66	1.38	-1.00	5.0E-04	120.0	1.571	0.287	1.284	10.9	9.8	36.17	1.42	-0.01	22.7	42.0	38.0	3.355	161.1	-9999.0	-9999.0
26.246	48.17	48.16	0.67	1.39	-0.94	5.0E-04	120.0	1.575	0.289	1.286	10.9	9.8	36.22	1.44	-0.01	22.8	42.1	38.0	3.353	161.4	-9999.0	-9999.0
26.312	47.20	47.21	0.68	1.44	0.35	5.0E-04	120.0	1.579	0.291	1.288	10.8	9.7	35.43	1.49	-0.01	23.5	41.5	38.0	3.387	159.9	-9999.0	-9999.0
26.378	46.06	46.07	0.70	1.52	0.41	5.0E-04	120.0	1.583	0.293	1.290	10.6	9.5	34.49	1.58	-0.01	24.3	40.8	36.0	3.428	157.9	-9999.0	-9999.0
26.443	42.99	43.00	0.72	1.68	0.43	5.0E-04	120.0	1.587	0.295	1.292	10.1	9.1	32.06	1.74	-0.01	26.3	38.8	36.0	3.543	152.3	-9999.0	-9999.0
26.509	39.48	39.48	0.74	1.88	0.04	5.0E-05	120.0	1.591	0.297	1.294	9.6	8.6	29.29	1.96	-0.01	28.9	36.3	36.0	3.684	145.4	2.526	10.0
26.574	35.20	35.20	0.75	2.14	0.06	5.0E-05	120.0	1.595	0.299	1.296	8.8	7.9	25.94	2.24	-0.01	32.2	33.0	34.0	3.871	136.2	2.240	10.0
26.640	30.53	30.53	0.70	2.30	-0.02	5.0E-05	120.0	1.598	0.301	1.297	8.2	6.2	22.30	2.43	-0.01	38.4	30.0	34.0	-9999.0	-9999.0	1.929	8.4
26.706	26.90	26.89	0.68	2.53	-0.04	5.0E-05	120.0	1.602	0.303	1.299	7.5	5.6	19.47	2.70	-0.01	42.3	30.0	32.0	-9999.0	-9999.0	1.686	6.8
26.771	25.23	25.23	0.60	2.38	0.08	5.0E-05	120.0	1.606	0.305	1.301	7.0	5.3	18.16	2.55	-0.01	42.9	30.0	32.0	-9999.0	-9999.0	1.575	6.1

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
26.837	26.00	26.00	0.53	2.04	0.06	5.0E-05	120.0	1.610	0.307	1.303	7.1	5.3	18.72	2.18	-0.01	40.1	30.0	32.0	-9999.0	-9999.0	1.626	6.4
26.903	32.45	32.45	0.49	1.51	0.47	5.0E-05	120.0	1.614	0.309	1.305	7.9	7.1	23.63	1.59	-0.01	29.6	30.6	34.0	-9999.0	-9999.0	2.056	9.2
26.968	37.94	37.95	0.49	1.29	0.61	5.0E-04	120.0	1.618	0.311	1.307	8.9	7.9	27.80	1.35	-0.01	25.6	35.0	36.0	3.760	142.7	-9999.0	-9999.0
27.034	39.55	39.54	0.51	1.29	-0.81	5.0E-04	120.0	1.622	0.313	1.309	9.2	8.2	28.97	1.35	-0.01	25.0	36.2	36.0	3.695	146.1	-9999.0	-9999.0
27.099	40.63	40.62	0.49	1.21	-0.92	5.0E-04	120.0	1.626	0.315	1.311	9.3	8.3	29.75	1.26	-0.01	24.0	37.0	36.0	3.653	148.4	-9999.0	-9999.0
27.165	41.27	41.26	0.46	1.12	-1.06	5.0E-04	120.0	1.630	0.317	1.313	9.4	8.3	30.19	1.16	-0.01	23.0	37.4	36.0	3.629	149.7	-9999.0	-9999.0
27.231	41.01	41.00	0.43	1.05	-1.33	5.0E-04	120.0	1.634	0.319	1.314	9.2	8.2	29.95	1.10	-0.01	22.6	37.2	36.0	3.641	149.3	-9999.0	-9999.0
27.296	42.16	42.14	0.42	1.00	-1.66	5.0E-04	120.0	1.638	0.321	1.316	9.4	8.4	30.77	1.04	-0.01	21.8	37.9	36.0	3.597	151.6	-9999.0	-9999.0
27.362	40.57	40.53	0.43	1.06	-3.20	5.0E-04	120.0	1.642	0.324	1.318	9.2	8.2	29.50	1.11	-0.01	22.8	36.8	36.0	3.663	148.5	-9999.0	-9999.0
27.427	40.57	40.53	0.45	1.11	-3.29	5.0E-04	120.0	1.646	0.326	1.320	9.2	8.2	29.46	1.16	-0.01	23.3	36.8	36.0	3.664	148.5	-9999.0	-9999.0
27.493	40.31	40.27	0.46	1.15	-3.44	5.0E-04	120.0	1.650	0.328	1.322	9.2	8.2	29.21	1.19	-0.01	23.6	36.6	36.0	3.677	148.1	-9999.0	-9999.0
27.559	40.57	40.53	0.44	1.09	-3.38	5.0E-04	120.0	1.654	0.330	1.324	9.2	8.2	29.37	1.13	-0.01	23.1	36.7	36.0	3.668	148.7	-9999.0	-9999.0
27.624	39.87	39.83	0.40	1.01	-3.46	5.0E-04	120.0	1.657	0.332	1.326	9.0	8.0	28.79	1.05	-0.02	22.7	36.2	36.0	3.698	147.3	-9999.0	-9999.0
27.690	39.03	39.00	0.39	1.00	-3.31	5.0E-04	120.0	1.661	0.334	1.328	8.8	7.8	28.12	1.05	-0.02	22.9	35.6	36.0	3.734	145.6	-9999.0	-9999.0
27.756	39.09	39.06	0.42	1.08	-3.42	5.0E-04	120.0	1.665	0.336	1.330	8.9	7.9	28.12	1.13	-0.02	23.6	35.6	36.0	3.733	145.8	-9999.0	-9999.0
27.821	39.93	39.89	0.42	1.06	-3.33	5.0E-04	120.0	1.669	0.338	1.331	9.0	8.0	28.71	1.10	-0.02	23.1	36.2	36.0	3.700	147.6	-9999.0	-9999.0
27.887	40.12	40.08	0.42	1.05	-3.38	5.0E-04	120.0	1.673	0.340	1.333	9.1	8.0	28.81	1.10	-0.02	23.0	36.3	36.0	3.694	148.1	-9999.0	-9999.0
27.952	39.87	39.83	0.41	1.03	-3.04	5.0E-04	120.0	1.677	0.342	1.335	9.0	8.0	28.58	1.08	-0.01	22.9	36.1	36.0	3.706	147.6	-9999.0	-9999.0
28.018	38.84	38.81	0.39	1.01	-3.27	5.0E-04	120.0	1.681	0.344	1.337	8.8	7.8	27.77	1.05	-0.02	23.1	35.4	36.0	3.750	145.5	-9999.0	-9999.0
28.084	36.61	36.57	0.36	0.99	-3.22	5.0E-04	120.0	1.685	0.346	1.339	8.4	7.4	26.06	1.03	-0.02	23.8	33.6	34.0	3.848	140.7	-9999.0	-9999.0
28.149	33.73	33.70	0.35	1.04	-3.27	5.0E-04	120.0	1.689	0.348	1.341	7.9	6.9	23.87	1.10	-0.02	25.5	31.3	34.0	-9999.0	-9999.0	-9999.0	-9999.0
28.215	29.70	29.66	0.35	1.18	-3.50	5.0E-04	120.0	1.693	0.350	1.343	7.2	6.3	20.83	1.25	-0.02	28.7	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
28.280	26.19	26.16	0.40	1.53	-3.36	5.0E-05	120.0	1.697	0.352	1.345	6.9	5.0	18.19	1.64	-0.02	37.1	30.0	32.0	-9999.0	-9999.0	1.631	6.1
28.346	22.29	22.26	0.42	1.89	-3.27	5.0E-05	120.0	1.701	0.354	1.347	6.2	4.5	15.27	2.05	-0.03	43.3	30.0	32.0	-9999.0	-9999.0	1.371	4.7
28.412	18.33	18.30	0.42	2.30	-3.35	5.0E-06	120.0	1.705	0.356	1.348	5.5	3.9	12.31	2.54	-0.04	50.8	-9999.0	-9999.0	-9999.0	-9999.0	1.106	3.4
28.477	15.91	15.87	0.42	2.65	-3.16	5.0E-06	120.0	1.709	0.358	1.350	5.1	3.5	10.49	2.97	-0.04	57.0	-9999.0	-9999.0	-9999.0	-9999.0	0.944	2.7
28.543	15.72	15.74	0.40	2.55	2.47	5.0E-06	120.0	1.713	0.360	1.352	5.0	3.4	10.38	2.86	-0.01	56.6	-9999.0	-9999.0	-9999.0	-9999.0	0.935	2.7
28.609	14.51	14.53	0.36	2.48	2.25	5.0E-06	120.0	1.717	0.362	1.354	4.7	3.2	9.46	2.82	-0.02	58.6	-9999.0	-9999.0	-9999.0	-9999.0	0.854	2.4
28.674	13.09	13.12	0.35	2.67	2.47	5.0E-06	120.0	1.720	0.365	1.356	4.4	3.0	8.41	3.08	-0.02	63.0	-9999.0	-9999.0	-9999.0	-9999.0	0.760	2.0
28.740	15.53	15.55	0.34	2.19	2.53	5.0E-06	120.0	1.724	0.367	1.358	4.9	3.3	10.19	2.46	-0.01	54.7	-9999.0	-9999.0	-9999.0	-9999.0	0.922	2.6
28.805	19.30	19.33	0.33	1.71	2.66	5.0E-05	120.0	1.728	0.369	1.360	5.5	3.9	12.94	1.88	-0.01	45.5	30.0	30.0	-9999.0	-9999.0	1.173	3.7
28.871	23.32	23.34	0.33	1.42	2.25	5.0E-05	120.0	1.732	0.371	1.362	6.3	4.4	15.87	1.53	-0.01	38.8	30.0	32.0	-9999.0	-9999.0	1.441	5.0
28.937	26.06	26.08	0.34	1.31	1.37	5.0E-05	120.0	1.736	0.373	1.364	6.8	4.8	17.85	1.40	-0.01	35.6	30.0	32.0	-9999.0	-9999.0	1.623	5.9
29.002	28.62	28.63	0.36	1.26	0.55	5.0E-04	120.0	1.740	0.375	1.365	7.0	6.1	19.69	1.34	-0.01	30.1	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
29.068	32.77	32.77	0.36	1.10	-0.41	5.0E-04	120.0	1.744	0.377	1.367	7.7	6.8	22.69	1.16	-0.01	26.6	30.2	34.0	-9999.0	-9999.0	-9999.0	-9999.0
29.134	36.48	36.47	0.38	1.04	-0.69	5.0E-04	120.0	1.748	0.379	1.369	8.4	7.3	25.36	1.10	-0.01	24.5	33.2	34.0	3.878	141.4	-9999.0	-9999.0
29.199	40.50	40.49	0.39	0.97	-1.00	5.0E-04	120.0	1.752	0.381	1.371	9.1	7.9	28.25	1.01	-0.01	22.3	36.2	36.0	3.711	150.2	-9999.0	-9999.0
29.265	44.08	44.07	0.41	0.93	-0.98	5.0E-04	120.0	1.756	0.383	1.373	9.7	8.5	30.82	0.97	-0.01	20.9	38.6	36.0	3.573	157.5	-9999.0	-9999.0
29.330	47.01	47.00	0.41	0.87	-1.33	5.0E-04	120.0	1.760	0.385	1.375	10.2	8.9	32.90	0.91	-0.01	19.5	40.5	36.0	3.469	163.0	-9999.0	-9999.0
29.396	49.89	49.88	0.40	0.80	-1.37	5.0E-03	120.0	1.764	0.387	1.377	10.7	9.3	34.95	0.83	-0.01	18.1	42.1	38.0	3.373	168.2	-9999.0	-9999.0
29.462	50.72	50.71	0.40	0.79	-1.52	5.0E-03	120.0	1.768	0.389	1.379	10.8	9.4	35.50	0.82	-0.01	17.8	42.6	38.0	3.348	169.8	-9999.0	-9999.0
29.527	51.04	51.02	0.41	0.81	-1.76	5.0E-03	120.0	1.772	0.391	1.381	10.9	9.5	35.68	0.83	-0.01	17.9	42.7	38.0	3.339	170.4	-9999.0	-9999.0
29.593	50.66	50.64	0.44	0.87	-2.25	5.0E-04	120.0	1.776	0.393	1.382	10.9	9.5	35.35	0.90	-0.01	18.6	42.5	38.0	3.353	169.8	-9999.0	-9999.0
29.658	49.32	49.28	0.47	0.96	-3.38	5.0E-04	120.0	1.780	0.395	1.384	10.7	9.3	34.32	0.99	-0.01	19.7	41.7	36.0	3.399	167.5	-9999.0	-9999.0
29.724	47.41	47.36	0.48	1.02	-3.83	5.0E-04	120.0	1.783	0.397	1.386	10.4	9.1	32.88	1.06	-0.01	20.7	40.6	36.0	3.466	164.2	-9999.0	-9999.0
29.790	47.47	47.42	0.51	1.08	-3.87	5.0E-04	120.0	1.787	0.399	1.388	10.5	9.1	32.88	1.12	-0.01	21.2	40.6	36.0	3.465	164.3	-9999.0	-9999.0
29.855	47.91	47.86	0.52	1.09	-3.91	5.0E-04	120.0	1.791	0.401	1.390	10.6	9.2	33.15	1.13	-0.01	21.2	40.8	36.0	3.452	165.2	-9999.0	-9999.0
29.921	47.79	47.74	0.50	1.05	-3.87	5.0E-04	120.0	1.795	0.403	1.392	10.6	9.1	33.01	1.09	-0.01	20.9	40.7	36.0	3.457	165.1	-9999.0	-9999.0
29.987	47.98	47.93	0.46	0.96	-4.19	5.0E-04	120.0	1.799	0.405	1.394	10.5	9.1	33.10	1.00	-0.02	20.1	40.8	36.0	3.453	165.5	-9999.0	-9999.0
30.052	47.98	47.92	0.42	0.88	-5.19	5.0E-04	120.0	1.803	0.408	1.396	10.4	9.0	33.04	0.91	-0.02	19.4	40.8	36.0	3.455	165.5	-9999.0	-9999.0
30.118	48.04	47.98	0.45	0.94	-5.27	5.0E-04	120.0	1.807	0.410	1.398	10.5	9.1	33.04	0.98	-0.02	20.0	40.8	36.0	3.454	165.7	-9999.0	-9999.0
30.183	46.89	46.84	0.48	1.03	-5.07	5.0E-04	120.0	1.811	0.412	1.399	10.4	9.0	32.18	1.07	-0.02	21.0	40.1	36.0	3.495	163.7	-9999.0	-9999.0
30.249	45.99	45.94	0.51	1.11	-5.03	5.0E-04	120.0	1.815	0.414	1.401	10.3	8.9	31.49	1.16	-0.02	22.0	39.5	36.0	3.529	162.1	-9999.0	-9999.0
30.315	46.12	46.07	0.49	1.07	-5.09	5.0E-04	120.0	1.819	0.416	1.403	10.3	8.9	31.53	1.11	-0.02	21.6	39.6	36.0	3.526	162.4	-9999.0	-9999.0
30.380	45.16	45.11	0.50	1.11	-4.82	5.0E-04	120.0	1.823	0.418	1.405	10.1	8.7	30.81	1.16	-0.02	22.2	39.0	36.0	3.562	160.7	-9999.0	-9999.0
30.446	44.65	44.60	0.53	1.19	-4.72	5.0E-04	120.0	1.827	0.420	1.407	10.1	8.7	30.40	1.24	-0.02	23.0	38.6	36.0	3.582	159.8	-9999.0	-9999.0
30.511	44.21	44.16	0.51	1.16	-4.72	5.0E-04	120.0	1.831	0.422	1.409	10.0	8.6	30.04	1.21	-0.02	22.9	38.3	36.0	3.600	159.0	-9999.0	-9999.0
30.577	44.02	43.97	0.45	1.03	-4.27	5.0E-04	120.0	1.835	0.424	1.411	9.8	8.5	29.87	1.07	-0.02	21.9	38.2	36.0	3.609	158.7	-9999.0	-9999.0
30.643	42.16	42.12	0.43	1.02	-4.05	5.0E-04	120.0	1.839	0.426	1.413	9.5	8.2	28.51	1.07	-0.02	22.5	36.9	36.0	3.681	155.1	-9999.0	-9999.0
30.708	38.77	38.73	0.47	1.22	-4.05	5.0E-04	120.0	1.843	0.428	1.415	9.0	7.7	26.08	1.28	-0.02	25.3	34.5	34.0	3.820	147.9	-9999.0	-9999.0
30.774	35.65	35.60	0.51	1.44	-3.95	5.0E-04	120.0	1.846	0.430	1.416	8.6	7.3	23.83	1.51	-0.02	28.3	32.1	34.0	-9999.0	-9999.0	-9999.0	-9999.0
30.840	34.36	34.32	0.49	1.43	-3.80	5.0E-04	120.0	1.850	0.432	1.418	8.3	7.1	22.89	1.51	-0.02	28.8	31.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
30.905	34.56	34.52	0.45	1.31	-3.99	5.0E-04	120.0	1.854	0.434	1.420	8.3	7.1	23.00	1.38	-0.02	27.8	31.1	34.0	-9999.0	-9999.0	-9999.0	-9999.0
30.971	35.90	35.85	0.41	1.15	-3.91	5.0E-04	120.0	1.858	0.436	1.422	8.4	7.2	23.91	1.21	-0.02	25.9	32.2	34.0	-9999.0	-9999.0	-9999.0	-9999.0
31.036	36.92	36.88	0.38	1.03	-3.78	5.0E-04	120.0	1.862	0.438	1.424	8.5	7.3	24.59	1.09	-0.02	24.5	33.0	34.0	3.907	144.1	-9999.0	-9999.0
31.102	38.39	38.35	0.35	0.91	-3.70	5.0E-04	120.0	1.866	0.440	1.426	8.7	7.4	25.59	0.96	-0.02	22.9	34.1	34.0	3.845	147.5	-9999.0	-9999.0
31.168	39.61	39.57	0.36	0.91	-3.76	5.0E-04	120.0	1.870	0.442	1.428	8.9	7.6	26.40	0.96	-0.02	22.5	35.0	36.0	3.796	150.2	-9999.0	-9999.0
31.233	41.97	41.93	0.35	0.84	-3.74	5.0E-04	120.0	1.874	0.444	1.430	9.3	7.9	28.02	0.88	-0.02	21.0	36.6	36.0	3.703	155.3	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
31.299	43.38	43.33	0.35	0.81	-4.03	5.0E-04	120.0	1.878	0.446	1.432	9.5	8.1	28.96	0.85	-0.02	20.3	37.5	36.0	3.650	158.2	-9999.0	-9999.0
31.364	46.44	46.40	0.35	0.76	-3.89	5.0E-04	120.0	1.882	0.448	1.433	10.0	8.5	31.06	0.79	-0.02	18.9	39.5	36.0	3.539	164.2	-9999.0	-9999.0
31.430	50.21	50.17	0.36	0.72	-3.85	5.0E-03	120.0	1.886	0.451	1.435	10.6	9.1	33.64	0.75	-0.02	17.5	41.7	36.0	3.412	171.2	-9999.0	-9999.0
31.496	53.92	53.88	0.30	0.56	-3.78	5.0E-03	120.0	1.890	0.453	1.437	11.1	9.4	36.17	0.58	-0.01	15.0	43.7	38.0	3.297	177.6	-9999.0	-9999.0
31.561	56.60	56.56	0.36	0.64	-3.80	5.0E-03	120.0	1.894	0.455	1.439	11.6	9.9	37.98	0.66	-0.01	15.3	45.1	38.0	3.220	182.1	-9999.0	-9999.0
31.627	58.58	58.54	0.47	0.80	-3.68	5.0E-03	120.0	1.898	0.457	1.441	12.3	10.4	39.31	0.83	-0.01	16.5	46.1	38.0	3.167	185.4	-9999.0	-9999.0
31.693	56.41	56.36	0.56	1.00	-3.91	5.0E-04	120.0	1.902	0.459	1.443	12.1	10.3	37.75	1.03	-0.01	18.6	45.0	38.0	3.229	182.0	-9999.0	-9999.0
31.758	53.53	53.49	0.63	1.18	-3.95	5.0E-04	120.0	1.906	0.461	1.445	11.8	10.0	35.70	1.22	-0.01	20.7	43.4	38.0	3.315	177.3	-9999.0	-9999.0
31.824	47.79	47.78	0.72	1.51	-0.77	5.0E-04	120.0	1.909	0.463	1.447	11.0	9.4	31.71	1.57	-0.01	24.6	40.2	36.0	3.502	167.3	-9999.0	-9999.0
31.889	44.21	44.20	0.75	1.70	-0.75	5.0E-04	120.0	1.913	0.465	1.449	10.5	8.9	29.19	1.78	-0.01	27.0	37.9	36.0	3.632	160.5	-9999.0	-9999.0
31.955	38.52	38.51	0.72	1.87	-0.96	5.0E-05	120.0	1.917	0.467	1.450	9.5	8.0	25.23	1.97	-0.01	30.2	34.0	34.0	3.859	148.6	2.440	10.0
32.021	35.00	34.99	0.68	1.95	-1.54	5.0E-05	120.0	1.921	0.469	1.452	9.1	6.2	22.77	2.06	-0.02	35.9	31.2	34.0	-9999.0	-9999.0	2.204	8.7
32.086	34.11	34.09	0.65	1.91	-1.66	5.0E-05	120.0	1.925	0.471	1.454	8.9	6.0	22.12	2.03	-0.02	36.2	30.4	34.0	-9999.0	-9999.0	2.145	8.3
32.152	31.11	31.09	0.53	1.71	-1.72	5.0E-05	120.0	1.929	0.473	1.456	8.2	5.5	20.02	1.82	-0.02	36.6	30.0	34.0	-9999.0	-9999.0	1.944	7.1
32.217	29.83	29.81	0.53	1.78	-1.94	5.0E-05	120.0	1.933	0.475	1.458	7.9	5.3	19.12	1.91	-0.02	38.0	30.0	32.0	-9999.0	-9999.0	1.859	6.6
32.283	29.00	28.98	0.53	1.83	-2.15	5.0E-05	120.0	1.937	0.477	1.460	7.8	5.2	18.52	1.96	-0.02	39.0	30.0	32.0	-9999.0	-9999.0	1.803	6.3
32.349	26.44	26.42	0.58	2.20	-2.29	5.0E-05	120.0	1.941	0.479	1.462	7.4	4.9	16.75	2.38	-0.03	43.5	30.0	32.0	-9999.0	-9999.0	1.632	5.4
32.414	24.34	24.31	0.54	2.23	-2.41	5.0E-05	120.0	1.945	0.481	1.464	7.0	4.6	15.28	2.42	-0.03	45.6	30.0	32.0	-9999.0	-9999.0	1.491	4.7
32.480	21.33	21.31	0.51	2.40	-2.37	5.0E-06	120.0	1.949	0.483	1.466	6.4	4.1	13.21	2.64	-0.03	49.9	-9999.0	-9999.0	-9999.0	-9999.0	1.290	3.8
32.546	19.10	19.07	0.49	2.58	-2.39	5.0E-06	120.0	1.953	0.485	1.467	5.9	3.8	11.67	2.87	-0.04	53.9	-9999.0	-9999.0	-9999.0	-9999.0	1.141	3.1
32.611	19.36	19.33	0.43	2.23	-2.59	5.0E-06	120.0	1.957	0.487	1.469	5.9	3.7	11.82	2.48	-0.04	51.4	-9999.0	-9999.0	-9999.0	-9999.0	1.158	3.2
32.677	21.72	21.70	0.40	1.85	-2.55	5.0E-05	120.0	1.961	0.489	1.471	6.2	4.0	13.41	2.03	-0.03	45.8	30.0	32.0	-9999.0	-9999.0	1.316	3.9
32.742	25.61	25.59	0.34	1.33	-2.43	5.0E-05	120.0	1.965	0.492	1.473	6.8	4.5	16.04	1.44	-0.03	37.9	30.0	32.0	-9999.0	-9999.0	1.575	5.0
32.808	27.85	27.82	0.28	1.01	-2.31	5.0E-04	120.0	1.969	0.494	1.475	6.7	5.7	17.53	1.09	-0.03	29.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
32.874	28.68	28.65	0.21	0.73	-2.45	5.0E-04	120.0	1.972	0.496	1.477	6.7	5.6	18.07	0.79	-0.03	25.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
32.939	28.17	28.14	0.20	0.71	-2.37	5.0E-04	120.0	1.976	0.498	1.479	6.6	5.5	17.70	0.77	-0.03	25.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.005	26.06	26.03	0.20	0.77	-2.74	5.0E-04	120.0	1.980	0.500	1.481	6.2	5.2	16.25	0.83	-0.03	27.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.070	23.58	23.55	0.24	1.02	-2.86	5.0E-05	120.0	1.984	0.502	1.483	6.2	4.0	14.54	1.12	-0.03	37.0	30.0	32.0	-9999.0	-9999.0	1.437	4.3
33.136	20.19	20.16	0.28	1.39	-2.59	5.0E-05	120.0	1.988	0.504	1.484	5.7	3.6	12.24	1.54	-0.04	44.1	30.0	30.0	-9999.0	-9999.0	1.212	3.4
33.202	17.88	17.85	0.18	1.01	-2.63	5.0E-05	120.0	1.992	0.506	1.486	5.0	3.1	10.67	1.14	-0.04	43.4	30.0	30.0	-9999.0	-9999.0	1.058	2.8
33.267	13.92	13.90	0.22	1.59	-2.53	5.0E-05	120.0	1.996	0.508	1.488	4.4	2.7	8.00	1.85	-0.06	56.3	30.0	30.0	-9999.0	-9999.0	0.793	1.9
33.333	12.14	12.11	0.27	2.23	-2.49	5.0E-06	120.0	2.000	0.510	1.490	4.2	2.5	6.79	2.68	-0.07	66.2	-9999.0	-9999.0	-9999.0	-9999.0	0.674	1.5
33.399	11.18	11.15	0.25	2.25	-2.43	5.0E-06	120.0	2.004	0.512	1.492	4.0	2.3	6.13	2.74	-0.08	69.4	-9999.0	-9999.0	-9999.0	-9999.0	0.610	1.4
33.464	11.05	11.02	0.20	1.82	-2.17	5.0E-06	120.0	2.008	0.514	1.494	3.8	2.2	6.04	2.22	-0.07	66.4	-9999.0	-9999.0	-9999.0	-9999.0	0.601	1.3
33.530	12.33	12.31	0.15	1.22	-2.00	5.0E-05	120.0	2.012	0.516	1.496	3.9	2.3	6.88	1.46	-0.06	56.8	30.0	30.0	-9999.0	-9999.0	0.686	1.6
33.595	15.84	15.82	0.12	0.76	-2.02	5.0E-05	120.0	2.016	0.518	1.498	4.5	2.7	9.22	0.87	-0.05	43.8	30.0	30.0	-9999.0	-9999.0	0.920	2.3
33.661	19.49	19.47	0.16	0.82	-1.70	5.0E-05	120.0	2.020	0.520	1.500	5.3	3.3	11.64	0.92	-0.04	39.4	30.0	30.0	-9999.0	-9999.0	1.163	3.1
33.727	19.81	19.79	0.23	1.17	-1.78	5.0E-05	120.0	2.024	0.522	1.501	5.5	3.4	11.83	1.30	-0.04	42.8	30.0	30.0	-9999.0	-9999.0	1.184	3.2
33.792	18.85	18.83	0.28	1.49	-1.68	5.0E-05	120.0	2.028	0.524	1.503	5.5	3.4	11.18	1.67	-0.04	47.1	30.0	30.0	-9999.0	-9999.0	1.120	3.0
33.858	18.52	18.51	0.31	1.68	-1.56	5.0E-05	120.0	2.032	0.526	1.505	5.5	3.4	10.95	1.89	-0.04	49.2	30.0	30.0	-9999.0	-9999.0	1.098	2.9
33.923	19.55	19.53	0.31	1.59	-1.72	5.0E-05	120.0	2.035	0.528	1.507	5.7	3.5	11.61	1.78	-0.04	47.1	30.0	30.0	-9999.0	-9999.0	1.166	3.1
33.989	24.15	24.13	0.33	1.37	-1.54	5.0E-05	120.0	2.039	0.530	1.509	6.6	4.2	14.64	1.50	-0.03	40.1	30.0	32.0	-9999.0	-9999.0	1.473	4.4
34.055	27.66	27.64	0.30	1.09	-1.39	5.0E-04	120.0	2.043	0.532	1.511	6.8	5.6	16.94	1.17	-0.02	30.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.120	28.81	28.79	0.29	1.01	-1.48	5.0E-04	120.0	2.047	0.535	1.513	7.0	5.8	17.68	1.09	-0.02	28.7	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.186	30.66	30.65	0.29	0.95	-1.58	5.0E-04	120.0	2.051	0.537	1.515	7.3	6.0	18.88	1.02	-0.02	27.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.252	36.03	36.01	0.27	0.75	-1.31	5.0E-04	120.0	2.055	0.539	1.516	8.1	6.7	22.39	0.80	-0.02	22.7	31.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
34.317	39.23	39.21	0.29	0.74	-1.52	5.0E-04	120.0	2.059	0.541	1.518	8.7	7.2	24.47	0.78	-0.02	21.4	33.8	34.0	3.886	152.4	-9999.0	-9999.0
34.383	39.67	39.65	0.30	0.76	-1.82	5.0E-04	120.0	2.063	0.543	1.520	8.8	7.3	24.72	0.80	-0.02	21.4	34.1	34.0	3.869	153.4	-9999.0	-9999.0
34.448	40.12	40.10	0.34	0.85	-2.00	5.0E-04	120.0	2.067	0.545	1.522	9.0	7.5	24.98	0.90	-0.02	22.2	34.4	34.0	3.852	154.5	-9999.0	-9999.0
34.514	41.39	41.37	0.41	0.99	-2.13	5.0E-04	120.0	2.071	0.547	1.524	9.4	7.8	25.78	1.05	-0.02	23.0	35.3	34.0	3.803	157.3	-9999.0	-9999.0
34.580	43.05	43.03	0.49	1.14	-2.17	5.0E-04	120.0	2.075	0.549	1.526	9.8	8.1	26.84	1.20	-0.02	23.7	36.4	36.0	3.739	160.9	-9999.0	-9999.0
34.645	45.23	45.21	0.53	1.18	-2.21	5.0E-04	120.0	2.079	0.551	1.528	10.3	8.5	28.23	1.23	-0.02	23.3	37.8	36.0	3.659	165.4	-9999.0	-9999.0
34.711	44.72	44.69	0.52	1.17	-2.45	5.0E-04	120.0	2.083	0.553	1.530	10.2	8.4	27.85	1.22	-0.02	23.4	37.5	36.0	3.680	164.5	-9999.0	-9999.0
34.776	41.65	41.62	0.36	0.87	-2.45	5.0E-04	120.0	2.087	0.555	1.532	9.3	7.7	25.81	0.91	-0.02	21.8	35.4	34.0	3.799	158.1	-9999.0	-9999.0
34.842	34.87	34.85	0.43	1.24	-2.35	5.0E-04	120.0	2.091	0.557	1.533	8.3	6.9	21.36	1.32	-0.02	27.7	30.3	34.0	-9999.0	-9999.0	-9999.0	-9999.0
34.908	29.96	29.94	0.46	1.54	-2.43	5.0E-05	120.0	2.095	0.559	1.535	7.9	5.0	18.13	1.66	-0.03	37.3	30.0	32.0	-9999.0	-9999.0	1.856	6.1
34.973	26.84	26.81	0.58	2.17	-2.37	5.0E-05	120.0	2.098	0.561	1.537	7.6	4.7	16.07	2.35	-0.03	44.1	30.0	32.0	-9999.0	-9999.0	1.647	5.1
35.039	22.61	22.59	0.66	2.93	-2.49	5.0E-06	120.0	2.102	0.563	1.539	6.9	4.3	13.31	3.23	-0.04	52.9	-9999.0	-9999.0	-9999.0	-9999.0	1.366	3.8
35.105	24.66	24.67	0.70	2.84	0.96	5.0E-06	120.0	2.106	0.565	1.541	7.4	4.6	14.64	3.11	-0.02	50.2	-9999.0	-9999.0	-9999.0	-9999.0	1.504	4.4
35.170	22.94	22.94	0.73	3.19	0.18	5.0E-06	120.0	2.110	0.567	1.543	7.1	4.4	13.50	3.51	-0.03	54.0	-9999.0	-9999.0	-9999.0	-9999.0	1.388	3.9
35.236	20.32	20.32	0.74	3.65	0.04	5.0E-07	120.0	2.114	0.569	1.545	6.7	4.0	11.78	4.07	-0.03	59.6	-9999.0	-9999.0	-9999.0	-9999.0	1.214	3.2
35.301	18.33	18.33	0.64	3.50	-0.02	5.0E-07	120.0	2.118	0.571	1.547	6.1	3.7	10.48	3.96	-0.04	61.9	-9999.0	-9999.0	-9999.0	-9999.0	1.081	2.7
35.367	18.91	18.91	0.50	2.65	0.00	5.0E-06	120.0	2.122	0.573	1.549	6.0	3.6	10.84	2.99	-0.03	56.3	-9999.0	-9999.0	-9999.0	-9999.0	1.119	2.8
35.433	20.25	20.25	0.40	1.98	-0.10	5.0E-05	120.0	2.126	0.576	1.550	6.1	3.6	11.69	2.21	-0.03	50.0	30.0	30.0	-9999.0	-9999.0	1.208	3.2
35.498	21.40	21.40	0.36	1.69	0.26	5.0E-05	120.0	2.130	0.578	1.552	6.2	3.7	12.42	1.87	-0.03	46.3	30.0	30.0	-9999.0	-9999.0	1.285	3.4
35.564	21.84	21.84	0.32	1.47	-0.08	5.0E-05	120.0	2.134	0.580	1.554	6.2	3.7	12.68	1.63	-0.03	44.1	30.0	30.0	-9999.0	-9999.0	1.314	3.5
35.629	21.97	21.97	0.31	1.41	0.04	5.0E-05	120.0	2.138	0.582	1.556	6.2	3.7	12.75	1.57	-0.03	43.5	30.0	30.0	-9999.0	-9999.0	1.322	3.6
35.695	21.14	21.14	0.24	1.14	0.14	5.0E-05	120.0	2.142	0.584	1.558	5.8	3.5	12.20	1.27	-0.03	41.9	30.0	30.0	-9999.0	-9999.0	1.267	3.4

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
35.761	23.13	23.13	0.18	0.78	0.20	5.0E-04	120.0	2.146	0.586	1.560	6.0	3.7	13.45	0.86	-0.03	35.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
35.826	26.96	26.96	0.13	0.48	0.26	5.0E-04	120.0	2.150	0.588	1.562	6.2	5.1	15.88	0.53	-0.02	24.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
35.892	26.51	26.52	0.16	0.60	0.12	5.0E-04	120.0	2.154	0.590	1.564	6.2	5.1	15.58	0.66	-0.02	26.0	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
35.958	23.38	23.38	0.19	0.81	-0.04	5.0E-04	120.0	2.158	0.592	1.566	6.1	3.7	13.55	0.90	-0.03	36.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.023	20.76	20.76	0.17	0.82	0.02	5.0E-05	120.0	2.161	0.594	1.567	5.6	3.3	11.87	0.92	-0.03	39.0	30.0	30.0	-9999.0	-9999.0	1.240	3.2
36.089	18.01	18.01	0.18	1.00	-0.24	5.0E-05	120.0	2.165	0.596	1.569	5.1	3.0	10.10	1.14	-0.04	44.7	30.0	30.0	-9999.0	-9999.0	1.056	2.6
36.154	17.82	17.82	0.18	1.01	-0.18	5.0E-05	120.0	2.169	0.598	1.571	5.1	3.0	9.96	1.15	-0.04	45.1	30.0	30.0	-9999.0	-9999.0	1.043	2.5
36.220	18.27	18.27	0.12	0.66	0.00	5.0E-05	120.0	2.173	0.600	1.573	5.0	2.9	10.23	0.75	-0.04	40.0	30.0	30.0	-9999.0	-9999.0	1.073	2.6
36.286	19.81	19.81	0.09	0.46	0.06	5.0E-04	120.0	2.177	0.602	1.575	4.8	3.9	11.19	0.51	-0.03	29.1	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
36.351	21.33	21.33	0.11	0.52	0.16	5.0E-04	120.0	2.181	0.604	1.577	5.2	4.2	12.15	0.58	-0.03	28.6	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
36.417	22.23	22.24	0.24	1.08	0.14	5.0E-05	120.0	2.185	0.606	1.579	6.1	3.6	12.70	1.20	-0.03	40.4	30.0	30.0	-9999.0	-9999.0	1.337	3.6
36.482	21.53	21.53	0.31	1.44	0.14	5.0E-05	120.0	2.189	0.608	1.581	6.1	3.6	12.24	1.61	-0.03	44.6	30.0	30.0	-9999.0	-9999.0	1.290	3.4
36.548	18.66	18.66	0.27	1.45	0.22	5.0E-05	120.0	2.193	0.610	1.583	5.5	3.2	10.40	1.64	-0.04	48.5	30.0	30.0	-9999.0	-9999.0	1.098	2.7
36.614	16.04	16.04	0.28	1.75	0.33	5.0E-05	120.0	2.197	0.612	1.584	5.1	2.9	8.74	2.03	-0.04	55.4	30.0	30.0	-9999.0	-9999.0	0.923	2.1
36.679	18.20	18.21	0.30	1.65	0.39	5.0E-05	120.0	2.201	0.614	1.586	5.5	3.2	10.09	1.88	-0.04	51.0	30.0	30.0	-9999.0	-9999.0	1.067	2.6
36.745	26.38	26.39	0.29	1.10	0.98	5.0E-04	120.0	2.205	0.616	1.588	6.9	4.2	15.23	1.20	-0.02	36.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.811	36.80	36.81	0.29	0.79	1.29	5.0E-04	120.0	2.209	0.619	1.590	8.4	6.8	21.76	0.84	-0.02	23.1	31.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
36.876	49.19	49.21	0.30	0.61	1.50	5.0E-03	120.0	2.213	0.621	1.592	10.4	8.4	29.52	0.64	-0.01	17.3	39.7	36.0	3.569	175.6	-9999.0	-9999.0
36.942	49.13	49.14	0.30	0.61	1.19	5.0E-03	120.0	2.217	0.623	1.594	10.4	8.4	29.44	0.64	-0.01	17.4	39.6	36.0	3.573	175.6	-9999.0	-9999.0
37.007	47.41	47.41	0.31	0.66	0.90	5.0E-03	120.0	2.220	0.625	1.596	10.1	8.2	28.32	0.69	-0.01	18.3	38.6	36.0	3.634	172.3	-9999.0	-9999.0
37.073	44.08	44.08	0.30	0.68	0.61	5.0E-04	120.0	2.224	0.627	1.598	9.6	7.7	26.20	0.72	-0.01	19.5	36.5	36.0	3.756	165.6	-9999.0	-9999.0
37.139	41.90	41.90	0.30	0.72	0.02	5.0E-04	120.0	2.228	0.629	1.600	9.2	7.5	24.80	0.76	-0.02	20.6	35.0	34.0	3.842	161.0	-9999.0	-9999.0
37.204	40.18	40.17	0.32	0.80	-0.51	5.0E-04	120.0	2.232	0.631	1.601	9.0	7.3	23.69	0.85	-0.02	22.0	33.8	34.0	3.912	157.2	-9999.0	-9999.0
37.270	38.52	38.52	0.35	0.91	-0.53	5.0E-04	120.0	2.236	0.633	1.603	8.8	7.1	22.63	0.97	-0.02	23.7	32.5	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.336	38.07	38.07	0.37	0.97	-0.51	5.0E-04	120.0	2.240	0.635	1.605	8.8	7.1	22.32	1.04	-0.02	24.5	32.2	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.401	36.22	36.21	0.38	1.05	-0.83	5.0E-04	120.0	2.244	0.637	1.607	8.5	6.8	21.13	1.12	-0.02	26.0	30.7	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.467	35.08	35.07	0.43	1.23	-0.63	5.0E-04	120.0	2.248	0.639	1.609	8.4	6.8	20.40	1.31	-0.02	28.0	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.532	34.05	34.05	0.50	1.47	-0.69	5.0E-04	120.0	2.252	0.641	1.611	8.4	6.7	19.74	1.58	-0.02	30.4	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.598	32.39	32.38	0.61	1.89	-0.81	5.0E-05	120.0	2.256	0.643	1.613	8.7	5.3	18.68	2.03	-0.02	39.3	30.0	32.0	-9999.0	-9999.0	2.008	6.4
37.664	29.58	29.57	0.71	2.41	-0.75	5.0E-05	120.0	2.260	0.645	1.615	8.4	5.0	16.92	2.61	-0.03	44.6	30.0	32.0	-9999.0	-9999.0	1.821	5.5
37.729	25.61	25.60	0.67	2.62	-0.67	5.0E-06	120.0	2.264	0.647	1.617	7.6	4.5	14.44	2.88	-0.03	49.3	-9999.0	-9999.0	-9999.0	-9999.0	1.556	4.3
37.795	22.68	22.67	0.64	2.83	-0.53	5.0E-06	120.0	2.268	0.649	1.618	7.0	4.1	12.61	3.14	-0.03	53.7	-9999.0	-9999.0	-9999.0	-9999.0	1.360	3.5
37.860	18.91	18.90	0.53	2.81	-0.61	5.0E-06	120.0	2.272	0.651	1.620	6.1	3.5	10.26	3.20	-0.04	58.7	-9999.0	-9999.0	-9999.0	-9999.0	1.109	2.6
37.926	17.05	17.05	0.53	3.12	-0.28	5.0E-06	120.0	2.276	0.653	1.622	5.8	3.2	9.11	3.60	-0.05	63.7	-9999.0	-9999.0	-9999.0	-9999.0	0.985	2.2
37.992	16.74	16.74	0.51	3.05	0.08	5.0E-06	120.0	2.280	0.655	1.624	5.7	3.2	8.90	3.54	-0.04	64.0	-9999.0	-9999.0	-9999.0	-9999.0	0.964	2.2
38.057	18.39	18.40	0.46	2.51	0.41	5.0E-06	120.0	2.283	0.657	1.626	5.9	3.3	9.91	2.86	-0.04	57.7	-9999.0	-9999.0	-9999.0	-9999.0	1.074	2.5
38.123	21.46	21.47	0.35	1.63	1.12	5.0E-05	120.0	2.287	0.660	1.628	6.3	3.6	11.79	1.83	-0.03	47.1	30.0	30.0	-9999.0	-9999.0	1.279	3.2
38.189	21.27	21.28	0.38	1.79	1.00	5.0E-05	120.0	2.291	0.662	1.630	6.3	3.6	11.65	2.01	-0.03	48.6	30.0	30.0	-9999.0	-9999.0	1.266	3.1
38.254	23.00	23.01	0.36	1.57	1.35	5.0E-05	120.0	2.295	0.664	1.632	6.6	3.8	12.70	1.74	-0.03	44.9	30.0	30.0	-9999.0	-9999.0	1.381	3.6
38.320	22.75	22.76	0.30	1.32	1.45	5.0E-05	120.0	2.299	0.666	1.634	6.4	3.7	12.53	1.47	-0.03	43.1	30.0	30.0	-9999.0	-9999.0	1.364	3.5
38.385	21.53	21.55	0.24	1.12	1.76	5.0E-05	120.0	2.303	0.668	1.635	6.0	3.4	11.77	1.25	-0.03	42.4	30.0	30.0	-9999.0	-9999.0	1.283	3.2
38.451	28.05	28.08	0.25	0.89	3.31	5.0E-04	120.0	2.307	0.670	1.637	6.8	5.4	15.74	0.97	-0.02	28.7	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
38.517	29.58	29.62	0.41	1.39	3.12	5.0E-05	120.0	2.311	0.672	1.639	7.9	4.6	16.66	1.51	-0.02	37.7	30.0	32.0	-9999.0	-9999.0	1.820	5.3
38.582	27.22	27.25	0.45	1.66	3.04	5.0E-05	120.0	2.315	0.674	1.641	7.5	4.4	15.19	1.81	-0.02	41.7	30.0	32.0	-9999.0	-9999.0	1.662	4.6
38.648	22.48	22.52	0.48	2.14	2.96	5.0E-05	120.0	2.319	0.676	1.643	6.7	3.8	12.29	2.38	-0.02	49.9	30.0	30.0	-9999.0	-9999.0	1.347	3.4
38.713	18.52	18.56	0.50	2.70	3.18	5.0E-06	120.0	2.323	0.678	1.645	6.0	3.4	9.87	3.09	-0.03	59.1	-9999.0	-9999.0	-9999.0	-9999.0	1.082	2.5
38.779	20.82	20.86	0.53	2.55	3.48	5.0E-06	120.0	2.327	0.680	1.647	6.5	3.7	11.25	2.87	-0.02	54.8	-9999.0	-9999.0	-9999.0	-9999.0	1.235	3.0
38.845	35.20	35.25	0.57	1.62	5.13	5.0E-05	120.0	2.331	0.682	1.649	9.2	5.4	19.97	1.74	-0.01	36.1	30.0	34.0	-9999.0	-9999.0	2.195	7.1
38.910	56.09	56.14	0.58	1.04	4.86	5.0E-04	120.0	2.335	0.684	1.651	12.3	9.7	32.60	1.08	-0.01	19.9	42.9	36.0	3.395	190.6	-9999.0	-9999.0
38.976	72.19	72.22	0.61	0.85	3.40	5.0E-03	120.0	2.339	0.686	1.652	14.9	11.8	42.29	0.88	-0.01	15.3	50.1	38.0	2.996	216.4	-9999.0	-9999.0
39.042	78.26	78.27	0.63	0.81	1.19	5.0E-03	120.0	2.343	0.688	1.654	15.9	12.6	45.90	0.83	-0.01	14.1	52.4	38.0	2.880	225.4	-9999.0	-9999.0
39.107	78.96	78.96	0.68	0.86	-0.08	5.0E-03	120.0	2.346	0.690	1.656	16.1	12.8	46.26	0.89	-0.01	14.5	52.7	38.0	2.868	226.5	-9999.0	-9999.0
39.173	78.45	78.44	0.71	0.91	-1.00	5.0E-03	120.0	2.350	0.692	1.658	16.1	12.8	45.89	0.94	-0.01	15.0	52.4	38.0	2.879	225.8	-9999.0	-9999.0
39.238	76.98	76.96	0.74	0.96	-1.54	5.0E-03	120.0	2.354	0.694	1.660	15.9	12.6	44.94	0.99	-0.01	15.6	51.9	38.0	2.908	223.8	-9999.0	-9999.0
39.304	75.12	75.11	0.77	1.03	-1.45	5.0E-03	120.0	2.358	0.696	1.662	15.7	12.4	43.77	1.06	-0.01	16.4	51.2	38.0	2.944	221.1	-9999.0	-9999.0
39.370	72.83	72.81	0.81	1.12	-1.52	5.0E-03	120.0	2.362	0.698	1.664	15.4	12.2	42.34	1.15	-0.01	17.4	50.3	38.0	2.992	217.8	-9999.0	-9999.0
39.435	69.95	69.94	0.86	1.23	-1.29	5.0E-03	120.0	2.366	0.700	1.666	15.1	11.9	40.57	1.28	-0.01	18.7	49.1	38.0	3.054	213.6	-9999.0	-9999.0
39.501	67.39	67.38	0.89	1.32	-1.10	5.0E-04	120.0	2.370	0.703	1.668	14.7	11.6	38.99	1.37	-0.01	19.8	48.0	38.0	3.113	209.7	-9999.0	-9999.0
39.566	64.33	64.32	0.88	1.37	-0.73	5.0E-04	120.0	2.374	0.705	1.669	14.2	11.2	37.10	1.42	-0.01	20.7	46.7	38.0	3.188	205.0	-9999.0	-9999.0
39.632	60.88	60.87	0.89	1.47	-0.77	5.0E-04	120.0	2.378	0.707	1.671	13.6	10.8	35.00	1.53	-0.01	22.1	45.1	38.0	3.278	199.5	-9999.0	-9999.0
39.698	59.34	59.34	0.88	1.49	-0.28	5.0E-04	120.0	2.382	0.709	1.673	13.4	10.6	34.04	1.55	-0.01	22.5	44.3	36.0	3.320	197.0	-9999.0	-9999.0
39.763	56.86	56.86	0.87	1.53	-0.20	5.0E-04	120.0	2.386	0.711	1.675	12.9	10.2	32.52	1.60	-0.01	23.4	43.1	36.0	3.392	192.9	-9999.0	-9999.0
39.829	55.19	55.20	0.83	1.51	0.33	5.0E-04	120.0	2.390	0.713	1.677	12.6	9.9	31.49	1.58	-0.01	23.7	42.2	36.0	3.443	190.0	-9999.0	-9999.0
39.895	54.81	54.82	0.83	1.52	0.51	5.0E-04	120.0	2.394	0.715	1.679	12.5	9.9	31.23	1.59	-0.01	23.8	42.0	36.0	3.455	189.4	-9999.0	-9999.0
39.960	54.17	54.18	0.85	1.57	0.69	5.0E-04	120.0	2.398	0.717	1.681	12.5	9.8	30.81	1.65	-0.01	24.4	41.6	36.0	3.476	188.3	-9999.0	-9999.0
40.026	52.45	52.45	0.87	1.66	0.47	5.0E-04	120.0	2.402	0.719	1.683	12.2	9.6	29.74	1.74	-0.01	25.4	40.7	36.0	3.532	185.2	-9999.0	-9999.0
40.091	52.00	52.00	0.88	1.70	-0.02	5.0E-04	120.0	2.406	0.721	1.685	12.2	9.6	29.44	1.78	-0.01	25.8	40.4	36.0	3.548	184.5	-9999.0	-9999.0
40.157	53.53	53.53	0.84	1.57	-0.43	5.0E-04	120.0	2.409	0.723	1.686	12.3	9.7	30.31	1.65	-0.01	24.6	41.3	36.0	3.501	187.4	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
40.223	57.43	57.42	0.70	1.22	-0.73	5.0E-04	120.0	2.413	0.725	1.688	12.7	10.0	32.58	1.28	-0.01	21.2	43.2	36.0	3.386	194.4	-9999.0	-9999.0
40.288	58.07	58.05	0.55	0.95	-1.50	5.0E-03	120.0	2.417	0.727	1.690	12.5	9.8	32.92	0.99	-0.02	18.9	43.5	36.0	3.369	195.6	-9999.0	-9999.0
40.354	58.13	58.11	0.49	0.85	-2.33	5.0E-03	120.0	2.421	0.729	1.692	12.4	9.7	32.91	0.88	-0.02	18.0	43.6	36.0	3.369	195.7	-9999.0	-9999.0
40.419	57.94	57.91	0.50	0.87	-3.22	5.0E-03	120.0	2.425	0.731	1.694	12.4	9.7	32.75	0.90	-0.02	18.2	43.4	36.0	3.376	195.5	-9999.0	-9999.0
40.485	56.54	56.50	0.50	0.89	-3.60	5.0E-03	120.0	2.429	0.733	1.696	12.2	9.5	31.88	0.93	-0.02	18.7	42.7	36.0	3.418	193.1	-9999.0	-9999.0
40.551	54.49	54.45	0.54	0.99	-3.95	5.0E-04	120.0	2.433	0.735	1.698	11.9	9.3	30.64	1.04	-0.02	20.1	41.6	36.0	3.481	189.5	-9999.0	-9999.0
40.616	51.42	51.38	0.58	1.13	-4.07	5.0E-04	120.0	2.437	0.737	1.700	11.5	9.0	28.80	1.19	-0.02	22.0	40.0	36.0	3.579	183.9	-9999.0	-9999.0
40.682	48.42	48.37	0.43	0.89	-4.17	5.0E-04	120.0	2.441	0.739	1.702	10.7	8.4	26.99	0.94	-0.02	20.8	38.2	36.0	3.681	178.1	-9999.0	-9999.0
40.748	45.10	45.06	0.54	1.20	-4.09	5.0E-04	120.0	2.445	0.741	1.703	10.4	8.1	25.01	1.27	-0.02	24.4	36.2	34.0	3.801	171.3	-9999.0	-9999.0
40.813	41.39	41.35	0.72	1.75	-3.89	5.0E-04	120.0	2.449	0.744	1.705	10.1	7.9	22.81	1.86	-0.03	29.6	33.7	34.0	3.945	163.1	-9999.0	-9999.0
40.879	39.29	39.24	0.77	1.97	-3.76	5.0E-05	120.0	2.453	0.746	1.707	10.3	5.9	21.55	2.10	-0.03	37.1	32.2	34.0	-9999.0	-9999.0	2.453	8.0
40.944	36.41	36.37	0.72	1.98	-3.74	5.0E-05	120.0	2.457	0.748	1.709	9.8	5.6	19.84	2.13	-0.03	38.8	30.0	34.0	-9999.0	-9999.0	2.261	7.0
41.010	42.67	42.66	0.69	1.62	-1.62	5.0E-04	120.0	2.461	0.750	1.711	10.3	8.0	23.49	1.72	-0.02	28.3	34.5	34.0	3.898	166.3	-9999.0	-9999.0
41.076	44.08	44.06	0.57	1.30	-1.98	5.0E-04	120.0	2.465	0.752	1.713	10.3	8.0	24.28	1.37	-0.02	25.5	35.4	34.0	3.846	169.4	-9999.0	-9999.0
41.141	51.56	51.53	0.50	0.97	-2.21	5.0E-04	120.0	2.469	0.754	1.715	11.4	8.9	28.61	1.02	-0.02	20.7	39.9	36.0	3.585	184.7	-9999.0	-9999.0
41.207	58.83	58.80	0.64	1.09	-2.86	5.0E-04	120.0	2.472	0.756	1.717	12.9	10.0	32.81	1.14	-0.02	20.0	43.7	36.0	3.367	198.0	-9999.0	-9999.0
41.272	60.18	60.14	0.93	1.55	-3.60	5.0E-04	120.0	2.476	0.758	1.719	13.6	10.6	33.55	1.62	-0.02	23.0	44.3	36.0	3.331	200.3	-9999.0	-9999.0
41.338	52.70	52.65	1.27	2.42	-4.52	5.0E-05	120.0	2.480	0.760	1.720	12.9	10.0	29.16	2.54	-0.02	29.9	40.5	36.0	3.553	187.1	3.345	10.0
41.404	42.10	42.04	1.47	3.51	-5.89	5.0E-06	120.0	2.484	0.762	1.722	11.9	6.8	22.97	3.73	-0.03	44.1	-9999.0	-9999.0	-9999.0	-9999.0	2.637	8.8
41.469	32.84	32.78	1.50	4.59	-5.75	5.0E-07	120.0	2.488	0.764	1.724	10.2	5.7	17.57	4.96	-0.04	54.3	-9999.0	-9999.0	-9999.0	-9999.0	2.019	5.8
41.535	26.70	26.64	1.53	5.76	-5.67	5.0E-08	120.0	2.492	0.766	1.726	9.1	5.0	13.99	6.35	-0.05	64.1	-9999.0	-9999.0	-9999.0	-9999.0	1.610	4.1
41.601	25.10	25.04	1.52	6.09	-5.73	5.0E-08	120.0	2.496	0.768	1.728	8.8	4.8	13.05	6.76	-0.05	67.1	-9999.0	-9999.0	-9999.0	-9999.0	1.503	3.7
41.666	32.64	32.58	1.60	4.92	-5.55	5.0E-08	120.0	2.500	0.770	1.730	10.3	5.7	17.39	5.33	-0.04	55.8	-9999.0	-9999.0	-9999.0	-9999.0	2.005	5.7
41.732	68.68	68.62	1.73	2.53	-5.05	5.0E-05	120.0	2.504	0.772	1.732	16.2	12.6	38.18	2.62	-0.02	26.7	48.0	38.0	3.129	214.7	4.408	10.0
41.797	109.82	109.77	1.87	1.71	-4.46	5.0E-04	120.0	2.508	0.774	1.734	23.1	17.9	61.87	1.75	-0.01	17.0	61.4	40.0	2.510	275.5	-9999.0	-9999.0
41.863	140.09	140.06	2.05	1.47	-2.70	5.0E-03	120.0	2.512	0.776	1.736	28.1	21.8	79.25	1.49	-0.01	13.3	68.4	42.0	2.298	321.9	-9999.0	-9999.0
41.929	154.14	154.11	2.17	1.40	-2.94	5.0E-03	120.0	2.516	0.778	1.737	30.4	23.5	87.25	1.43	-0.01	12.2	71.1	42.0	2.228	343.4	-9999.0	-9999.0
41.994	158.42	158.39	2.17	1.37	-2.96	5.0E-03	120.0	2.520	0.780	1.739	31.0	24.0	89.62	1.39	-0.01	11.7	71.9	42.0	2.210	350.0	-9999.0	-9999.0
42.060	158.55	158.53	2.12	1.33	-2.72	5.0E-03	120.0	2.524	0.782	1.741	31.0	24.0	89.59	1.36	-0.01	11.5	71.9	42.0	2.210	350.3	-9999.0	-9999.0
42.125	155.30	155.27	2.12	1.36	-2.07	5.0E-03	120.0	2.528	0.784	1.743	30.5	23.6	87.63	1.38	-0.01	11.9	71.3	42.0	2.225	345.5	-9999.0	-9999.0
42.191	149.61	149.60	2.14	1.43	-1.50	5.0E-03	120.0	2.532	0.787	1.745	29.7	22.9	84.28	1.45	-0.01	12.6	70.2	42.0	2.253	337.0	-9999.0	-9999.0
42.257	144.56	144.55	2.12	1.46	-0.75	5.0E-03	120.0	2.535	0.789	1.747	28.9	22.3	81.30	1.49	-0.01	13.1	69.2	42.0	2.279	329.4	-9999.0	-9999.0
42.322	137.98	137.99	2.09	1.51	0.04	5.0E-03	120.0	2.539	0.791	1.749	27.8	21.5	77.45	1.54	-0.01	13.7	67.9	40.0	2.315	319.4	-9999.0	-9999.0
42.388	131.85	131.86	2.02	1.54	0.92	5.0E-03	120.0	2.543	0.793	1.751	26.8	20.7	73.87	1.57	-0.01	14.3	66.6	40.0	2.351	310.0	-9999.0	-9999.0
42.454	125.14	125.16	1.96	1.57	1.88	5.0E-03	120.0	2.547	0.795	1.753	25.7	19.8	69.97	1.60	-0.01	15.0	65.0	40.0	2.396	299.9	-9999.0	-9999.0
42.519	119.46	119.49	1.90	1.59	3.20	5.0E-03	120.0	2.551	0.797	1.754	24.7	19.0	66.66	1.63	0.00	15.5	63.7	40.0	2.438	291.3	-9999.0	-9999.0
42.585	113.39	113.42	1.81	1.60	3.56	5.0E-03	120.0	2.555	0.799	1.756	23.6	18.2	63.13	1.64	0.00	16.1	62.2	40.0	2.488	282.2	-9999.0	-9999.0
42.650	108.98	109.02	1.72	1.58	3.54	5.0E-03	120.0	2.559	0.801	1.758	22.8	17.6	60.55	1.62	-0.01	16.4	61.0	40.0	2.529	275.7	-9999.0	-9999.0
42.716	105.28	105.32	1.65	1.57	3.70	5.0E-03	120.0	2.563	0.803	1.760	22.1	17.0	58.38	1.61	-0.01	16.7	60.0	40.0	2.567	270.3	-9999.0	-9999.0
42.782	103.55	103.59	1.56	1.51	3.66	5.0E-03	120.0	2.567	0.805	1.762	21.7	16.7	57.34	1.55	-0.01	16.5	59.5	40.0	2.586	267.9	-9999.0	-9999.0
42.847	102.98	103.02	1.48	1.44	3.35	5.0E-03	120.0	2.571	0.807	1.764	21.5	16.5	56.95	1.48	-0.01	16.2	59.4	40.0	2.593	267.1	-9999.0	-9999.0
42.913	102.21	102.24	1.43	1.40	2.78	5.0E-03	120.0	2.575	0.809	1.766	21.2	16.3	56.44	1.44	-0.01	16.0	59.1	40.0	2.603	266.1	-9999.0	-9999.0
42.978	103.04	103.05	1.38	1.34	1.08	5.0E-03	120.0	2.579	0.811	1.768	21.3	16.4	56.84	1.38	-0.01	15.6	59.4	40.0	2.595	267.4	-9999.0	-9999.0
43.044	103.68	103.68	1.37	1.32	0.28	5.0E-03	120.0	2.583	0.813	1.770	21.4	16.4	57.13	1.36	-0.01	15.4	59.5	40.0	2.589	268.4	-9999.0	-9999.0
43.110	105.08	105.09	1.36	1.30	0.22	5.0E-03	120.0	2.587	0.815	1.771	21.6	16.6	57.86	1.33	-0.01	15.1	59.9	40.0	2.575	270.6	-9999.0	-9999.0
43.175	106.62	106.62	1.39	1.31	0.26	5.0E-03	120.0	2.591	0.817	1.773	21.9	16.8	58.67	1.34	-0.01	15.0	60.3	40.0	2.560	273.0	-9999.0	-9999.0
43.241	109.10	109.11	1.43	1.31	0.20	5.0E-03	120.0	2.595	0.819	1.775	22.3	17.1	60.00	1.35	-0.01	14.8	60.9	40.0	2.537	276.8	-9999.0	-9999.0
43.307	111.98	111.98	1.46	1.31	0.22	5.0E-03	120.0	2.598	0.821	1.777	22.8	17.5	61.55	1.34	-0.01	14.5	61.7	40.0	2.511	281.2	-9999.0	-9999.0
43.372	114.80	114.80	1.48	1.29	0.28	5.0E-03	120.0	2.602	0.823	1.779	23.3	17.8	63.07	1.32	-0.01	14.2	62.4	40.0	2.487	285.5	-9999.0	-9999.0
43.438	118.76	118.76	1.49	1.26	0.28	5.0E-03	120.0	2.606	0.825	1.781	23.9	18.3	65.22	1.29	-0.01	13.7	63.3	40.0	2.456	291.6	-9999.0	-9999.0
43.503	120.73	120.74	1.48	1.23	0.37	5.0E-03	120.0	2.610	0.828	1.783	24.2	18.5	66.26	1.26	-0.01	13.4	63.8	40.0	2.441	294.7	-9999.0	-9999.0
43.569	123.48	123.49	1.48	1.20	0.55	5.0E-03	120.0	2.614	0.830	1.785	24.6	18.8	67.73	1.23	-0.01	13.0	64.4	40.0	2.422	299.0	-9999.0	-9999.0
43.635	124.18	124.19	1.51	1.22	0.59	5.0E-03	120.0	2.618	0.832	1.787	24.8	19.0	68.05	1.25	-0.01	13.0	64.5	40.0	2.417	300.2	-9999.0	-9999.0
43.700	123.36	123.36	1.56	1.27	0.39	5.0E-03	120.0	2.622	0.834	1.788	24.8	18.9	67.51	1.30	-0.01	13.4	64.3	40.0	2.424	299.1	-9999.0	-9999.0
43.766	120.22	120.23	1.58	1.32	0.53	5.0E-03	120.0	2.626	0.836	1.790	24.3	18.6	65.69	1.35	-0.01	14.0	63.6	40.0	2.448	294.4	-9999.0	-9999.0
43.831	115.24	115.25	1.62	1.41	0.55	5.0E-03	120.0	2.630	0.838	1.792	23.6	18.0	62.84	1.44	-0.01	14.9	62.4	40.0	2.490	286.9	-9999.0	-9999.0
43.897	108.09	108.10	1.69	1.57	0.67	5.0E-03	120.0	2.634	0.840	1.794	22.6	17.3	58.79	1.61	-0.01	16.5	60.5	40.0	2.556	276.3	-9999.0	-9999.0
43.963	101.83	101.85	1.71	1.68	1.90	5.0E-04	120.0	2.638	0.842	1.796	21.7	16.5	55.24	1.73	-0.01	17.8	58.8	40.0	2.623	267.1	-9999.0	-9999.0
44.028	99.78	99.82	1.71	1.72	3.95	5.0E-04	120.0	2.642	0.844	1.798	21.3	16.3	54.06	1.76	-0.01	18.2	58.2	40.0	2.647	264.2	-9999.0	-9999.0
44.094	103.10	103.15	1.69	1.64	4.21	5.0E-04	120.0	2.646	0.846	1.800	21.8	16.6	55.84	1.69	-0.01	17.4	59.1	40.0	2.610	269.2	-9999.0	-9999.0
44.160	111.22	111.27	1.62	1.46	4.66	5.0E-03	120.0	2.650	0.848	1.802	23.0	17.5	60.29	1.50	0.00	15.6	61.3	40.0	2.529	281.4	-9999.0	-9999.0
44.225	117.35	117.40	1.50	1.28	4.60	5.0E-03	120.0	2.654	0.850	1.804	23.7	18.1	63.63	1.31	0.00	14.0	62.8	40.0	2.477	290.8	-9999.0	-9999.0
44.291	120.48	120.48	1.40	1.16	0.08	5.0E-03	120.0	2.658	0.852	1.805	24.0	18.3	65.26	1.19	-0.01	13.0	63.5	40.0	2.453	295.6	-9999.0	-9999.0
44.356	121.70	121.69	1.39	1.15	-0.47	5.0E-03	120.0	2.661	0.854	1.807	24.2	18.4	65.86	1.17	-0.01	12.8	63.8	40.0	2.445	297.5	-9999.0	-9999.0
44.422	122.21	122.19	1.38	1.13	-1.66	5.0E-03	120.0	2.665	0.856	1.809	24.3	18.4	66.06	1.16	-0.01	12.7	63.9	40.0	2.442	298.4	-9999.0	-9999.0
44.488	121.83	121.80	1.38	1.14	-2.37	5.0E-03	120.0	2.669	0.858	1.811	24.2	18.4	65.78	1.16	-0.01	12.7	63.8	40.0	2.446	297.9	-9999.0	-9999.0
44.553	121.64	121.61	1.46	1.20	-2.43	5.0E-03	120.0	2.673	0.860	1.813	24.3	18.5	65.60	1.23	-0.01	13.2	63.7	40.0	2.448	297.7	-9999.0	-9999.0
44.619	119.27	119.24	1.33	1.12	-2.49	5.0E-03	120.0	2.677	0.862	1.815	23.7	18.0	64.23	1.14	-0.01	12.8	63.2	40.0	2.467	294.2	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
44.684	119.71	119.69	1.34	1.12	-2.15	5.0E-03	120.0	2.681	0.864	1.817	23.8	18.1	64.40	1.15	-0.01	12.8	63.3	40.0	2.465	295.0	-9999.0	-9999.0
44.750	119.33	119.31	1.43	1.20	-1.37	5.0E-03	120.0	2.685	0.866	1.819	23.9	18.1	64.13	1.23	-0.01	13.4	63.1	40.0	2.468	294.5	-9999.0	-9999.0
44.816	119.84	119.83	1.51	1.26	-0.55	5.0E-03	120.0	2.689	0.868	1.821	24.2	18.3	64.35	1.29	-0.01	13.7	63.3	40.0	2.465	295.4	-9999.0	-9999.0
44.881	119.46	119.46	1.55	1.30	-0.16	5.0E-03	120.0	2.693	0.871	1.822	24.2	18.3	64.07	1.33	-0.01	14.0	63.2	40.0	2.469	294.9	-9999.0	-9999.0
44.947	114.86	114.89	1.58	1.38	2.74	5.0E-03	120.0	2.697	0.873	1.824	23.5	17.8	61.50	1.41	-0.01	14.9	62.0	40.0	2.508	288.1	-9999.0	-9999.0
45.013	118.76	118.78	1.58	1.33	2.27	5.0E-03	120.0	2.701	0.875	1.826	24.1	18.2	63.57	1.36	-0.01	14.3	63.0	40.0	2.476	294.1	-9999.0	-9999.0
45.078	119.46	119.48	1.58	1.33	2.17	5.0E-03	120.0	2.705	0.877	1.828	24.2	18.3	63.88	1.36	-0.01	14.2	63.1	40.0	2.471	295.3	-9999.0	-9999.0
45.144	120.29	120.31	1.59	1.32	2.13	5.0E-03	120.0	2.709	0.879	1.830	24.4	18.4	64.27	1.36	-0.01	14.1	63.3	40.0	2.466	296.7	-9999.0	-9999.0
45.209	119.33	119.35	1.58	1.33	2.15	5.0E-03	120.0	2.713	0.881	1.832	24.2	18.3	63.67	1.36	-0.01	14.2	63.1	40.0	2.474	295.3	-9999.0	-9999.0
45.275	120.48	120.51	1.59	1.32	2.21	5.0E-03	120.0	2.717	0.883	1.834	24.4	18.4	64.23	1.35	-0.01	14.1	63.3	40.0	2.466	297.2	-9999.0	-9999.0
45.341	120.29	120.31	1.60	1.33	2.02	5.0E-03	120.0	2.720	0.885	1.836	24.4	18.4	64.06	1.36	-0.01	14.2	63.3	40.0	2.468	297.0	-9999.0	-9999.0
45.406	120.86	120.88	1.60	1.33	1.96	5.0E-03	120.0	2.724	0.887	1.838	24.5	18.5	64.30	1.36	-0.01	14.1	63.4	40.0	2.465	297.9	-9999.0	-9999.0
45.472	121.24	121.26	1.61	1.33	1.84	5.0E-03	120.0	2.728	0.889	1.839	24.6	18.5	64.44	1.36	-0.01	14.1	63.4	40.0	2.463	298.6	-9999.0	-9999.0
45.538	121.31	121.34	1.61	1.33	1.96	5.0E-03	120.0	2.732	0.891	1.841	24.6	18.5	64.41	1.36	-0.01	14.1	63.4	40.0	2.463	298.8	-9999.0	-9999.0
45.603	121.12	121.15	1.62	1.34	1.98	5.0E-03	120.0	2.736	0.893	1.843	24.6	18.5	64.24	1.37	-0.01	14.2	63.4	40.0	2.465	298.7	-9999.0	-9999.0
45.669	120.73	120.75	1.65	1.37	1.98	5.0E-03	120.0	2.740	0.895	1.845	24.6	18.5	63.96	1.40	-0.01	14.4	63.3	40.0	2.469	298.2	-9999.0	-9999.0
45.734	121.83	121.85	1.68	1.38	1.96	5.0E-03	120.0	2.744	0.897	1.847	24.8	18.6	64.49	1.41	-0.01	14.4	63.5	40.0	2.462	299.9	-9999.0	-9999.0
45.800	122.40	122.43	1.69	1.38	2.68	5.0E-03	120.0	2.748	0.899	1.849	24.9	18.7	64.73	1.42	-0.01	14.4	63.6	40.0	2.458	300.9	-9999.0	-9999.0
45.866	123.67	123.70	1.73	1.40	3.06	5.0E-03	120.0	2.752	0.901	1.851	25.2	18.9	65.35	1.43	-0.01	14.4	63.9	40.0	2.449	303.0	-9999.0	-9999.0
45.931	125.92	125.96	1.73	1.38	4.44	5.0E-03	120.0	2.756	0.903	1.853	25.5	19.1	66.50	1.41	0.00	14.1	64.4	40.0	2.434	306.6	-9999.0	-9999.0
45.997	128.91	128.96	1.73	1.34	4.60	5.0E-03	120.0	2.760	0.905	1.855	26.0	19.5	68.05	1.37	0.00	13.7	65.1	40.0	2.414	311.3	-9999.0	-9999.0
46.062	132.04	132.09	1.77	1.34	4.52	5.0E-03	120.0	2.764	0.907	1.856	26.5	19.9	69.66	1.37	0.00	13.4	65.8	40.0	2.394	316.2	-9999.0	-9999.0
46.128	134.35	134.40	1.81	1.35	4.58	5.0E-03	120.0	2.768	0.909	1.858	26.9	20.2	70.83	1.38	0.00	13.3	66.2	40.0	2.381	319.9	-9999.0	-9999.0
46.194	136.64	136.69	1.82	1.33	4.70	5.0E-03	120.0	2.772	0.912	1.860	27.3	20.5	71.99	1.36	0.00	13.1	66.7	40.0	2.367	323.6	-9999.0	-9999.0
46.259	137.02	137.07	1.82	1.33	4.64	5.0E-03	120.0	2.776	0.914	1.862	27.4	20.5	72.12	1.36	0.00	13.0	66.8	40.0	2.366	324.3	-9999.0	-9999.0
46.325	137.15	137.20	1.80	1.32	4.54	5.0E-03	120.0	2.780	0.916	1.864	27.3	20.5	72.12	1.34	0.00	12.9	66.8	40.0	2.366	324.6	-9999.0	-9999.0
46.391	135.81	135.85	1.73	1.28	4.15	5.0E-03	120.0	2.783	0.918	1.866	27.0	20.2	71.32	1.30	0.00	12.8	66.5	40.0	2.375	322.6	-9999.0	-9999.0
46.456	135.18	135.22	1.69	1.25	3.99	5.0E-03	120.0	2.787	0.920	1.868	26.9	20.1	70.91	1.28	0.00	12.7	66.4	40.0	2.379	321.7	-9999.0	-9999.0
46.522	133.44	133.48	1.65	1.24	3.36	5.0E-03	120.0	2.791	0.922	1.870	26.5	19.8	69.90	1.27	-0.01	12.7	66.0	40.0	2.391	319.1	-9999.0	-9999.0
46.587	128.72	128.73	1.63	1.27	0.87	5.0E-03	120.0	2.795	0.924	1.871	25.8	19.2	67.29	1.30	-0.01	13.3	64.9	40.0	2.423	311.9	-9999.0	-9999.0
46.653	123.74	123.75	1.63	1.32	0.45	5.0E-03	120.0	2.799	0.926	1.873	25.0	18.7	64.56	1.35	-0.01	13.9	63.8	40.0	2.459	304.3	-9999.0	-9999.0
46.719	117.41	117.41	1.64	1.40	-0.04	5.0E-03	120.0	2.803	0.928	1.875	24.1	17.9	61.12	1.43	-0.01	14.9	62.2	40.0	2.510	294.7	-9999.0	-9999.0
46.784	108.98	108.99	1.71	1.57	0.12	5.0E-03	120.0	2.807	0.930	1.877	22.9	17.0	56.56	1.61	-0.01	16.7	60.1	40.0	2.588	282.1	-9999.0	-9999.0
46.850	95.88	95.88	1.87	1.96	0.02	5.0E-04	120.0	2.811	0.932	1.879	21.0	15.7	49.53	2.01	-0.01	20.2	56.4	38.0	2.740	262.7	-9999.0	-9999.0
46.915	82.98	82.98	2.02	2.44	0.24	5.0E-04	120.0	2.815	0.934	1.881	19.1	14.2	42.62	2.53	-0.01	24.3	52.3	38.0	2.937	243.8	-9999.0	-9999.0
46.981	68.68	68.68	1.87	2.73	0.45	5.0E-05	120.0	2.819	0.936	1.883	16.5	12.3	34.98	2.85	-0.01	28.2	46.8	38.0	3.228	221.7	4.391	10.0
47.047	55.84	55.84	1.88	3.37	0.45	5.0E-05	120.0	2.823	0.938	1.885	15.1	8.0	28.13	3.55	-0.02	39.8	40.9	36.0	-9999.0	-9999.0	3.534	10.0
47.112	44.02	44.03	1.71	3.89	0.77	5.0E-06	120.0	2.827	0.940	1.887	12.8	6.6	21.84	4.16	-0.02	46.9	-9999.0	-9999.0	-9999.0	-9999.0	2.747	8.1
47.178	35.97	35.97	1.56	4.35	0.65	5.0E-07	120.0	2.831	0.942	1.888	11.1	5.7	17.55	4.72	-0.03	53.4	-9999.0	-9999.0	-9999.0	-9999.0	2.210	5.8
47.244	31.05	31.06	1.31	4.23	1.35	5.0E-07	120.0	2.835	0.944	1.890	9.9	5.0	14.93	4.65	-0.03	56.6	-9999.0	-9999.0	-9999.0	-9999.0	1.882	4.5
47.309	29.07	29.11	1.00	3.44	3.25	5.0E-06	120.0	2.839	0.946	1.892	9.1	4.5	13.88	3.82	-0.03	54.8	-9999.0	-9999.0	-9999.0	-9999.0	1.751	4.1
47.375	38.96	39.02	0.77	1.98	4.80	5.0E-05	120.0	2.843	0.948	1.894	10.5	5.4	19.10	2.13	-0.02	39.5	30.5	32.0	-9999.0	-9999.0	2.412	6.6
47.440	47.20	47.26	0.69	1.46	5.13	5.0E-04	120.0	2.846	0.950	1.896	11.1	8.3	23.42	1.56	-0.01	26.5	36.0	34.0	3.862	182.5	-9999.0	-9999.0
47.506	47.60	47.61	0.65	1.37	1.74	5.0E-04	120.0	2.850	0.952	1.898	11.1	8.3	23.59	1.46	-0.02	25.7	36.2	34.0	3.851	183.3	-9999.0	-9999.0
47.572	43.44	43.44	0.61	1.41	0.22	5.0E-04	120.0	2.854	0.955	1.900	10.3	7.7	21.36	1.51	-0.02	27.4	33.6	34.0	4.005	174.0	-9999.0	-9999.0
47.637	37.75	37.75	0.60	1.59	0.08	5.0E-04	120.0	2.858	0.957	1.902	10.0	5.1	18.35	1.72	-0.03	37.5	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
47.703	30.47	30.47	0.60	1.97	-0.06	5.0E-05	120.0	2.862	0.959	1.904	8.7	4.3	14.50	2.18	-0.03	45.1	30.0	32.0	-9999.0	-9999.0	1.841	4.3
47.768	24.66	24.66	0.66	2.68	-0.10	5.0E-06	120.0	2.866	0.961	1.905	7.8	3.8	11.44	3.04	-0.04	55.3	-9999.0	-9999.0	-9999.0	-9999.0	1.453	3.1
47.834	19.74	19.74	0.72	3.66	0.12	5.0E-07	120.0	2.870	0.963	1.907	7.0	3.3	8.84	4.28	-0.06	67.6	-9999.0	-9999.0	-9999.0	-9999.0	1.125	2.1
47.900	15.65	15.65	0.64	4.10	0.39	5.0E-07	120.0	2.874	0.965	1.909	6.1	2.7	6.69	5.02	-0.07	78.5	-9999.0	-9999.0	-9999.0	-9999.0	0.852	1.5
47.965	15.02	15.03	0.60	4.00	0.83	5.0E-07	120.0	2.878	0.967	1.911	5.9	2.6	6.36	4.95	-0.07	79.7	-9999.0	-9999.0	-9999.0	-9999.0	0.810	1.4
48.031	23.00	23.01	0.44	1.92	1.50	5.0E-05	120.0	2.882	0.969	1.913	7.0	3.4	10.52	2.19	-0.04	52.2	30.0	30.0	-9999.0	-9999.0	1.342	2.7
48.097	46.18	46.21	0.44	0.95	2.35	5.0E-04	120.0	2.886	0.971	1.915	10.5	7.7	22.62	1.02	-0.02	22.9	35.2	34.0	3.913	180.8	-9999.0	-9999.0
48.162	76.85	76.88	0.42	0.55	3.31	5.0E-03	120.0	2.890	0.973	1.917	15.3	11.3	38.60	0.57	-0.01	12.7	49.8	38.0	3.073	236.3	-9999.0	-9999.0
48.228	90.33	90.35	0.48	0.53	1.76	5.0E-03	120.0	2.894	0.975	1.919	17.5	12.9	45.58	0.55	-0.01	10.9	54.4	38.0	2.840	256.6	-9999.0	-9999.0
48.293	93.97	93.97	0.59	0.63	0.10	5.0E-03	120.0	2.898	0.977	1.921	18.3	13.5	47.42	0.65	-0.01	11.5	55.5	38.0	2.789	262.1	-9999.0	-9999.0
48.359	89.95	89.95	0.72	0.80	-0.16	5.0E-03	120.0	2.902	0.979	1.922	18.1	13.3	45.28	0.83	-0.01	13.5	54.3	38.0	2.849	256.2	-9999.0	-9999.0
48.425	92.89	92.88	0.85	0.92	-0.79	5.0E-03	120.0	2.906	0.981	1.924	18.8	13.9	46.75	0.95	-0.01	14.1	55.2	38.0	2.807	260.7	-9999.0	-9999.0
48.490	91.99	91.98	1.04	1.13	-1.12	5.0E-03	120.0	2.909	0.983	1.926	19.1	14.0	46.24	1.17	-0.01	15.8	54.9	38.0	2.821	259.4	-9999.0	-9999.0
48.556	91.22	91.20	1.45	1.59	-1.52	5.0E-04	120.0	2.913	0.985	1.928	19.7	14.5	45.79	1.65	-0.01	18.9	54.6	38.0	2.833	258.4	-9999.0	-9999.0
48.621	90.33	90.31	1.73	1.92	-1.70	5.0E-04	120.0	2.917	0.987	1.930	20.0	14.7	45.28	1.98	-0.01	20.9	54.3	38.0	2.847	257.2	-9999.0	-9999.0
48.687	90.84	90.82	1.79	1.98	-1.74	5.0E-04	120.0	2.921	0.989	1.932	20.1	14.8	45.50	2.04	-0.01	21.1	54.5	38.0	2.841	258.0	-9999.0	-9999.0
48.753	100.86	100.85	1.89	1.88	-1.62	5.0E-04	120.0	2.925	0.991	1.934	21.9	16.1	50.64	1.93	-0.01	19.4	57.4	38.0	2.707	273.0	-9999.0	-9999.0
48.818	122.27	122.25	1.95	1.60	-1.39	5.0E-03	120.0	2.929	0.993	1.936	25.4	18.6	61.64	1.64	-0.01	15.8	62.9	40.0	2.498	305.4	-9999.0	-9999.0
48.884	137.28	137.27	2.08	1.51	-1.12	5.0E-03	120.0	2.933	0.996	1.938	27.9	20.5	69.33	1.54	-0.01	14.3	66.3	40.0	2.395	328.8	-9999.0	-9999.0
48.950	165.39	165.38	2.21	1.33	-0.61	5.0E-03	120.0	2.937	0.998	1.939	32.3	23.7	83.76	1.36	-0.01	11.6	71.6	42.0	2.252	372.5	-9999.0	-9999.0
49.015	196.44	196.42	2.34	1.19	-1.50	5.0E-02	120.0	2.941	1.000	1.941	37.2	27.3	99.66	1.21	-0.01	9.5	76.5	42.0	2.125	417.4	-9999.0	-9999.0
49.081	221.35	221.33	2.50	1.13	-1.23	5.0E-02	120.0	2.945	1.002	1.943	41.1	30.1	112.38	1.14	0.00	8.3	79.9	42.0	2.040	451.5	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
49.146	237.83	237.81	2.66	1.12	-1.17	5.0E-02	120.0	2.949	1.004	1.945	43.7	32.1	120.74	1.13	0.00	7.8	82.0	42.0	2.003	476.3	-9999.0	-9999.0
49.212	239.62	239.61	2.74	1.14	-1.50	5.0E-02	120.0	2.953	1.006	1.947	44.2	32.3	121.55	1.16	0.00	7.9	82.2	42.0	2.001	479.3	-9999.0	-9999.0
49.278	233.68	233.66	2.87	1.23	-1.45	5.0E-02	120.0	2.957	1.008	1.949	43.5	31.9	118.38	1.24	0.00	8.5	81.4	42.0	2.011	469.8	-9999.0	-9999.0
49.343	223.58	223.57	3.00	1.34	-1.58	5.0E-02	120.0	2.961	1.010	1.951	42.3	30.9	113.08	1.36	-0.01	9.4	80.1	42.0	2.036	455.1	-9999.0	-9999.0
49.409	212.92	212.90	3.12	1.46	-1.52	5.0E-03	120.0	2.965	1.012	1.953	40.9	29.9	107.51	1.49	-0.01	10.4	78.7	42.0	2.069	440.5	-9999.0	-9999.0
49.474	200.91	200.90	3.14	1.56	-1.12	5.0E-03	120.0	2.969	1.014	1.955	39.1	28.6	101.26	1.59	-0.01	11.4	77.0	42.0	2.112	424.4	-9999.0	-9999.0
49.540	189.98	189.97	3.07	1.61	-0.79	5.0E-03	120.0	2.972	1.016	1.956	37.4	27.3	95.58	1.64	-0.01	12.1	75.4	42.0	2.155	409.4	-9999.0	-9999.0
49.606	180.02	180.01	2.98	1.65	-0.71	5.0E-03	120.0	2.976	1.018	1.958	35.8	26.1	90.40	1.68	-0.01	12.7	73.9	42.0	2.196	395.3	-9999.0	-9999.0
49.671	173.76	173.76	2.71	1.56	-0.28	5.0E-03	120.0	2.980	1.020	1.960	34.4	25.1	87.12	1.58	-0.01	12.5	72.8	42.0	2.223	386.3	-9999.0	-9999.0
49.737	168.39	168.39	0.01	0.01	0.12	5.0E-02	120.0	2.984	1.022	1.962	-9999.0	-9999.0	84.30	0.01	-0.01	-9999.0	71.9	42.0	2.247	378.4	-9999.0	-9999.0
49.803	162.19	162.19	0.01	0.01	-0.10	5.0E-02	120.0	2.988	1.024	1.964	-9999.0	-9999.0	81.06	0.01	-0.01	-9999.0	70.8	42.0	2.276	369.1	-9999.0	-9999.0
49.868	154.73	154.72	0.01	0.01	-0.83	5.0E-02	120.0	2.992	1.026	1.966	-9999.0	-9999.0	77.18	0.01	-0.01	-9999.0	69.5	40.0	2.312	357.7	-9999.0	-9999.0
49.934	148.65	148.63	0.01	0.01	-1.60	5.0E-02	120.0	2.996	1.028	1.968	-9999.0	-9999.0	74.01	0.01	-0.01	-9999.0	68.3	40.0	2.343	348.3	-9999.0	-9999.0
49.999	141.69	141.67	0.01	0.01	-1.98	5.0E-02	120.0	3.000	1.030	1.970	-9999.0	-9999.0	70.40	0.01	-0.01	-9999.0	66.9	40.0	2.382	337.5	-9999.0	-9999.0

Gregg In Situ, Inc. - CPT Interpretation

Interpretation Output - Release	1.22A	Format:	NLI	Imperial
Run No:	04-0816-0955-2326			
Job No:	04-127SC			
Client:	MACTEC			
Project:	Allen Fossil Plant			
Site:	CPT-02			
Location:	Allen Plant			
Oversite:	H. Benkhayal			
CPT Date:	04/20/07			
CPT Time:	11:13			
CPT File:	130CP02.COR			
Northing (m):	0.000000			
Easting (m):	0.000000			
Elevation (m):	0.000000			

Water Table (m):	9.75		(ft):	32.0
Unit Weight of Water (default):	62.40	pcf		
Averaging Increment (m):	0.0	(Every Data Point)		
Phi Method :	Robertson and Campanella, 1983			
Su Nkt used:	15.00		Su/P' (nc):	0.30
Dr Method :	Jamiolkowski - All Sands			
State Parameter M:	1.20			
Constant Unit Weight Used Throughout (pcf):	119.97			

N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
0.066	9.45	9.45	0.03	0.32	0.08	1.0E-07	120.0	0.004	0.000	0.004	-9999.0	-9999.0	2400.24	0.32	0.00	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.630	10.0
0.131	20.44	20.45	0.05	0.25	1.31	5.0E-04	120.0	0.008	0.000	0.008	-9999.0	-9999.0	2596.60	0.25	0.00	-9999.0	90.6	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.197	43.05	43.06	0.10	0.23	0.59	5.0E-03	120.0	0.012	0.000	0.012	-9999.0	-9999.0	3000.00	0.23	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.262	75.25	75.27	0.13	0.17	1.41	5.0E-03	120.0	0.016	0.000	0.016	-9999.0	-9999.0	3000.00	0.17	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.328	84.90	84.90	0.16	0.19	0.06	5.0E-02	120.0	0.020	0.000	0.020	-9999.0	-9999.0	3000.00	0.19	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.394	70.97	70.98	0.22	0.31	0.98	5.0E-03	120.0	0.024	0.000	0.024	-9999.0	-9999.0	3000.00	0.31	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.459	73.02	73.04	0.31	0.43	2.57	5.0E-03	120.0	0.028	0.000	0.028	-9999.0	-9999.0	2649.46	0.43	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.525	97.30	97.32	0.37	0.38	2.25	5.0E-02	120.0	0.031	0.000	0.031	-9999.0	-9999.0	3000.00	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.591	112.11	112.12	0.43	0.38	0.59	5.0E-02	120.0	0.035	0.000	0.035	-9999.0	-9999.0	3000.00	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.656	121.56	121.57	0.44	0.36	0.31	5.0E-02	120.0	0.039	0.000	0.039	-9999.0	-9999.0	3000.00	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.722	127.00	127.00	0.46	0.36	0.59	5.0E-02	120.0	0.043	0.000	0.043	-9999.0	-9999.0	2931.62	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.787	131.60	131.61	0.52	0.40	0.90	5.0E-02	120.0	0.047	0.000	0.047	-9999.0	-9999.0	2784.69	0.40	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.853	138.12	138.12	0.63	0.46	0.77	5.0E-02	120.0	0.051	0.000	0.051	-9999.0	-9999.0	2697.69	0.46	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.919	141.69	141.71	0.74	0.52	1.27	5.0E-02	120.0	0.055	0.000	0.055	-9999.0	-9999.0	2569.95	0.52	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.984	142.20	142.22	0.78	0.55	0.96	5.0E-02	120.0	0.059	0.000	0.059	-9999.0	-9999.0	2407.15	0.55	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.050	140.86	140.87	0.91	0.65	0.98	5.0E-02	120.0	0.063	0.000	0.063	-9999.0	-9999.0	2235.32	0.65	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.115	139.39	139.40	0.99	0.71	0.83	5.0E-02	120.0	0.067	0.000	0.067	-9999.0	-9999.0	2081.73	0.71	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.181	138.24	138.24	1.05	0.76	0.69	5.0E-02	120.0	0.071	0.000	0.071	-9999.0	-9999.0	1949.74	0.76	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.247	136.64	136.65	1.10	0.81	0.63	5.0E-02	120.0	0.075	0.000	0.075	-9999.0	-9999.0	1825.75	0.81	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.312	135.88	135.90	1.12	0.83	1.76	5.0E-02	120.0	0.079	0.000	0.079	-9999.0	-9999.0	1724.89	0.83	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.378	132.55	132.56	1.14	0.86	0.92	5.0E-02	120.0	0.083	0.000	0.083	-9999.0	-9999.0	1602.34	0.86	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.444	128.27	128.28	1.15	0.90	1.23	5.0E-02	120.0	0.087	0.000	0.087	-9999.0	-9999.0	1480.09	0.90	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.509	124.69	124.71	1.15	0.92	1.62	5.0E-02	120.0	0.091	0.000	0.091	-9999.0	-9999.0	1376.22	0.93	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.575	121.56	121.58	1.13	0.93	1.00	5.0E-03	120.0	0.094	0.000	0.094	-9999.0	-9999.0	1285.66	0.93	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.640	118.89	118.90	1.10	0.93	0.65	5.0E-03	120.0	0.098	0.000	0.098	-9999.0	-9999.0	1206.96	0.93	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.706	116.71	116.72	1.08	0.93	0.35	5.0E-03	120.0	0.102	0.000	0.102	-9999.0	-9999.0	1139.22	0.93	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.772	114.61	114.61	1.07	0.94	0.31	5.0E-03	120.0	0.106	0.000	0.106	-9999.0	-9999.0	1077.18	0.94	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.837	112.56	112.57	1.05	0.94	0.33	5.0E-03	120.0	0.110	0.000	0.110	-9999.0	-9999.0	1020.13	0.94	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.903	110.52	110.52	1.01	0.92	0.35	5.0E-03	120.0	0.114	0.000	0.114	18.6	56.4	967.01	0.92	0.00	3.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.968	109.82	109.82	0.97	0.89	0.26	5.0E-03	120.0	0.118	0.000	0.118	18.5	55.0	928.79	0.89	0.00	3.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.034	108.91	108.92	0.93	0.86	0.37	5.0E-03	120.0	0.122	0.000	0.122	18.3	53.6	891.42	0.86	0.00	3.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.100	107.64	107.65	0.72	0.67	1.02	5.0E-02	120.0	0.126	0.000	0.126	17.7	50.9	853.48	0.67	0.00	2.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.165	104.57	104.58	0.67	0.64	1.02	5.0E-02	120.0	0.130	0.000	0.130	17.2	48.7	803.98	0.64	0.00	2.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.231	101.26	101.26	0.65	0.64	0.53	5.0E-02	120.0	0.134	0.000	0.134	16.7	46.7	755.47	0.64	0.00	2.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.297	96.98	96.98	0.62	0.64	0.26	5.0E-03	120.0	0.138	0.000	0.138	16.1	44.3	702.78	0.64	0.00	2.5	94.2	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.362	92.37	92.37	0.58	0.63	0.08	5.0E-03	120.0	0.142	0.000	0.142	15.4	41.8	650.75	0.63	0.00	2.7	92.4	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.428	84.71	84.70	0.55	0.65	-0.31	5.0E-03	120.0	0.146	0.000	0.146	14.3	38.3	580.46	0.65	0.00	3.3	89.5	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.493	82.79	82.79	0.51	0.62	-0.43	5.0E-03	120.0	0.150	0.000	0.150	14.0	36.9	552.35	0.62	0.00	3.3	88.5	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.559	80.43	80.42	0.48	0.60	-0.33	5.0E-03	120.0	0.154	0.000	0.154	13.6	35.5	522.77	0.60	0.00	3.4	87.3	48.0	-9999.0	-9999.0	-9999.0	-9999.0
2.625	77.87	77.87	0.48	0.62	-0.14	5.0E-03	120.0	0.157	0.000	0.157	13.3	34.2	493.45	0.62	0.00	3.7	86.0	48.0	1.958	152.5	-9999.0	-9999.0
2.690	74.99	74.99	0.47	0.63	-0.31	5.0E-03	120.0	0.161	0.000	0.161	12.9	32.7	463.56	0.63	0.00	4.1	84.5	48.0	1.902	142.6	-9999.0	-9999.0
2.756	72.12	72.12	0.46	0.64	-0.12	5.0E-03	120.0	0.165	0.000	0.165	12.5	31.3	435.17	0.64	0.00	4.4	83.1	48.0	1.880	135.6	-9999.0	-9999.0
2.821	69.82	69.82	0.43	0.62	-0.24	5.0E-03	120.0	0.169	0.000	0.169	12.1	30.0	411.40	0.62	0.00	4.5	81.8	48.0	1.879	131.2	-9999.0	-9999.0
2.887	67.01	67.01	0.40	0.60	-0.51	5.0E-03	120.0	0.173	0.000	0.173	11.6	28.6	385.81	0.60	0.00	4.6	80.3	48.0	1.892	126.8	-9999.0	-9999.0
2.953	65.29	65.29	0.37	0.57	-0.18	5.0E-03	120.0	0.177	0.000	0.177	11.3	27.5	367.50	0.57	0.00	4.6	79.2	48.0	1.906	124.5	-9999.0	-9999.0
3.018	62.86	62.86	0.34	0.54	-0.31	5.0E-03	120.0	0.181	0.000	0.181	10.9	26.3	346.09	0.54	0.00	4.7	77.8	48.0	1.930	121.3	-9999.0	-9999.0
3.084	60.31	60.30	0.32	0.53	-0.33	5.0E-03	120.0	0.185	0.000	0.185	10.5	25.0	324.89	0.53	0.00	4.9	76.3	48.0	1.957	118.0	-9999.0	-9999.0
3.150	57.30	57.30	0.30	0.52	-0.35	5.0E-03	120.0	0.189	0.000	0.189	10.1	23.7	302.18	0.53	0.00	5.3	74.6	46.0	1.992	114.1	-9999.0	-9999.0
3.215	55.13	55.13	0.29	0.53	-0.45	5.0E-03	120.0	0.193	0.000	0.193	9.8	22.7	284.77	0.53	0.00	5.6	73.2	46.0	2.020	111.3	-9999.0	-9999.0
3.281	52.90	52.89	0.27	0.51	-0.41	5.0E-03	120.0	0.197	0.000	0.197	9.4	21.6	267.70	0.51	0.00	5.8	71.7	46.0	2.050	108.4	-9999.0	-9999.0
3.346	50.91	50.91	0.26	0.51	-0.41	5.0E-03	120.0	0.201	0.000	0.201	9.1	20.8	252.54	0.51	0.00	6.1	70.3	46.0	2.080	105.9	-9999.0	-9999.0
3.412	48.93	48.92	0.25	0.51	-0.37	5.0E-03	120.0	0.205	0.000	0.205	8.8	19.9	237.98	0.51	0.00	6.5	68.9	46.0	2.112	103.3	-9999.0	-9999.0
3.478	46.89	46.89	0.24	0.51	-0.31	5.0E-03	120.0	0.209	0.000	0.209	8.5	19.0	223.72	0.52	0.00	6.9	67.4	46.0	2.147	100.7	-9999.0	-9999.0
3.543	44.72	44.71	0.22	0.49	-0.33	5.0E-03	120.0	0.213	0.000	0.213	8.1	18.0	209.32	0.50	0.00	5.0	65.8	46.0	2.189	97.9	-9999.0	-9999.0
3.609	42.61	42.61	0.21	0.49	-0.57	5.0E-03	120.0	0.217	0.000	0.217	7.8	17.2	195.77	0.50	0.00	5.0	64.1	44.0	2.236	95.3	-9999.0	-9999.0
3.674	40.69	40.68	0.19	0.47	-0.49	5.0E-03	120.0	0.220	0.000	0.220	7.5	16.3	183.53	0.47	0.00	5.0	62.5	44.0	2.284	92.9	-9999.0	-9999.0
3.740	39.03	39.03	0.18	0.46	-0.28	5.0E-04	120.0	0.224	0.000	0.224	7.2	15.6	172.93	0.46	0.00	5.0	61.1	44.0	2.331	91.0	-9999.0	-9999.0
3.806	37.37	37.37	0.16	0.43	-0.33	5.0E-04	120.0	0.228	0.000	0.228	6.9	14.8	162.64	0.43	0.00	5.0	59.6	44.0	2.385	89.1	-9999.0	-9999.0
3.871	35.59	35.58	0.15	0.42	-0.35	5.0E-04	120.0	0.232	0.000	0.232	6.6	14.1	152.18	0.43	0.00	5.0	58.0	44.0	2.447	87.1	-9999.0	-9999.0
3.937	34.62	34.62	0.14	0.41	-0.39	5.0E-04	120.0	0.236	0.000	0.236	6.5	13.6	145.56	0.41	0.00	5.0	56.9	44.0	2.489	86.2	-9999.0	-9999.0
4.003	33.35	33.35	0.13	0.39	-0.37	5.0E-04	120.0	0.240	0.000	0.240	6.3	13.0	137.85	0.39	0.00	5.0	55.6	44.0	2.544	84.8	-9999.0	-9999.0
4.068	32.26	32.25	0.12	0.37	-0.35	5.0E-04	120.0	0.244	0.000	0.244	6.1	12.5	131.14	0.38	0.00	5.0	54.4	44.0	2.596	83.7	-9999.0	-9999.0
4.134	30.99	30.98	0.10	0.32	-0.43	5.0E-04	120.0	0.248	0.000	0.248	5.8	11.9	123.90	0.33	0.00	5.0	53.0	42.0	2.659	82.4	-9999.0	-9999.0
4.199	30.15	30.15	0.10	0.33	-0.47	5.0E-04	120.0	0.252	0.000	0.252	5.7	11.6	118.65	0.34	0.00	5.0	52.0	42.0	2.707	81.6	-9999.0	-9999.0
4.265	29.32	29.32	0.09	0.31	-0.57	5.0E-04	120.0	0.256	0.000	0.256	5.5	11.2	113.55	0.31	0.00	5.0	51.0	42.0	2.757	80.8	-9999.0	-9999.0
4.331	28.30	28.29	0.08	0.28	-0.47	5.0E-04	120.0	0.260	0.000	0.260	5.4	10.7	107.89	0.29	0.00	5.0	49.8	42.0	2.819	79.8	-9999.0	-9999.0
4.396	27.15	27.14	0.08	0.30	-0.55	5.0E-04	120.0	0.264	0.000	0.264	5.2	10.3	101.89	0.30	0.00	5.0	48.4	42.0	2.891	78.5	-9999.0	-9999.0
4.462	26.51	26.51	0.08	0.30	-0.57	5.0E-04	120.0	0.268	0.000	0.268	5.1	10.1	98.01	0.31	0.00	5.0	47.5	42.0	2.937	77.9	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
4.528	25.68	25.68	0.07	0.27	-0.47	5.0E-04	120.0	0.272	0.000	0.272	4.9	9.7	93.52	0.28	0.00	5.0	46.4	42.0	2.997	76.9	-9999.0	-9999.0
4.593	24.85	24.84	0.07	0.28	-0.55	5.0E-04	120.0	0.276	0.000	0.276	4.8	9.4	89.15	0.29	0.00	5.0	45.2	42.0	3.059	76.0	-9999.0	-9999.0
4.659	23.77	23.76	0.07	0.30	-0.59	5.0E-04	120.0	0.280	0.000	0.280	4.7	9.0	84.00	0.30	0.00	5.0	43.7	42.0	3.139	74.6	-9999.0	-9999.0
4.724	23.38	23.37	0.07	0.30	-0.53	5.0E-04	120.0	0.283	0.000	0.283	4.6	8.8	81.45	0.30	0.00	5.0	43.1	42.0	3.176	74.2	-9999.0	-9999.0
4.790	22.75	22.74	0.07	0.31	-0.49	5.0E-04	120.0	0.287	0.000	0.287	4.5	8.6	78.12	0.31	0.00	5.0	42.1	42.0	3.230	73.5	-9999.0	-9999.0
4.856	21.59	21.59	0.07	0.33	-0.55	5.0E-04	120.0	0.291	0.000	0.291	4.3	8.2	73.09	0.33	0.00	5.0	40.4	40.0	3.324	71.8	-9999.0	-9999.0
4.921	21.08	21.08	0.07	0.33	-0.51	5.0E-04	120.0	0.295	0.000	0.295	4.3	8.0	70.38	0.34	0.00	5.0	39.5	40.0	3.373	71.1	-9999.0	-9999.0
4.987	20.12	20.11	0.05	0.25	-0.73	5.0E-04	120.0	0.299	0.000	0.299	4.0	7.5	66.21	0.25	0.00	5.0	38.0	40.0	3.458	69.5	-9999.0	-9999.0
5.052	19.93	19.92	0.05	0.25	-0.71	5.0E-04	120.0	0.303	0.000	0.303	4.0	7.4	64.71	0.26	0.00	5.0	37.5	40.0	3.483	69.4	-9999.0	-9999.0
5.118	19.23	19.22	0.04	0.21	-0.67	5.0E-04	120.0	0.307	0.000	0.307	3.9	7.1	61.59	0.21	0.00	5.0	36.3	40.0	3.550	68.2	-9999.0	-9999.0
5.184	19.17	19.16	0.05	0.26	-0.63	5.0E-04	120.0	0.311	0.000	0.311	3.9	7.1	60.60	0.27	0.00	5.0	36.0	40.0	3.565	68.3	-9999.0	-9999.0
5.249	18.79	18.78	0.04	0.21	-0.63	5.0E-04	120.0	0.315	0.000	0.315	3.8	6.9	58.62	0.22	0.00	5.0	35.3	40.0	3.607	67.7	-9999.0	-9999.0
5.315	18.33	18.33	0.02	0.11	-0.67	5.0E-04	120.0	0.319	0.000	0.319	3.6	6.6	56.47	0.11	0.00	5.0	34.4	40.0	3.655	67.0	-9999.0	-9999.0
5.381	18.79	18.78	0.02	0.11	-0.53	5.0E-04	120.0	0.323	0.000	0.323	3.7	6.7	57.17	0.11	0.00	5.0	34.9	40.0	3.626	68.1	-9999.0	-9999.0
5.446	18.66	18.65	0.03	0.16	-0.57	5.0E-04	120.0	0.327	0.000	0.327	3.7	6.7	56.07	0.16	0.00	5.0	34.5	40.0	3.647	68.0	-9999.0	-9999.0
5.512	19.04	19.03	0.03	0.16	-0.57	5.0E-04	120.0	0.331	0.000	0.331	3.8	6.8	56.54	0.16	0.00	5.0	35.0	40.0	3.624	69.0	-9999.0	-9999.0
5.577	19.30	19.29	0.04	0.21	-0.55	5.0E-04	120.0	0.335	0.000	0.335	3.9	6.9	56.65	0.21	0.00	5.0	35.2	40.0	3.612	69.7	-9999.0	-9999.0
5.643	17.31	17.33	0.04	0.23	1.96	5.0E-04	120.0	0.339	0.000	0.339	3.6	6.3	50.19	0.24	0.01	5.0	31.9	38.0	-9999.0	-9999.0	-9999.0	-9999.0
5.709	19.61	19.60	0.05	0.26	-0.39	5.0E-04	120.0	0.343	0.000	0.343	4.0	7.0	56.23	0.26	0.00	5.0	35.3	40.0	3.605	70.7	-9999.0	-9999.0
5.774	20.32	20.31	0.10	0.49	-0.41	5.0E-04	120.0	0.346	0.000	0.346	4.3	7.5	57.64	0.50	0.00	17.3	36.2	40.0	3.558	72.3	-9999.0	-9999.0
5.840	20.70	20.70	0.18	0.87	-0.39	5.0E-05	120.0	0.350	0.000	0.350	4.6	7.9	58.06	0.89	0.00	21.1	36.5	40.0	3.538	73.2	1.356	10.0
5.905	20.51	20.50	0.28	1.37	-0.45	5.0E-05	120.0	0.354	0.000	0.354	4.8	8.2	56.87	1.39	0.00	25.3	36.1	40.0	3.561	73.0	1.343	10.0
5.971	19.30	19.29	0.27	1.40	-0.59	5.0E-05	120.0	0.358	0.000	0.358	4.6	7.8	52.84	1.43	0.00	26.6	34.2	40.0	3.666	70.7	1.262	10.0
6.037	15.84	15.83	0.22	1.39	-0.69	5.0E-05	120.0	0.362	0.000	0.362	3.9	6.6	42.71	1.43	0.00	29.6	30.0	38.0	-9999.0	-9999.0	1.031	10.0
6.102	12.27	12.26	0.17	1.39	-0.47	5.0E-06	120.0	0.366	0.000	0.366	3.1	5.3	32.50	1.43	0.00	34.0	-9999.0	-9999.0	-9999.0	-9999.0	0.793	10.0
6.168	10.28	10.29	0.14	1.36	0.90	5.0E-06	120.0	0.370	0.000	0.370	2.6	5.6	26.82	1.41	0.01	32.5	-9999.0	-9999.0	-9999.0	-9999.0	0.662	10.0
6.234	8.11	8.12	0.12	1.48	1.02	5.0E-06	120.0	0.374	0.000	0.374	2.2	4.7	20.71	1.55	0.01	37.9	-9999.0	-9999.0	-9999.0	-9999.0	0.516	7.5
6.299	7.48	7.53	0.11	1.46	5.09	5.0E-06	120.0	0.378	0.000	0.378	2.0	5.1	18.93	1.54	0.05	35.6	-9999.0	-9999.0	-9999.0	-9999.0	0.477	6.5
6.365	8.05	8.26	0.10	1.21	19.34	5.0E-06	120.0	0.382	0.000	0.382	2.1	4.6	20.63	1.27	0.18	35.7	-9999.0	-9999.0	-9999.0	-9999.0	0.525	7.4
6.430	8.24	8.45	0.09	1.07	19.26	5.0E-06	120.0	0.386	0.000	0.386	2.2	4.6	20.90	1.12	0.17	34.0	-9999.0	-9999.0	-9999.0	-9999.0	0.537	7.6
6.496	8.43	8.64	0.09	1.04	19.32	5.0E-06	120.0	0.390	0.000	0.390	2.2	4.6	21.17	1.09	0.17	33.5	-9999.0	-9999.0	-9999.0	-9999.0	0.550	7.7
6.562	9.71	9.97	0.10	1.01	23.82	5.0E-06	120.0	0.394	0.000	0.394	2.6	4.2	24.33	1.05	0.18	35.1	-9999.0	-9999.0	-9999.0	-9999.0	0.638	9.7
6.627	13.86	14.08	0.12	0.85	19.91	5.0E-05	120.0	0.398	0.000	0.398	3.4	5.4	34.41	0.88	0.10	27.6	30.0	36.0	-9999.0	-9999.0	0.912	10.0
6.693	17.25	17.31	0.11	0.64	5.25	5.0E-05	120.0	0.402	0.000	0.402	3.9	6.3	42.10	0.65	0.02	22.2	30.0	38.0	-9999.0	-9999.0	1.127	10.0
6.758	16.67	16.70	0.12	0.72	2.66	5.0E-05	120.0	0.406	0.000	0.406	3.8	6.1	40.18	0.74	0.01	23.7	30.0	38.0	-9999.0	-9999.0	1.086	10.0
6.824	15.53	15.54	0.12	0.77	1.52	5.0E-05	120.0	0.409	0.000	0.409	3.6	5.8	36.96	0.79	0.01	25.4	30.0	38.0	-9999.0	-9999.0	1.009	10.0
6.890	14.82	14.83	0.09	0.61	1.35	5.0E-05	120.0	0.413	0.000	0.413	3.4	5.4	34.88	0.63	0.01	24.3	30.0	38.0	-9999.0	-9999.0	0.961	10.0
6.955	14.51	14.52	0.08	0.55	1.70	5.0E-05	120.0	0.417	0.000	0.417	3.3	5.3	33.80	0.57	0.01	24.0	30.0	36.0	-9999.0	-9999.0	0.940	10.0
7.021	14.05	14.07	0.07	0.50	1.43	5.0E-05	120.0	0.421	0.000	0.421	3.2	5.1	32.40	0.51	0.01	23.9	30.0	36.0	-9999.0	-9999.0	0.910	10.0
7.087	13.35	13.36	0.06	0.45	0.85	5.0E-05	120.0	0.425	0.000	0.425	3.1	4.8	30.42	0.46	0.00	5.0	30.0	36.0	-9999.0	-9999.0	0.862	10.0
7.152	12.90	12.91	0.05	0.39	0.94	5.0E-05	120.0	0.429	0.000	0.429	3.0	4.6	29.09	0.40	0.01	5.0	30.0	36.0	-9999.0	-9999.0	0.832	10.0
7.218	13.03	13.04	0.06	0.46	0.75	5.0E-05	120.0	0.433	0.000	0.433	3.0	4.7	29.11	0.48	0.00	24.8	30.0	36.0	-9999.0	-9999.0	0.840	10.0
7.283	12.90	12.91	0.08	0.62	0.71	5.0E-05	120.0	0.437	0.000	0.437	3.1	4.7	28.54	0.64	0.00	27.2	30.0	36.0	-9999.0	-9999.0	0.831	10.0
7.349	12.65	12.66	0.10	0.79	0.98	5.0E-05	120.0	0.441	0.000	0.441	3.1	4.8	27.71	0.82	0.01	29.5	30.0	36.0	-9999.0	-9999.0	0.815	10.0
7.415	11.12	11.13	0.10	0.90	0.98	5.0E-05	120.0	0.445	0.000	0.445	2.8	4.3	24.01	0.94	0.01	33.1	30.0	34.0	-9999.0	-9999.0	0.712	9.5
7.480	9.07	9.08	0.08	0.88	0.90	5.0E-06	120.0	0.449	0.000	0.449	2.3	4.3	19.23	0.93	0.01	32.9	-9999.0	-9999.0	-9999.0	-9999.0	0.576	6.7
7.546	6.65	6.65	0.07	1.05	0.49	1.0E-07	120.0	0.453	0.000	0.453	1.8	3.8	13.69	1.13	0.01	38.3	-9999.0	-9999.0	-9999.0	-9999.0	0.413	4.0
7.611	5.30	5.33	0.07	1.32	2.47	1.0E-07	120.0	0.457	0.000	0.457	1.5	3.2	10.67	1.44	0.04	46.2	-9999.0	-9999.0	-9999.0	-9999.0	0.325	2.8
7.677	5.68	5.71	0.07	1.23	2.02	1.0E-07	120.0	0.461	0.000	0.461	1.6	3.4	11.39	1.34	0.03	43.9	-9999.0	-9999.0	-9999.0	-9999.0	0.350	3.0
7.743	6.97	7.05	0.06	0.85	7.98	1.0E-07	120.0	0.465	0.000	0.465	1.8	3.8	14.18	0.91	0.09	35.4	-9999.0	-9999.0	-9999.0	-9999.0	0.439	4.2
7.808	8.88	8.93	0.06	0.67	4.35	1.0E-07	120.0	0.469	0.000	0.469	2.3	3.4	18.06	0.71	0.04	35.1	-9999.0	-9999.0	-9999.0	-9999.0	0.564	6.0
7.874	8.24	8.27	0.06	0.73	2.41	1.0E-07	120.0	0.472	0.000	0.472	2.1	3.8	16.50	0.77	0.02	33.7	-9999.0	-9999.0	-9999.0	-9999.0	0.520	5.3
7.940	8.62	8.64	0.04	0.46	2.02	1.0E-07	120.0	0.476	0.000	0.476	2.2	3.2	17.14	0.49	0.02	33.0	-9999.0	-9999.0	-9999.0	-9999.0	0.544	5.6
8.005	9.01	9.03	0.05	0.55	1.86	1.0E-07	120.0	0.480	0.000	0.480	2.3	3.4	17.80	0.59	0.02	33.6	-9999.0	-9999.0	-9999.0	-9999.0	0.570	5.9
8.071	8.56	8.58	0.04	0.47	1.60	1.0E-07	120.0	0.484	0.000	0.484	2.2	3.2	16.71	0.50	0.01	33.3	-9999.0	-9999.0	-9999.0	-9999.0	0.540	5.4
8.136	9.07	9.09	0.03	0.33	1.58	1.0E-07	120.0	0.488	0.000	0.488	2.2	3.3	17.62	0.35	0.01	30.0	-9999.0	-9999.0	-9999.0	-9999.0	0.573	5.8
8.202	9.71	9.73	0.03	0.31	1.56	1.0E-07	120.0	0.492	0.000	0.492	2.3	3.4	18.77	0.33	0.01	28.5	-9999.0	-9999.0	-9999.0	-9999.0	0.616	6.4
8.268	11.88	11.90	0.04	0.34	1.62	5.0E-05	120.0	0.496	0.000	0.496	2.8	4.0	22.98	0.35	0.01	25.5	30.0	34.0	-9999.0	-9999.0	0.760	8.8
8.333	11.69	11.70	0.04	0.34	1.25	5.0E-05	120.0	0.500	0.000	0.500	2.7	4.0	22.40	0.36	0.01	26.0	30.0	34.0	-9999.0	-9999.0	0.747	8.5
8.399	10.42	10.42	0.06	0.58	0.85	5.0E-05	120.0	0.504	0.000	0.504	2.6	3.7	19.69	0.61	0.01	31.6	30.0	32.0	-9999.0	-9999.0	0.661	6.9
8.464	9.58	9.59	0.07	0.73	0.26	5.0E-05	120.0	0.508	0.000	0.508	2.5	3.6	17.87	0.77	0.00	35.3	30.0	32.0	-9999.0	-9999.0	0.605	5.9
8.530	8.30	8.30	0.07	0.85	0.06	1.0E-07	120.0	0.512	0.000	0.512	2.2	3.7	15.22	0.90	0.00	36.1	-9999.0	-9999.0	-9999.0	-9999.0	0.519	4.7
8.596	7.48	7.48	0.05	0.67	0.14	1.0E-07	120.0	0.516	0.000	0.516	2.0	3.3	13.50	0.72	0.00	36.2	-9999.0	-9999.0	-9999.0	-9999.0	0.464	3.9
8.661	6.71	6.71	0.09	1.35	0.02	1.0E-07	120.0	0.520	0.000	0.520	1.9	3.5	11.90	1.46	0.00	44.0	-9999.0	-9999.0	-9999.0	-9999.0	0.412	3.2
8.727	6.58	6.58	0.11	1.68	0.53	5.0E-06	120.0	0.524	0.000	0.524	1.9	3.5	11.57	1.82	0.01	47.5	-9999.0	-9999.0	-9999.0	-9999.0	0.404	3.1
8.793	6.06	6.07	0.09	1.49	0.18	1.0E-07	120.0	0.528	0.000	0.528	1.8	3.2	10.50	1.63	0.00	48.1	-9999.0	-9999.0	-9999.0	-9999.0	0.369	2.7
8.858	4.15	4.15	0.09	2.17	0.31	5.0E-08	120.0	0.532	0.000	0.532	1.4	2.4	6.81	2.49	0.01	64.9	-9999.0	-9999.0	-9999.0	-9999.0	0.241	1.5
8.924	2.69	2.70	0.06	2.23	0.87	1.0E-07	120.0	0.535	0.000	0.535	1.1	1.7	4.03	2.78	0.03	82.1	-9999.0	-9999.0	-9999.0	-9999.0	0.144	0.9

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
8.989	1.53	1.56	0.05	3.20	2.88	5.0E-08	120.0	0.539	0.000	0.539	0.9	1.2	1.90	4.89	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.068	0.6
9.055	1.34	1.47	0.03	2.05	11.38	1.0E-07	120.0	0.543	0.000	0.543	0.8	1.0	1.70	3.26	0.89	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.062	0.6
9.121	1.66	1.87	0.02	1.07	19.12	1.0E-07	120.0	0.547	0.000	0.547	0.8	1.1	2.42	1.51	1.04	88.8	-9999.0	-9999.0	-9999.0	-9999.0	0.088	0.6
9.186	2.30	2.52	0.02	0.80	20.89	1.0E-07	120.0	0.551	0.000	0.551	0.9	1.3	3.57	1.02	0.76	70.3	-9999.0	-9999.0	-9999.0	-9999.0	0.131	0.8
9.252	2.62	2.80	0.01	0.36	16.61	1.0E-07	120.0	0.555	0.000	0.555	-9999.0	-9999.0	4.04	0.45	0.53	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.149	0.9
9.317	1.78	1.97	0.01	0.51	17.50	1.0E-07	120.0	0.559	0.000	0.559	-9999.0	-9999.0	2.53	0.71	0.89	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.094	0.7
9.383	1.78	2.00	0.02	1.00	20.09	1.0E-07	120.0	0.563	0.000	0.563	0.8	1.1	2.55	1.39	1.01	85.5	-9999.0	-9999.0	-9999.0	-9999.0	0.096	0.7
9.449	1.72	1.92	0.01	0.52	18.45	1.0E-07	120.0	0.567	0.000	0.567	-9999.0	-9999.0	2.39	0.74	0.98	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.090	0.6
9.514	1.00	1.23	0.01	0.82	21.03	1.0E-07	120.0	0.571	0.000	0.571	-9999.0	-9999.0	1.15	1.52	2.30	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
9.580	1.66	1.92	0.01	0.52	23.40	1.0E-07	120.0	0.575	0.000	0.575	-9999.0	-9999.0	2.33	0.75	1.26	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.089	0.6
9.646	1.15	1.40	0.01	0.72	22.73	1.0E-07	120.0	0.579	0.000	0.579	-9999.0	-9999.0	1.42	1.22	2.00	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.055	0.5
9.711	1.27	1.52	0.01	0.66	22.52	1.0E-07	120.0	0.583	0.000	0.583	-9999.0	-9999.0	1.60	1.07	1.74	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.062	0.5
9.777	1.34	1.58	0.01	0.63	22.36	1.0E-07	120.0	0.587	0.000	0.587	-9999.0	-9999.0	1.70	1.00	1.61	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.067	0.6
9.842	1.00	1.25	0.01	0.80	22.93	1.0E-07	120.0	0.591	0.000	0.591	-9999.0	-9999.0	1.12	1.52	2.50	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
9.908	1.27	1.55	0.01	0.65	25.28	1.0E-07	120.0	0.594	0.000	0.594	-9999.0	-9999.0	1.60	1.05	1.91	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.063	0.5
9.974	1.34	1.62	0.01	0.62	25.34	1.0E-07	120.0	0.598	0.000	0.598	-9999.0	-9999.0	1.70	0.98	1.79	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.068	0.6
10.039	1.53	1.79	0.01	0.56	23.28	1.0E-07	120.0	0.602	0.000	0.602	-9999.0	-9999.0	1.96	0.85	1.42	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.079	0.6
10.105	1.72	1.97	0.01	0.51	22.54	1.0E-07	120.0	0.606	0.000	0.606	-9999.0	-9999.0	2.25	0.74	1.19	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.091	0.6
10.170	1.34	1.61	0.01	0.62	24.71	1.0E-07	120.0	0.610	0.000	0.610	-9999.0	-9999.0	1.64	1.00	1.78	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.067	0.6
10.236	1.00	1.28	0.01	0.78	25.70	1.0E-07	120.0	0.614	0.000	0.614	-9999.0	-9999.0	1.08	1.51	2.78	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
10.302	1.00	1.29	0.01	0.78	26.55	1.0E-07	120.0	0.618	0.000	0.618	-9999.0	-9999.0	1.09	1.49	2.85	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.045	0.5
10.367	1.00	1.30	0.01	0.77	27.39	1.0E-07	120.0	0.622	0.000	0.622	-9999.0	-9999.0	1.09	1.48	2.92	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.045	0.5
10.433	1.00	1.29	0.01	0.78	26.72	1.0E-07	120.0	0.626	0.000	0.626	-9999.0	-9999.0	1.06	1.51	2.89	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
10.499	1.00	1.29	0.01	0.78	26.92	1.0E-07	120.0	0.630	0.000	0.630	-9999.0	-9999.0	1.05	1.51	2.92	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
10.564	1.00	1.30	0.01	0.77	27.63	1.0E-07	120.0	0.634	0.000	0.634	-9999.0	-9999.0	1.05	1.50	2.98	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
10.630	1.00	1.30	0.01	0.77	27.81	1.0E-07	120.0	0.638	0.000	0.638	-9999.0	-9999.0	1.04	1.51	3.01	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
10.695	1.15	1.46	0.01	0.69	28.31	1.0E-07	120.0	0.642	0.000	0.642	-9999.0	-9999.0	1.27	1.23	2.50	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.054	0.5
10.761	1.21	1.54	0.01	0.65	30.24	1.0E-07	120.0	0.646	0.000	0.646	-9999.0	-9999.0	1.38	1.12	2.44	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.060	0.5
10.827	1.59	1.92	0.01	0.52	29.98	1.0E-07	120.0	0.650	0.000	0.650	-9999.0	-9999.0	1.95	0.79	1.70	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.085	0.6
10.892	1.91	2.19	0.01	0.46	25.14	1.0E-07	120.0	0.654	0.000	0.654	-9999.0	-9999.0	2.35	0.65	1.18	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.102	0.6
10.958	1.02	1.31	0.01	0.76	27.02	1.0E-07	120.0	0.657	0.000	0.657	-9999.0	-9999.0	1.00	1.53	2.96	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
11.023	1.00	1.33	0.01	0.76	30.00	1.0E-07	120.0	0.661	0.000	0.661	-9999.0	-9999.0	1.01	1.51	3.25	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
11.089	1.00	1.33	0.01	0.75	30.38	1.0E-07	120.0	0.665	0.000	0.665	-9999.0	-9999.0	1.00	1.51	3.29	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
11.155	1.00	1.35	0.01	0.74	32.07	1.0E-07	120.0	0.669	0.000	0.669	-9999.0	-9999.0	1.02	1.48	3.40	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.045	0.5
11.220	2.24	2.59	0.01	0.39	33.07	1.0E-07	120.0	0.673	0.000	0.673	-9999.0	-9999.0	2.85	0.52	1.24	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.128	0.7
11.286	2.11	2.43	0.01	0.41	29.74	1.0E-07	120.0	0.677	0.000	0.677	-9999.0	-9999.0	2.58	0.57	1.22	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.117	0.7
11.352	2.24	2.58	0.01	0.39	31.48	1.0E-07	120.0	0.681	0.000	0.681	-9999.0	-9999.0	2.78	0.53	1.20	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.126	0.7
11.417	2.18	2.53	0.01	0.40	33.13	1.0E-07	120.0	0.685	0.000	0.685	-9999.0	-9999.0	2.70	0.54	1.29	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.123	0.7
11.483	1.91	2.28	0.01	0.44	33.44	1.0E-07	120.0	0.689	0.000	0.689	-9999.0	-9999.0	2.30	0.63	1.52	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.106	0.6
11.548	1.53	1.92	0.01	0.52	35.91	1.0E-07	120.0	0.693	0.000	0.693	-9999.0	-9999.0	1.77	0.82	2.10	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.082	0.6
11.614	1.66	2.04	0.01	0.49	34.87	1.0E-07	120.0	0.697	0.000	0.697	-9999.0	-9999.0	1.93	0.75	1.87	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.090	0.6
11.680	1.98	2.36	0.01	0.42	35.02	1.0E-07	120.0	0.701	0.000	0.701	-9999.0	-9999.0	2.37	0.60	1.52	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.111	0.6
11.745	1.72	2.10	0.01	0.48	34.94	1.0E-07	120.0	0.705	0.000	0.705	-9999.0	-9999.0	1.98	0.72	1.80	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.093	0.6
11.811	2.30	2.68	0.01	0.37	35.26	1.0E-07	120.0	0.709	0.000	0.709	-9999.0	-9999.0	2.78	0.51	1.29	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.131	0.7
11.876	1.91	2.28	0.01	0.44	33.40	1.0E-07	120.0	0.713	0.000	0.713	-9999.0	-9999.0	2.19	0.64	1.54	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.104	0.6
11.942	1.98	2.36	0.01	0.43	34.58	1.0E-07	120.0	0.717	0.000	0.717	-9999.0	-9999.0	2.29	0.61	1.52	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.109	0.6
12.008	1.47	1.86	0.01	0.54	36.18	1.0E-07	120.0	0.720	0.000	0.720	-9999.0	-9999.0	1.59	0.88	2.28	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.076	0.5
12.073	1.00	1.39	0.01	0.72	36.20	1.0E-07	120.0	0.724	0.000	0.724	-9999.0	-9999.0	0.92	1.50	3.90	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.045	0.5
12.139	1.78	2.17	0.01	0.46	35.50	1.0E-07	120.0	0.728	0.000	0.728	-9999.0	-9999.0	1.98	0.70	1.78	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.096	0.6
12.205	3.26	3.62	0.01	0.28	33.72	1.0E-07	120.0	0.732	0.000	0.732	-9999.0	-9999.0	3.95	0.35	0.84	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.193	0.9
12.270	3.58	3.91	0.01	0.26	30.99	1.0E-07	120.0	0.736	0.000	0.736	-9999.0	-9999.0	4.32	0.32	0.70	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.212	1.0
12.336	2.50	2.79	0.01	0.36	27.20	1.0E-07	120.0	0.740	0.000	0.740	-9999.0	-9999.0	2.77	0.49	0.96	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.137	0.7
12.401	1.91	2.21	0.01	0.45	27.22	1.0E-07	120.0	0.744	0.000	0.744	-9999.0	-9999.0	1.97	0.68	1.34	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.098	0.6
12.467	1.53	1.85	0.01	0.54	29.59	1.0E-07	120.0	0.748	0.000	0.748	-9999.0	-9999.0	1.48	0.91	1.93	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.074	0.5
12.533	1.27	1.64	0.01	0.61	33.97	1.0E-07	120.0	0.752	0.000	0.752	-9999.0	-9999.0	1.18	1.13	2.75	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.059	0.5
12.598	1.34	1.74	0.01	0.58	36.84	1.0E-07	120.0	0.756	0.000	0.756	-9999.0	-9999.0	1.30	1.02	2.69	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.066	0.5
12.664	1.40	1.81	0.01	0.55	37.43	1.0E-07	120.0	0.760	0.000	0.760	-9999.0	-9999.0	1.38	0.96	2.57	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.070	0.5
12.730	1.40	1.83	0.01	0.55	39.06	1.0E-07	120.0	0.764	0.000	0.764	-9999.0	-9999.0	1.39	0.94	2.65	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.071	0.5
12.795	1.78	2.20	0.01	0.46	38.69	1.0E-07	120.0	0.768	0.000	0.768	-9999.0	-9999.0	1.87	0.70	1.94	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.096	0.6
12.861	1.00	1.37	0.01	0.73	33.93	1.0E-07	120.0	0.772	0.000	0.772	-9999.0	-9999.0	0.77	1.68	4.09	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.040	0.5
12.926	1.00	1.38	0.01	0.73	34.61	1.0E-07	120.0	0.776	0.000	0.776	-9999.0	-9999.0	0.77	1.67	4.15	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.040	0.5
12.992	1.00	1.41	0.01	0.71	37.88	1.0E-07	120.0	0.780	0.000	0.780	-9999.0	-9999.0	0.81	1.59	4.32	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.042	0.5
13.058	1.00	1.44	0.01	0.69	40.94	1.0E-07	120.0	0.783	0.000	0.783	-9999.0	-9999.0	0.84	1.52	4.46	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.044	0.5
13.123	2.18	2.62	0.01	0.38	41.06	1.0E-07	120.0	0.787	0.000	0.787	-9999.0	-9999.0	2.33	0.55	1.61	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.122	0.6
13.189	2.50	2.92	0.01	0.34	39.45	1.0E-07	120.0	0.791	0.000	0.791	-9999.0	-9999.0	2.69	0.47	1.33	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.142	0.7
13.254	2.04	2.48	0.01	0.40	40.04	1.0E-07	120.0	0.795	0.000	0.795	-9999.0	-9999.0	2.12	0.60	1.71	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.112	0.6
13.320	1.85	2.29	0.01	0.44	40.20	1.0E-07	120.0	0.799	0.000	0.799	-9999.0	-9999.0	1.86	0.67	1.94	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.099	0.6
13.386	2.11	2.55	0.01	0.39	41.60	1.0E-07	120.0	0.803	0.000	0.803	-9999.0	-9999.0	2.18	0.57	1.71	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.117	0.6

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24*	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
13.451	2.75	3.20	0.01	0.31	42.13	1.0E-07	120.0	0.807	0.000	0.807	-9999.0	-9999.0	2.97	0.42	1.27	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.160	0.7
13.517	2.24	2.67	0.01	0.38	40.39	1.0E-07	120.0	0.811	0.000	0.811	-9999.0	-9999.0	2.29	0.54	1.56	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.124	0.6
13.583	1.85	2.30	0.01	0.44	41.10	1.0E-07	120.0	0.815	0.000	0.815	-9999.0	-9999.0	1.82	0.68	1.99	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.099	0.6
13.648	1.98	2.44	0.01	0.41	42.25	1.0E-07	120.0	0.819	0.000	0.819	-9999.0	-9999.0	1.98	0.62	1.88	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.108	0.6
13.714	2.30	2.74	0.01	0.37	41.20	1.0E-07	120.0	0.823	0.000	0.823	-9999.0	-9999.0	2.33	0.52	1.55	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.128	0.6
13.779	2.30	2.72	0.01	0.37	39.74	1.0E-07	120.0	0.827	0.000	0.827	-9999.0	-9999.0	2.30	0.53	1.51	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.127	0.6
13.845	1.02	1.45	0.01	0.69	39.78	1.0E-07	120.0	0.831	0.000	0.831	-9999.0	-9999.0	0.75	1.61	4.61	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.041	0.5
13.911	1.98	2.43	0.01	0.41	41.16	1.0E-07	120.0	0.835	0.000	0.835	-9999.0	-9999.0	1.91	0.63	1.86	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.106	0.6
13.976	1.98	2.45	0.01	0.41	42.84	1.0E-07	120.0	0.839	0.000	0.839	-9999.0	-9999.0	1.92	0.62	1.92	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.107	0.6
14.042	3.20	3.67	0.01	0.27	43.77	1.0E-07	120.0	0.843	0.000	0.843	-9999.0	-9999.0	3.36	0.35	1.11	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.189	0.8
14.107	4.66	5.11	0.01	0.20	41.14	1.0E-07	120.0	0.846	0.000	0.846	-9999.0	-9999.0	5.03	0.24	0.70	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.284	1.1
14.173	4.34	4.71	0.01	0.21	34.33	1.0E-07	120.0	0.850	0.000	0.850	-9999.0	-9999.0	4.54	0.26	0.64	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.257	1.0
14.239	5.24	5.59	0.01	0.18	31.72	1.0E-07	120.0	0.854	0.000	0.854	-9999.0	-9999.0	5.54	0.21	0.48	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.315	1.2
14.304	5.04	5.41	0.01	0.19	33.99	1.0E-07	120.0	0.858	0.000	0.858	-9999.0	-9999.0	5.30	0.22	0.54	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.303	1.2
14.370	6.06	6.46	0.02	0.31	36.84	1.0E-07	120.0	0.862	0.000	0.862	-9999.0	-9999.0	6.50	0.36	0.47	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.373	1.5
14.436	5.55	5.93	0.02	0.34	34.63	1.0E-07	120.0	0.866	0.000	0.866	-9999.0	-9999.0	5.84	0.40	0.49	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.337	1.3
14.501	4.92	5.29	0.01	0.19	34.05	1.0E-07	120.0	0.870	0.000	0.870	-9999.0	-9999.0	5.08	0.23	0.55	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.295	1.1
14.567	5.75	6.16	0.02	0.33	37.39	1.0E-07	120.0	0.874	0.000	0.874	-9999.0	-9999.0	6.05	0.38	0.51	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.352	1.4
14.632	5.04	5.49	0.03	0.55	41.26	1.0E-07	120.0	0.878	0.000	0.878	1.7	1.7	5.25	0.65	0.64	54.4	-9999.0	-9999.0	-9999.0	-9999.0	0.307	1.2
14.698	4.92	5.40	0.03	0.56	44.29	1.0E-07	120.0	0.882	0.000	0.882	1.7	1.7	5.12	0.67	0.71	55.2	-9999.0	-9999.0	-9999.0	-9999.0	0.301	1.1
14.764	4.92	5.44	0.03	0.55	48.20	1.0E-07	120.0	0.886	0.000	0.886	1.7	1.7	5.14	0.66	0.76	55.1	-9999.0	-9999.0	-9999.0	-9999.0	0.304	1.1
14.829	5.87	6.39	0.04	0.63	47.36	1.0E-07	120.0	0.890	0.000	0.890	1.9	2.0	6.18	0.73	0.62	51.4	-9999.0	-9999.0	-9999.0	-9999.0	0.366	1.4
14.895	6.06	6.53	0.03	0.46	42.78	1.0E-07	120.0	0.894	0.000	0.894	1.9	1.9	6.30	0.53	0.55	48.0	-9999.0	-9999.0	-9999.0	-9999.0	0.376	1.4
14.960	6.13	6.71	0.04	0.60	52.86	1.0E-07	120.0	0.898	0.000	0.898	2.0	2.0	6.47	0.69	0.66	49.7	-9999.0	-9999.0	-9999.0	-9999.0	0.387	1.5
15.026	7.86	8.45	0.06	0.71	54.51	1.0E-07	120.0	0.902	0.000	0.902	2.4	2.5	8.37	0.80	0.52	45.0	-9999.0	-9999.0	-9999.0	-9999.0	0.503	2.0
15.092	7.22	7.91	0.05	0.63	64.00	1.0E-07	120.0	0.906	0.000	0.906	2.3	2.3	7.73	0.72	0.66	45.8	-9999.0	-9999.0	-9999.0	-9999.0	0.467	1.8
15.157	7.54	8.23	0.07	0.85	63.86	1.0E-07	120.0	0.909	0.000	0.909	2.4	2.5	8.05	0.96	0.63	47.9	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.9
15.223	7.54	8.24	0.09	1.09	64.88	5.0E-06	120.0	0.913	0.000	0.913	2.5	2.5	8.02	1.23	0.64	50.8	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.9
15.289	7.35	8.12	0.08	0.99	71.40	1.0E-07	120.0	0.917	0.000	0.917	2.4	2.5	7.85	1.11	0.71	50.1	-9999.0	-9999.0	-9999.0	-9999.0	0.480	1.8
15.354	7.99	8.84	0.08	0.91	78.77	5.0E-06	120.0	0.921	0.000	0.921	2.6	2.6	8.60	1.01	0.72	46.9	-9999.0	-9999.0	-9999.0	-9999.0	0.528	2.1
15.420	8.43	9.17	0.08	0.87	68.02	5.0E-06	120.0	0.925	0.000	0.925	2.6	2.7	8.91	0.97	0.59	45.7	-9999.0	-9999.0	-9999.0	-9999.0	0.549	2.2
15.485	8.05	8.68	0.08	0.92	58.21	5.0E-06	120.0	0.929	0.000	0.929	2.5	2.6	8.34	1.03	0.54	47.9	-9999.0	-9999.0	-9999.0	-9999.0	0.517	2.0
15.551	6.90	7.61	0.07	0.92	65.61	1.0E-07	120.0	0.933	0.000	0.933	2.3	2.3	7.15	1.05	0.71	51.7	-9999.0	-9999.0	-9999.0	-9999.0	0.445	1.6
15.617	6.13	6.85	0.07	1.02	66.07	1.0E-07	120.0	0.937	0.000	0.937	2.2	2.1	6.31	1.19	0.80	56.3	-9999.0	-9999.0	-9999.0	-9999.0	0.394	1.4
15.682	4.98	5.67	0.07	1.24	63.50	1.0E-07	120.0	0.941	0.000	0.941	2.0	1.8	5.02	1.48	0.97	65.4	-9999.0	-9999.0	-9999.0	-9999.0	0.315	1.1
15.748	5.87	6.61	0.05	0.76	68.40	1.0E-07	120.0	0.945	0.000	0.945	2.1	1.9	6.00	0.88	0.87	54.1	-9999.0	-9999.0	-9999.0	-9999.0	0.378	1.3
15.813	7.22	8.01	0.06	0.75	73.03	1.0E-07	120.0	0.949	0.000	0.949	2.4	2.3	7.44	0.85	0.75	48.4	-9999.0	-9999.0	-9999.0	-9999.0	0.471	1.7
15.879	7.48	8.07	0.06	0.74	55.11	1.0E-07	120.0	0.953	0.000	0.953	2.4	2.3	7.47	0.84	0.56	48.2	-9999.0	-9999.0	-9999.0	-9999.0	0.475	1.7
15.945	6.97	7.61	0.06	0.79	59.77	1.0E-07	120.0	0.957	0.000	0.957	2.3	2.2	6.96	0.90	0.65	50.7	-9999.0	-9999.0	-9999.0	-9999.0	0.444	1.6
16.010	6.52	7.21	0.09	1.25	64.41	5.0E-06	120.0	0.961	0.000	0.961	2.3	2.2	6.51	1.44	0.74	58.0	-9999.0	-9999.0	-9999.0	-9999.0	0.417	1.5
16.076	6.33	6.87	0.08	1.17	50.19	1.0E-07	120.0	0.965	0.000	0.965	2.2	2.1	6.12	1.36	0.61	58.8	-9999.0	-9999.0	-9999.0	-9999.0	0.394	1.4
16.142	4.98	5.56	0.08	1.44	53.10	1.0E-07	120.0	0.969	0.000	0.969	2.0	1.8	4.74	1.75	0.83	69.5	-9999.0	-9999.0	-9999.0	-9999.0	0.306	1.0
16.207	5.30	5.97	0.08	1.34	61.53	1.0E-07	120.0	0.972	0.000	0.972	2.1	1.9	5.14	1.61	0.89	65.9	-9999.0	-9999.0	-9999.0	-9999.0	0.333	1.1
16.273	5.81	6.47	0.05	0.77	60.68	1.0E-07	120.0	0.976	0.000	0.976	2.1	1.9	5.63	0.91	0.80	56.1	-9999.0	-9999.0	-9999.0	-9999.0	0.366	1.2
16.338	5.36	5.96	0.04	0.67	54.88	1.0E-07	120.0	0.980	0.000	0.980	1.9	1.7	5.08	0.81	0.79	57.5	-9999.0	-9999.0	-9999.0	-9999.0	0.332	1.1
16.404	4.85	5.39	0.04	0.74	49.67	1.0E-07	120.0	0.984	0.000	0.984	1.8	1.6	4.47	0.91	0.81	62.3	-9999.0	-9999.0	-9999.0	-9999.0	0.294	1.0
16.470	4.15	4.69	0.05	1.07	49.65	1.0E-07	120.0	0.988	0.000	0.988	1.7	1.4	3.74	1.36	0.97	72.7	-9999.0	-9999.0	-9999.0	-9999.0	0.247	0.9
16.535	4.28	4.78	0.05	1.05	46.40	1.0E-07	120.0	0.992	0.000	0.992	1.8	1.5	3.82	1.32	0.88	71.8	-9999.0	-9999.0	-9999.0	-9999.0	0.253	0.9
16.601	4.98	5.48	0.04	0.73	45.77	1.0E-07	120.0	0.996	0.000	0.996	1.8	1.6	4.50	0.89	0.74	62.0	-9999.0	-9999.0	-9999.0	-9999.0	0.299	1.0
16.666	6.90	7.43	0.02	0.27	49.01	1.0E-07	120.0	1.000	0.000	1.000	-9999.0	-9999.0	6.43	0.31	0.55	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.428	1.4
16.732	8.43	8.77	0.04	0.46	31.56	1.0E-07	120.0	1.004	0.000	1.004	2.5	2.3	7.74	0.52	0.29	42.9	-9999.0	-9999.0	-9999.0	-9999.0	0.518	1.8
16.798	7.09	7.29	0.04	0.55	18.92	1.0E-07	120.0	1.008	0.000	1.008	2.2	1.9	6.23	0.64	0.22	49.8	-9999.0	-9999.0	-9999.0	-9999.0	0.419	1.4
16.863	5.49	5.75	0.06	1.05	23.40	1.0E-07	120.0	1.012	0.000	1.012	2.0	1.7	4.68	1.27	0.36	65.3	-9999.0	-9999.0	-9999.0	-9999.0	0.316	1.0
16.929	3.51	3.84	0.04	1.04	30.56	1.0E-07	120.0	1.016	0.000	1.016	1.6	1.2	2.78	1.42	0.78	83.0	-9999.0	-9999.0	-9999.0	-9999.0	0.188	0.7
16.995	3.01	3.47	0.06	1.73	42.86	1.0E-07	120.0	1.020	0.000	1.020	1.6	1.2	2.40	2.45	1.26	97.4	-9999.0	-9999.0	-9999.0	-9999.0	0.163	0.6
17.060	2.81	3.31	0.07	2.12	46.99	1.0E-07	120.0	1.024	0.000	1.024	1.6	1.2	2.24	3.06	1.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.153	0.6
17.126	4.53	5.08	0.09	1.78	50.96	5.0E-07	120.0	1.028	0.000	1.028	2.0	1.6	3.95	2.23	0.91	78.9	-9999.0	-9999.0	-9999.0	-9999.0	0.270	0.9
17.191	8.81	9.34	0.12	1.29	49.36	5.0E-06	120.0	1.032	0.000	1.032	2.9	2.6	8.06	1.45	0.43	52.7	-9999.0	-9999.0	-9999.0	-9999.0	0.554	1.9
17.257	14.05	14.33	0.15	1.05	25.46	5.0E-05	120.0	1.035	0.000	1.035	3.9	3.6	12.84	1.13	0.14	39.6	30.0	30.0	-9999.0	-9999.0	0.886	3.6
17.323	17.18	17.21	0.20	1.16	2.86	5.0E-05	120.0	1.039	0.000	1.039	4.5	4.3	15.56	1.24	0.01	36.8	30.0	32.0	-9999.0	-9999.0	1.078	4.8
17.388	17.50	17.51	0.24	1.37	0.55	5.0E-05	120.0	1.043	0.000	1.043	4.7	4.4	15.78	1.46	0.00	38.4	30.0	32.0	-9999.0	-9999.0	1.098	4.9
17.454	18.72	18.73	0.29	1.55	1.56	5.0E-05	120.0	1.047	0.000	1.047	5.0	4.7	16.89	1.64	0.01	38.5	30.0	32.0	-9999.0	-9999.0	1.179	5.5
17.519	21.08	21.10	0.33	1.57	2.02	5.0E-05	120.0	1.051	0.000	1.051	5.5	5.2	19.08	1.65	0.01	36.3	30.0	32.0	-9999.0	-9999.0	1.337	6.6
17.585	24.59	24.62	0.32	1.30	2.74	5.0E-05	120.0	1.055	0.000	1.055	6.1	6.0	22.33	1.36	0.01	30.6	30.0	34.0	-9999.0	-9999.0	1.571	8.4
17.651	31.50	31.53	0.33	1.05	2.78	5.0E-04	120.0	1.059	0.000	1.059	7.3	7.2	28.77	1.09	0.01	24.6	32.7	36.0	-9999.0	-9999.0	-9999.0	-9999.0
17.716	37.43	37.44	0.35	0.94	0.71	5.0E-04	120.0	1.063	0.000	1.063	8.3	8.2	34.22	0.96	0.00	21.3	37.6	36.0	3.550	132.9	-9999.0	-9999.0
17.782	44.15	44.14	0.41	0.93	-0.22	5.0E-04	120.0	1.067	0.000	1.067	9.5	9.4	40.38	0.95	0.00	19.1	42.3	38.0	3.288	145.2	-9999.0	-9999.0
17.848	53.02	53.02	0.48	0.91	0.28	5.0E-04	120.0	1.071	0.000	1.071	11.1	11.0	48.51	0.93	0.00	16.8	47.5	38.0	3.004	159.3	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
17.913	61.14	61.15	0.57	0.93	1.04	5.0E-03	120.0	1.075	0.000	1.075	12.6	12.4	55.89	0.95	0.00	15.4	51.5	40.0	2.797	171.0	-9999.0	-9999.0
17.979	70.59	70.60	0.63	0.89	1.04	5.0E-03	120.0	1.079	0.000	1.079	14.2	14.0	64.45	0.91	0.00	13.6	55.6	40.0	2.608	184.1	-9999.0	-9999.0
18.044	78.19	78.20	0.67	0.86	1.13	5.0E-03	120.0	1.083	0.000	1.083	15.5	15.2	71.23	0.87	0.00	12.4	58.5	40.0	2.489	194.6	-9999.0	-9999.0
18.110	85.41	85.42	0.77	0.90	1.50	5.0E-03	120.0	1.087	0.000	1.087	16.8	16.4	77.61	0.92	0.00	11.9	60.9	40.0	2.398	204.8	-9999.0	-9999.0
18.176	89.44	89.45	0.92	1.03	1.25	5.0E-03	120.0	1.091	0.000	1.091	17.7	17.3	81.02	1.04	0.00	12.5	62.2	42.0	2.355	210.7	-9999.0	-9999.0
18.241	92.69	92.69	1.12	1.21	-0.71	5.0E-03	120.0	1.095	0.000	1.095	18.6	18.1	83.68	1.23	0.00	13.3	63.2	42.0	2.325	215.5	-9999.0	-9999.0
18.307	96.07	96.07	1.30	1.36	-0.63	5.0E-03	120.0	1.098	0.000	1.098	19.4	18.9	86.46	1.37	0.00	13.9	64.2	42.0	2.296	220.6	-9999.0	-9999.0
18.372	92.05	92.04	1.50	1.63	-1.23	5.0E-04	120.0	1.102	0.000	1.102	19.1	18.6	82.49	1.65	0.00	16.0	62.9	42.0	2.336	215.0	-9999.0	-9999.0
18.438	81.20	81.19	1.66	2.05	-0.73	5.0E-04	120.0	1.106	0.000	1.106	17.6	17.1	72.39	2.08	0.00	19.4	59.2	40.0	2.464	200.1	-9999.0	-9999.0
18.504	68.99	69.00	1.78	2.59	0.98	5.0E-05	120.0	1.110	0.000	1.110	15.8	15.3	61.15	2.63	0.00	23.9	54.5	40.0	2.662	183.7	4.526	10.0
18.569	61.96	61.94	1.43	2.31	-1.66	5.0E-05	120.0	1.114	0.000	1.114	14.2	13.7	54.59	2.36	0.00	23.9	51.4	40.0	2.813	174.2	4.055	10.0
18.635	63.95	64.02	1.33	2.08	7.38	5.0E-04	120.0	1.118	0.000	1.118	14.4	13.9	56.26	2.12	0.01	22.4	52.3	40.0	2.769	177.3	-9999.0	-9999.0
18.701	71.67	71.79	1.32	1.84	10.61	5.0E-04	120.0	1.122	0.000	1.122	15.7	15.1	62.98	1.87	0.01	19.8	55.5	40.0	2.621	188.1	-9999.0	-9999.0
18.766	79.40	79.46	1.32	1.67	4.90	5.0E-04	120.0	1.126	0.000	1.126	16.9	16.3	69.56	1.69	0.00	17.7	58.4	40.0	2.502	198.8	-9999.0	-9999.0
18.832	73.98	73.96	1.34	1.82	-2.04	5.0E-04	120.0	1.130	0.000	1.130	16.0	15.4	64.45	1.84	0.00	19.4	56.3	40.0	2.590	191.5	-9999.0	-9999.0
18.897	54.23	54.20	1.23	2.27	-2.53	5.0E-05	120.0	1.134	0.000	1.134	12.6	12.1	46.80	2.32	0.00	25.5	47.3	38.0	3.028	164.1	3.538	10.0
18.963	47.01	46.98	1.14	2.43	-3.56	5.0E-05	120.0	1.138	0.000	1.138	11.3	10.8	40.29	2.49	-0.01	28.3	43.1	38.0	3.257	153.0	3.056	10.0
19.029	40.06	40.02	1.13	2.83	-3.12	5.0E-05	120.0	1.142	0.000	1.142	10.1	9.6	34.05	2.91	-0.01	32.7	38.5	36.0	3.520	140.9	2.592	10.0
19.094	35.65	35.63	1.12	3.15	-1.80	5.0E-06	120.0	1.146	0.000	1.146	9.4	8.3	30.10	3.26	0.00	37.3	-9999.0	-9999.0	-9999.0	-9999.0	2.299	10.0
19.160	30.47	30.48	0.94	3.09	0.16	5.0E-06	120.0	1.150	0.000	1.150	8.3	7.2	25.51	3.21	0.00	40.0	-9999.0	-9999.0	-9999.0	-9999.0	1.955	10.0
19.225	23.77	23.75	1.00	4.22	-1.90	5.0E-07	120.0	1.154	0.000	1.154	7.1	6.1	19.59	4.44	-0.01	50.1	-9999.0	-9999.0	-9999.0	-9999.0	1.506	6.9
19.291	20.38	20.37	0.98	4.82	-0.55	5.0E-08	120.0	1.157	0.000	1.157	6.5	5.5	16.60	5.11	0.00	56.0	-9999.0	-9999.0	-9999.0	-9999.0	1.281	5.3
19.357	20.25	20.27	0.89	4.40	2.35	5.0E-08	120.0	1.161	0.000	1.161	6.3	5.4	16.46	4.67	0.01	54.6	-9999.0	-9999.0	-9999.0	-9999.0	1.274	5.2
19.422	22.04	22.09	0.76	3.45	4.68	5.0E-06	120.0	1.165	0.000	1.165	6.5	5.5	17.96	3.64	0.02	48.5	-9999.0	-9999.0	-9999.0	-9999.0	1.395	6.0
19.488	22.81	22.83	0.66	2.90	2.47	5.0E-06	120.0	1.169	0.000	1.169	6.5	5.5	18.53	3.05	0.01	45.1	-9999.0	-9999.0	-9999.0	-9999.0	1.444	6.3
19.554	28.81	28.82	0.62	2.16	0.92	5.0E-05	120.0	1.173	0.000	1.173	7.5	6.4	23.56	2.25	0.00	36.4	30.0	34.0	-9999.0	-9999.0	1.843	9.2
19.619	25.93	25.92	0.63	2.44	-0.83	5.0E-05	120.0	1.177	0.000	1.177	7.0	6.0	21.02	2.55	0.00	40.1	30.0	34.0	-9999.0	-9999.0	1.650	7.7
19.685	22.04	22.03	0.53	2.41	-1.02	5.0E-06	120.0	1.181	0.000	1.181	6.2	5.2	17.65	2.55	0.00	43.4	-9999.0	-9999.0	-9999.0	-9999.0	1.390	5.8
19.750	17.82	17.81	0.46	2.59	-1.25	5.0E-06	120.0	1.185	0.000	1.185	5.3	4.4	14.03	2.77	-0.01	49.4	-9999.0	-9999.0	-9999.0	-9999.0	1.108	4.1
19.816	13.67	13.67	0.40	2.93	-0.51	5.0E-06	120.0	1.189	0.000	1.189	4.4	3.5	10.50	3.21	0.00	58.3	-9999.0	-9999.0	-9999.0	-9999.0	0.832	2.7
19.882	10.61	10.60	0.35	3.31	-0.94	5.0E-07	120.0	1.193	0.000	1.193	3.8	2.9	7.88	3.73	-0.01	68.1	-9999.0	-9999.0	-9999.0	-9999.0	0.627	1.9
19.947	7.35	7.35	0.36	4.91	0.14	5.0E-08	120.0	1.197	0.000	1.197	3.2	2.3	5.14	5.87	0.00	89.8	-9999.0	-9999.0	-9999.0	-9999.0	0.410	1.1
20.013	7.16	7.17	0.32	4.48	0.85	5.0E-08	120.0	1.201	0.000	1.201	3.1	2.2	4.97	5.38	0.01	88.9	-9999.0	-9999.0	-9999.0	-9999.0	0.398	1.1
20.078	6.20	6.23	0.29	4.67	2.94	5.0E-08	120.0	1.205	0.000	1.205	2.9	2.0	4.17	5.79	0.04	96.3	-9999.0	-9999.0	-9999.0	-9999.0	0.335	0.9
20.144	6.78	6.83	0.25	3.67	4.70	5.0E-08	120.0	1.209	0.000	1.209	2.9	2.0	4.65	4.46	0.06	87.0	-9999.0	-9999.0	-9999.0	-9999.0	0.375	1.0
20.210	6.78	6.85	0.27	3.95	6.99	5.0E-08	120.0	1.213	0.000	1.213	2.9	2.1	4.65	4.80	0.09	88.5	-9999.0	-9999.0	-9999.0	-9999.0	0.376	1.0
20.275	7.73	7.82	0.30	3.84	8.69	5.0E-08	120.0	1.217	0.000	1.217	3.2	2.3	5.43	4.55	0.09	82.6	-9999.0	-9999.0	-9999.0	-9999.0	0.440	1.2
20.341	8.62	8.72	0.33	3.79	9.40	5.0E-08	120.0	1.220	0.000	1.220	3.4	2.5	6.15	4.41	0.09	78.2	-9999.0	-9999.0	-9999.0	-9999.0	0.500	1.4
20.407	8.24	8.33	0.39	4.70	8.02	5.0E-08	120.0	1.224	0.000	1.224	3.4	2.5	5.80	5.50	0.08	84.6	-9999.0	-9999.0	-9999.0	-9999.0	0.473	1.3
20.472	8.69	8.73	0.44	5.05	3.87	5.0E-08	120.0	1.228	0.000	1.228	3.6	2.6	6.11	5.88	0.04	84.5	-9999.0	-9999.0	-9999.0	-9999.0	0.500	1.4
20.538	8.18	8.20	0.48	5.87	2.17	5.0E-08	120.0	1.232	0.000	1.232	3.6	2.6	5.66	6.90	0.02	90.5	-9999.0	-9999.0	-9999.0	-9999.0	0.465	1.3
20.603	7.60	7.62	0.49	6.45	1.74	5.0E-08	120.0	1.236	0.000	1.236	3.5	2.5	5.16	7.70	0.02	96.1	-9999.0	-9999.0	-9999.0	-9999.0	0.425	1.1
20.669	6.71	6.73	0.51	7.60	1.74	5.0E-08	120.0	1.240	0.000	1.240	3.4	2.3	4.42	9.32	0.02	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.366	1.0
20.735	6.84	6.86	0.48	7.01	2.23	5.0E-08	120.0	1.244	0.000	1.244	3.4	2.3	4.51	8.57	0.03	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.374	1.0
20.800	7.03	7.08	0.43	6.09	4.92	5.0E-08	120.0	1.248	0.000	1.248	3.3	2.3	4.67	7.39	0.06	98.3	-9999.0	-9999.0	-9999.0	-9999.0	0.389	1.0
20.866	6.46	6.56	0.42	6.42	9.22	5.0E-08	120.0	1.252	0.000	1.252	3.2	2.2	4.24	7.94	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.354	0.9
20.932	7.41	7.50	0.42	5.62	8.30	5.0E-08	120.0	1.256	0.000	1.256	3.4	2.3	4.97	6.75	0.10	94.1	-9999.0	-9999.0	-9999.0	-9999.0	0.416	1.1
20.997	8.05	8.14	0.38	4.68	8.83	5.0E-08	120.0	1.260	0.000	1.260	3.4	2.4	5.46	5.53	0.09	86.6	-9999.0	-9999.0	-9999.0	-9999.0	0.459	1.2
21.063	7.73	7.83	0.38	4.87	9.07	5.0E-08	120.0	1.264	0.000	1.264	3.4	2.3	5.19	5.80	0.10	89.2	-9999.0	-9999.0	-9999.0	-9999.0	0.438	1.1
21.128	7.99	8.09	0.39	4.83	9.34	5.0E-08	120.0	1.268	0.000	1.268	3.4	2.4	5.38	5.73	0.10	87.8	-9999.0	-9999.0	-9999.0	-9999.0	0.455	1.2
21.194	8.69	8.80	0.43	4.90	10.37	5.0E-08	120.0	1.272	0.000	1.272	3.6	2.6	5.92	5.72	0.10	84.9	-9999.0	-9999.0	-9999.0	-9999.0	0.502	1.3
21.260	8.81	8.92	0.47	5.28	10.45	5.0E-08	120.0	1.276	0.000	1.276	3.7	2.6	6.00	6.16	0.10	86.1	-9999.0	-9999.0	-9999.0	-9999.0	0.510	1.3
21.325	7.86	7.95	0.47	5.92	8.65	5.0E-08	120.0	1.280	0.000	1.280	3.6	2.4	5.22	7.06	0.09	93.6	-9999.0	-9999.0	-9999.0	-9999.0	0.445	1.2
21.391	7.92	7.99	0.43	5.39	6.77	5.0E-08	120.0	1.283	0.000	1.283	3.5	2.4	5.23	6.43	0.07	91.3	-9999.0	-9999.0	-9999.0	-9999.0	0.447	1.2
21.456	7.35	7.42	0.39	5.27	6.58	5.0E-08	120.0	1.287	0.000	1.287	3.3	2.2	4.76	6.38	0.08	94.1	-9999.0	-9999.0	-9999.0	-9999.0	0.409	1.1
21.522	5.87	5.96	0.34	5.72	8.06	5.0E-08	120.0	1.291	0.000	1.291	3.0	1.9	3.62	7.30	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.311	0.8
21.588	6.52	6.62	0.32	4.85	9.34	5.0E-08	120.0	1.295	0.000	1.295	3.1	2.0	4.11	6.03	0.13	97.7	-9999.0	-9999.0	-9999.0	-9999.0	0.355	0.9
21.653	5.55	5.66	0.26	4.60	9.93	5.0E-08	120.0	1.299	0.000	1.299	2.8	1.7	3.36	5.98	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.8
21.719	5.81	5.92	0.21	3.56	9.87	5.0E-08	120.0	1.303	0.000	1.303	2.7	1.7	3.54	4.56	0.15	96.4	-9999.0	-9999.0	-9999.0	-9999.0	0.308	0.8
21.785	5.75	5.86	0.16	2.74	10.08	5.0E-08	120.0	1.307	0.000	1.307	2.6	1.6	3.49	3.52	0.16	91.4	-9999.0	-9999.0	-9999.0	-9999.0	0.304	0.8
21.850	4.73	4.85	0.19	3.93	10.51	5.0E-08	120.0	1.311	0.000	1.311	2.5	1.5	2.70	5.39	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.236	0.7
21.916	5.11	5.23	0.22	4.22	11.08	5.0E-08	120.0	1.315	0.000	1.315	2.7	1.6	2.98	5.63	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.261	0.7
21.981	5.36	5.48	0.19	3.47	11.16	5.0E-08	120.0	1.319	0.000	1.319	2.6	1.6	3.16	4.57	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.278	0.8
22.047	5.81	5.94	0.19	3.21	11.69	5.0E-08	120.0	1.323	0.000	1.323	2.7	1.6	3.49	4.12	0.18	94.7	-9999.0	-9999.0	-9999.0	-9999.0	0.308	0.8
22.113	9.26	9.34	0.15	1.61	6.97	5.0E-06	120.0	1.327	0.000	1.327	3.2	2.1	6.04	1.88	0.06	63.8	-9999.0	-9999.0	-9999.0	-9999.0	0.534	1.3
22.178	8.11	8.16	0.15	1.84	4.68	5.0E-06	120.0	1.331	0.000	1.331	3.0	1.9	5.13	2.20	0.05	70.8	-9999.0	-9999.0	-9999.0	-9999.0	0.455	1.1
22.244	5.87	5.93	0.16	2.71	5.07	5.0E-08	120.0	1.335	0.000	1.335	2.6	1.6	3.44	3.49	0.08	91.7	-9999.0	-9999.0	-9999.0	-9999.0	0.306	0.8
22.309	4.98	5.06	0.15	2.97	6.91	5.0E-08	120.0	1.339	0.000	1.339	2.5	1.4	2.78	4.04	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.248	0.7

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
22.375	4.66	4.75	0.14	2.95	8.46	5.0E-08	120.0	1.343	0.000	1.343	2.4	1.3	2.54	4.12	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.227	0.7
22.441	4.09	4.21	0.13	3.10	10.85	5.0E-08	120.0	1.346	0.000	1.346	2.3	1.2	2.12	4.56	0.27	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.191	0.6
22.506	4.85	4.99	0.11	2.21	12.76	5.0E-07	120.0	1.350	0.000	1.350	2.3	1.3	2.69	3.03	0.25	97.3	-9999.0	-9999.0	-9999.0	-9999.0	0.243	0.7
22.572	4.79	4.94	0.10	2.03	13.86	5.0E-07	120.0	1.354	0.000	1.354	2.3	1.3	2.65	2.79	0.28	96.4	-9999.0	-9999.0	-9999.0	-9999.0	0.239	0.7
22.638	3.96	4.12	0.08	1.95	14.82	1.0E-07	120.0	1.358	0.000	1.358	2.1	1.1	2.03	2.90	0.39	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.184	0.6
22.703	3.83	4.00	0.09	2.26	15.62	5.0E-08	120.0	1.362	0.000	1.362	2.1	1.1	1.93	3.42	0.43	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.176	0.6
22.769	4.22	4.41	0.07	1.59	17.40	1.0E-07	120.0	1.366	0.000	1.366	2.1	1.1	2.23	2.31	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.203	0.6
22.834	4.73	4.94	0.08	1.62	19.01	1.0E-07	120.0	1.370	0.000	1.370	2.2	1.2	2.60	2.25	0.38	92.9	-9999.0	-9999.0	-9999.0	-9999.0	0.238	0.7
22.900	4.53	4.75	0.10	2.11	20.58	5.0E-07	120.0	1.374	0.000	1.374	2.3	1.2	2.46	2.97	0.44	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.225	0.7
22.966	4.28	4.52	0.10	2.22	22.30	5.0E-08	120.0	1.378	0.000	1.378	2.2	1.2	2.28	3.19	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.210	0.6
23.031	3.90	4.14	0.10	2.42	22.38	5.0E-08	120.0	1.382	0.000	1.382	2.2	1.1	2.00	3.63	0.58	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.184	0.6
23.097	4.34	4.57	0.11	2.42	20.78	5.0E-08	120.0	1.386	0.000	1.386	2.3	1.2	2.29	3.47	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.212	0.6
23.162	4.02	4.27	0.14	3.29	23.15	5.0E-08	120.0	1.390	0.000	1.390	2.4	1.2	2.07	4.87	0.58	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.192	0.6
23.228	4.22	4.49	0.19	4.24	25.12	5.0E-08	120.0	1.394	0.000	1.394	2.6	1.4	2.22	6.15	0.58	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.207	0.6
23.294	6.33	6.60	0.25	3.80	25.04	5.0E-08	120.0	1.398	0.000	1.398	3.0	1.8	3.72	4.82	0.35	95.9	-9999.0	-9999.0	-9999.0	-9999.0	0.347	0.9
23.359	7.22	7.44	0.33	4.45	20.36	5.0E-08	120.0	1.402	0.000	1.402	3.3	2.0	4.31	5.48	0.24	93.9	-9999.0	-9999.0	-9999.0	-9999.0	0.402	1.0
23.425	7.41	7.52	0.39	5.20	10.47	5.0E-08	120.0	1.406	0.000	1.406	3.5	2.1	4.35	6.39	0.12	97.2	-9999.0	-9999.0	-9999.0	-9999.0	0.408	1.0
23.491	8.24	8.31	0.45	5.43	6.15	5.0E-08	120.0	1.409	0.000	1.409	3.7	2.3	4.89	6.54	0.06	93.9	-9999.0	-9999.0	-9999.0	-9999.0	0.460	1.1
23.556	9.07	9.14	0.50	5.48	6.38	5.0E-08	120.0	1.413	0.000	1.413	4.0	2.5	5.47	6.49	0.06	90.1	-9999.0	-9999.0	-9999.0	-9999.0	0.515	1.2
23.622	9.20	9.27	0.55	5.95	5.93	5.0E-08	120.0	1.417	0.000	1.417	4.1	2.5	5.54	7.02	0.05	91.6	-9999.0	-9999.0	-9999.0	-9999.0	0.523	1.2
23.687	8.30	8.36	0.56	6.72	5.37	5.0E-08	120.0	1.421	0.000	1.421	3.9	2.4	4.88	8.09	0.06	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.462	1.1
23.753	8.30	8.35	0.56	6.72	4.86	5.0E-08	120.0	1.425	0.000	1.425	3.9	2.4	4.86	8.10	0.05	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.462	1.1
23.819	8.24	8.30	0.52	6.28	5.65	5.0E-08	120.0	1.429	0.000	1.429	3.9	2.3	4.81	7.59	0.06	98.0	-9999.0	-9999.0	-9999.0	-9999.0	0.458	1.1
23.884	7.41	7.48	0.47	6.30	6.70	5.0E-08	120.0	1.433	0.000	1.433	3.7	2.2	4.22	7.79	0.08	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.403	0.9
23.950	6.33	6.42	0.42	6.56	8.77	5.0E-08	120.0	1.437	0.000	1.437	3.4	1.9	3.47	8.45	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.8
24.015	6.97	7.08	0.39	5.52	10.88	5.0E-08	120.0	1.441	0.000	1.441	3.5	2.0	3.92	6.93	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.376	0.9
24.081	7.28	7.40	0.37	5.01	11.44	5.0E-08	120.0	1.445	0.000	1.445	3.5	2.0	4.12	6.23	0.14	98.3	-9999.0	-9999.0	-9999.0	-9999.0	0.397	0.9
24.147	7.35	7.48	0.34	4.56	11.99	5.0E-08	120.0	1.449	0.000	1.449	3.4	2.0	4.16	5.65	0.14	95.8	-9999.0	-9999.0	-9999.0	-9999.0	0.402	0.9
24.212	7.28	7.41	0.33	4.46	12.20	5.0E-08	120.0	1.453	0.000	1.453	3.4	2.0	4.10	5.55	0.15	95.9	-9999.0	-9999.0	-9999.0	-9999.0	0.397	0.9
24.278	8.30	8.45	0.33	3.92	13.43	5.0E-08	120.0	1.457	0.000	1.457	3.6	2.1	4.80	4.73	0.14	87.2	-9999.0	-9999.0	-9999.0	-9999.0	0.466	1.1
24.344	8.94	9.09	0.36	3.97	13.29	5.0E-08	120.0	1.461	0.000	1.461	3.7	2.2	5.22	4.73	0.13	84.6	-9999.0	-9999.0	-9999.0	-9999.0	0.508	1.2
24.409	9.07	9.22	0.37	4.02	13.27	5.0E-08	120.0	1.465	0.000	1.465	3.8	2.3	5.29	4.79	0.12	84.4	-9999.0	-9999.0	-9999.0	-9999.0	0.517	1.2
24.475	8.18	8.32	0.35	4.22	13.31	5.0E-08	120.0	1.469	0.000	1.469	3.6	2.1	4.67	5.12	0.14	89.8	-9999.0	-9999.0	-9999.0	-9999.0	0.457	1.0
24.540	8.56	8.71	0.30	3.45	13.98	5.0E-08	120.0	1.472	0.000	1.472	3.6	2.1	4.92	4.15	0.14	83.7	-9999.0	-9999.0	-9999.0	-9999.0	0.483	1.1
24.606	7.79	7.94	0.27	3.41	13.63	5.0E-08	120.0	1.476	0.000	1.476	3.4	1.9	4.38	4.19	0.15	87.6	-9999.0	-9999.0	-9999.0	-9999.0	0.431	1.0
24.672	9.45	9.60	0.24	2.51	13.79	5.0E-06	120.0	1.480	0.000	1.480	3.6	2.1	5.49	2.96	0.12	74.0	-9999.0	-9999.0	-9999.0	-9999.0	0.541	1.2
24.737	9.58	9.72	0.22	2.27	12.82	5.0E-06	120.0	1.484	0.000	1.484	3.6	2.1	5.55	2.68	0.11	71.8	-9999.0	-9999.0	-9999.0	-9999.0	0.549	1.2
24.803	10.67	10.80	0.24	2.23	12.76	5.0E-06	120.0	1.488	0.000	1.488	3.8	2.3	6.26	2.58	0.10	67.8	-9999.0	-9999.0	-9999.0	-9999.0	0.621	1.4
24.868	9.13	9.26	0.28	3.03	11.97	5.0E-07	120.0	1.492	0.000	1.492	3.6	2.1	5.21	3.61	0.11	79.2	-9999.0	-9999.0	-9999.0	-9999.0	0.518	1.2
24.934	8.43	8.56	0.30	3.51	11.77	5.0E-08	120.0	1.496	0.000	1.496	3.6	2.0	4.72	4.26	0.12	85.5	-9999.0	-9999.0	-9999.0	-9999.0	0.471	1.0
25.000	7.54	7.66	0.35	4.58	11.22	5.0E-08	120.0	1.500	0.000	1.500	3.5	2.0	4.11	5.70	0.13	96.4	-9999.0	-9999.0	-9999.0	-9999.0	0.411	0.9
25.065	7.09	7.20	0.40	5.57	10.26	5.0E-08	120.0	1.504	0.000	1.504	3.6	2.0	3.79	7.04	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.380	0.9
25.131	7.16	7.27	0.42	5.79	10.65	5.0E-08	120.0	1.508	0.000	1.508	3.6	2.0	3.82	7.30	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.384	0.9
25.197	6.27	6.37	0.42	6.61	9.71	5.0E-08	120.0	1.512	0.000	1.512	3.5	1.9	3.21	8.67	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.324	0.8
25.262	5.94	6.04	0.39	6.48	8.55	5.0E-08	120.0	1.516	0.000	1.516	3.4	1.8	2.98	8.65	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.301	0.7
25.328	5.43	5.54	0.35	6.34	9.54	5.0E-08	120.0	1.520	0.000	1.520	3.3	1.7	2.64	8.74	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.268	0.7
25.393	6.20	6.38	0.33	5.18	17.36	5.0E-08	120.0	1.524	0.000	1.524	3.3	1.7	3.19	6.81	0.26	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.324	0.8
25.459	7.22	7.43	0.31	4.18	19.75	5.0E-08	120.0	1.528	0.000	1.528	3.4	1.9	3.86	5.26	0.24	96.6	-9999.0	-9999.0	-9999.0	-9999.0	0.394	0.9
25.525	7.41	7.62	0.32	4.21	19.87	5.0E-08	120.0	1.532	0.000	1.532	3.5	1.9	3.98	5.27	0.23	95.7	-9999.0	-9999.0	-9999.0	-9999.0	0.406	0.9
25.590	7.67	7.83	0.34	4.35	15.11	5.0E-08	120.0	1.535	0.000	1.535	3.6	1.9	4.10	5.41	0.17	95.3	-9999.0	-9999.0	-9999.0	-9999.0	0.420	0.9
25.656	6.52	6.63	0.36	5.44	10.98	5.0E-08	120.0	1.539	0.000	1.539	3.5	1.8	3.31	7.08	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.340	0.8
25.721	5.43	5.55	0.36	6.51	10.57	5.0E-08	120.0	1.543	0.000	1.543	3.4	1.7	2.59	9.01	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.267	0.7
25.787	6.00	6.12	0.36	5.89	11.14	5.0E-08	120.0	1.547	0.000	1.547	3.4	1.7	2.96	7.88	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.305	0.7
25.853	6.46	6.60	0.38	5.77	13.73	5.0E-08	120.0	1.551	0.000	1.551	3.5	1.8	3.26	7.54	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.337	0.8
25.918	7.03	7.21	0.39	5.43	16.57	5.0E-08	120.0	1.555	0.000	1.555	3.6	1.9	3.63	6.92	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.377	0.8
25.984	6.84	7.04	0.39	5.56	18.37	5.0E-08	120.0	1.559	0.000	1.559	3.6	1.9	3.51	7.14	0.24	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.365	0.8
26.050	7.41	7.58	0.39	5.15	16.35	5.0E-08	120.0	1.563	0.000	1.563	3.7	1.9	3.85	6.49	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.401	0.9
26.115	6.39	6.52	0.38	5.84	12.61	5.0E-08	120.0	1.567	0.000	1.567	3.5	1.8	3.16	7.69	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.330	0.8
26.181	6.84	6.96	0.39	5.62	10.98	5.0E-08	120.0	1.571	0.000	1.571	3.6	1.9	3.43	7.26	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.359	0.8
26.246	6.52	6.64	0.41	6.19	11.20	5.0E-08	120.0	1.575	0.000	1.575	3.6	1.8	3.21	8.12	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.337	0.8
26.312	6.58	6.71	0.42	6.27	12.76	5.0E-08	120.0	1.579	0.000	1.579	3.7	1.8	3.25	8.20	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.342	0.8
26.378	6.78	6.94	0.40	5.78	15.27	5.0E-08	120.0	1.583	0.000	1.583	3.6	1.9	3.39	7.48	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.357	0.8
26.443	7.99	8.18	0.38	4.66	17.80	5.0E-08	120.0	1.587	0.000	1.587	3.8	2.0	4.16	5.78	0.19	96.3	-9999.0	-9999.0	-9999.0	-9999.0	0.440	0.9
26.509	7.67	7.89	0.39	4.95	20.56	5.0E-08	120.0	1.591	0.000	1.591	3.7	2.0	3.96	6.21	0.23	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.420	0.9
26.574	9.01	9.24	0.41	4.45	20.68	5.0E-08	120.0	1.595	0.000	1.595	4.0	2.2	4.79	5.38	0.19	90.0	-9999.0	-9999.0	-9999.0	-9999.0	0.509	1.1
26.640	8.88	9.10	0.41	4.52	19.95	5.0E-08	120.0	1.598	0.000	1.598	4.0	2.1	4.69	5.48	0.19	91.1	-9999.0	-9999.0	-9999.0	-9999.0	0.500	1.0
26.706	8.50	8.70	0.41	4.73	18.21	5.0E-08	120.0	1.602	0.000	1.602	3.9	2.1	4.43	5.79	0.18	94.3	-9999.0	-9999.0	-9999.0	-9999.0	0.473	1.0
26.771	8.62	8.79	0.43	4.91	15.45	5.0E-08	120.0	1.606	0.000	1.606	4.0	2.1	4.47	6.00	0.15	94.8	-9999.0	-9999.0	-9999.0	-9999.0	0.479	1.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
26.837	8.62	8.77	0.44	5.03	13.88	5.0E-08	120.0	1.610	0.000	1.610	4.0	2.1	4.45	6.16	0.14	95.6	-9999.0	-9999.0	-9999.0	-9999.0	0.477	1.0
26.903	8.62	8.77	0.43	4.92	13.51	5.0E-08	120.0	1.614	0.000	1.614	4.0	2.1	4.43	6.03	0.14	95.2	-9999.0	-9999.0	-9999.0	-9999.0	0.477	1.0
26.968	8.18	8.33	0.43	5.18	13.79	5.0E-08	120.0	1.618	0.000	1.618	3.9	2.0	4.15	6.42	0.15	98.9	-9999.0	-9999.0	-9999.0	-9999.0	0.447	0.9
27.034	8.11	8.26	0.44	5.34	13.90	5.0E-08	120.0	1.622	0.000	1.622	3.9	2.0	4.09	6.64	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.443	0.9
27.099	7.73	7.89	0.44	5.59	14.88	5.0E-08	120.0	1.626	0.000	1.626	3.9	2.0	3.85	7.04	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.418	0.9
27.165	7.16	7.32	0.41	5.61	15.21	5.0E-08	120.0	1.630	0.000	1.630	3.8	1.9	3.49	7.22	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.379	0.8
27.231	7.22	7.37	0.37	5.04	13.77	5.0E-08	120.0	1.634	0.000	1.634	3.7	1.8	3.51	6.47	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.382	0.8
27.296	6.27	6.42	0.30	4.69	13.96	5.0E-08	120.0	1.638	0.000	1.638	3.4	1.6	2.92	6.29	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.319	0.7
27.362	6.13	6.30	0.26	4.14	14.90	5.0E-08	120.0	1.642	0.000	1.642	3.3	1.5	2.83	5.60	0.23	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.310	0.7
27.427	5.68	5.85	0.24	4.11	15.49	5.0E-08	120.0	1.646	0.000	1.646	3.2	1.4	2.56	5.72	0.27	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.280	0.7
27.493	5.87	6.04	0.22	3.65	15.64	5.0E-08	120.0	1.650	0.000	1.650	3.1	1.4	2.66	5.02	0.26	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.293	0.7
27.559	4.73	4.91	0.21	4.29	16.63	5.0E-08	120.0	1.654	0.000	1.654	3.1	1.3	1.97	6.46	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.217	0.6
27.624	6.27	6.48	0.24	3.71	19.62	5.0E-08	120.0	1.657	0.000	1.657	3.2	1.5	2.91	4.99	0.29	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.321	0.7
27.690	6.78	7.03	0.27	3.85	23.34	5.0E-08	120.0	1.661	0.000	1.661	3.4	1.6	3.23	5.04	0.31	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.358	0.8
27.756	6.46	6.69	0.28	4.19	22.04	5.0E-08	120.0	1.665	0.000	1.665	3.4	1.6	3.02	5.58	0.32	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.335	0.7
27.821	6.33	6.53	0.28	4.30	18.88	5.0E-08	120.0	1.669	0.000	1.669	3.4	1.6	2.91	5.78	0.28	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.324	0.7
27.887	6.13	6.33	0.30	4.75	18.11	5.0E-08	120.0	1.673	0.000	1.673	3.4	1.6	2.78	6.46	0.28	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.310	0.7
27.952	5.68	5.90	0.29	4.92	20.44	5.0E-08	120.0	1.677	0.000	1.677	3.4	1.5	2.52	6.88	0.35	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.282	0.7
28.018	5.30	5.55	0.28	5.06	22.50	5.0E-08	120.0	1.681	0.000	1.681	3.3	1.4	2.30	7.26	0.42	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.258	0.6
28.084	5.94	6.20	0.26	4.20	23.73	5.0E-08	120.0	1.685	0.000	1.685	3.3	1.5	2.68	5.77	0.38	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.301	0.7
28.149	6.20	6.48	0.24	3.71	26.02	5.0E-08	120.0	1.689	0.000	1.689	3.3	1.5	2.83	5.03	0.39	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.319	0.7
28.215	6.46	6.77	0.22	3.26	28.70	5.0E-08	120.0	1.693	0.000	1.693	3.3	1.5	3.00	4.35	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.338	0.7
28.280	5.75	6.06	0.23	3.80	28.72	5.0E-08	120.0	1.697	0.000	1.697	3.2	1.4	2.57	5.28	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.7
28.346	5.75	6.07	0.19	3.14	29.13	5.0E-08	120.0	1.701	0.000	1.701	3.1	1.4	2.57	4.36	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.7
28.412	5.75	6.08	0.23	3.79	30.46	5.0E-08	120.0	1.705	0.000	1.705	3.2	1.4	2.57	5.27	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.292	0.7
28.477	5.87	6.22	0.26	4.19	32.05	5.0E-08	120.0	1.709	0.000	1.709	3.3	1.5	2.64	5.78	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.301	0.7
28.543	6.20	6.56	0.27	4.13	33.60	5.0E-08	120.0	1.713	0.000	1.713	3.4	1.5	2.83	5.59	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.323	0.7
28.609	6.46	6.82	0.28	4.12	33.36	5.0E-08	120.0	1.717	0.000	1.717	3.5	1.6	2.97	5.50	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.340	0.7
28.674	6.52	6.88	0.29	4.22	33.81	5.0E-08	120.0	1.720	0.000	1.720	3.5	1.6	3.00	5.63	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.344	0.7
28.740	6.84	7.25	0.30	4.15	38.38	5.0E-08	120.0	1.724	0.000	1.724	3.6	1.7	3.21	5.44	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.368	0.8
28.805	7.60	8.02	0.31	3.88	38.61	5.0E-08	120.0	1.728	0.000	1.728	3.7	1.8	3.64	4.94	0.44	97.3	-9999.0	-9999.0	-9999.0	-9999.0	0.419	0.8
28.871	7.28	7.68	0.31	4.05	37.14	5.0E-08	120.0	1.732	0.000	1.732	3.7	1.7	3.43	5.23	0.45	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.396	0.8
28.937	7.28	7.67	0.31	4.05	36.14	5.0E-08	120.0	1.736	0.000	1.736	3.7	1.7	3.42	5.24	0.44	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.395	0.8
29.002	7.48	7.84	0.32	4.09	33.46	5.0E-08	120.0	1.740	0.000	1.740	3.7	1.7	3.51	5.26	0.40	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.407	0.8
29.068	7.60	7.96	0.35	4.41	33.03	5.0E-08	120.0	1.744	0.000	1.744	3.8	1.8	3.56	5.65	0.38	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.414	0.8
29.134	7.41	7.75	0.35	4.53	31.78	5.0E-08	120.0	1.748	0.000	1.748	3.8	1.8	3.43	5.84	0.38	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.400	0.8
29.199	7.92	8.28	0.36	4.36	33.50	5.0E-08	120.0	1.752	0.000	1.752	3.9	1.8	3.73	5.53	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.435	0.9
29.265	6.39	6.76	0.38	5.64	34.44	5.0E-08	120.0	1.756	0.000	1.756	3.8	1.7	2.85	7.62	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.333	0.7
29.330	6.78	7.15	0.36	5.04	34.91	5.0E-08	120.0	1.760	0.000	1.760	3.8	1.7	3.06	6.69	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.360	0.7
29.396	7.67	8.02	0.33	4.13	32.40	5.0E-08	120.0	1.764	0.000	1.764	3.8	1.8	3.55	5.29	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.417	0.8
29.462	7.03	7.34	0.32	4.37	28.58	5.0E-08	120.0	1.768	0.000	1.768	3.7	1.7	3.15	5.76	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.371	0.8
29.527	6.13	6.47	0.30	4.65	31.21	5.0E-08	120.0	1.772	0.000	1.772	3.6	1.5	2.65	6.40	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.313	0.7
29.593	6.39	6.76	0.29	4.30	34.56	5.0E-08	120.0	1.776	0.000	1.776	3.6	1.5	2.81	5.83	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.7
29.658	6.78	7.17	0.27	3.77	36.79	5.0E-08	120.0	1.780	0.000	1.780	3.5	1.6	3.03	5.02	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.360	0.7
29.724	6.27	6.66	0.29	4.36	36.94	5.0E-08	120.0	1.783	0.000	1.783	3.6	1.5	2.74	5.96	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.325	0.7
29.790	6.78	7.17	0.27	3.77	36.88	5.0E-08	120.0	1.787	0.000	1.787	3.6	1.6	3.01	5.02	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.359	0.7
29.855	7.35	7.75	0.27	3.49	36.79	5.0E-08	120.0	1.791	0.000	1.791	3.6	1.6	3.32	4.55	0.44	98.5	-9999.0	-9999.0	-9999.0	-9999.0	0.397	0.8
29.921	6.78	7.15	0.26	3.64	34.89	5.0E-08	120.0	1.795	0.000	1.795	3.5	1.5	2.98	4.86	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.357	0.7
29.987	6.13	6.49	0.27	4.17	32.44	5.0E-08	120.0	1.799	0.000	1.799	3.5	1.5	2.60	5.78	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.312	0.7
30.052	6.33	6.68	0.24	3.60	32.79	5.0E-08	120.0	1.803	0.000	1.803	3.4	1.4	2.70	4.93	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.325	0.7
30.118	6.58	6.97	0.23	3.31	36.83	5.0E-08	120.0	1.807	0.000	1.807	3.4	1.5	2.86	4.46	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.344	0.7
30.183	8.56	9.04	0.25	2.77	44.78	5.0E-07	120.0	1.811	0.000	1.811	3.8	1.8	3.99	3.46	0.45	86.6	-9999.0	-9999.0	-9999.0	-9999.0	0.482	0.9
30.249	11.18	11.66	0.31	2.66	44.86	5.0E-06	120.0	1.815	0.000	1.815	4.4	2.1	5.43	3.16	0.33	75.4	-9999.0	-9999.0	-9999.0	-9999.0	0.656	1.2
30.315	13.16	13.56	0.28	2.07	36.98	5.0E-06	120.0	1.819	0.000	1.819	4.7	2.3	6.46	2.39	0.23	65.7	-9999.0	-9999.0	-9999.0	-9999.0	0.783	1.5
30.380	12.33	12.52	0.29	2.32	18.03	5.0E-06	120.0	1.823	0.000	1.823	4.5	2.2	5.87	2.72	0.12	70.5	-9999.0	-9999.0	-9999.0	-9999.0	0.713	1.3
30.446	10.54	10.76	0.31	2.89	20.60	5.0E-07	120.0	1.827	0.000	1.827	4.3	2.0	4.89	3.48	0.17	80.4	-9999.0	-9999.0	-9999.0	-9999.0	0.595	1.1
30.511	8.62	8.88	0.32	3.61	23.90	5.0E-08	120.0	1.831	0.000	1.831	4.0	1.8	3.85	4.55	0.24	93.5	-9999.0	-9999.0	-9999.0	-9999.0	0.470	0.9
30.577	7.92	8.25	0.34	4.13	30.48	5.0E-08	120.0	1.835	0.000	1.835	3.9	1.7	3.50	5.31	0.34	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.428	0.8
30.643	7.86	8.21	0.34	4.15	32.44	5.0E-08	120.0	1.839	0.000	1.839	3.9	1.7	3.47	5.35	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.425	0.8
30.708	7.73	8.12	0.30	3.70	36.60	5.0E-08	120.0	1.843	0.000	1.843	3.8	1.7	3.41	4.79	0.42	98.8	-9999.0	-9999.0	-9999.0	-9999.0	0.419	0.8
30.774	7.35	7.78	0.29	3.74	40.20	5.0E-08	120.0	1.846	0.000	1.846	3.8	1.6	3.21	4.90	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.396	0.8
30.840	7.16	7.60	0.31	4.09	41.20	5.0E-08	120.0	1.850	0.000	1.850	3.8	1.6	3.11	5.40	0.52	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.383	0.7
30.905	6.71	7.14	0.31	4.35	40.08	5.0E-08	120.0	1.854	0.000	1.854	3.7	1.6	2.85	5.88	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.352	0.7
30.971	6.52	6.96	0.31	4.46	41.12	5.0E-08	120.0	1.858	0.000	1.858	3.7	1.5	2.75	6.09	0.58	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.340	0.7
31.036	5.94	6.41	0.30	4.69	43.45	5.0E-08	120.0	1.862	0.000	1.862	3.7	1.5	2.44	6.61	0.69	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.303	0.6
31.102	6.00	6.49	0.31	4.78	45.35	5.0E-08	120.0	1.866	0.000	1.866	3.7	1.5	2.48	6.71	0.71	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.309	0.7
31.168	6.27	6.77	0.31	4.59	46.34	5.0E-08	120.0	1.870	0.000	1.870	3.7	1.5	2.62	6.35	0.68	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.326	0.7
31.233	5.68	6.21	0.28	4.52	48.24	5.0E-08	120.0	1.874	0.000	1.874	3.6	1.4	2.31	6.48	0.80	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.289	0.6

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
31.299	5.94	6.49	0.26	4.02	50.27	5.0E-08	120.0	1.878	0.000	1.878	3.6	1.4	2.45	5.65	0.79	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.307	0.7
31.364	6.20	6.76	0.27	4.00	52.40	5.0E-08	120.0	1.882	0.000	1.882	3.6	1.5	2.59	5.55	0.77	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.325	0.7
31.430	6.46	7.05	0.27	3.84	54.63	5.0E-08	120.0	1.886	0.000	1.886	3.7	1.5	2.74	5.25	0.76	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.344	0.7
31.496	7.35	7.94	0.26	3.28	55.13	5.0E-08	120.0	1.890	0.000	1.890	3.7	1.6	3.20	4.31	0.66	98.6	-9999.0	-9999.0	-9999.0	-9999.0	0.404	0.8
31.561	7.03	7.55	0.26	3.45	48.85	5.0E-08	120.0	1.894	0.000	1.894	3.7	1.5	2.99	4.60	0.62	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.377	0.7
31.627	7.35	7.78	0.23	2.96	39.88	5.0E-07	120.0	1.898	0.000	1.898	3.6	1.5	3.10	3.92	0.49	97.7	-9999.0	-9999.0	-9999.0	-9999.0	0.392	0.7
31.693	6.46	6.89	0.20	2.91	40.10	5.0E-07	120.0	1.902	0.000	1.902	3.4	1.4	2.62	4.02	0.58	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.7
31.758	6.39	6.85	0.20	2.93	43.02	5.0E-07	120.0	1.906	0.000	1.906	3.4	1.4	2.59	4.05	0.63	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.330	0.7
31.824	7.41	7.89	0.24	3.05	44.56	5.0E-07	120.0	1.909	0.000	1.909	3.7	1.5	3.13	4.02	0.54	97.9	-9999.0	-9999.0	-9999.0	-9999.0	0.399	0.8
31.889	7.03	7.49	0.24	3.21	42.86	5.0E-08	120.0	1.913	0.000	1.913	3.6	1.5	2.91	4.31	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.372	0.7
31.955	6.71	7.14	0.23	3.23	39.98	5.0E-08	120.0	1.917	0.000	1.917	3.6	1.4	2.72	4.42	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.348	0.7
32.021	7.16	7.53	0.25	3.33	34.40	5.0E-08	120.0	1.921	0.001	1.921	3.7	1.5	2.92	4.47	0.44	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.374	0.7
32.086	6.78	7.15	0.23	3.22	34.96	5.0E-08	120.0	1.925	0.003	1.923	3.6	1.4	2.72	4.41	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.349	0.7
32.152	6.52	6.93	0.23	3.33	38.32	5.0E-08	120.0	1.929	0.005	1.924	3.6	1.4	2.60	4.61	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.333	0.7
32.217	6.39	6.92	0.26	3.77	49.20	5.0E-08	120.0	1.933	0.007	1.926	3.7	1.4	2.59	5.23	0.71	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.7
32.283	9.26	9.81	0.25	2.55	51.14	5.0E-06	120.0	1.937	0.009	1.928	4.0	1.8	4.09	3.18	0.47	84.2	-9999.0	-9999.0	-9999.0	-9999.0	0.525	0.9
32.349	10.15	10.64	0.21	1.98	44.56	5.0E-06	120.0	1.941	0.011	1.930	4.1	1.8	4.51	2.42	0.37	76.2	-9999.0	-9999.0	-9999.0	-9999.0	0.580	1.0
32.414	10.61	10.89	0.25	2.30	26.21	5.0E-06	120.0	1.945	0.013	1.932	4.2	1.9	4.63	2.80	0.21	78.0	-9999.0	-9999.0	-9999.0	-9999.0	0.596	1.0
32.480	9.32	9.58	0.25	2.61	24.20	5.0E-07	120.0	1.949	0.015	1.934	4.0	1.7	3.95	3.28	0.23	85.9	-9999.0	-9999.0	-9999.0	-9999.0	0.509	0.9
32.546	8.24	8.54	0.22	2.58	27.75	5.0E-07	120.0	1.953	0.017	1.936	3.7	1.6	3.40	3.35	0.30	91.2	-9999.0	-9999.0	-9999.0	-9999.0	0.439	0.8
32.611	7.03	7.37	0.19	2.59	31.42	5.0E-07	120.0	1.957	0.019	1.938	3.5	1.4	2.79	3.52	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.361	0.7
32.677	8.81	9.24	0.16	1.74	40.04	5.0E-06	120.0	1.961	0.021	1.940	3.7	1.6	3.76	2.20	0.39	80.3	-9999.0	-9999.0	-9999.0	-9999.0	0.486	0.9
32.742	10.03	10.46	0.12	1.15	39.33	5.0E-06	120.0	1.965	0.023	1.941	3.7	1.6	4.38	1.42	0.33	68.7	-9999.0	-9999.0	-9999.0	-9999.0	0.566	1.0
32.808	9.64	9.95	0.12	1.21	28.76	5.0E-06	120.0	1.969	0.025	1.943	3.6	1.6	4.11	1.51	0.26	71.4	-9999.0	-9999.0	-9999.0	-9999.0	0.532	0.9
32.874	8.75	9.02	0.13	1.44	24.83	5.0E-06	120.0	1.972	0.027	1.945	3.5	1.5	3.62	1.85	0.25	78.5	-9999.0	-9999.0	-9999.0	-9999.0	0.470	0.8
32.939	7.79	8.10	0.12	1.49	28.70	5.0E-06	120.0	1.976	0.029	1.947	3.3	1.3	3.14	1.96	0.33	84.1	-9999.0	-9999.0	-9999.0	-9999.0	0.408	0.8
33.005	7.22	7.57	0.12	1.59	32.73	5.0E-06	120.0	1.980	0.031	1.949	3.2	1.3	2.87	2.15	0.42	88.7	-9999.0	-9999.0	-9999.0	-9999.0	0.373	0.7
33.070	9.52	9.96	0.22	2.22	40.08	5.0E-06	120.0	1.984	0.033	1.951	4.0	1.7	4.09	2.77	0.36	81.6	-9999.0	-9999.0	-9999.0	-9999.0	0.531	0.9
33.136	15.27	15.74	0.29	1.85	43.53	5.0E-05	120.0	1.988	0.035	1.953	5.2	2.4	7.04	2.11	0.23	61.5	30.0	30.0	-9999.0	-9999.0	0.917	1.6
33.202	19.55	19.84	0.30	1.52	26.90	5.0E-05	120.0	1.992	0.038	1.955	6.0	2.9	9.13	1.69	0.11	51.8	30.0	30.0	-9999.0	-9999.0	1.190	2.2
33.267	18.85	19.05	0.35	1.84	18.90	5.0E-05	120.0	1.996	0.040	1.957	6.0	2.9	8.72	2.06	0.08	55.7	30.0	30.0	-9999.0	-9999.0	1.137	2.1
33.333	17.37	17.58	0.36	2.05	19.60	5.0E-06	120.0	2.000	0.042	1.958	5.8	2.7	7.96	2.32	0.09	59.7	-9999.0	-9999.0	-9999.0	-9999.0	1.039	1.9
33.399	21.14	21.39	0.37	1.73	23.07	5.0E-05	120.0	2.004	0.044	1.960	6.5	3.1	9.89	1.91	0.08	51.7	30.0	30.0	-9999.0	-9999.0	1.292	2.5
33.464	27.92	28.21	0.40	1.42	26.82	5.0E-05	120.0	2.008	0.046	1.962	7.8	3.9	13.35	1.53	0.07	42.2	30.0	32.0	-9999.0	-9999.0	1.747	3.8
33.530	33.92	34.03	0.42	1.24	9.71	5.0E-04	120.0	2.012	0.048	1.964	8.9	4.5	16.30	1.32	0.02	36.6	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.595	37.12	37.16	0.40	1.08	3.25	5.0E-04	120.0	2.016	0.050	1.966	8.8	6.4	17.87	1.14	0.01	27.3	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.661	38.77	38.81	0.37	0.96	2.88	5.0E-04	120.0	2.020	0.052	1.968	9.0	6.6	18.69	1.01	0.00	25.5	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.727	39.80	39.82	0.34	0.86	2.53	5.0E-04	120.0	2.024	0.054	1.970	9.1	6.7	19.19	0.90	0.00	24.1	30.5	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.792	38.64	38.66	0.31	0.80	1.78	5.0E-04	120.0	2.028	0.056	1.972	8.9	6.5	18.58	0.85	0.00	24.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.858	35.33	35.34	0.32	0.91	1.58	5.0E-04	120.0	2.032	0.058	1.974	8.3	6.1	16.88	0.96	0.00	26.5	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.923	32.07	32.08	0.36	1.12	1.43	5.0E-04	120.0	2.035	0.060	1.975	8.4	4.2	15.21	1.20	0.00	36.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
33.989	29.58	29.59	0.42	1.42	0.90	5.0E-05	120.0	2.039	0.062	1.977	8.1	4.0	13.93	1.53	0.00	41.4	30.0	32.0	-9999.0	-9999.0	1.837	4.1
34.055	26.76	26.77	0.46	1.72	0.26	5.0E-05	120.0	2.043	0.064	1.979	7.7	3.8	12.49	1.87	0.00	46.1	30.0	30.0	-9999.0	-9999.0	1.648	3.5
34.120	23.00	23.00	0.44	1.92	0.75	5.0E-05	120.0	2.047	0.066	1.981	7.0	3.4	10.58	2.10	0.00	51.5	30.0	30.0	-9999.0	-9999.0	1.397	2.7
34.186	21.97	22.00	0.40	1.82	2.68	5.0E-05	120.0	2.051	0.068	1.983	6.7	3.2	10.06	2.01	0.01	52.0	30.0	30.0	-9999.0	-9999.0	1.330	2.6
34.252	21.78	21.86	0.36	1.65	7.29	5.0E-05	120.0	2.055	0.070	1.985	6.6	3.1	9.98	1.82	0.02	50.8	30.0	30.0	-9999.0	-9999.0	1.320	2.5
34.317	23.19	23.27	0.37	1.59	7.62	5.0E-05	120.0	2.059	0.072	1.987	6.9	3.3	10.68	1.75	0.02	48.7	30.0	30.0	-9999.0	-9999.0	1.414	2.8
34.383	25.17	25.22	0.35	1.39	4.80	5.0E-05	120.0	2.063	0.074	1.989	7.2	3.5	11.65	1.51	0.01	45.0	30.0	30.0	-9999.0	-9999.0	1.544	3.1
34.448	25.74	25.76	0.32	1.25	1.72	5.0E-05	120.0	2.067	0.076	1.991	7.2	3.5	11.90	1.35	0.00	43.1	30.0	30.0	-9999.0	-9999.0	1.580	3.2
34.514	25.23	25.25	0.25	0.99	2.15	5.0E-04	120.0	2.071	0.078	1.992	6.9	3.3	11.64	1.08	0.00	41.1	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
34.580	23.51	23.54	0.24	1.02	2.88	5.0E-05	120.0	2.075	0.081	1.994	6.6	3.1	10.76	1.12	0.01	43.1	30.0	30.0	-9999.0	-9999.0	1.431	2.8
34.645	26.84	26.90	0.28	1.04	5.57	5.0E-04	120.0	2.079	0.083	1.996	7.3	3.5	12.43	1.13	0.01	40.2	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
34.711	30.21	30.28	0.35	1.16	5.81	5.0E-04	120.0	2.083	0.085	1.998	8.1	4.0	14.11	1.24	0.01	38.7	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.776	31.18	31.22	0.43	1.38	3.64	5.0E-04	120.0	2.087	0.087	2.000	8.5	4.1	14.56	1.48	0.01	40.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.842	32.39	32.42	0.46	1.42	2.76	5.0E-04	120.0	2.091	0.089	2.002	8.8	4.3	15.15	1.52	0.00	39.6	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
34.908	31.43	31.44	0.62	1.98	1.43	5.0E-05	120.0	2.095	0.091	2.004	8.9	4.3	14.65	2.12	0.00	44.6	30.0	32.0	-9999.0	-9999.0	1.956	4.4
34.973	28.81	28.83	0.66	2.29	2.11	5.0E-05	120.0	2.098	0.093	2.006	8.5	4.1	13.33	2.47	0.00	48.7	30.0	32.0	-9999.0	-9999.0	1.782	3.8
35.039	23.26	23.28	0.68	2.93	1.80	5.0E-06	120.0	2.102	0.095	2.007	7.5	3.6	10.55	3.22	0.00	58.2	-9999.0	-9999.0	-9999.0	-9999.0	1.412	2.7
35.105	17.82	17.83	0.68	3.82	0.61	5.0E-07	120.0	2.106	0.097	2.009	6.5	3.0	7.83	4.34	0.00	71.1	-9999.0	-9999.0	-9999.0	-9999.0	1.048	1.8
35.170	13.67	13.68	0.63	4.62	0.39	5.0E-08	120.0	2.110	0.099	2.011	5.6	2.5	5.75	5.46	-0.01	84.7	-9999.0	-9999.0	-9999.0	-9999.0	0.771	1.3
35.236	10.99	11.01	0.57	5.19	2.17	5.0E-08	120.0	2.114	0.101	2.013	5.1	2.1	4.42	6.42	0.01	96.8	-9999.0	-9999.0	-9999.0	-9999.0	0.593	1.0
35.301	8.62	8.67	0.52	6.01	4.78	5.0E-08	120.0	2.118	0.103	2.015	4.7	1.8	3.25	7.95	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.437	0.8
35.367	8.37	8.50	0.45	5.31	12.22	5.0E-08	120.0	2.122	0.105	2.017	4.5	1.7	3.16	7.07	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.425	0.8
35.433	9.01	9.26	0.39	4.22	22.63	5.0E-08	120.0	2.126	0.107	2.019	4.4	1.8	3.53	5.48	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.475	0.8
35.498	9.07	9.41	0.29	3.09	31.09	5.0E-07	120.0	2.130	0.109	2.021	4.2	1.7	3.60	3.99	0.29	93.0	-9999.0	-9999.0	-9999.0	-9999.0	0.485	0.8
35.564	8.50	8.78	0.25	2.85	25.76	5.0E-07	120.0	2.134	0.111	2.023	4.0	1.6	3.29	3.77	0.26	94.9	-9999.0	-9999.0	-9999.0	-9999.0	0.443	0.8
35.629	7.16	7.45	0.23	3.09	27.53	5.0E-07	120.0	2.138	0.113	2.024	3.8	1.4	2.63	4.34	0.35	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.354	0.7
35.695	6.00	6.37	0.20	3.15	33.44	5.0E-08	120.0	2.142	0.115	2.026	3.6	1.2	2.08	4.75	0.54	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.282	0.6

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
35.761	6.56	6.99	0.19	2.72	38.79	5.0E-07	120.0	2.146	0.117	2.028	3.6	1.3	2.39	3.93	0.55	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.323	0.6
35.826	6.90	7.34	0.17	2.32	40.59	5.0E-07	120.0	2.150	0.119	2.030	3.5	1.3	2.55	3.29	0.54	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.346	0.7
35.892	7.28	7.70	0.17	2.21	38.87	5.0E-07	120.0	2.154	0.122	2.032	3.6	1.3	2.73	3.07	0.48	97.2	-9999.0	-9999.0	-9999.0	-9999.0	0.370	0.7
35.958	6.71	7.14	0.18	2.53	40.37	5.0E-07	120.0	2.158	0.124	2.034	3.6	1.3	2.45	3.62	0.56	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.6
36.023	6.84	7.32	0.18	2.47	44.44	5.0E-07	120.0	2.161	0.126	2.036	3.6	1.3	2.53	3.50	0.60	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.344	0.7
36.089	7.67	8.17	0.20	2.45	46.46	5.0E-07	120.0	2.165	0.128	2.038	3.7	1.4	2.95	3.34	0.54	96.1	-9999.0	-9999.0	-9999.0	-9999.0	0.400	0.7
36.154	7.60	8.03	0.20	2.50	40.33	5.0E-07	120.0	2.169	0.130	2.040	3.7	1.4	2.88	3.42	0.47	97.5	-9999.0	-9999.0	-9999.0	-9999.0	0.391	0.7
36.220	7.22	7.63	0.20	2.63	38.32	5.0E-07	120.0	2.173	0.132	2.041	3.7	1.3	2.67	3.67	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.364	0.7
36.286	6.20	6.64	0.20	3.02	41.04	5.0E-08	120.0	2.177	0.134	2.043	3.6	1.2	2.18	4.49	0.63	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.297	0.6
36.351	6.33	6.83	0.21	3.08	46.93	5.0E-08	120.0	2.181	0.136	2.045	3.7	1.3	2.27	4.53	0.70	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.310	0.6
36.417	6.06	6.61	0.21	3.18	50.43	5.0E-08	120.0	2.185	0.138	2.047	3.7	1.3	2.16	4.76	0.79	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.295	0.6
36.482	6.52	7.01	0.21	3.00	45.72	5.0E-08	120.0	2.189	0.140	2.049	3.7	1.3	2.35	4.37	0.65	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.321	0.6
36.548	6.97	7.51	0.22	2.94	49.83	5.0E-07	120.0	2.193	0.142	2.051	3.8	1.4	2.59	4.15	0.65	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.354	0.7
36.614	6.78	7.33	0.21	2.87	51.24	5.0E-07	120.0	2.197	0.144	2.053	3.7	1.3	2.50	4.10	0.69	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.342	0.7
36.679	6.78	7.37	0.20	2.72	55.17	5.0E-07	120.0	2.201	0.146	2.055	3.7	1.3	2.52	3.88	0.74	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.345	0.7
36.745	8.43	9.07	0.21	2.32	59.18	5.0E-06	120.0	2.205	0.148	2.057	3.9	1.5	3.34	3.07	0.60	90.2	-9999.0	-9999.0	-9999.0	-9999.0	0.458	0.8
36.811	10.74	11.47	0.27	2.36	67.69	5.0E-06	120.0	2.209	0.150	2.058	4.5	1.8	4.50	2.92	0.51	79.6	-9999.0	-9999.0	-9999.0	-9999.0	0.617	1.0
36.876	17.37	18.04	0.37	2.06	61.83	5.0E-05	120.0	2.213	0.152	2.060	6.0	2.7	7.68	2.34	0.27	60.8	30.0	30.0	-9999.0	-9999.0	1.055	1.8
36.942	19.93	20.31	0.40	1.97	34.94	5.0E-05	120.0	2.217	0.154	2.062	6.5	2.9	8.77	2.22	0.13	56.7	30.0	30.0	-9999.0	-9999.0	1.206	2.1
37.007	16.80	17.06	0.39	2.29	24.39	5.0E-06	120.0	2.220	0.156	2.064	5.8	2.6	7.19	2.63	0.11	64.4	-9999.0	-9999.0	-9999.0	-9999.0	0.990	1.7
37.073	13.73	14.04	0.36	2.57	28.54	5.0E-06	120.0	2.224	0.158	2.066	5.2	2.2	5.72	3.05	0.16	73.3	-9999.0	-9999.0	-9999.0	-9999.0	0.788	1.3
37.139	12.84	13.22	0.39	2.96	34.63	5.0E-06	120.0	2.228	0.160	2.068	5.1	2.2	5.31	3.56	0.21	78.3	-9999.0	-9999.0	-9999.0	-9999.0	0.732	1.2
37.204	13.22	13.67	0.42	3.08	41.40	5.0E-06	120.0	2.232	0.162	2.070	5.3	2.2	5.53	3.68	0.25	77.8	-9999.0	-9999.0	-9999.0	-9999.0	0.762	1.2
37.270	14.24	14.66	0.44	3.01	38.08	5.0E-06	120.0	2.236	0.165	2.072	5.5	2.4	5.99	3.55	0.21	74.7	-9999.0	-9999.0	-9999.0	-9999.0	0.828	1.3
37.336	13.60	13.97	0.42	3.01	34.07	5.0E-06	120.0	2.240	0.167	2.074	5.3	2.3	5.66	3.59	0.19	76.6	-9999.0	-9999.0	-9999.0	-9999.0	0.782	1.3
37.401	12.65	12.99	0.38	2.93	31.80	5.0E-06	120.0	2.244	0.169	2.075	5.1	2.1	5.18	3.54	0.20	79.0	-9999.0	-9999.0	-9999.0	-9999.0	0.717	1.1
37.467	11.69	12.06	0.43	3.57	34.31	5.0E-07	120.0	2.248	0.171	2.077	5.0	2.1	4.72	4.39	0.23	86.1	-9999.0	-9999.0	-9999.0	-9999.0	0.654	1.0
37.532	11.31	11.78	0.48	4.09	43.37	5.0E-08	120.0	2.252	0.173	2.079	5.1	2.1	4.58	5.05	0.31	90.1	-9999.0	-9999.0	-9999.0	-9999.0	0.635	1.0
37.598	14.57	15.13	0.46	3.05	52.14	5.0E-06	120.0	2.256	0.175	2.081	5.7	2.4	6.19	3.58	0.28	74.0	-9999.0	-9999.0	-9999.0	-9999.0	0.858	1.4
37.664	18.01	18.47	0.53	2.88	41.90	5.0E-06	120.0	2.260	0.177	2.083	6.4	2.8	7.78	3.28	0.18	66.1	-9999.0	-9999.0	-9999.0	-9999.0	1.080	1.8
37.729	22.55	22.88	0.70	3.07	30.36	5.0E-06	120.0	2.264	0.179	2.085	7.6	3.4	9.89	3.40	0.10	60.7	-9999.0	-9999.0	-9999.0	-9999.0	1.375	2.5
37.795	30.66	30.93	0.75	2.43	24.43	5.0E-05	120.0	2.268	0.181	2.087	9.2	4.2	13.73	2.62	0.06	49.0	30.0	32.0	-9999.0	-9999.0	1.911	4.0
37.860	46.50	46.72	0.74	1.59	20.09	5.0E-04	120.0	2.272	0.183	2.089	11.2	7.9	21.28	1.67	0.03	28.1	34.3	34.0	4.014	187.5	-9999.0	-9999.0
37.926	66.24	66.42	0.74	1.12	16.63	5.0E-03	120.0	2.276	0.185	2.091	14.5	10.2	30.68	1.16	0.02	19.8	44.4	36.0	3.418	227.0	-9999.0	-9999.0
37.992	102.85	102.98	0.79	0.77	12.33	5.0E-03	120.0	2.280	0.187	2.092	20.3	14.4	48.13	0.79	0.01	12.2	56.9	38.0	2.763	284.5	-9999.0	-9999.0
38.057	174.01	174.06	0.63	0.36	4.01	5.0E-02	120.0	2.283	0.189	2.094	30.1	21.3	82.02	0.37	0.00	4.4	71.9	42.0	2.269	395.0	-9999.0	-9999.0
38.123	201.87	201.87	0.68	0.34	0.45	5.0E-02	120.0	2.287	0.191	2.096	34.1	24.1	95.21	0.34	0.00	3.3	76.2	42.0	2.156	435.3	-9999.0	-9999.0
38.189	212.27	212.28	0.74	0.35	0.79	5.0E-02	120.0	2.291	0.193	2.098	35.7	25.2	100.09	0.35	0.00	3.1	77.6	42.0	2.118	449.6	-9999.0	-9999.0
38.254	214.32	214.34	0.82	0.38	1.80	5.0E-02	120.0	2.295	0.195	2.100	36.3	25.6	100.97	0.39	0.00	3.4	77.9	42.0	2.111	452.5	-9999.0	-9999.0
38.320	208.06	208.09	0.89	0.43	1.98	5.0E-02	120.0	2.299	0.197	2.102	35.7	25.1	97.90	0.43	0.00	4.0	77.0	42.0	2.134	444.2	-9999.0	-9999.0
38.385	194.39	194.41	0.97	0.50	2.13	5.0E-02	120.0	2.303	0.199	2.104	34.0	24.0	91.32	0.51	0.00	5.0	75.1	42.0	2.188	425.4	-9999.0	-9999.0
38.451	193.82	193.84	1.03	0.53	1.58	5.0E-02	120.0	2.307	0.201	2.106	34.1	24.0	90.96	0.54	0.00	5.3	75.0	42.0	2.191	424.7	-9999.0	-9999.0
38.517	186.53	186.55	1.13	0.61	1.37	5.0E-02	120.0	2.311	0.203	2.108	33.4	23.5	87.42	0.61	0.00	6.1	73.8	42.0	2.221	414.4	-9999.0	-9999.0
38.582	173.69	173.71	1.26	0.73	1.41	5.0E-02	120.0	2.315	0.206	2.109	31.9	22.4	81.25	0.74	0.00	7.6	71.8	42.0	2.276	395.4	-9999.0	-9999.0
38.648	152.87	152.88	1.43	0.94	0.55	5.0E-02	120.0	2.319	0.208	2.111	29.2	20.5	71.31	0.95	0.00	10.1	68.1	40.0	2.375	363.1	-9999.0	-9999.0
38.713	127.83	127.83	1.62	1.27	0.43	5.0E-03	120.0	2.323	0.210	2.113	25.8	18.1	59.39	1.29	0.00	13.8	63.0	40.0	2.532	323.7	-9999.0	-9999.0
38.779	102.15	102.15	1.95	1.91	-0.04	5.0E-04	120.0	2.327	0.212	2.115	22.3	15.7	47.19	1.96	0.00	19.9	56.5	38.0	2.785	284.4	-9999.0	-9999.0
38.845	74.93	74.94	2.28	3.04	0.55	5.0E-05	120.0	2.331	0.214	2.117	18.2	12.8	34.30	3.13	0.00	29.1	47.6	36.0	3.237	242.6	4.840	10.0
38.910	52.26	52.27	2.20	4.20	1.10	5.0E-06	120.0	2.335	0.216	2.119	15.1	7.1	23.57	4.40	0.00	46.3	-9999.0	-9999.0	-9999.0	-9999.0	3.329	9.2
38.976	38.07	38.09	1.82	4.79	1.27	5.0E-07	120.0	2.339	0.218	2.121	12.0	5.6	16.86	5.10	0.00	55.7	-9999.0	-9999.0	-9999.0	-9999.0	2.383	5.4
39.042	33.98	34.04	1.50	4.42	4.88	5.0E-07	120.0	2.343	0.220	2.123	10.9	5.0	14.93	4.74	0.00	57.0	-9999.0	-9999.0	-9999.0	-9999.0	2.113	4.5
39.107	31.69	31.86	1.27	4.00	16.08	5.0E-06	120.0	2.346	0.222	2.125	10.2	4.6	13.89	4.31	0.03	56.9	-9999.0	-9999.0	-9999.0	-9999.0	1.968	4.1
39.173	57.49	57.57	1.20	2.09	7.68	5.0E-04	120.0	2.350	0.224	2.126	13.8	9.7	25.97	2.18	0.01	28.2	40.0	34.0	3.684	212.1	-9999.0	-9999.0
39.238	131.02	131.30	1.18	0.90	26.10	5.0E-02	120.0	2.354	0.226	2.128	25.5	17.9	60.58	0.92	0.01	11.1	63.6	40.0	2.513	330.0	-9999.0	-9999.0
39.304	187.36	187.60	1.17	0.63	21.61	5.0E-02	120.0	2.358	0.228	2.130	33.6	23.5	86.96	0.63	0.01	6.3	73.9	42.0	2.225	417.4	-9999.0	-9999.0
39.370	208.83	208.88	1.10	0.53	4.72	5.0E-02	120.0	2.362	0.230	2.132	36.4	25.5	96.86	0.53	0.00	4.8	76.9	42.0	2.141	447.3	-9999.0	-9999.0
39.435	205.38	205.40	0.98	0.48	2.04	5.0E-02	120.0	2.366	0.232	2.134	35.6	24.9	95.14	0.48	0.00	4.5	76.4	42.0	2.155	442.7	-9999.0	-9999.0
39.501	195.09	195.11	0.87	0.45	1.96	5.0E-02	120.0	2.370	0.234	2.136	33.8	23.7	90.24	0.45	0.00	4.6	74.9	42.0	2.196	428.5	-9999.0	-9999.0
39.566	182.44	182.47	0.76	0.42	2.19	5.0E-02	120.0	2.374	0.236	2.138	31.8	22.2	84.24	0.42	0.00	4.7	73.0	42.0	2.249	410.3	-9999.0	-9999.0
39.632	171.46	171.48	0.79	0.46	2.29	5.0E-02	120.0	2.378	0.238	2.140	30.3	21.2	79.03	0.47	0.00	5.0	71.2	42.0	2.297	393.8	-9999.0	-9999.0
39.698	160.85	160.87	0.73	0.45	2.13	5.0E-02	120.0	2.382	0.240	2.142	28.6	20.0	74.01	0.46	0.00	5.0	69.4	40.0	2.346	377.5	-9999.0	-9999.0
39.763	149.80	149.83	0.01	0.01	2.02	5.0E-02	120.0	2.386	0.242	2.143	-9999.0	-9999.0	68.79	0.01	0.00	-9999.0	67.3	40.0	2.404	360.1	-9999.0	-9999.0
39.829	139.39	139.41	0.01	0.01	1.82	5.0E-02	120.0	2.390	0.244	2.145	-9999.0	-9999.0	63.87	0.01	0.00	-9999.0	65.2	40.0	2.465	343.7	-9999.0	-9999.0
39.895	130.96	130.99	0.01	0.01	2.59	5.0E-02	120.0	2.394	0.246	2.147	-9999.0	-9999.0	59.89	0.01	0.00	-9999.0	63.4	40.0	2.523	330.5	-9999.0	-9999.0
39.960	123.93	123.95	0.01	0.01	1.92	5.0E-02	120.0	2.398	0.249	2.149	-9999.0	-9999.0	56.56	0.01	0.00	-9999.0	61.8	40.0	2.578	319.6	-9999.0	-9999.0
40.026	116.01	116.03	0.01	0.01	1.78	5.0E-02	120.0	2.402	0.251	2.151	-9999.0	-9999.0	52.83	0.01	0.00	-9999.0	59.9	40.0	2.650	307.5	-9999.0	-9999.0

Gregg In Situ, Inc. - CPT Interpretation

Interpretation Output - Release	1.22A	Format:	NLI	Imperial
Run No:	04-0816-0955-2469			
Job No:	04-127SC			
Client:	MACTEC			
Project:	Allen Fossil Plant			
Site:	CPT-03			
Location:	Allen Plant			
Oversite:	H. Benkhayal			
CPT Date:	04/20/07			
CPT Time:	12:06			
CPT File:	130CP03.COR			
Northing (m):	0.000000			
Easting (m):	0.000000			
Elevation (m):	0.000000			

Water Table (m):	11.28	(ft):	37.0
Unit Weight of Water (default):	62.40 pcf		
Averaging Increment (m):	0.0 (Every Data Point)		
Phi Method :	Robertson and Campanella, 1983		
Su Nkt used:	15.00	Su/P' (nc):	0.30
Dr Method :	Jamiolkowski - All Sands		
State Parameter M:	1.20		

Constant Unit Weight Used Throughout (pcf): 119.97
N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
0.066	3.96	4.00	0.11	2.76	3.78	5.0E-08	120.0	0.004	0.000	0.004	-9999.0	-9999.0	1015.11	2.76	0.07	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.266	10.0
0.131	7.60	7.66	0.12	1.57	5.37	5.0E-06	120.0	0.008	0.000	0.008	-9999.0	-9999.0	971.35	1.57	0.05	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.510	10.0
0.197	12.58	12.66	0.14	1.11	7.15	5.0E-05	120.0	0.012	0.000	0.012	-9999.0	-9999.0	1070.68	1.11	0.04	-9999.0	71.0	50.0	2.064	26.1	0.843	10.0
0.262	16.48	16.55	0.17	1.03	6.22	5.0E-05	120.0	0.016	0.000	0.016	-9999.0	-9999.0	1049.74	1.03	0.03	-9999.0	74.6	50.0	1.991	33.0	1.102	10.0
0.328	23.45	23.51	0.22	0.94	5.95	5.0E-04	120.0	0.020	0.000	0.020	-9999.0	-9999.0	1193.36	0.94	0.02	-9999.0	81.5	50.0	1.881	44.2	-9999.0	-9999.0
0.394	35.00	35.08	0.32	0.91	6.54	5.0E-04	120.0	0.024	0.000	0.024	-9999.0	-9999.0	1483.85	0.92	0.01	-9999.0	90.3	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.459	45.29	45.36	0.37	0.82	6.64	5.0E-04	120.0	0.028	0.000	0.028	-9999.0	-9999.0	1644.96	0.82	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.525	51.68	51.75	0.43	0.83	6.68	5.0E-03	120.0	0.031	0.000	0.031	-9999.0	-9999.0	1641.97	0.83	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.591	60.31	60.36	0.54	0.90	5.03	5.0E-03	120.0	0.035	0.000	0.035	-9999.0	-9999.0	1702.49	0.90	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.656	66.82	66.88	0.60	0.90	5.15	5.0E-03	120.0	0.039	0.000	0.039	-9999.0	-9999.0	1697.68	0.90	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.722	70.65	70.72	0.68	0.96	6.07	5.0E-03	120.0	0.043	0.000	0.043	-9999.0	-9999.0	1631.90	0.96	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.787	69.12	69.21	0.72	1.04	8.99	5.0E-03	120.0	0.047	0.000	0.047	-9999.0	-9999.0	1464.03	1.04	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.853	65.67	65.72	0.73	1.11	4.86	5.0E-03	120.0	0.051	0.000	0.051	-9999.0	-9999.0	1283.09	1.11	0.01	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.919	61.45	61.52	0.73	1.19	6.38	5.0E-04	120.0	0.055	0.000	0.055	-9999.0	-9999.0	1115.10	1.19	0.01	-9999.0	94.3	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.984	56.35	56.39	0.71	1.26	4.33	5.0E-04	120.0	0.059	0.000	0.059	10.2	42.8	953.92	1.26	0.01	6.7	90.8	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.050	51.04	51.07	0.69	1.35	2.70	5.0E-04	120.0	0.063	0.000	0.063	9.4	38.3	809.77	1.36	0.00	7.9	87.0	50.0	2.029	103.6	-9999.0	-9999.0
1.115	45.87	45.90	0.62	1.35	2.25	5.0E-04	120.0	0.067	0.000	0.067	8.6	33.9	684.73	1.36	0.00	8.7	83.1	50.0	1.880	86.3	-9999.0	-9999.0
1.181	40.12	40.15	0.55	1.37	2.94	5.0E-04	120.0	0.071	0.000	0.071	7.7	29.4	565.54	1.38	0.01	9.9	78.4	50.0	1.919	77.1	-9999.0	-9999.0
1.247	33.22	33.25	0.48	1.45	2.63	5.0E-04	120.0	0.075	0.000	0.075	6.5	24.4	443.48	1.45	0.01	12.0	72.3	48.0	2.039	67.8	-9999.0	-9999.0
1.312	27.66	27.69	0.41	1.48	2.98	5.0E-05	120.0	0.079	0.000	0.079	5.6	20.4	350.65	1.49	0.01	13.9	66.3	48.0	2.176	60.3	1.841	10.0
1.378	21.97	21.99	0.34	1.55	1.98	5.0E-05	120.0	0.083	0.000	0.083	4.6	16.4	265.03	1.56	0.01	16.8	59.0	46.0	2.408	53.0	1.461	10.0
1.444	18.52	18.55	0.28	1.51	2.37	5.0E-05	120.0	0.087	0.000	0.087	4.0	13.8	213.17	1.52	0.01	18.6	53.4	46.0	2.642	49.0	1.231	10.0
1.509	16.04	16.07	0.25	1.56	2.53	5.0E-05	120.0	0.091	0.000	0.091	3.5	12.0	176.43	1.57	0.01	20.8	48.7	44.0	2.876	46.2	1.065	10.0
1.575	14.30	14.34	0.22	1.54	3.44	5.0E-05	120.0	0.094	0.000	0.094	3.2	10.7	150.78	1.55	0.02	22.3	44.8	44.0	3.081	44.2	0.950	10.0
1.640	13.48	13.53	0.21	1.56	4.52	5.0E-05	120.0	0.098	0.000	0.098	3.1	10.0	136.48	1.57	0.02	23.5	42.6	44.0	3.204	43.4	0.896	10.0
1.706	13.22	13.27	0.18	1.36	4.80	5.0E-05	120.0	0.102	0.000	0.102	3.0	9.6	128.67	1.37	0.03	22.6	41.4	44.0	3.265	43.3	0.878	10.0
1.772	12.65	12.71	0.17	1.34	5.47	5.0E-05	120.0	0.106	0.000	0.106	2.9	9.1	118.56	1.35	0.03	23.3	39.7	42.0	3.365	42.8	0.840	10.0
1.837	12.07	12.14	0.16	1.32	6.32	5.0E-05	120.0	0.110	0.000	0.110	2.8	8.6	109.10	1.33	0.04	24.1	37.8	42.0	3.467	42.1	0.802	10.0
1.903	11.50	11.56	0.15	1.30	5.43	5.0E-06	120.0	0.114	0.000	0.114	2.7	8.1	100.22	1.31	0.03	24.9	-9999.0	-9999.0	-9999.0	-9999.0	0.763	10.0
1.968	9.96	10.03	0.16	1.60	5.63	5.0E-06	120.0	0.118	0.000	0.118	2.4	7.3	83.88	1.62	0.04	29.4	-9999.0	-9999.0	-9999.0	-9999.0	0.660	10.0
2.034	8.75	8.81	0.18	2.05	5.89	5.0E-06	120.0	0.122	0.000	0.122	2.3	6.6	71.22	2.08	0.05	34.6	-9999.0	-9999.0	-9999.0	-9999.0	0.580	10.0
2.100	9.77	9.84	0.22	2.24	6.34	5.0E-06	120.0	0.126	0.000	0.126	2.5	7.3	77.12	2.27	0.05	34.2	-9999.0	-9999.0	-9999.0	-9999.0	0.648	10.0
2.165	10.28	10.36	0.23	2.22	7.23	5.0E-06	120.0	0.130	0.000	0.130	2.6	7.5	78.76	2.25	0.05	33.5	-9999.0	-9999.0	-9999.0	-9999.0	0.682	10.0
2.231	9.20	9.29	0.23	2.48	8.18	5.0E-07	120.0	0.134	0.000	0.134	2.3	10.5	68.41	2.52	0.06	29.0	-9999.0	-9999.0	-9999.0	-9999.0	0.610	10.0
2.297	8.69	8.79	0.19	2.17	9.46	5.0E-06	120.0	0.138	0.000	0.138	2.1	9.7	62.81	2.20	0.08	28.4	-9999.0	-9999.0	-9999.0	-9999.0	0.577	10.0
2.362	8.62	8.71	0.17	1.96	8.55	5.0E-06	120.0	0.142	0.000	0.142	2.1	9.3	60.48	1.99	0.07	27.7	-9999.0	-9999.0	-9999.0	-9999.0	0.571	10.0
2.428	8.11	8.17	0.15	1.84	5.71	5.0E-06	120.0	0.146	0.000	0.146	2.0	8.6	55.10	1.87	0.05	28.2	-9999.0	-9999.0	-9999.0	-9999.0	0.535	10.0
2.493	6.78	6.82	0.12	1.76	4.29	5.0E-06	120.0	0.150	0.000	0.150	1.7	7.2	44.60	1.80	0.05	30.8	-9999.0	-9999.0	-9999.0	-9999.0	0.445	10.0
2.559	7.48	7.51	0.11	1.47	3.10	5.0E-06	120.0	0.154	0.000	0.154	1.8	7.6	47.92	1.50	0.03	27.6	-9999.0	-9999.0	-9999.0	-9999.0	0.491	10.0
2.625	7.22	7.24	0.11	1.52	2.49	5.0E-06	120.0	0.157	0.000	0.157	1.8	7.2	45.00	1.56	0.03	28.9	-9999.0	-9999.0	-9999.0	-9999.0	0.472	10.0
2.690	7.16	7.18	0.14	1.96	1.86	5.0E-07	120.0	0.161	0.000	0.161	1.8	7.3	43.46	2.00	0.02	32.2	-9999.0	-9999.0	-9999.0	-9999.0	0.468	10.0
2.756	5.24	5.29	0.11	2.08	4.25	5.0E-07	120.0	0.165	0.000	0.165	1.4	5.6	30.98	2.15	0.06	38.6	-9999.0	-9999.0	-9999.0	-9999.0	0.342	10.0
2.821	4.92	4.95	0.11	2.23	2.49	5.0E-07	120.0	0.169	0.000	0.169	1.4	5.3	28.23	2.31	0.04	41.1	-9999.0	-9999.0	-9999.0	-9999.0	0.319	10.0
2.887	6.78	6.80	0.12	1.77	2.63	5.0E-06	120.0	0.173	0.000	0.173	1.7	6.6	38.28	1.81	0.03	32.7	-9999.0	-9999.0	-9999.0	-9999.0	0.442	10.0
2.953	11.12	11.16	0.14	1.26	4.07	5.0E-06	120.0	0.177	0.000	0.177	2.7	6.5	62.00	1.28	0.03	28.4	-9999.0	-9999.0	-9999.0	-9999.0	0.732	10.0
3.018	15.21	15.26	0.15	0.99	4.56	5.0E-05	120.0	0.181	0.000	0.181	3.4	8.2	83.24	1.00	0.02	21.7	37.3	42.0	3.498	53.4	1.005	10.0
3.084	15.21	15.24	0.16	1.05	3.42	5.0E-05	120.0	0.185	0.000	0.185	3.4	8.2	81.38	1.07	0.02	22.4	36.9	42.0	3.516	53.6	1.004	10.0
3.150	13.73	13.78	0.16	1.16	3.97	5.0E-05	120.0	0.189	0.000	0.189	3.2	7.5	71.90	1.18	0.02	24.9	33.7	40.0	3.692	50.9	0.906	10.0
3.215	12.52	12.56	0.16	1.28	3.52	5.0E-05	120.0	0.193	0.000	0.193	3.0	7.0	64.10	1.30	0.02	27.3	30.8	40.0	-9999.0	-9999.0	0.824	10.0
3.281	11.88	11.91	0.15	1.26	2.66	5.0E-05	120.0	0.197	0.000	0.197	2.9	6.6	59.49	1.28	0.02	28.2	30.0	40.0	-9999.0	-9999.0	0.781	10.0
3.346	11.12	11.14	0.14	1.26	2.27	5.0E-06	120.0	0.201	0.000	0.201	2.7	6.2	54.49	1.28	0.01	29.4	-9999.0	-9999.0	-9999.0	-9999.0	0.729	10.0
3.412	11.12	11.14	0.13	1.17	2.45	5.0E-06	120.0	0.205	0.000	0.205	2.7	6.1	53.43	1.19	0.02	28.8	-9999.0	-9999.0	-9999.0	-9999.0	0.729	10.0
3.478	10.03	10.06	0.14	1.39	2.57	5.0E-06	120.0	0.209	0.000	0.209	2.5	5.7	47.22	1.42	0.02	32.5	-9999.0	-9999.0	-9999.0	-9999.0	0.657	10.0
3.543	9.32	9.35	0.13	1.39	2.82	5.0E-06	120.0	0.213	0.000	0.213	2.4	5.3	42.99	1.43	0.02	33.9	-9999.0	-9999.0	-9999.0	-9999.0	0.609	10.0
3.609	9.39	9.43	0.14	1.49	3.46	5.0E-06	120.0	0.217	0.000	0.217	2.4	5.3	42.55	1.52	0.03	34.7	-9999.0	-9999.0	-9999.0	-9999.0	0.614	10.0
3.674	13.54	13.60	0.12	0.88	5.69	5.0E-05	120.0	0.220	0.000	0.220	3.1	6.8	60.70	0.90	0.03	23.8	31.1	40.0	-9999.0	-9999.0	0.892	10.0
3.740	18.52	18.59	0.12	0.65	5.57	5.0E-05	120.0	0.224	0.000	0.224	3.9	8.5	81.82	0.66	0.02	17.4	39.8	42.0	3.354	62.3	1.224	10.0
3.806	24.66	24.71	0.12	0.49	4.31	5.0E-04	120.0	0.228	0.000	0.228	4.9	10.5	107.20	0.49	0.01	5.0	47.7	42.0	2.923	72.2	-9999.0	-9999.0
3.871	29.89	29.93	0.12	0.40	3.80	5.0E-04	120.0	0.232	0.000	0.232	5.7	12.1	127.87	0.41	0.01	5.0	53.0	44.0	2.662	79.7	-9999.0	-9999.0
3.937	28.56	28.60	0.12	0.42	3.62	5.0E-04	120.0	0.236	0.000	0.236	5.5	11.6	120.07	0.42	0.01	5.0	51.5	42.0	2.736	78.2	-9999.0	-9999.0
4.003	24.02	24.04	0.13	0.54	2.47	5.0E-04	120.0	0.240	0.000	0.240	4.8	10.1	99.12	0.55	0.01	13.8	46.2	42.0	3.003	72.2	-9999.0	-9999.0
4.068	20.25	20.28	0.14	0.69	2.43	5.0E-04	120.0	0.244	0.000	0.244	4.3	8.9	82.06	0.70	0.01	17.3	41.1	42.0	3.283	66.6	-9999.0	-9999.0
4.134	17.63	17.66	0.16	0.91	2.49	5.0E-05	120.0	0.248	0.000	0.248	3.9	8.0	70.20	0.92	0.01	21.2	36.9	40.0	3.515	62.1	1.161	10.0
4.199	15.97	15.99	0.16	1.00	2.41	5.0E-05	120.0	0.252	0.000	0.252	3.6	7.4	62.48	1.02	0.01	23.5	33.9	40.0	3.684	58.9	1.050	10.0
4.265	13.92	13.95	0.13	0.93	2.31	5.0E-05	120.0	0.256	0.000	0.256	3.2	6.5	53.51	0.95	0.01	25.0	30.0	40.0	-9999.0	-9999.0	0.913	10.0
4.331	10.48	10.50	0.12	1.15	2.11	5.0E-06	120.0	0.260	0.000	0.260	2.6	5.2	39.40	1.17	0.01	31.6	-9999.0	-9999.0	-9999.0	-9999.0	0.683	10.0
4.396	8.75	8.78	0.11	1.26	2.80	5.0E-06	120.0	0.264	0.000	0.264	2.2	6.0	32.29	1.29	0.02	30.0	-9999.0	-9999.0	-9999.0	-9999.0	0.568	10.0
4.462	7.35	7.38	0.10	1.36	2.94	5.0E-06	120.0	0.268	0.000	0.268	1.9	5.2	26.56	1.41	0.03	34.0	-9999.0	-9999.0	-9999.0	-9999.0	0.474	10.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
4.528	9.01	9.05	0.10	1.11	3.76	5.0E-06	120.0	0.272	0.000	0.272	2.3	4.5	32.32	1.14	0.03	34.3	-9999.0	-9999.0	-9999.0	-9999.0	0.585	10.0
4.593	8.24	8.28	0.11	1.33	3.25	5.0E-06	120.0	0.276	0.000	0.276	2.1	5.6	29.03	1.38	0.03	32.2	-9999.0	-9999.0	-9999.0	-9999.0	0.533	10.0
4.659	8.11	8.14	0.11	1.35	2.74	5.0E-06	120.0	0.280	0.000	0.280	2.1	5.5	28.12	1.40	0.03	32.8	-9999.0	-9999.0	-9999.0	-9999.0	0.524	10.0
4.724	7.67	7.70	0.11	1.43	2.94	5.0E-06	120.0	0.283	0.000	0.283	2.0	5.3	26.16	1.49	0.03	34.6	-9999.0	-9999.0	-9999.0	-9999.0	0.494	10.0
4.790	6.97	7.00	0.12	1.72	2.68	5.0E-06	120.0	0.287	0.000	0.287	1.9	4.9	23.34	1.79	0.03	38.8	-9999.0	-9999.0	-9999.0	-9999.0	0.447	9.0
4.856	5.04	5.07	0.13	2.57	2.55	5.0E-08	120.0	0.291	0.000	0.291	1.5	4.9	16.40	2.73	0.04	45.9	-9999.0	-9999.0	-9999.0	-9999.0	0.319	5.2
4.921	4.28	4.31	0.17	3.95	2.70	5.0E-08	120.0	0.295	0.000	0.295	1.4	4.5	13.59	4.25	0.05	57.1	-9999.0	-9999.0	-9999.0	-9999.0	0.268	3.9
4.987	2.88	2.91	0.17	5.86	2.96	5.0E-08	120.0	0.299	0.000	0.299	1.1	3.5	8.72	6.53	0.08	76.7	-9999.0	-9999.0	-9999.0	-9999.0	0.174	2.1
5.052	3.32	3.36	0.15	4.48	3.85	5.0E-08	120.0	0.303	0.000	0.303	1.2	3.7	10.08	4.92	0.09	67.0	-9999.0	-9999.0	-9999.0	-9999.0	0.204	2.6
5.118	19.93	20.03	0.15	0.75	9.09	5.0E-05	120.0	0.307	0.000	0.307	4.4	8.0	64.21	0.76	0.03	19.5	37.5	40.0	3.485	69.8	1.315	10.0
5.184	25.81	25.92	0.15	0.58	9.66	5.0E-04	120.0	0.311	0.000	0.311	5.3	9.7	82.33	0.59	0.03	14.8	44.7	42.0	3.087	80.0	-9999.0	-9999.0
5.249	21.72	21.78	0.13	0.60	5.27	5.0E-04	120.0	0.315	0.000	0.315	4.6	8.4	68.15	0.61	0.02	17.0	39.5	40.0	3.372	73.4	-9999.0	-9999.0
5.315	18.01	18.05	0.11	0.61	3.72	5.0E-05	120.0	0.319	0.000	0.319	3.9	7.1	55.61	0.62	0.02	19.7	34.0	40.0	3.678	66.4	1.182	10.0
5.381	12.90	12.94	0.11	0.85	3.14	5.0E-05	120.0	0.323	0.000	0.323	3.1	5.5	39.07	0.87	0.02	27.2	30.0	38.0	-9999.0	-9999.0	0.841	10.0
5.446	9.01	9.05	0.13	1.44	3.76	5.0E-06	120.0	0.327	0.000	0.327	2.3	5.5	26.70	1.49	0.03	33.7	-9999.0	-9999.0	-9999.0	-9999.0	0.582	10.0
5.512	7.99	8.05	0.12	1.49	5.81	5.0E-06	120.0	0.331	0.000	0.331	2.1	5.0	23.35	1.56	0.05	36.4	-9999.0	-9999.0	-9999.0	-9999.0	0.515	9.0
5.577	13.54	13.64	0.12	0.88	8.65	5.0E-05	120.0	0.335	0.000	0.335	3.2	5.7	39.75	0.90	0.05	26.9	30.0	38.0	-9999.0	-9999.0	0.887	10.0
5.643	11.18	11.22	0.10	0.89	4.31	5.0E-05	120.0	0.339	0.000	0.339	2.8	4.8	32.15	0.92	0.03	30.4	30.0	36.0	-9999.0	-9999.0	0.726	10.0
5.709	11.95	12.01	0.10	0.83	5.79	5.0E-05	120.0	0.343	0.000	0.343	2.9	5.1	34.07	0.86	0.04	28.7	30.0	36.0	-9999.0	-9999.0	0.778	10.0
5.774	13.99	14.06	0.10	0.71	6.13	5.0E-05	120.0	0.346	0.000	0.346	3.3	5.7	39.58	0.73	0.03	25.0	30.0	38.0	-9999.0	-9999.0	0.914	10.0
5.840	18.14	18.21	0.10	0.55	6.28	5.0E-05	120.0	0.350	0.000	0.350	4.0	6.8	50.97	0.56	0.03	19.5	32.9	38.0	3.738	68.1	1.191	10.0
5.905	21.53	21.60	0.13	0.60	5.91	5.0E-04	120.0	0.354	0.000	0.354	4.6	7.9	59.95	0.61	0.02	17.9	37.6	40.0	3.479	75.1	-9999.0	-9999.0
5.971	22.35	22.41	0.13	0.58	5.31	5.0E-04	120.0	0.358	0.000	0.358	4.7	8.1	61.55	0.59	0.02	17.3	38.5	40.0	3.429	76.8	-9999.0	-9999.0
6.037	22.29	22.35	0.11	0.49	5.25	5.0E-04	120.0	0.362	0.000	0.362	4.7	7.9	60.71	0.50	0.02	16.4	38.3	40.0	3.442	76.9	-9999.0	-9999.0
6.102	23.77	23.83	0.14	0.59	6.07	5.0E-04	120.0	0.366	0.000	0.366	5.0	8.5	64.09	0.60	0.02	16.8	39.9	40.0	3.348	79.8	-9999.0	-9999.0
6.168	28.81	28.89	0.14	0.49	7.78	5.0E-04	120.0	0.370	0.000	0.370	5.8	9.8	77.07	0.49	0.02	5.0	45.3	40.0	3.053	88.2	-9999.0	-9999.0
6.234	34.81	34.89	0.13	0.37	7.01	5.0E-04	120.0	0.374	0.000	0.374	6.7	11.2	92.28	0.38	0.01	5.0	50.6	42.0	2.779	97.0	-9999.0	-9999.0
6.299	41.52	41.60	0.11	0.27	7.48	5.0E-03	120.0	0.378	0.000	0.378	7.6	12.7	109.07	0.27	0.01	5.0	55.5	42.0	2.551	106.1	-9999.0	-9999.0
6.365	38.45	38.52	0.10	0.26	6.30	5.0E-03	120.0	0.382	0.000	0.382	7.1	11.8	99.87	0.26	0.01	5.0	53.1	42.0	2.657	102.3	-9999.0	-9999.0
6.430	30.47	30.52	0.10	0.33	4.15	5.0E-04	120.0	0.386	0.000	0.386	5.9	9.8	78.10	0.33	0.01	5.0	46.3	42.0	3.001	91.6	-9999.0	-9999.0
6.496	25.04	25.07	0.08	0.32	3.12	5.0E-04	120.0	0.390	0.000	0.390	5.0	8.2	63.33	0.32	0.01	5.0	40.5	40.0	3.317	83.2	-9999.0	-9999.0
6.562	21.91	21.94	0.07	0.32	2.51	5.0E-04	120.0	0.394	0.000	0.394	4.5	7.3	54.73	0.33	0.01	5.0	36.5	40.0	3.537	77.6	-9999.0	-9999.0
6.627	16.29	16.31	0.05	0.31	1.62	5.0E-05	120.0	0.398	0.000	0.398	3.5	5.7	40.01	0.32	0.01	5.0	30.0	38.0	-9999.0	-9999.0	1.061	10.0
6.693	13.09	13.11	0.06	0.46	1.66	5.0E-05	120.0	0.402	0.000	0.402	3.0	4.9	31.65	0.47	0.01	5.0	30.0	36.0	-9999.0	-9999.0	0.847	10.0
6.758	11.31	11.33	0.07	0.62	1.76	5.0E-05	120.0	0.406	0.000	0.406	2.7	4.4	26.93	0.64	0.01	28.7	30.0	36.0	-9999.0	-9999.0	0.728	10.0
6.824	8.75	8.77	0.06	0.69	1.50	1.0E-07	120.0	0.409	0.000	0.409	2.2	3.6	20.41	0.72	0.01	34.3	-9999.0	-9999.0	-9999.0	-9999.0	0.557	7.3
6.890	6.39	6.40	0.05	0.78	1.37	1.0E-07	120.0	0.413	0.000	0.413	1.7	3.4	14.48	0.84	0.02	37.4	-9999.0	-9999.0	-9999.0	-9999.0	0.399	4.3
6.955	4.73	4.75	0.06	1.27	1.62	1.0E-07	120.0	0.417	0.000	0.417	1.4	3.1	10.38	1.39	0.03	46.4	-9999.0	-9999.0	-9999.0	-9999.0	0.289	2.7
7.021	3.71	3.72	0.07	1.88	1.43	1.0E-07	120.0	0.421	0.000	0.421	1.2	2.7	7.84	2.12	0.03	58.8	-9999.0	-9999.0	-9999.0	-9999.0	0.220	1.8
7.087	2.37	2.38	0.06	2.53	1.31	5.0E-08	120.0	0.425	0.000	0.425	0.9	1.9	4.60	3.08	0.05	79.9	-9999.0	-9999.0	-9999.0	-9999.0	0.130	1.0
7.152	1.00	1.02	0.08	7.88	1.35	-9999.0	120.0	0.429	0.000	0.429	-9999.0	-9999.0	1.37	-9999.0	0.17	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.218	1.00	1.02	0.08	7.89	1.31	-9999.0	120.0	0.433	0.000	0.433	-9999.0	-9999.0	1.35	-9999.0	0.16	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.283	1.00	1.02	0.09	8.85	1.54	-9999.0	120.0	0.437	0.000	0.437	-9999.0	-9999.0	1.33	-9999.0	0.19	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.349	1.00	1.02	0.09	8.84	1.70	-9999.0	120.0	0.441	0.000	0.441	-9999.0	-9999.0	1.32	-9999.0	0.21	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.415	1.00	1.02	0.10	9.80	1.92	-9999.0	120.0	0.445	0.000	0.445	-9999.0	-9999.0	1.30	-9999.0	0.24	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.480	1.00	1.04	0.08	7.75	3.04	-9999.0	120.0	0.449	0.000	0.449	-9999.0	-9999.0	1.31	-9999.0	0.37	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.546	1.00	1.05	0.09	8.63	3.99	-9999.0	120.0	0.453	0.000	0.453	-9999.0	-9999.0	1.31	-9999.0	0.48	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
7.611	2.50	2.55	0.08	3.15	4.66	5.0E-08	120.0	0.457	0.000	0.457	1.0	2.0	4.58	3.84	0.16	84.4	-9999.0	-9999.0	-9999.0	-9999.0	0.139	1.0
7.677	5.81	5.87	0.10	1.71	5.59	5.0E-07	120.0	0.461	0.000	0.461	1.7	3.6	11.75	1.85	0.07	47.4	-9999.0	-9999.0	-9999.0	-9999.0	0.361	3.2
7.743	9.26	9.32	0.10	1.08	5.37	5.0E-06	120.0	0.465	0.000	0.465	2.4	4.4	19.06	1.13	0.04	34.9	-9999.0	-9999.0	-9999.0	-9999.0	0.590	6.6
7.808	10.09	10.14	0.10	0.99	4.48	5.0E-06	120.0	0.469	0.000	0.469	2.6	4.7	20.65	1.04	0.03	32.6	-9999.0	-9999.0	-9999.0	-9999.0	0.645	7.4
7.874	11.12	11.16	0.09	0.81	3.83	5.0E-05	120.0	0.472	0.000	0.472	2.8	4.2	22.62	0.84	0.03	32.6	30.0	34.0	-9999.0	-9999.0	0.712	8.6
7.940	10.35	10.39	0.11	1.06	3.89	5.0E-06	120.0	0.476	0.000	0.476	2.6	4.7	20.80	1.11	0.03	33.1	-9999.0	-9999.0	-9999.0	-9999.0	0.661	7.5
8.005	10.74	10.78	0.12	1.12	4.11	5.0E-06	120.0	0.480	0.000	0.480	2.7	4.9	21.44	1.17	0.03	33.1	-9999.0	-9999.0	-9999.0	-9999.0	0.687	7.9
8.071	10.99	11.03	0.12	1.09	3.68	5.0E-05	120.0	0.484	0.000	0.484	2.8	4.9	21.77	1.14	0.03	32.5	30.0	34.0	-9999.0	-9999.0	0.703	8.1
8.136	10.93	10.96	0.11	1.01	3.46	5.0E-05	120.0	0.488	0.000	0.488	2.8	4.2	21.46	1.05	0.02	35.3	30.0	34.0	-9999.0	-9999.0	0.698	7.9
8.202	11.63	11.66	0.11	0.95	3.20	5.0E-05	120.0	0.492	0.000	0.492	3.0	4.3	22.70	0.99	0.02	33.6	30.0	34.0	-9999.0	-9999.0	0.745	8.6
8.268	14.18	14.22	0.12	0.85	3.74	5.0E-05	120.0	0.496	0.000	0.496	3.5	5.0	27.68	0.88	0.02	29.2	30.0	36.0	-9999.0	-9999.0	0.915	10.0
8.333	15.72	15.76	0.13	0.83	4.03	5.0E-05	120.0	0.500	0.000	0.500	3.8	5.4	30.52	0.85	0.02	27.3	30.0	36.0	-9999.0	-9999.0	1.017	10.0
8.399	18.01	18.07	0.12	0.67	4.88	5.0E-05	120.0	0.504	0.000	0.504	4.1	5.9	34.85	0.68	0.02	23.5	30.0	38.0	-9999.0	-9999.0	1.171	10.0
8.464	20.51	20.56	0.15	0.73	4.90	5.0E-04	120.0	0.508	0.000	0.508	4.6	6.6	39.49	0.75	0.02	22.4	31.0	38.0	-9999.0	-9999.0	-9999.0	-9999.0
8.530	22.04	22.09	0.13	0.59	4.23	5.0E-04	120.0	0.512	0.000	0.512	4.8	6.9	42.16	0.60	0.01	19.9	33.0	38.0	3.732	82.4	-9999.0	-9999.0
8.596	24.15	24.19	0.12	0.50	3.91	5.0E-04	120.0	0.516	0.000	0.516	5.1	7.3	45.90	0.51	0.01	17.7	35.5	38.0	3.596	87.0	-9999.0	-9999.0
8.661	25.49	25.54	0.12	0.47	4.21	5.0E-04	120.0	0.520	0.000	0.520	5.4	7.6	48.14	0.48	0.01	5.0	36.9	38.0	3.517	89.8	-9999.0	-9999.0
8.727	26.70	26.75	0.13	0.49	4.01	5.0E-04	120.0	0.524	0.000	0.524	5.6	7.9	50.08	0.50	0.01	5.0	38.1	38.0	3.449	92.3	-9999.0	-9999.0
8.793	29.83	29.87	0.16	0.54	3.62	5.0E-04	120.0	0.528	0.000	0.528	6.2	8.7	55.62	0.55	0.01	15.7	41.2	40.0	3.279	98.0	-9999.0	-9999.0
8.858	33.92	33.96	0.15	0.44	3.70	5.0E-04	120.0	0.532	0.000	0.532	6.8	9.5	62.90	0.45	0.01	5.0	44.8	40.0	3.083	104.7	-9999.0	-9999.0
8.924	33.15	33.23	0.15	0.45	7.42	5.0E-04	120.0	0.535	0.000	0.535	6.7	9.3	61.06	0.46	0.02	5.0	44.0	40.0	3.123	103.8	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
8.989	41.27	41.33	0.15	0.36	5.87	5.0E-03	120.0	0.539	0.000	0.539	7.9	11.0	75.63	0.37	0.01	5.0	50.2	40.0	2.799	115.7	-9999.0	-9999.0
9.055	46.18	46.25	0.15	0.33	6.22	5.0E-03	120.0	0.543	0.000	0.543	8.7	12.0	84.12	0.33	0.01	5.0	53.3	42.0	2.648	122.5	-9999.0	-9999.0
9.121	50.53	50.57	0.17	0.34	3.50	5.0E-03	120.0	0.547	0.000	0.547	9.4	13.0	91.41	0.34	0.01	5.0	55.8	42.0	2.538	128.4	-9999.0	-9999.0
9.186	52.51	52.55	0.17	0.32	3.74	5.0E-03	120.0	0.551	0.000	0.551	9.7	13.3	94.34	0.33	0.01	5.0	56.7	42.0	2.496	131.2	-9999.0	-9999.0
9.252	54.43	54.48	0.22	0.40	4.74	5.0E-03	120.0	0.555	0.000	0.555	10.1	13.9	97.15	0.41	0.01	5.0	57.7	42.0	2.458	133.9	-9999.0	-9999.0
9.317	53.72	53.79	0.23	0.43	6.32	5.0E-03	120.0	0.559	0.000	0.559	10.1	13.8	95.21	0.43	0.01	5.0	57.2	42.0	2.477	133.2	-9999.0	-9999.0
9.383	52.96	52.99	0.19	0.36	2.68	5.0E-03	120.0	0.563	0.000	0.563	9.8	13.4	93.12	0.36	0.00	5.0	56.7	42.0	2.499	132.4	-9999.0	-9999.0
9.449	53.53	53.57	0.27	0.51	3.97	5.0E-03	120.0	0.567	0.000	0.567	10.2	13.8	93.50	0.51	0.01	9.8	56.9	42.0	2.490	133.4	-9999.0	-9999.0
9.514	53.92	53.96	0.22	0.41	3.95	5.0E-03	120.0	0.571	0.000	0.571	10.1	13.6	93.53	0.41	0.01	5.0	57.0	42.0	2.485	134.1	-9999.0	-9999.0
9.580	52.58	52.62	0.19	0.36	3.50	5.0E-03	120.0	0.575	0.000	0.575	9.8	13.2	90.54	0.37	0.00	5.0	56.2	42.0	2.520	132.6	-9999.0	-9999.0
9.646	54.04	54.08	0.21	0.39	3.97	5.0E-03	120.0	0.579	0.000	0.579	10.1	13.5	92.45	0.39	0.01	5.0	56.9	42.0	2.491	134.7	-9999.0	-9999.0
9.711	56.92	56.95	0.17	0.30	3.27	5.0E-03	120.0	0.583	0.000	0.583	10.4	13.9	96.74	0.30	0.00	5.0	58.3	42.0	2.435	138.7	-9999.0	-9999.0
9.777	54.68	54.72	0.21	0.38	3.89	5.0E-03	120.0	0.587	0.000	0.587	10.2	13.6	92.29	0.39	0.01	5.0	57.0	42.0	2.485	136.0	-9999.0	-9999.0
9.842	56.16	56.21	0.19	0.34	4.66	5.0E-03	120.0	0.591	0.000	0.591	10.3	13.7	94.18	0.34	0.01	5.0	57.7	42.0	2.458	138.1	-9999.0	-9999.0
9.908	52.96	53.00	0.16	0.30	3.40	5.0E-03	120.0	0.594	0.000	0.594	9.8	12.9	88.14	0.31	0.00	5.0	55.9	42.0	2.531	134.2	-9999.0	-9999.0
9.974	52.13	52.15	0.15	0.29	2.63	5.0E-03	120.0	0.598	0.000	0.598	9.6	12.7	86.15	0.29	0.00	5.0	55.4	42.0	2.555	133.3	-9999.0	-9999.0
10.039	50.21	50.26	0.18	0.36	4.19	5.0E-03	120.0	0.602	0.000	0.602	9.4	12.4	82.43	0.36	0.01	5.0	54.2	42.0	2.607	131.0	-9999.0	-9999.0
10.105	46.50	46.54	0.21	0.45	3.56	5.0E-03	120.0	0.606	0.000	0.606	9.0	11.8	75.76	0.46	0.01	5.0	51.9	40.0	2.714	126.3	-9999.0	-9999.0
10.170	45.61	45.65	0.19	0.42	4.05	5.0E-03	120.0	0.610	0.000	0.610	8.8	11.5	73.81	0.42	0.01	5.0	51.3	40.0	2.745	125.3	-9999.0	-9999.0
10.236	41.52	41.56	0.19	0.46	3.54	5.0E-03	120.0	0.614	0.000	0.614	8.2	10.7	66.67	0.47	0.01	5.0	48.5	40.0	2.886	119.9	-9999.0	-9999.0
10.302	39.87	39.88	0.17	0.43	1.21	5.0E-03	120.0	0.618	0.000	0.618	7.9	10.2	63.52	0.43	0.00	5.0	47.2	40.0	2.952	117.7	-9999.0	-9999.0
10.367	33.35	33.40	0.18	0.54	4.76	5.0E-04	120.0	0.622	0.000	0.622	6.9	8.9	52.70	0.55	0.01	15.4	42.0	38.0	3.233	108.0	-9999.0	-9999.0
10.433	28.43	28.44	0.12	0.42	0.81	5.0E-04	120.0	0.626	0.000	0.626	5.9	7.6	44.43	0.43	0.00	5.0	37.3	38.0	3.494	99.4	-9999.0	-9999.0
10.499	23.70	23.73	0.14	0.59	2.88	5.0E-04	120.0	0.630	0.000	0.630	5.2	6.7	36.67	0.61	0.01	20.4	32.0	38.0	-9999.0	-9999.0	-9999.0	-9999.0
10.564	21.91	21.95	0.10	0.46	3.78	5.0E-04	120.0	0.634	0.000	0.634	4.8	6.2	33.64	0.47	0.01	5.0	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
10.630	21.27	21.31	0.13	0.61	3.97	5.0E-04	120.0	0.638	0.000	0.638	4.8	6.1	32.42	0.63	0.01	22.2	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
10.695	20.32	20.35	0.14	0.69	2.84	5.0E-04	120.0	0.642	0.000	0.642	4.7	5.9	30.71	0.71	0.01	23.9	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
10.761	19.55	19.59	0.14	0.72	3.48	5.0E-05	120.0	0.646	0.000	0.646	4.5	5.8	29.33	0.74	0.01	24.8	30.0	36.0	-9999.0	-9999.0	1.263	10.0
10.827	23.58	23.61	0.12	0.51	3.29	5.0E-04	120.0	0.650	0.000	0.650	5.1	6.5	35.35	0.52	0.01	19.7	31.5	38.0	-9999.0	-9999.0	-9999.0	-9999.0
10.892	26.06	26.09	0.14	0.54	2.13	5.0E-04	120.0	0.654	0.000	0.654	5.6	7.1	38.91	0.55	0.01	18.8	34.2	38.0	3.664	95.6	-9999.0	-9999.0
10.958	22.94	23.00	0.11	0.48	5.81	5.0E-04	120.0	0.657	0.000	0.657	5.0	6.3	33.98	0.49	0.02	5.0	30.5	36.0	-9999.0	-9999.0	-9999.0	-9999.0
11.023	20.95	20.96	0.14	0.67	1.21	5.0E-04	120.0	0.661	0.000	0.661	4.8	6.0	30.70	0.69	0.00	23.4	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
11.089	17.18	17.21	0.17	0.99	2.80	5.0E-05	120.0	0.665	0.000	0.665	4.2	5.3	24.87	1.03	0.01	29.9	30.0	34.0	-9999.0	-9999.0	1.103	10.0
11.155	14.18	14.22	0.17	1.20	3.18	5.0E-05	120.0	0.669	0.000	0.669	3.7	4.6	20.24	1.26	0.02	35.3	30.0	34.0	-9999.0	-9999.0	0.903	7.2
11.220	13.41	13.45	0.18	1.34	3.91	5.0E-05	120.0	0.673	0.000	0.673	3.5	4.9	18.99	1.41	0.02	35.6	30.0	32.0	-9999.0	-9999.0	0.852	6.5
11.286	12.01	12.05	0.16	1.33	4.01	5.0E-05	120.0	0.677	0.000	0.677	3.2	4.6	16.80	1.41	0.03	36.8	30.0	32.0	-9999.0	-9999.0	0.758	5.4
11.352	11.37	11.43	0.15	1.32	5.47	5.0E-06	120.0	0.681	0.000	0.681	3.0	4.4	15.78	1.40	0.04	37.9	-9999.0	-9999.0	-9999.0	-9999.0	0.716	4.9
11.417	8.18	8.23	0.16	1.95	4.52	5.0E-06	120.0	0.685	0.000	0.685	2.5	3.5	11.01	2.13	0.04	50.7	-9999.0	-9999.0	-9999.0	-9999.0	0.503	2.9
11.483	6.06	6.10	0.15	2.46	3.58	5.0E-07	120.0	0.689	0.000	0.689	2.1	2.8	7.86	2.78	0.05	63.0	-9999.0	-9999.0	-9999.0	-9999.0	0.361	1.8
11.548	4.41	4.46	0.15	3.37	4.25	5.0E-08	120.0	0.693	0.000	0.693	1.8	2.2	5.43	4.00	0.08	79.9	-9999.0	-9999.0	-9999.0	-9999.0	0.251	1.2
11.614	4.79	4.87	0.15	3.09	7.36	5.0E-08	120.0	0.697	0.000	0.697	1.8	2.4	5.99	3.60	0.13	75.0	-9999.0	-9999.0	-9999.0	-9999.0	0.278	1.3
11.680	5.75	5.87	0.14	2.39	11.10	5.0E-07	120.0	0.701	0.000	0.701	2.0	2.6	7.38	2.71	0.15	64.2	-9999.0	-9999.0	-9999.0	-9999.0	0.345	1.7
11.745	5.62	5.70	0.12	2.11	7.44	5.0E-07	120.0	0.705	0.000	0.705	1.9	2.5	7.09	2.41	0.11	63.3	-9999.0	-9999.0	-9999.0	-9999.0	0.333	1.6
11.811	5.17	5.24	0.12	2.29	6.42	5.0E-07	120.0	0.709	0.000	0.709	1.8	2.4	6.40	2.65	0.10	67.7	-9999.0	-9999.0	-9999.0	-9999.0	0.302	1.4
11.876	4.41	4.47	0.12	2.69	5.61	5.0E-08	120.0	0.713	0.000	0.713	1.7	2.1	5.27	3.20	0.11	76.5	-9999.0	-9999.0	-9999.0	-9999.0	0.251	1.2
11.942	4.28	4.34	0.13	3.00	5.71	5.0E-08	120.0	0.717	0.000	0.717	1.7	2.1	5.06	3.59	0.11	80.0	-9999.0	-9999.0	-9999.0	-9999.0	0.242	1.1
12.008	4.34	4.40	0.11	2.51	5.65	5.0E-08	120.0	0.720	0.000	0.720	1.7	2.0	5.11	3.00	0.11	76.2	-9999.0	-9999.0	-9999.0	-9999.0	0.245	1.1
12.073	3.01	3.07	0.10	3.27	5.57	5.0E-08	120.0	0.724	0.000	0.724	1.4	1.6	3.23	4.28	0.17	98.1	-9999.0	-9999.0	-9999.0	-9999.0	0.156	0.8
12.139	2.30	2.37	0.10	4.23	6.72	5.0E-08	120.0	0.728	0.000	0.728	1.4	1.4	2.25	6.11	0.30	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.109	0.6
12.205	4.53	4.61	0.11	2.39	7.70	5.0E-08	120.0	0.732	0.000	0.732	1.7	2.1	5.30	2.84	0.14	74.2	-9999.0	-9999.0	-9999.0	-9999.0	0.259	1.2
12.270	7.48	7.54	0.10	1.33	5.83	5.0E-06	120.0	0.736	0.000	0.736	2.3	2.9	9.24	1.47	0.06	49.7	-9999.0	-9999.0	-9999.0	-9999.0	0.454	2.3
12.336	12.84	12.90	0.10	0.78	5.33	5.0E-05	120.0	0.740	0.000	0.740	3.3	3.9	16.43	0.82	0.03	33.8	30.0	32.0	-9999.0	-9999.0	0.811	5.2
12.401	16.80	16.85	0.11	0.65	4.80	5.0E-05	120.0	0.744	0.000	0.744	4.0	4.8	21.65	0.68	0.02	27.6	30.0	34.0	-9999.0	-9999.0	1.074	8.0
12.467	21.53	21.58	0.10	0.46	4.62	5.0E-04	120.0	0.748	0.000	0.748	4.8	5.7	27.85	0.48	0.02	5.0	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
12.533	23.51	23.56	0.11	0.47	5.07	5.0E-04	120.0	0.752	0.000	0.752	5.2	6.1	30.33	0.48	0.02	5.0	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
12.598	24.91	24.96	0.12	0.48	4.17	5.0E-04	120.0	0.756	0.000	0.756	5.4	6.4	32.01	0.50	0.01	5.0	30.9	36.0	-9999.0	-9999.0	-9999.0	-9999.0
12.664	23.19	23.23	0.11	0.47	3.62	5.0E-04	120.0	0.760	0.000	0.760	5.1	6.0	29.57	0.49	0.01	5.0	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
12.730	21.21	21.25	0.12	0.57	3.87	5.0E-04	120.0	0.764	0.000	0.764	4.8	5.6	26.83	0.59	0.01	23.1	30.0	36.0	-9999.0	-9999.0	-9999.0	-9999.0
12.795	20.06	20.10	0.12	0.60	3.58	5.0E-04	120.0	0.768	0.000	0.768	4.6	5.4	25.18	0.62	0.01	24.4	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
12.861	16.74	16.78	0.13	0.78	3.25	5.0E-05	120.0	0.772	0.000	0.772	4.1	4.8	20.74	0.81	0.01	29.5	30.0	34.0	-9999.0	-9999.0	1.067	7.5
12.926	15.78	15.81	0.11	0.70	3.31	5.0E-05	120.0	0.776	0.000	0.776	3.9	4.5	19.39	0.73	0.02	29.6	30.0	32.0	-9999.0	-9999.0	1.003	6.7
12.992	13.54	13.58	0.11	0.81	3.35	5.0E-05	120.0	0.780	0.000	0.780	3.5	4.0	16.42	0.86	0.02	33.8	30.0	32.0	-9999.0	-9999.0	0.853	5.2
13.058	11.88	11.92	0.11	0.93	3.46	5.0E-05	120.0	0.783	0.000	0.783	3.1	3.9	14.21	0.99	0.02	36.2	30.0	32.0	-9999.0	-9999.0	0.742	4.2
13.123	10.48	10.51	0.10	0.95	3.22	5.0E-05	120.0	0.787	0.000	0.787	2.8	3.5	12.35	1.03	0.02	39.4	30.0	30.0	-9999.0	-9999.0	0.648	3.4
13.189	9.45	9.49	0.09	0.95	3.36	5.0E-06	120.0	0.791	0.000	0.791	2.6	3.2	10.99	1.04	0.03	41.8	-9999.0	-9999.0	-9999.0	-9999.0	0.580	2.9
13.254	8.75	8.79	0.08	0.91	3.58	5.0E-06	120.0	0.795	0.000	0.795	2.5	2.9	10.05	1.00	0.03	43.4	-9999.0	-9999.0	-9999.0	-9999.0	0.533	2.6
13.320	7.86	7.90	0.09	1.14	3.70	5.0E-06	120.0	0.799	0.000	0.799	2.3	2.7	8.88	1.27	0.04	48.8	-9999.0	-9999.0	-9999.0	-9999.0	0.473	2.2
13.386	6.84	6.88	0.08	1.17	3.95	1.0E-07	120.0	0.803	0.000	0.803	2.1	2.4	7.57	1.32	0.05	53.1	-9999.0	-9999.0	-9999.0	-9999.0	0.405	1.8

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
13.451	7.03	7.07	0.08	1.13	4.29	1.0E-07	120.0	0.807	0.000	0.807	2.2	2.5	7.76	1.28	0.05	52.1	-9999.0	-9999.0	-9999.0	-9999.0	0.418	1.8
13.517	6.39	6.43	0.07	1.09	4.31	1.0E-07	120.0	0.811	0.000	0.811	2.0	2.3	6.93	1.25	0.06	54.6	-9999.0	-9999.0	-9999.0	-9999.0	0.375	1.6
13.583	6.33	6.37	0.09	1.42	4.35	1.0E-07	120.0	0.815	0.000	0.815	2.1	2.3	6.82	1.62	0.06	58.4	-9999.0	-9999.0	-9999.0	-9999.0	0.370	1.6
13.648	5.62	5.67	0.07	1.24	4.66	1.0E-07	120.0	0.819	0.000	0.819	1.9	2.0	5.93	1.45	0.07	60.5	-9999.0	-9999.0	-9999.0	-9999.0	0.324	1.3
13.714	5.55	5.60	0.07	1.25	4.27	1.0E-07	120.0	0.823	0.000	0.823	1.9	2.0	5.81	1.47	0.06	61.3	-9999.0	-9999.0	-9999.0	-9999.0	0.318	1.3
13.779	5.75	5.80	0.08	1.38	4.25	1.0E-07	120.0	0.827	0.000	0.827	1.9	2.1	6.02	1.61	0.06	61.6	-9999.0	-9999.0	-9999.0	-9999.0	0.332	1.3
13.845	5.94	5.99	0.08	1.34	4.09	1.0E-07	120.0	0.831	0.000	0.831	2.0	2.1	6.21	1.55	0.06	60.3	-9999.0	-9999.0	-9999.0	-9999.0	0.344	1.4
13.911	4.98	5.02	0.06	1.20	3.83	1.0E-07	120.0	0.835	0.000	0.835	1.7	1.8	5.02	1.44	0.07	65.0	-9999.0	-9999.0	-9999.0	-9999.0	0.279	1.1
13.976	5.55	5.60	0.07	1.25	4.56	1.0E-07	120.0	0.839	0.000	0.839	1.9	2.0	5.68	1.47	0.07	61.9	-9999.0	-9999.0	-9999.0	-9999.0	0.318	1.3
14.042	5.43	5.48	0.07	1.28	4.58	1.0E-07	120.0	0.843	0.000	0.843	1.9	1.9	5.51	1.51	0.07	63.1	-9999.0	-9999.0	-9999.0	-9999.0	0.309	1.2
14.107	4.79	4.84	0.06	1.24	4.33	1.0E-07	120.0	0.846	0.000	0.846	1.7	1.7	4.72	1.51	0.08	67.4	-9999.0	-9999.0	-9999.0	-9999.0	0.266	1.0
14.173	5.43	5.48	0.07	1.28	4.52	1.0E-07	120.0	0.850	0.000	0.850	1.9	1.9	5.45	1.52	0.07	63.4	-9999.0	-9999.0	-9999.0	-9999.0	0.309	1.2
14.239	5.17	5.22	0.07	1.34	4.35	1.0E-07	120.0	0.854	0.000	0.854	1.8	1.9	5.11	1.61	0.07	66.1	-9999.0	-9999.0	-9999.0	-9999.0	0.291	1.1
14.304	5.49	5.54	0.06	1.09	4.23	1.0E-07	120.0	0.858	0.000	0.858	1.8	1.9	5.45	1.28	0.07	61.2	-9999.0	-9999.0	-9999.0	-9999.0	0.312	1.2
14.370	6.00	6.06	0.07	1.16	4.82	1.0E-07	120.0	0.862	0.000	0.862	2.0	2.1	6.02	1.35	0.07	59.2	-9999.0	-9999.0	-9999.0	-9999.0	0.346	1.3
14.436	5.62	5.68	0.07	1.24	4.76	1.0E-07	120.0	0.866	0.000	0.866	1.9	1.9	5.55	1.46	0.07	62.4	-9999.0	-9999.0	-9999.0	-9999.0	0.321	1.2
14.501	6.06	6.11	0.07	1.15	4.64	1.0E-07	120.0	0.870	0.000	0.870	2.0	2.0	6.03	1.34	0.06	59.0	-9999.0	-9999.0	-9999.0	-9999.0	0.350	1.3
14.567	5.17	5.22	0.07	1.34	4.58	1.0E-07	120.0	0.874	0.000	0.874	1.8	1.8	4.97	1.61	0.08	66.9	-9999.0	-9999.0	-9999.0	-9999.0	0.290	1.1
14.632	5.17	5.22	0.07	1.34	4.66	1.0E-07	120.0	0.878	0.000	0.878	1.8	1.8	4.95	1.61	0.08	67.0	-9999.0	-9999.0	-9999.0	-9999.0	0.290	1.1
14.698	4.92	4.97	0.07	1.41	4.58	1.0E-07	120.0	0.882	0.000	0.882	1.8	1.7	4.64	1.72	0.08	69.8	-9999.0	-9999.0	-9999.0	-9999.0	0.273	1.0
14.764	5.55	5.60	0.07	1.25	4.74	1.0E-07	120.0	0.886	0.000	0.886	1.9	1.9	5.33	1.49	0.07	63.8	-9999.0	-9999.0	-9999.0	-9999.0	0.315	1.2
14.829	5.94	5.99	0.06	1.00	4.52	1.0E-07	120.0	0.890	0.000	0.890	1.9	1.9	5.74	1.18	0.06	58.7	-9999.0	-9999.0	-9999.0	-9999.0	0.340	1.3
14.895	6.20	6.25	0.07	1.12	4.68	1.0E-07	120.0	0.894	0.000	0.894	2.0	2.0	5.99	1.31	0.06	58.9	-9999.0	-9999.0	-9999.0	-9999.0	0.357	1.3
14.960	5.11	5.16	0.07	1.36	4.78	1.0E-07	120.0	0.898	0.000	0.898	1.8	1.8	4.75	1.64	0.08	68.5	-9999.0	-9999.0	-9999.0	-9999.0	0.284	1.1
15.026	5.81	5.87	0.06	1.02	5.03	1.0E-07	120.0	0.902	0.000	0.902	1.9	1.9	5.51	1.21	0.07	60.1	-9999.0	-9999.0	-9999.0	-9999.0	0.331	1.2
15.092	5.62	5.68	0.06	1.06	5.27	1.0E-07	120.0	0.906	0.000	0.906	1.9	1.8	5.27	1.26	0.08	61.8	-9999.0	-9999.0	-9999.0	-9999.0	0.318	1.2
15.157	5.49	5.55	0.05	0.90	4.86	1.0E-07	120.0	0.909	0.000	0.909	1.8	1.8	5.10	1.08	0.08	60.8	-9999.0	-9999.0	-9999.0	-9999.0	0.309	1.1
15.223	5.17	5.22	0.06	1.15	4.72	1.0E-07	120.0	0.913	0.000	0.913	1.8	1.7	4.72	1.40	0.08	66.3	-9999.0	-9999.0	-9999.0	-9999.0	0.287	1.0
15.289	4.98	5.04	0.07	1.39	5.17	1.0E-07	120.0	0.917	0.000	0.917	1.8	1.7	4.49	1.70	0.09	70.6	-9999.0	-9999.0	-9999.0	-9999.0	0.275	1.0
15.354	5.04	5.10	0.06	1.18	5.21	1.0E-07	120.0	0.921	0.000	0.921	1.8	1.7	4.53	1.44	0.09	67.9	-9999.0	-9999.0	-9999.0	-9999.0	0.278	1.0
15.420	5.11	5.17	0.07	1.36	5.13	1.0E-07	120.0	0.925	0.000	0.925	1.9	1.7	4.59	1.65	0.09	69.6	-9999.0	-9999.0	-9999.0	-9999.0	0.283	1.0
15.485	4.60	4.67	0.07	1.50	5.97	1.0E-07	120.0	0.929	0.000	0.929	1.8	1.6	4.02	1.88	0.12	75.5	-9999.0	-9999.0	-9999.0	-9999.0	0.249	0.9
15.551	5.24	5.30	0.06	1.13	5.73	1.0E-07	120.0	0.933	0.000	0.933	1.8	1.7	4.69	1.38	0.09	66.3	-9999.0	-9999.0	-9999.0	-9999.0	0.291	1.0
15.617	5.11	5.17	0.06	1.16	5.53	1.0E-07	120.0	0.937	0.000	0.937	1.8	1.7	4.52	1.42	0.09	67.8	-9999.0	-9999.0	-9999.0	-9999.0	0.282	1.0
15.682	5.36	5.42	0.07	1.29	5.35	1.0E-07	120.0	0.941	0.000	0.941	1.9	1.8	4.76	1.57	0.09	67.7	-9999.0	-9999.0	-9999.0	-9999.0	0.299	1.1
15.748	4.79	4.85	0.06	1.24	5.79	1.0E-07	120.0	0.945	0.000	0.945	1.8	1.6	4.14	1.54	0.11	71.6	-9999.0	-9999.0	-9999.0	-9999.0	0.261	0.9
15.813	4.85	4.91	0.07	1.43	5.61	1.0E-07	120.0	0.949	0.000	0.949	1.8	1.6	4.18	1.77	0.10	73.4	-9999.0	-9999.0	-9999.0	-9999.0	0.264	0.9
15.879	5.17	5.23	0.06	1.15	5.37	1.0E-07	120.0	0.953	0.000	0.953	1.8	1.7	4.49	1.41	0.09	67.8	-9999.0	-9999.0	-9999.0	-9999.0	0.285	1.0
15.945	5.43	5.49	0.06	1.09	5.63	1.0E-07	120.0	0.957	0.000	0.957	1.9	1.7	4.74	1.33	0.09	65.5	-9999.0	-9999.0	-9999.0	-9999.0	0.302	1.1
16.010	5.11	5.17	0.07	1.36	5.55	1.0E-07	120.0	0.961	0.000	0.961	1.9	1.7	4.38	1.67	0.09	71.0	-9999.0	-9999.0	-9999.0	-9999.0	0.281	1.0
16.076	5.11	5.17	0.06	1.16	5.11	1.0E-07	120.0	0.965	0.000	0.965	1.8	1.6	4.36	1.43	0.09	69.0	-9999.0	-9999.0	-9999.0	-9999.0	0.280	1.0
16.142	5.17	5.24	0.06	1.15	5.85	1.0E-07	120.0	0.969	0.000	0.969	1.9	1.6	4.41	1.41	0.10	68.4	-9999.0	-9999.0	-9999.0	-9999.0	0.284	1.0
16.207	5.24	5.30	0.07	1.32	5.65	1.0E-07	120.0	0.972	0.000	0.972	1.9	1.7	4.45	1.62	0.09	70.1	-9999.0	-9999.0	-9999.0	-9999.0	0.289	1.0
16.273	5.36	5.43	0.06	1.11	5.81	1.0E-07	120.0	0.976	0.000	0.976	1.9	1.7	4.56	1.35	0.09	66.9	-9999.0	-9999.0	-9999.0	-9999.0	0.297	1.0
16.338	5.49	5.55	0.08	1.44	5.59	1.0E-07	120.0	0.980	0.000	0.980	2.0	1.8	4.67	1.75	0.09	70.0	-9999.0	-9999.0	-9999.0	-9999.0	0.305	1.0
16.404	5.36	5.42	0.08	1.48	5.51	1.0E-07	120.0	0.984	0.000	0.984	2.0	1.7	4.51	1.81	0.09	71.4	-9999.0	-9999.0	-9999.0	-9999.0	0.296	1.0
16.470	4.92	4.98	0.07	1.41	5.25	1.0E-07	120.0	0.988	0.000	0.988	1.9	1.6	4.04	1.76	0.09	74.3	-9999.0	-9999.0	-9999.0	-9999.0	0.266	0.9
16.535	5.62	5.68	0.06	1.06	5.61	1.0E-07	120.0	0.992	0.000	0.992	2.0	1.7	4.73	1.28	0.09	65.1	-9999.0	-9999.0	-9999.0	-9999.0	0.313	1.0
16.601	5.49	5.56	0.08	1.44	5.73	1.0E-07	120.0	0.996	0.000	0.996	2.0	1.7	4.58	1.76	0.09	70.6	-9999.0	-9999.0	-9999.0	-9999.0	0.304	1.0
16.666	5.24	5.31	0.07	1.32	5.87	1.0E-07	120.0	1.000	0.000	1.000	1.9	1.6	4.31	1.63	0.10	71.2	-9999.0	-9999.0	-9999.0	-9999.0	0.287	1.0
16.732	4.98	5.04	0.07	1.39	5.67	1.0E-07	120.0	1.004	0.000	1.004	1.9	1.6	4.02	1.74	0.10	74.2	-9999.0	-9999.0	-9999.0	-9999.0	0.269	0.9
16.798	5.87	5.94	0.07	1.18	5.77	1.0E-07	120.0	1.008	0.000	1.008	2.1	1.8	4.89	1.42	0.08	65.6	-9999.0	-9999.0	-9999.0	-9999.0	0.329	1.1
16.863	6.20	6.26	0.06	0.96	5.63	1.0E-07	120.0	1.012	0.000	1.012	2.1	1.8	5.18	1.15	0.08	61.1	-9999.0	-9999.0	-9999.0	-9999.0	0.350	1.1
16.929	6.65	6.71	0.06	0.90	6.11	1.0E-07	120.0	1.016	0.000	1.016	2.2	1.9	5.61	1.06	0.08	57.9	-9999.0	-9999.0	-9999.0	-9999.0	0.380	1.2
16.995	6.52	6.57	0.07	1.07	5.31	1.0E-07	120.0	1.020	0.000	1.020	2.2	1.9	5.45	1.26	0.07	61.0	-9999.0	-9999.0	-9999.0	-9999.0	0.370	1.2
17.060	5.81	5.88	0.05	0.85	5.69	1.0E-07	120.0	1.024	0.000	1.024	2.0	1.7	4.74	1.03	0.08	62.2	-9999.0	-9999.0	-9999.0	-9999.0	0.323	1.0
17.126	6.13	6.20	0.07	1.13	6.01	1.0E-07	120.0	1.028	0.000	1.028	2.1	1.8	5.03	1.36	0.08	64.1	-9999.0	-9999.0	-9999.0	-9999.0	0.345	1.1
17.191	5.62	5.69	0.08	1.41	6.15	1.0E-07	120.0	1.032	0.000	1.032	2.1	1.7	4.52	1.72	0.10	70.6	-9999.0	-9999.0	-9999.0	-9999.0	0.311	1.0
17.257	4.79	4.85	0.08	1.65	5.75	1.0E-07	120.0	1.035	0.000	1.035	1.9	1.5	3.69	2.10	0.11	80.0	-9999.0	-9999.0	-9999.0	-9999.0	0.255	0.8
17.323	4.41	4.47	0.09	2.02	5.35	5.0E-07	120.0	1.039	0.000	1.039	1.9	1.5	3.30	2.63	0.11	87.6	-9999.0	-9999.0	-9999.0	-9999.0	0.229	0.8
17.388	2.81	2.87	0.10	3.50	5.51	5.0E-08	120.0	1.043	0.000	1.043	1.8	1.1	1.75	5.50	0.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.122	0.6
17.454	1.27	1.34	0.10	7.49	6.07	1.0E-15	120.0	1.047	0.000	1.047	-9999.0	-9999.0	0.28	-9999.0	1.50	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.019	0.5
17.519	1.15	1.23	0.11	8.95	7.40	-9999.0	120.0	1.051	0.000	1.051	-9999.0	-9999.0	0.17	-9999.0	2.93	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
17.585	1.00	1.09	0.11	10.16	7.72	-9999.0	120.0	1.055	0.000	1.055	-9999.0	-9999.0	0.03	-9999.0	18.12	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
17.651	1.00	1.13	0.10	8.83	12.24	-9999.0	120.0	1.059	0.000	1.059	-9999.0	-9999.0	0.07	-9999.0	11.66	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
17.716	1.40	1.56	0.12	7.71	14.58	1.0E-15	120.0	1.063	0.000	1.063	-9999.0	-9999.0	0.47	-9999.0	2.11	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.033	0.5
17.782	1.00	1.18	0.12	10.23	16.06	-9999.0	120.0	1.067	0.000	1.067	-9999.0	-9999.0	0.10	-9999.0	10.61	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
17.848	1.27	1.47	0.12	8.17	18.41	-9999.0	120.0	1.071	0.000	1.071	-9999.0	-9999.0	0.37	-9999.0	3.30	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
17.913	1.00	1.21	0.12	9.95	19.14	-9999.0	120.0	1.075	0.000	1.075	-9999.0	-9999.0	0.13	-9999.0	10.25	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
17.979	1.00	1.23	0.11	8.98	20.82	-9999.0	120.0	1.079	0.000	1.079	-9999.0	-9999.0	0.14	-9999.0	10.09	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.044	1.00	1.26	0.12	9.55	23.84	-9999.0	120.0	1.083	0.000	1.083	-9999.0	-9999.0	0.16	-9999.0	9.68	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.110	1.00	1.26	0.12	9.55	23.75	-9999.0	120.0	1.087	0.000	1.087	-9999.0	-9999.0	0.16	-9999.0	9.92	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.176	1.00	1.25	0.12	9.64	22.73	-9999.0	120.0	1.091	0.000	1.091	-9999.0	-9999.0	0.14	-9999.0	10.40	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.241	1.00	1.26	0.11	8.73	24.16	-9999.0	120.0	1.095	0.000	1.095	-9999.0	-9999.0	0.15	-9999.0	10.30	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.307	1.00	1.27	0.10	7.90	24.59	1.0E-15	120.0	1.098	0.000	1.098	-9999.0	-9999.0	0.15	-9999.0	10.44	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.011	0.5
18.372	1.00	1.27	0.10	7.88	24.89	1.0E-15	120.0	1.102	0.000	1.102	-9999.0	-9999.0	0.15	-9999.0	10.61	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.011	0.5
18.438	1.00	1.29	0.10	7.79	26.33	1.0E-15	120.0	1.106	0.000	1.106	-9999.0	-9999.0	0.16	-9999.0	10.50	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.012	0.5
18.504	1.00	1.30	0.09	6.92	27.81	1.0E-15	120.0	1.110	0.000	1.110	-9999.0	-9999.0	0.17	-9999.0	10.40	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.013	0.5
18.569	1.00	1.29	0.09	6.97	26.98	1.0E-15	120.0	1.114	0.000	1.114	-9999.0	-9999.0	0.16	-9999.0	10.81	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.012	0.5
18.635	1.00	1.30	0.07	5.40	27.43	1.0E-15	120.0	1.118	0.000	1.118	-9999.0	-9999.0	0.16	-9999.0	10.93	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.012	0.5
18.701	1.00	1.30	0.08	6.16	27.77	1.0E-15	120.0	1.122	0.000	1.122	-9999.0	-9999.0	0.16	-9999.0	11.09	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.012	0.5
18.766	1.00	1.31	0.09	6.89	28.39	1.0E-15	120.0	1.126	0.000	1.126	-9999.0	-9999.0	0.16	-9999.0	11.16	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.012	0.5
18.832	1.00	1.24	0.09	7.28	21.93	1.0E-15	120.0	1.130	0.000	1.130	-9999.0	-9999.0	0.10	-9999.0	14.43	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.007	0.5
18.897	1.00	1.29	0.11	8.55	26.65	-9999.0	120.0	1.134	0.000	1.134	-9999.0	-9999.0	0.14	-9999.0	12.26	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
18.963	1.00	1.33	0.14	10.59	29.90	-9999.0	120.0	1.138	0.000	1.138	-9999.0	-9999.0	0.16	-9999.0	11.47	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
19.029	2.43	2.75	0.19	6.91	30.42	1.0E-15	120.0	1.142	0.000	1.142	-9999.0	-9999.0	1.41	-9999.0	1.36	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.108	0.5
19.094	3.01	3.29	0.28	8.52	26.61	-9999.0	120.0	1.146	0.000	1.146	-9999.0	-9999.0	1.88	-9999.0	0.89	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0
19.160	7.99	8.31	0.37	4.46	29.59	5.0E-08	120.0	1.150	0.000	1.150	3.3	2.6	6.23	5.18	0.30	81.2	-9999.0	-9999.0	-9999.0	-9999.0	0.477	1.4
19.225	14.70	15.02	0.40	2.67	29.59	5.0E-06	120.0	1.154	0.000	1.154	4.6	3.9	12.02	2.89	0.15	53.4	-9999.0	-9999.0	-9999.0	-9999.0	0.924	3.3
19.291	18.59	18.82	0.39	2.08	21.81	5.0E-05	120.0	1.157	0.000	1.157	5.3	4.5	15.26	2.21	0.09	44.3	30.0	32.0	-9999.0	-9999.0	1.178	4.7
19.357	24.08	24.22	0.39	1.61	13.23	5.0E-05	120.0	1.161	0.000	1.161	6.3	5.4	19.85	1.70	0.04	35.9	30.0	34.0	-9999.0	-9999.0	1.537	7.0
19.422	32.77	32.85	0.37	1.13	7.68	5.0E-04	120.0	1.165	0.000	1.165	7.7	7.2	27.19	1.17	0.02	25.4	32.6	36.0	-9999.0	-9999.0	-9999.0	-9999.0
19.488	39.42	39.45	0.35	0.89	3.33	5.0E-04	120.0	1.169	0.000	1.169	8.7	8.2	32.74	0.92	0.01	20.8	37.8	36.0	3.570	140.9	-9999.0	-9999.0
19.554	42.67	42.69	0.30	0.70	1.27	5.0E-04	120.0	1.173	0.000	1.173	9.1	8.6	35.38	0.72	0.00	18.0	40.0	38.0	3.446	147.1	-9999.0	-9999.0
19.619	44.21	44.21	0.28	0.63	-0.16	5.0E-04	120.0	1.177	0.000	1.177	9.3	8.8	36.55	0.65	0.00	16.9	40.9	38.0	3.393	150.0	-9999.0	-9999.0
19.685	45.42	45.41	0.22	0.49	-0.67	5.0E-03	120.0	1.181	0.000	1.181	9.3	8.8	37.45	0.50	0.00	5.0	41.6	38.0	3.353	152.3	-9999.0	-9999.0
19.750	45.29	45.29	0.16	0.35	0.16	5.0E-03	120.0	1.185	0.000	1.185	9.1	8.5	37.22	0.36	0.00	5.0	41.5	38.0	3.361	152.2	-9999.0	-9999.0
19.816	44.27	44.28	0.14	0.32	1.06	5.0E-03	120.0	1.189	0.000	1.189	8.9	8.3	36.24	0.33	0.00	5.0	40.8	38.0	3.401	150.6	-9999.0	-9999.0
19.882	43.32	43.35	0.13	0.30	3.10	5.0E-03	120.0	1.193	0.000	1.193	8.7	8.1	35.34	0.31	0.01	5.0	40.2	38.0	3.439	149.1	-9999.0	-9999.0
19.947	41.33	41.36	0.11	0.27	4.56	5.0E-03	120.0	1.197	0.000	1.197	8.3	7.7	33.57	0.27	0.01	5.0	38.8	36.0	3.519	145.6	-9999.0	-9999.0
20.013	36.54	36.60	0.11	0.30	6.01	5.0E-03	120.0	1.201	0.000	1.201	7.5	7.0	29.48	0.31	0.01	5.0	35.2	36.0	3.721	136.2	-9999.0	-9999.0
20.078	33.22	33.29	0.13	0.39	6.13	5.0E-04	120.0	1.205	0.000	1.205	7.1	6.6	26.63	0.41	0.01	5.0	32.5	36.0	-9999.0	-9999.0	-9999.0	-9999.0
20.144	29.00	29.07	0.11	0.38	6.32	5.0E-04	120.0	1.209	0.000	1.209	6.3	5.9	23.05	0.40	0.02	5.0	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
20.210	24.91	24.98	0.13	0.52	6.32	5.0E-04	120.0	1.213	0.000	1.213	5.7	5.3	19.60	0.55	0.02	23.7	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
20.275	19.93	19.97	0.10	0.50	4.29	5.0E-04	120.0	1.217	0.000	1.217	4.7	4.4	15.42	0.53	0.02	27.0	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
20.341	17.69	17.76	0.09	0.51	5.81	5.0E-05	120.0	1.220	0.000	1.220	4.3	4.0	13.55	0.55	0.03	29.2	30.0	32.0	-9999.0	-9999.0	1.102	3.9
20.407	15.14	15.21	0.08	0.53	6.62	5.0E-05	120.0	1.224	0.000	1.224	3.9	3.1	11.42	0.57	0.03	35.5	30.0	30.0	-9999.0	-9999.0	0.932	3.1
20.472	13.67	13.74	0.09	0.66	6.44	5.0E-05	120.0	1.228	0.000	1.228	3.7	2.9	10.19	0.72	0.04	39.8	30.0	30.0	-9999.0	-9999.0	0.834	2.6
20.538	12.20	12.25	0.11	0.90	4.76	5.0E-05	120.0	1.232	0.000	1.232	3.5	2.7	8.94	1.00	0.03	45.9	30.0	30.0	-9999.0	-9999.0	0.735	2.2
20.603	11.69	11.74	0.12	1.02	5.01	5.0E-05	120.0	1.236	0.000	1.236	3.5	2.6	8.50	1.14	0.03	48.6	30.0	30.0	-9999.0	-9999.0	0.700	2.0
20.669	11.31	11.36	0.13	1.15	5.07	5.0E-05	120.0	1.240	0.000	1.240	3.4	2.6	8.16	1.29	0.04	51.0	30.0	30.0	-9999.0	-9999.0	0.675	1.9
20.735	12.52	12.58	0.13	1.04	5.11	5.0E-05	120.0	1.244	0.000	1.244	3.7	2.8	9.11	1.15	0.03	47.1	30.0	30.0	-9999.0	-9999.0	0.755	2.2
20.800	14.37	14.43	0.12	0.83	5.29	5.0E-05	120.0	1.248	0.000	1.248	4.0	3.0	10.56	0.91	0.03	41.3	30.0	30.0	-9999.0	-9999.0	0.879	2.7
20.866	15.02	15.07	0.11	0.73	4.80	5.0E-05	120.0	1.252	0.000	1.252	4.1	3.1	11.04	0.80	0.03	39.1	30.0	30.0	-9999.0	-9999.0	0.921	2.9
20.932	16.16	16.20	0.10	0.62	4.01	5.0E-05	120.0	1.256	0.000	1.256	4.2	3.2	11.90	0.67	0.02	36.0	30.0	30.0	-9999.0	-9999.0	0.996	3.2
20.997	15.65	15.68	0.10	0.64	3.08	5.0E-05	120.0	1.260	0.000	1.260	4.1	3.2	11.45	0.70	0.02	37.1	30.0	30.0	-9999.0	-9999.0	0.961	3.1
21.063	16.48	16.50	0.15	0.91	1.84	5.0E-05	120.0	1.264	0.000	1.264	4.5	3.4	12.06	0.99	0.01	39.4	30.0	30.0	-9999.0	-9999.0	1.016	3.3
21.128	16.48	16.55	0.14	0.85	6.24	5.0E-05	120.0	1.268	0.000	1.268	4.4	3.4	12.05	0.92	0.03	38.7	30.0	30.0	-9999.0	-9999.0	1.019	3.3
21.194	18.20	18.24	0.16	0.88	3.52	5.0E-05	120.0	1.272	0.000	1.272	4.8	3.7	13.35	0.95	0.01	36.9	30.0	32.0	-9999.0	-9999.0	1.131	3.8
21.260	18.39	18.45	0.16	0.87	5.11	5.0E-05	120.0	1.276	0.000	1.276	4.8	3.7	13.46	0.93	0.02	36.6	30.0	32.0	-9999.0	-9999.0	1.145	3.9
21.325	18.39	18.45	0.17	0.92	5.39	5.0E-05	120.0	1.280	0.000	1.280	4.9	3.7	13.42	0.99	0.02	37.3	30.0	32.0	-9999.0	-9999.0	1.145	3.9
21.391	17.95	18.03	0.15	0.83	7.07	5.0E-05	120.0	1.283	0.000	1.283	4.7	3.6	13.05	0.90	0.03	36.9	30.0	30.0	-9999.0	-9999.0	1.116	3.7
21.456	18.20	18.28	0.18	0.99	6.85	5.0E-05	120.0	1.287	0.000	1.287	4.9	3.7	13.20	1.06	0.03	38.3	30.0	30.0	-9999.0	-9999.0	1.133	3.8
21.522	18.14	18.21	0.14	0.77	5.95	5.0E-05	120.0	1.291	0.000	1.291	4.8	3.6	13.10	0.83	0.03	36.0	30.0	30.0	-9999.0	-9999.0	1.128	3.7
21.588	18.33	18.40	0.12	0.65	6.22	5.0E-05	120.0	1.295	0.000	1.295	4.6	4.1	13.21	0.70	0.03	31.1	30.0	30.0	-9999.0	-9999.0	1.140	3.8
21.653	19.23	19.29	0.10	0.52	6.05	5.0E-04	120.0	1.299	0.000	1.299	4.6	4.2	13.85	0.56	0.02	28.5	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
21.719	20.82	20.90	0.09	0.43	6.95	5.0E-04	120.0	1.303	0.000	1.303	4.9	4.4	15.03	0.46	0.03	25.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
21.785	22.48	22.57	0.12	0.53	7.50	5.0E-04	120.0	1.307	0.000	1.307	5.3	4.7	16.26	0.57	0.03	26.0	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
21.850	25.10	25.16	0.13	0.52	5.79	5.0E-04	120.0	1.311	0.000	1.311	5.8	5.2	18.19	0.55	0.02	24.1	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
21.916	25.68	25.76	0.15	0.58	6.87	5.0E-04	120.0	1.315	0.000	1.315	5.9	5.3	18.59	0.62	0.02	24.6	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
21.981	25.68	25.75	0.20	0.78	6.18	5.0E-04	120.0	1.319	0.000	1.319	6.1	5.4	18.52	0.82	0.02	26.9	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
22.047	24.08	24.17	0.23	0.95	8.53	5.0E-04	120.0	1.323	0.000	1.323	5.9	5.2	17.27	1.01	0.03	29.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
22.113	29.07	29.16	0.23	0.79	7.91	5.0E-04	120.0	1.327	0.000	1.327	6.8	6.0	20.97	0.83	0.02	25.1	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
22.178	39.55	39.65	0.24	0.61	9.87	5.0E-04	120.0	1.331	0.000	1.331	8.5	7.6	28.80	0.63	0.02	18.8	36.0	36.0	3.710	147.1	-9999.0	-9999.0
22.244	62.73	62.84	0.23	0.37	9.89	5.0E-03	120.0	1.335	0.000	1.335	12.1	10.7	46.08	0.37	0.01	5.0	49.2	38.0	2.973	186.8	-9999.0	-9999.0
22.309	87.39	87.52	0.26	0.30	11.65	5.0E-02	120.0	1.339	0.000	1.339	15.9	14.0	64.38	0.30	0.01	5.0	58.7	40.0	2.534	221.8	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
22.375	112.75	112.87	0.28	0.25	10.77	5.0E-02	120.0	1.343	0.000	1.343	19.6	17.3	83.07	0.25	0.01	4.6	65.9	42.0	2.292	258.7	-9999.0	-9999.0
22.441	133.83	133.92	0.29	0.22	7.58	5.0E-02	120.0	1.346	0.000	1.346	22.6	19.9	98.46	0.22	0.00	3.2	70.8	42.0	2.169	290.5	-9999.0	-9999.0
22.506	150.64	150.73	0.26	0.17	8.44	5.0E-02	120.0	1.350	0.000	1.350	24.7	21.8	110.62	0.17	0.00	2.1	74.1	42.0	2.092	315.3	-9999.0	-9999.0
22.572	165.20	165.30	0.30	0.18	8.91	5.0E-02	120.0	1.354	0.000	1.354	26.9	23.6	121.05	0.18	0.00	1.7	76.7	42.0	2.033	336.1	-9999.0	-9999.0
22.638	184.11	184.20	0.30	0.16	8.50	5.0E-02	120.0	1.358	0.000	1.358	29.4	25.8	134.61	0.16	0.00	1.0	79.8	44.0	1.970	362.9	-9999.0	-9999.0
22.703	204.30	204.45	0.33	0.16	14.72	5.0E+00	120.0	1.362	0.000	1.362	32.2	28.2	149.09	0.16	0.01	0.5	82.7	44.0	1.937	396.0	-9999.0	-9999.0
22.769	232.84	232.95	0.35	0.15	9.28	5.0E+00	120.0	1.366	0.000	1.366	36.0	31.5	169.51	0.15	0.00	0.0	86.4	44.0	2.030	472.9	-9999.0	-9999.0
22.834	262.81	262.91	0.44	0.17	9.44	5.0E+00	120.0	1.370	0.000	1.370	40.2	35.1	190.89	0.17	0.00	0.0	89.8	44.0	-9999.0	-9999.0	-9999.0	-9999.0
22.900	291.56	291.67	0.49	0.17	10.63	5.0E+00	120.0	1.374	0.000	1.374	44.1	38.4	211.27	0.17	0.00	0.0	92.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.966	314.68	314.77	0.60	0.19	7.83	5.0E+00	120.0	1.378	0.000	1.378	47.5	41.3	227.43	0.19	0.00	0.0	94.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.031	337.87	337.97	0.69	0.20	9.75	5.0E+00	120.0	1.382	0.000	1.382	50.8	44.2	243.57	0.21	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.097	359.91	360.02	0.78	0.22	9.71	5.0E+00	120.0	1.386	0.000	1.386	53.9	46.8	258.78	0.22	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.162	379.65	379.85	0.80	0.21	18.25	5.0E+00	120.0	1.390	0.000	1.390	56.5	49.0	272.32	0.21	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.228	396.38	396.49	0.84	0.21	10.03	5.0E+00	120.0	1.394	0.000	1.394	58.7	50.8	283.48	0.21	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.294	404.43	404.59	0.92	0.23	14.38	5.0E+00	120.0	1.398	0.000	1.398	60.1	51.9	288.48	0.23	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.359	419.64	419.75	1.04	0.25	10.16	5.0E+00	120.0	1.402	0.000	1.402	62.4	53.9	298.48	0.25	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.425	439.95	440.07	1.19	0.27	11.44	5.0E+00	120.0	1.406	0.000	1.406	65.6	56.5	312.10	0.27	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.491	460.14	460.25	1.32	0.29	10.88	5.0E+00	120.0	1.409	0.000	1.409	68.6	59.0	325.54	0.29	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
23.556	468.32	468.44	1.48	0.32	11.55	5.0E+00	120.0	1.413	0.000	1.413	70.2	60.3	330.43	0.32	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
23.622	463.98	464.11	1.60	0.35	12.66	5.0E+00	120.0	1.417	0.000	1.417	70.1	60.2	326.45	0.35	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
23.687	453.37	453.51	1.71	0.38	12.74	5.0E+00	120.0	1.421	0.000	1.421	69.2	59.3	318.08	0.38	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.753	446.97	447.10	1.79	0.40	11.51	5.0E+00	120.0	1.425	0.000	1.425	68.7	58.8	312.71	0.40	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.819	445.76	445.85	1.82	0.41	7.91	5.0E+00	120.0	1.429	0.000	1.429	68.6	58.6	310.97	0.41	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.884	444.94	445.06	1.85	0.42	11.00	5.0E+00	120.0	1.433	0.000	1.433	68.6	58.6	309.56	0.42	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
23.950	438.54	438.64	1.78	0.41	8.95	5.0E+00	120.0	1.437	0.000	1.437	67.6	57.6	304.24	0.41	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.015	425.77	425.90	1.70	0.40	11.34	5.0E+00	120.0	1.441	0.000	1.441	65.7	56.0	294.56	0.40	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.081	415.23	415.35	1.59	0.38	11.55	5.0E+00	120.0	1.445	0.000	1.445	64.0	54.4	286.46	0.39	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.147	402.39	402.51	1.49	0.37	11.85	5.0E+00	120.0	1.449	0.000	1.449	62.1	52.7	276.82	0.37	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.212	389.10	389.25	1.35	0.35	13.69	5.0E+00	120.0	1.453	0.000	1.453	59.9	50.8	266.94	0.35	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.278	388.14	388.31	1.26	0.33	15.78	5.0E+00	120.0	1.457	0.000	1.457	59.5	50.4	265.57	0.33	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.344	382.91	383.01	1.13	0.30	9.09	5.0E+00	120.0	1.461	0.000	1.461	58.4	49.3	261.22	0.30	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.409	380.67	380.79	1.04	0.27	11.06	5.0E+00	120.0	1.465	0.000	1.465	57.7	48.8	259.00	0.27	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.475	376.51	376.63	1.00	0.27	10.96	5.0E+00	120.0	1.469	0.000	1.469	57.1	48.1	255.47	0.27	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.540	372.17	372.26	1.01	0.27	8.36	5.0E+00	120.0	1.472	0.000	1.472	56.6	47.6	251.82	0.27	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.606	369.81	369.92	0.93	0.25	10.55	5.0E+00	120.0	1.476	0.000	1.476	56.0	47.1	249.56	0.25	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.672	363.99	364.12	0.88	0.24	11.95	5.0E+00	120.0	1.480	0.000	1.480	55.1	46.2	244.97	0.24	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.737	355.94	356.05	0.85	0.24	9.93	5.0E+00	120.0	1.484	0.000	1.484	53.9	45.2	238.88	0.24	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.803	345.92	346.04	0.78	0.23	11.36	5.0E+00	120.0	1.488	0.000	1.488	52.4	43.9	231.52	0.23	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.868	336.79	336.94	0.75	0.22	14.30	5.0E+00	120.0	1.492	0.000	1.492	51.1	42.8	224.81	0.22	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
24.934	331.54	331.66	0.74	0.22	10.45	5.0E+00	120.0	1.496	0.000	1.496	50.4	42.1	220.68	0.22	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
25.000	318.00	318.13	0.46	0.14	11.47	5.0E+00	120.0	1.500	0.000	1.500	47.5	39.7	211.08	0.15	0.00	0.0	94.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
25.065	301.65	301.76	0.41	0.14	10.18	5.0E+00	120.0	1.504	0.000	1.504	45.3	37.7	199.65	0.14	0.00	0.0	92.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
25.131	289.95	290.05	0.40	0.14	9.40	5.0E+00	120.0	1.508	0.000	1.508	43.8	36.4	191.36	0.14	0.00	0.0	91.3	44.0	-9999.0	-9999.0	-9999.0	-9999.0
25.197	278.59	278.69	0.37	0.13	9.46	5.0E+00	120.0	1.512	0.000	1.512	42.2	35.1	183.34	0.13	0.00	0.0	90.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
25.262	271.18	271.28	0.35	0.13	9.58	5.0E+00	120.0	1.516	0.000	1.516	41.2	34.2	177.97	0.13	0.00	0.0	89.3	44.0	-9999.0	-9999.0	-9999.0	-9999.0
25.328	256.42	256.53	0.31	0.12	9.60	5.0E+00	120.0	1.520	0.000	1.520	39.1	32.4	167.80	0.12	0.00	0.0	87.7	44.0	-9999.0	-9999.0	-9999.0	-9999.0
25.393	251.76	251.88	0.30	0.12	10.85	5.0E+00	120.0	1.524	0.000	1.524	38.5	31.9	164.31	0.12	0.00	0.0	87.1	44.0	2.093	527.1	-9999.0	-9999.0
25.459	244.98	245.08	0.29	0.12	9.14	5.0E+00	120.0	1.528	0.000	1.528	37.6	31.1	159.44	0.12	0.00	0.0	86.3	44.0	2.034	498.5	-9999.0	-9999.0
25.525	235.98	236.09	0.30	0.13	9.95	5.0E+00	120.0	1.532	0.000	1.532	36.4	30.1	153.15	0.13	0.00	0.0	85.2	44.0	1.984	468.4	-9999.0	-9999.0
25.590	224.74	224.85	0.30	0.13	10.75	5.0E+00	120.0	1.535	0.000	1.535	35.0	28.9	145.44	0.13	0.00	0.1	83.7	44.0	1.957	439.9	-9999.0	-9999.0
25.656	211.06	211.16	0.28	0.13	8.97	5.0E+00	120.0	1.539	0.000	1.539	33.1	27.3	136.17	0.13	0.00	0.4	81.9	44.0	1.960	413.9	-9999.0	-9999.0
25.721	194.77	194.86	0.27	0.14	7.83	5.0E-02	120.0	1.543	0.000	1.543	30.9	25.4	125.26	0.14	0.00	0.8	79.6	44.0	1.997	389.2	-9999.0	-9999.0
25.787	178.99	179.09	0.26	0.15	9.18	5.0E-02	120.0	1.547	0.000	1.547	28.8	23.7	114.75	0.15	0.00	1.2	77.1	42.0	2.052	367.6	-9999.0	-9999.0
25.853	163.48	163.58	0.21	0.13	9.68	5.0E-02	120.0	1.551	0.000	1.551	26.5	21.7	104.45	0.13	0.00	1.5	74.5	42.0	2.116	346.1	-9999.0	-9999.0
25.918	152.04	152.14	0.23	0.15	9.73	5.0E-02	120.0	1.555	0.000	1.555	25.0	20.5	96.83	0.15	0.00	2.2	72.4	42.0	2.167	329.7	-9999.0	-9999.0
25.984	138.75	138.84	0.28	0.20	8.75	5.0E-02	120.0	1.559	0.000	1.559	23.4	19.2	88.05	0.20	0.00	3.2	69.7	42.0	2.233	310.0	-9999.0	-9999.0
26.050	128.21	128.31	0.19	0.15	8.77	5.0E-02	120.0	1.563	0.000	1.563	21.6	17.7	81.09	0.15	0.00	3.1	67.4	42.0	2.293	294.2	-9999.0	-9999.0
26.115	118.44	118.54	0.18	0.15	9.22	5.0E-02	120.0	1.567	0.000	1.567	20.2	16.5	74.65	0.15	0.01	3.7	65.1	40.0	2.359	279.6	-9999.0	-9999.0
26.181	108.66	108.76	0.20	0.18	9.07	5.0E-02	120.0	1.571	0.000	1.571	18.9	15.4	68.24	0.19	0.01	4.7	62.6	40.0	2.438	265.2	-9999.0	-9999.0
26.246	100.55	100.65	0.25	0.25	8.77	5.0E-02	120.0	1.575	0.000	1.575	17.9	14.6	62.91	0.25	0.01	5.0	60.3	40.0	2.518	253.5	-9999.0	-9999.0
26.312	91.03	91.13	0.30	0.33	9.28	5.0E-02	120.0	1.579	0.000	1.579	16.8	13.6	56.72	0.34	0.01	5.0	57.4	40.0	2.633	239.9	-9999.0	-9999.0
26.378	80.43	80.52	0.40	0.50	9.24	5.0E-03	120.0	1.583	0.000	1.583	15.5	12.6	49.88	0.51	0.01	10.7	53.9	38.0	2.794	225.0	-9999.0	-9999.0
26.443	70.91	71.00	0.51	0.72	8.57	5.0E-03	120.0	1.587	0.000	1.587	14.4	11.7	43.75	0.74	0.01	14.1	50.2	38.0	2.976	211.3	-9999.0	-9999.0
26.509	63.43	63.54	0.60	0.95	10.16	5.0E-03	120.0	1.591	0.000	1.591	13.4	10.9	38.95	0.97	0.01	17.3	47.0	38.0	3.150	200.2	-9999.0	-9999.0
26.574	62.67	62.79	0.58	0.93	10.47	5.0E-03	120.0	1.595	0.000	1.595	13.3	10.7	38.38	0.95	0.01	17.3	46.6	38.0	3.172	199.1	-9999.0	-9999.0
26.640	63.05	63.22	0.59	0.94	15.45	5.0E-03	120.0	1.598	0.000	1.598	13.4	10.8	38.55	0.96	0.02	17.3	46.8	38.0	3.164	200.0	-9999.0	-9999.0
26.706	62.60	62.82	0.66	1.05	20.07	5.0E-03	120.0	1.602	0.000	1.602	13.5	10.9	38.20	1.08	0.02	18.3	46.6	38.0	3.177	199.6	-9999.0	-9999.0
26.771	63.81	63.98	0.74	1.16	15.41	5.0E-04	120.0	1.606	0.000	1.606	13.8	11.1	38.83	1.19	0.02	18.9	47.1	38.0	3.151	201.6	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
26.837	68.99	69.12	0.81	1.17	11.83	5.0E-03	120.0	1.610	0.000	1.610	14.8	11.9	41.92	1.20	0.01	18.2	49.2	38.0	3.033	209.7	-9999.0	-9999.0
26.903	76.14	76.18	0.74	0.97	3.20	5.0E-03	120.0	1.614	0.000	1.614	15.7	12.7	46.19	0.99	0.00	15.6	52.0	38.0	2.892	220.3	-9999.0	-9999.0
26.968	80.94	80.95	0.70	0.87	1.08	5.0E-03	120.0	1.618	0.000	1.618	16.4	13.2	49.03	0.88	0.00	14.1	53.7	38.0	2.809	227.4	-9999.0	-9999.0
27.034	84.52	84.52	0.71	0.84	0.02	5.0E-03	120.0	1.622	0.000	1.622	17.0	13.6	51.10	0.86	0.00	13.5	54.9	38.0	2.754	232.8	-9999.0	-9999.0
27.099	90.84	90.85	0.78	0.86	0.51	5.0E-03	120.0	1.626	0.000	1.626	18.1	14.5	54.87	0.88	0.00	12.9	56.9	40.0	2.664	242.0	-9999.0	-9999.0
27.165	97.04	97.04	0.88	0.91	0.73	5.0E-03	120.0	1.630	0.000	1.630	19.3	15.4	58.54	0.92	0.00	12.7	58.8	40.0	2.589	251.2	-9999.0	-9999.0
27.231	103.10	103.11	1.00	0.97	0.51	5.0E-03	120.0	1.634	0.000	1.634	20.5	16.3	62.10	0.99	0.00	12.6	60.5	40.0	2.524	260.3	-9999.0	-9999.0
27.296	109.75	109.75	1.13	1.03	0.18	5.0E-03	120.0	1.638	0.000	1.638	21.7	17.3	66.01	1.05	0.00	12.5	62.3	40.0	2.463	270.3	-9999.0	-9999.0
27.362	115.63	115.63	1.25	1.08	0.35	5.0E-03	120.0	1.642	0.000	1.642	22.9	18.2	69.43	1.10	0.00	12.4	63.7	40.0	2.415	279.3	-9999.0	-9999.0
27.427	122.02	122.03	1.35	1.11	0.90	5.0E-03	120.0	1.646	0.000	1.646	24.0	19.1	73.15	1.12	0.00	12.1	65.2	40.0	2.370	289.2	-9999.0	-9999.0
27.493	125.01	125.03	1.44	1.15	1.60	5.0E-03	120.0	1.650	0.000	1.650	24.6	19.6	74.79	1.17	0.00	12.2	65.9	40.0	2.351	294.0	-9999.0	-9999.0
27.559	126.42	126.43	1.54	1.22	1.62	5.0E-03	120.0	1.654	0.000	1.654	25.0	19.9	75.46	1.24	0.00	12.5	66.2	40.0	2.344	296.4	-9999.0	-9999.0
27.624	125.92	125.93	1.60	1.27	1.72	5.0E-03	120.0	1.657	0.000	1.657	25.1	19.9	74.98	1.29	0.00	12.9	66.0	40.0	2.349	295.8	-9999.0	-9999.0
27.690	125.20	125.23	1.67	1.34	2.39	5.0E-03	120.0	1.661	0.000	1.661	25.1	19.9	74.37	1.35	0.00	13.3	65.8	40.0	2.355	295.0	-9999.0	-9999.0
27.756	121.43	121.46	1.71	1.41	2.78	5.0E-03	120.0	1.665	0.000	1.665	24.6	19.5	71.94	1.43	0.00	14.0	64.9	40.0	2.383	289.4	-9999.0	-9999.0
27.821	116.39	116.42	1.73	1.49	2.51	5.0E-03	120.0	1.669	0.000	1.669	23.8	18.9	68.74	1.51	0.00	14.9	63.7	40.0	2.422	282.0	-9999.0	-9999.0
27.887	110.45	110.48	1.72	1.56	2.53	5.0E-03	120.0	1.673	0.000	1.673	22.9	18.1	65.02	1.58	0.00	15.8	62.1	40.0	2.474	273.3	-9999.0	-9999.0
27.952	104.25	104.29	1.71	1.64	3.06	5.0E-04	120.0	1.677	0.000	1.677	21.9	17.3	61.18	1.67	0.00	16.9	60.4	40.0	2.535	264.3	-9999.0	-9999.0
28.018	97.93	97.96	1.70	1.74	3.04	5.0E-04	120.0	1.681	0.000	1.681	20.9	16.5	57.27	1.77	0.00	18.1	58.6	40.0	2.606	255.3	-9999.0	-9999.0
28.084	93.33	93.36	1.70	1.83	3.38	5.0E-04	120.0	1.685	0.000	1.685	20.2	15.9	54.41	1.86	0.00	19.1	57.2	40.0	2.665	248.8	-9999.0	-9999.0
28.149	87.77	87.81	1.74	1.99	3.42	5.0E-04	120.0	1.689	0.000	1.689	19.3	15.2	50.99	2.03	0.00	20.6	55.4	38.0	2.745	241.0	-9999.0	-9999.0
28.215	84.13	84.18	1.67	1.99	4.07	5.0E-04	120.0	1.693	0.000	1.693	18.7	14.7	48.72	2.03	0.00	21.1	54.2	38.0	2.803	236.0	-9999.0	-9999.0
28.280	85.35	85.39	1.03	1.21	3.97	5.0E-03	120.0	1.697	0.000	1.697	17.8	14.0	49.32	1.23	0.00	16.3	54.5	38.0	2.786	237.9	-9999.0	-9999.0
28.346	86.75	86.78	0.87	1.01	2.31	5.0E-03	120.0	1.701	0.000	1.701	17.7	13.9	50.02	1.03	0.00	14.7	55.0	38.0	2.767	240.1	-9999.0	-9999.0
28.412	84.32	84.33	0.78	0.93	0.04	5.0E-03	120.0	1.705	0.000	1.705	17.2	13.4	48.46	0.95	0.00	14.4	54.1	38.0	2.808	236.8	-9999.0	-9999.0
28.477	80.81	80.80	0.72	0.89	-0.26	5.0E-03	120.0	1.709	0.000	1.709	16.5	12.9	46.29	0.91	0.00	14.6	52.9	38.0	2.869	231.9	-9999.0	-9999.0
28.543	78.83	78.84	0.70	0.89	0.39	5.0E-03	120.0	1.713	0.000	1.713	16.1	12.6	45.03	0.91	0.00	14.9	52.1	38.0	2.907	229.2	-9999.0	-9999.0
28.609	75.25	75.26	0.69	0.92	0.98	5.0E-03	120.0	1.717	0.000	1.717	15.6	12.1	42.85	0.94	0.00	15.6	50.8	38.0	2.977	224.1	-9999.0	-9999.0
28.674	71.42	71.43	0.70	0.98	0.26	5.0E-03	120.0	1.720	0.000	1.720	15.0	11.7	40.51	1.01	0.00	16.7	49.2	38.0	3.059	218.5	-9999.0	-9999.0
28.740	67.20	67.20	0.72	1.07	-0.43	5.0E-03	120.0	1.724	0.000	1.724	14.4	11.2	37.97	1.10	0.00	18.1	47.5	38.0	3.157	212.1	-9999.0	-9999.0
28.805	61.65	61.65	0.78	1.27	-0.41	5.0E-04	120.0	1.728	0.000	1.728	13.6	10.6	34.67	1.30	0.00	20.6	44.9	36.0	3.298	203.3	-9999.0	-9999.0
28.871	56.35	56.34	0.88	1.57	-0.24	5.0E-04	120.0	1.732	0.000	1.732	12.9	10.0	31.53	1.62	0.00	23.9	42.3	36.0	3.449	194.3	-9999.0	-9999.0
28.937	52.39	52.39	0.96	1.84	-0.04	5.0E-04	120.0	1.736	0.000	1.736	12.4	9.6	29.17	1.90	0.00	26.6	40.2	36.0	3.573	187.2	-9999.0	-9999.0
29.002	48.30	48.30	0.97	2.01	0.31	5.0E-05	120.0	1.740	0.000	1.740	11.7	9.1	26.76	2.09	0.00	28.8	37.9	36.0	3.712	179.3	3.104	10.0
29.068	46.25	46.26	0.81	1.76	0.57	5.0E-04	120.0	1.744	0.000	1.744	11.1	8.6	25.52	1.82	0.00	27.9	36.6	34.0	3.788	175.2	-9999.0	-9999.0
29.134	46.89	46.90	0.67	1.43	0.73	5.0E-04	120.0	1.748	0.000	1.748	10.9	8.5	25.83	1.49	0.00	25.6	36.9	34.0	3.768	176.7	-9999.0	-9999.0
29.199	44.78	44.78	0.48	1.07	0.06	5.0E-04	120.0	1.752	0.000	1.752	10.2	7.9	24.56	1.12	0.00	23.5	35.6	34.0	3.848	172.3	-9999.0	-9999.0
29.265	40.31	40.30	0.42	1.04	-0.77	5.0E-04	120.0	1.756	0.000	1.756	9.3	7.2	21.95	1.09	0.00	24.8	32.5	34.0	-9999.0	-9999.0	-9999.0	-9999.0
29.330	32.84	32.83	0.41	1.25	-1.21	5.0E-04	120.0	1.760	0.000	1.760	8.0	6.2	17.65	1.32	0.00	29.8	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
29.396	25.74	25.73	0.36	1.40	-1.58	5.0E-05	120.0	1.764	0.000	1.764	7.1	3.9	13.59	1.51	0.00	41.7	30.0	32.0	-9999.0	-9999.0	1.597	3.9
29.462	20.44	20.43	0.39	1.91	-1.12	5.0E-05	120.0	1.768	0.000	1.768	6.2	3.3	10.56	2.10	0.00	51.5	30.0	30.0	-9999.0	-9999.0	1.244	2.7
29.527	17.18	17.17	0.40	2.33	-0.87	5.0E-06	120.0	1.772	0.000	1.772	5.6	3.0	8.69	2.60	0.00	59.4	-9999.0	-9999.0	-9999.0	-9999.0	1.027	2.1
29.593	14.30	14.30	0.41	2.87	-0.65	5.0E-06	120.0	1.776	0.000	1.776	5.1	2.6	7.05	3.28	0.00	68.8	-9999.0	-9999.0	-9999.0	-9999.0	0.835	1.6
29.658	12.33	12.32	0.42	3.42	-0.57	5.0E-07	120.0	1.780	0.000	1.780	4.7	2.4	5.93	3.99	0.00	77.3	-9999.0	-9999.0	-9999.0	-9999.0	0.703	1.3
29.724	10.22	10.22	0.42	4.12	-0.45	5.0E-08	120.0	1.783	0.000	1.783	4.4	2.1	4.73	4.99	0.00	88.8	-9999.0	-9999.0	-9999.0	-9999.0	0.562	1.0
29.790	9.13	9.14	0.38	4.17	0.67	5.0E-08	120.0	1.787	0.000	1.787	4.1	1.9	4.11	5.18	0.01	94.2	-9999.0	-9999.0	-9999.0	-9999.0	0.490	0.9
29.855	9.39	9.41	0.27	2.88	1.92	5.0E-07	120.0	1.791	0.000	1.791	3.9	1.8	4.25	3.55	0.02	85.1	-9999.0	-9999.0	-9999.0	-9999.0	0.508	1.0
29.921	9.07	9.11	0.20	2.20	3.25	5.0E-06	120.0	1.795	0.000	1.795	3.6	1.7	4.07	2.74	0.03	81.6	-9999.0	-9999.0	-9999.0	-9999.0	0.487	0.9
29.987	8.18	8.23	0.17	2.07	4.39	5.0E-06	120.0	1.799	0.000	1.799	3.4	1.5	3.57	2.65	0.05	85.1	-9999.0	-9999.0	-9999.0	-9999.0	0.429	0.8
30.052	7.92	7.98	0.15	1.89	5.21	5.0E-06	120.0	1.803	0.000	1.803	3.3	1.5	3.42	2.44	0.06	85.0	-9999.0	-9999.0	-9999.0	-9999.0	0.411	0.8
30.118	7.54	7.61	0.14	1.84	7.05	5.0E-06	120.0	1.807	0.000	1.807	3.2	1.4	3.21	2.42	0.09	87.0	-9999.0	-9999.0	-9999.0	-9999.0	0.387	0.8
30.183	7.54	7.62	0.13	1.71	7.64	5.0E-06	120.0	1.811	0.000	1.811	3.2	1.4	3.21	2.24	0.09	85.7	-9999.0	-9999.0	-9999.0	-9999.0	0.387	0.8
30.249	7.48	7.58	0.14	1.85	9.07	5.0E-06	120.0	1.815	0.000	1.815	3.2	1.4	3.17	2.44	0.11	87.5	-9999.0	-9999.0	-9999.0	-9999.0	0.384	0.8
30.315	7.79	7.90	0.14	1.78	9.85	5.0E-06	120.0	1.819	0.000	1.819	3.3	1.4	3.34	2.31	0.12	84.9	-9999.0	-9999.0	-9999.0	-9999.0	0.405	0.8
30.380	8.18	8.30	0.15	1.81	11.06	5.0E-06	120.0	1.823	0.000	1.823	3.4	1.5	3.55	2.32	0.12	82.9	-9999.0	-9999.0	-9999.0	-9999.0	0.432	0.8
30.446	8.11	8.25	0.17	2.07	12.61	5.0E-06	120.0	1.827	0.000	1.827	3.4	1.5	3.51	2.65	0.14	85.7	-9999.0	-9999.0	-9999.0	-9999.0	0.428	0.8
30.511	8.75	8.90	0.18	2.03	13.75	5.0E-06	120.0	1.831	0.000	1.831	3.6	1.6	3.86	2.55	0.14	82.0	-9999.0	-9999.0	-9999.0	-9999.0	0.471	0.9
30.577	8.56	8.72	0.20	2.30	14.60	5.0E-06	120.0	1.835	0.000	1.835	3.6	1.6	3.75	2.91	0.15	85.3	-9999.0	-9999.0	-9999.0	-9999.0	0.459	0.9
30.643	8.75	8.91	0.22	2.47	14.78	5.0E-07	120.0	1.839	0.000	1.839	3.7	1.7	3.85	3.12	0.15	85.8	-9999.0	-9999.0	-9999.0	-9999.0	0.471	0.9
30.708	8.81	8.98	0.25	2.79	15.80	5.0E-07	120.0	1.843	0.000	1.843	3.8	1.7	3.87	3.51	0.16	87.9	-9999.0	-9999.0	-9999.0	-9999.0	0.476	0.9
30.774	9.32	9.51	0.28	2.95	16.99	5.0E-07	120.0	1.846	0.000	1.846	4.0	1.8	4.15	3.66	0.16	86.5	-9999.0	-9999.0	-9999.0	-9999.0	0.511	0.9
30.840	9.58	9.77	0.31	3.18	17.34	5.0E-07	120.0	1.850	0.000	1.850	4.1	1.9	4.28	3.92	0.16	86.9	-9999.0	-9999.0	-9999.0	-9999.0	0.528	1.0
30.905	9.52	9.71	0.33	3.41	17.56	5.0E-07	120.0	1.854	0.000	1.854	4.2	1.9	4.24	4.21	0.16	88.7	-9999.0	-9999.0	-9999.0	-9999.0	0.524	0.9
30.971	9.20	9.39	0.35	3.74	17.01	5.0E-08	120.0	1.858	0.000	1.858	4.2	1.9	4.05	4.66	0.16	92.3	-9999.0	-9999.0	-9999.0	-9999.0	0.502	0.9
31.036	9.96	10.13	0.38	3.76	15.78	5.0E-08	120.0	1.862	0.000	1.862	4.4	2.0	4.44	4.60	0.14	89.1	-9999.0	-9999.0	-9999.0	-9999.0	0.551	1.0
31.102	9.13	9.30	0.41	4.42	15.17	5.0E-08	120.0	1.866	0.000	1.866	4.3	1.9	3.98	5.53	0.15	96.8	-9999.0	-9999.0	-9999.0	-9999.0	0.495	0.9
31.168	10.22	10.38	0.42	4.05	14.70	5.0E-08	120.0	1.870	0.000	1.870	4.5	2.1	4.55	4.95	0.12	89.8	-9999.0	-9999.0	-9999.0	-9999.0	0.568	1.0
31.233	9.71	9.88	0.43	4.36	15.29	5.0E-08	120.0	1.874	0.000	1.874	4.4	2.0	4.27	5.38	0.14	93.8	-9999.0	-9999.0	-9999.0	-9999.0	0.534	1.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
31.299	10.28	10.44	0.45	4.32	14.52	5.0E-08	120.0	1.878	0.000	1.878	4.6	2.1	4.56	5.27	0.12	91.2	-9999.0	-9999.0	-9999.0	-9999.0	0.571	1.0
31.364	10.28	10.43	0.48	4.61	13.10	5.0E-08	120.0	1.882	0.000	1.882	4.6	2.1	4.54	5.63	0.11	92.8	-9999.0	-9999.0	-9999.0	-9999.0	0.570	1.0
31.430	10.35	10.48	0.49	4.69	12.68	5.0E-08	120.0	1.886	0.000	1.886	4.7	2.1	4.56	5.71	0.11	93.0	-9999.0	-9999.0	-9999.0	-9999.0	0.573	1.0
31.496	10.35	10.48	0.50	4.78	12.10	5.0E-08	120.0	1.890	0.000	1.890	4.7	2.1	4.54	5.84	0.10	93.6	-9999.0	-9999.0	-9999.0	-9999.0	0.572	1.0
31.561	10.15	10.28	0.49	4.78	11.36	5.0E-08	120.0	1.894	0.000	1.894	4.6	2.1	4.43	5.86	0.10	94.5	-9999.0	-9999.0	-9999.0	-9999.0	0.559	1.0
31.627	10.42	10.54	0.49	4.66	11.44	5.0E-08	120.0	1.898	0.000	1.898	4.7	2.1	4.55	5.68	0.10	92.9	-9999.0	-9999.0	-9999.0	-9999.0	0.576	1.0
31.693	10.74	10.87	0.50	4.61	12.08	5.0E-08	120.0	1.902	0.000	1.902	4.8	2.2	4.71	5.59	0.10	91.4	-9999.0	-9999.0	-9999.0	-9999.0	0.598	1.0
31.758	9.96	10.10	0.50	4.96	12.88	5.0E-08	120.0	1.906	0.000	1.906	4.7	2.1	4.30	6.11	0.11	96.5	-9999.0	-9999.0	-9999.0	-9999.0	0.547	1.0
31.824	10.54	10.67	0.49	4.60	12.20	5.0E-08	120.0	1.909	0.000	1.909	4.7	2.1	4.59	5.61	0.10	92.4	-9999.0	-9999.0	-9999.0	-9999.0	0.584	1.0
31.889	9.58	9.68	0.49	5.08	8.53	5.0E-08	120.0	1.913	0.000	1.913	4.6	2.0	4.06	6.33	0.08	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.517	0.9
31.955	9.13	9.23	0.48	5.21	8.85	5.0E-08	120.0	1.917	0.000	1.917	4.5	1.9	3.81	6.58	0.09	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.487	0.9
32.021	8.37	8.46	0.48	5.68	8.67	5.0E-08	120.0	1.921	0.000	1.921	4.4	1.8	3.41	7.35	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.436	0.8
32.086	9.39	9.50	0.47	4.96	9.79	5.0E-08	120.0	1.925	0.000	1.925	4.5	2.0	3.93	6.22	0.09	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.505	0.9
32.152	8.37	8.50	0.48	5.66	12.14	5.0E-08	120.0	1.929	0.000	1.929	4.4	1.8	3.41	7.32	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.438	0.8
32.217	8.50	8.65	0.48	5.56	13.65	5.0E-08	120.0	1.933	0.000	1.933	4.4	1.9	3.47	7.17	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.448	0.8
32.283	9.07	9.21	0.48	5.22	12.70	5.0E-08	120.0	1.937	0.000	1.937	4.5	1.9	3.75	6.62	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.485	0.9
32.349	9.20	9.33	0.48	5.16	12.14	5.0E-08	120.0	1.941	0.000	1.941	4.5	1.9	3.81	6.51	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.493	0.9
32.414	8.75	8.88	0.48	5.42	11.87	5.0E-08	120.0	1.945	0.000	1.945	4.5	1.9	3.57	6.94	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.462	0.8
32.480	9.39	9.52	0.50	5.27	11.69	5.0E-08	120.0	1.949	0.000	1.949	4.6	2.0	3.88	6.62	0.11	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.505	0.9
32.546	8.88	9.01	0.49	5.45	12.26	5.0E-08	120.0	1.953	0.000	1.953	4.5	1.9	3.62	6.96	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.471	0.8
32.611	8.81	8.95	0.47	5.27	12.64	5.0E-08	120.0	1.957	0.000	1.957	4.5	1.9	3.57	6.74	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.466	0.8
32.677	8.62	8.76	0.46	5.26	13.14	5.0E-08	120.0	1.961	0.000	1.961	4.4	1.8	3.47	6.78	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.453	0.8
32.742	9.39	9.53	0.44	4.63	13.06	5.0E-08	120.0	1.965	0.000	1.965	4.5	1.9	3.85	5.83	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.505	0.9
32.808	9.01	9.15	0.44	4.82	13.00	5.0E-08	120.0	1.969	0.000	1.969	4.4	1.9	3.65	6.14	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.479	0.8
32.874	9.07	9.22	0.45	4.89	13.31	5.0E-08	120.0	1.972	0.000	1.972	4.5	1.9	3.67	6.23	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.483	0.8
32.939	8.62	8.77	0.47	5.37	13.71	5.0E-08	120.0	1.976	0.000	1.976	4.5	1.8	3.44	6.94	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.453	0.8
33.005	9.32	9.47	0.47	4.97	14.06	5.0E-08	120.0	1.980	0.000	1.980	4.6	1.9	3.78	6.29	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.500	0.9
33.070	9.39	9.55	0.47	4.93	14.64	5.0E-08	120.0	1.984	0.000	1.984	4.6	1.9	3.81	6.23	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.504	0.9
33.136	10.09	10.25	0.49	4.79	14.84	5.0E-08	120.0	1.988	0.000	1.988	4.7	2.0	4.16	5.94	0.13	97.0	-9999.0	-9999.0	-9999.0	-9999.0	0.551	0.9
33.202	10.15	10.32	0.50	4.86	15.05	5.0E-08	120.0	1.992	0.000	1.992	4.8	2.0	4.18	6.02	0.13	97.1	-9999.0	-9999.0	-9999.0	-9999.0	0.555	0.9
33.267	9.77	9.94	0.50	5.04	15.29	5.0E-08	120.0	1.996	0.000	1.996	4.7	2.0	3.98	6.31	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.530	0.9
33.333	10.22	10.39	0.51	4.92	15.58	5.0E-08	120.0	2.000	0.000	2.000	4.8	2.0	4.20	6.09	0.13	97.2	-9999.0	-9999.0	-9999.0	-9999.0	0.560	0.9
33.399	9.58	9.74	0.52	5.35	14.30	5.0E-08	120.0	2.004	0.000	2.004	4.7	2.0	3.86	6.74	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.516	0.9
33.464	10.09	10.27	0.52	5.08	15.84	5.0E-08	120.0	2.008	0.000	2.008	4.8	2.0	4.11	6.31	0.14	98.8	-9999.0	-9999.0	-9999.0	-9999.0	0.551	0.9
33.530	10.03	10.22	0.53	5.20	16.73	5.0E-08	120.0	2.012	0.000	2.012	4.8	2.0	4.08	6.48	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.547	0.9
33.595	10.93	11.10	0.54	4.88	15.82	5.0E-08	120.0	2.016	0.000	2.016	5.0	2.1	4.51	5.96	0.13	94.4	-9999.0	-9999.0	-9999.0	-9999.0	0.605	1.0
33.661	10.74	10.93	0.55	5.05	17.66	5.0E-08	120.0	2.020	0.000	2.020	5.0	2.1	4.41	6.19	0.14	96.0	-9999.0	-9999.0	-9999.0	-9999.0	0.594	1.0
33.727	10.80	10.98	0.57	5.21	16.65	5.0E-08	120.0	2.024	0.000	2.024	5.1	2.1	4.42	6.38	0.13	96.6	-9999.0	-9999.0	-9999.0	-9999.0	0.597	1.0
33.792	10.86	11.04	0.56	5.09	16.83	5.0E-08	120.0	2.028	0.000	2.028	5.1	2.1	4.44	6.23	0.13	95.9	-9999.0	-9999.0	-9999.0	-9999.0	0.601	1.0
33.858	11.05	11.19	0.56	5.01	13.61	5.0E-08	120.0	2.032	0.000	2.032	5.1	2.1	4.51	6.13	0.11	95.0	-9999.0	-9999.0	-9999.0	-9999.0	0.611	1.0
33.923	10.61	10.73	0.59	5.51	11.91	5.0E-08	120.0	2.035	0.000	2.035	5.1	2.1	4.27	6.80	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.580	1.0
33.989	10.67	10.81	0.62	5.75	13.77	5.0E-08	120.0	2.039	0.000	2.039	5.1	2.1	4.30	7.08	0.11	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.585	1.0
34.055	11.18	11.34	0.63	5.57	15.27	5.0E-08	120.0	2.043	0.000	2.043	5.3	2.2	4.55	6.79	0.12	97.1	-9999.0	-9999.0	-9999.0	-9999.0	0.620	1.0
34.120	11.12	11.27	0.62	5.52	13.92	5.0E-08	120.0	2.047	0.000	2.047	5.2	2.2	4.50	6.74	0.11	97.3	-9999.0	-9999.0	-9999.0	-9999.0	0.615	1.0
34.186	10.74	10.88	0.60	5.53	12.86	5.0E-08	120.0	2.051	0.000	2.051	5.1	2.1	4.30	6.82	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.588	1.0
34.252	10.93	11.07	0.59	5.34	13.14	5.0E-08	120.0	2.055	0.000	2.055	5.1	2.1	4.39	6.56	0.10	97.5	-9999.0	-9999.0	-9999.0	-9999.0	0.601	1.0
34.317	10.42	10.57	0.60	5.69	13.88	5.0E-08	120.0	2.059	0.000	2.059	5.1	2.1	4.13	7.07	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.567	0.9
34.383	10.09	10.24	0.59	5.78	13.57	5.0E-08	120.0	2.063	0.000	2.063	5.0	2.0	3.96	7.23	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.545	0.9
34.448	10.28	10.41	0.57	5.49	11.26	5.0E-08	120.0	2.067	0.000	2.067	5.0	2.0	4.03	6.85	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.556	0.9
34.514	10.48	10.61	0.56	5.29	12.06	5.0E-08	120.0	2.071	0.000	2.071	5.0	2.0	4.12	6.58	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.569	0.9
34.580	10.28	10.44	0.52	4.99	14.08	5.0E-08	120.0	2.075	0.000	2.075	4.9	2.0	4.03	6.23	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.557	0.9
34.645	9.39	9.53	0.50	5.26	12.70	5.0E-08	120.0	2.079	0.000	2.079	4.8	1.9	3.58	6.73	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.497	0.8
34.711	9.58	9.70	0.47	4.86	10.83	5.0E-08	120.0	2.083	0.000	2.083	4.7	1.9	3.66	6.18	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.508	0.8
34.776	9.20	9.31	0.45	4.84	10.39	5.0E-08	120.0	2.087	0.000	2.087	4.6	1.8	3.46	6.24	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.482	0.8
34.842	8.56	8.67	0.46	5.32	10.57	5.0E-08	120.0	2.091	0.000	2.091	4.6	1.7	3.15	7.00	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.439	0.8
34.908	8.75	8.88	0.44	4.97	11.89	5.0E-08	120.0	2.095	0.000	2.095	4.6	1.7	3.24	6.50	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.452	0.8
34.973	8.62	8.76	0.43	4.92	13.12	5.0E-08	120.0	2.098	0.000	2.098	4.5	1.7	3.18	6.47	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.444	0.8
35.039	8.62	8.76	0.41	4.69	12.45	5.0E-08	120.0	2.102	0.000	2.102	4.5	1.7	3.16	6.18	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.444	0.8
35.105	8.24	8.37	0.40	4.79	11.95	5.0E-08	120.0	2.106	0.000	2.106	4.4	1.6	2.97	6.40	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.418	0.7
35.170	8.11	8.28	0.41	4.96	15.82	5.0E-08	120.0	2.110	0.000	2.110	4.4	1.6	2.92	6.66	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.411	0.7
35.236	8.24	8.43	0.42	5.00	17.40	5.0E-08	120.0	2.114	0.000	2.114	4.5	1.7	2.99	6.67	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.421	0.7
35.301	7.92	8.16	0.44	5.41	21.95	5.0E-08	120.0	2.118	0.000	2.118	4.5	1.6	2.85	7.30	0.26	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.403	0.7
35.367	9.45	9.74	0.45	4.63	26.53	5.0E-08	120.0	2.122	0.000	2.122	4.7	1.8	3.59	5.92	0.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.508	0.8
35.433	9.58	9.90	0.44	4.46	29.27	5.0E-08	120.0	2.126	0.000	2.126	4.7	1.8	3.66	5.67	0.27	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.518	0.8
35.498	9.26	9.55	0.43	4.52	26.23	5.0E-08	120.0	2.130	0.000	2.130	4.7	1.8	3.48	5.81	0.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.494	0.8
35.564	9.77	10.03	0.45	4.50	23.36	5.0E-08	120.0	2.134	0.000	2.134	4.8	1.8	3.70	5.72	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.526	0.8
35.629	9.64	9.89	0.46	4.66	22.93	5.0E-08	120.0	2.138	0.000	2.138	4.8	1.8	3.63	5.95	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.517	0.8
35.695	9.26	9.51	0.48	5.06	22.56	5.0E-08	120.0	2.142	0.000	2.142	4.8	1.8	3.44	6.53	0.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.491	0.8

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
35.761	8.43	8.67	0.48	5.55	21.85	5.0E-08	120.0	2.146	0.000	2.146	4.7	1.7	3.04	7.38	0.24	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.435	0.7
35.826	8.05	8.28	0.45	5.45	21.24	5.0E-08	120.0	2.150	0.000	2.150	4.6	1.7	2.85	7.36	0.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.409	0.7
35.892	6.78	7.01	0.43	6.15	21.63	5.0E-08	120.0	2.154	0.000	2.154	4.5	1.5	2.26	8.88	0.32	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.324	0.6
35.958	6.90	7.14	0.42	5.90	22.36	5.0E-08	120.0	2.158	0.000	2.158	4.5	1.5	2.31	8.45	0.32	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.6
36.023	6.52	6.77	0.40	5.92	23.73	5.0E-08	120.0	2.161	0.000	2.161	4.5	1.5	2.13	8.70	0.37	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.307	0.6
36.089	6.58	6.85	0.37	5.41	25.76	5.0E-08	120.0	2.165	0.000	2.165	4.3	1.4	2.17	7.91	0.40	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.313	0.6
36.154	6.84	7.15	0.35	4.91	28.86	5.0E-08	120.0	2.169	0.000	2.169	4.3	1.4	2.30	7.05	0.42	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.332	0.6
36.220	6.97	7.30	0.34	4.67	30.93	5.0E-08	120.0	2.173	0.000	2.173	4.3	1.4	2.36	6.65	0.43	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.342	0.6
36.286	7.41	7.74	0.35	4.53	30.87	5.0E-08	120.0	2.177	0.000	2.177	4.3	1.5	2.56	6.31	0.40	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.371	0.7
36.351	7.09	7.46	0.34	4.57	34.23	5.0E-08	120.0	2.181	0.000	2.181	4.3	1.4	2.42	6.46	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.352	0.6
36.417	7.60	8.00	0.34	4.26	37.08	5.0E-08	120.0	2.185	0.000	2.185	4.3	1.5	2.66	5.86	0.46	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.388	0.7
36.482	7.03	7.43	0.37	4.99	37.14	5.0E-08	120.0	2.189	0.000	2.189	4.4	1.5	2.39	7.08	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.349	0.6
36.548	7.48	7.91	0.38	4.81	40.23	5.0E-08	120.0	2.193	0.000	2.193	4.4	1.5	2.61	6.66	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.381	0.7
36.614	7.60	8.04	0.39	4.86	40.86	5.0E-08	120.0	2.197	0.000	2.197	4.5	1.5	2.66	6.69	0.50	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.390	0.7
36.679	7.86	8.31	0.40	4.82	41.96	5.0E-08	120.0	2.201	0.000	2.201	4.5	1.6	2.78	6.56	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.407	0.7
36.745	7.86	8.30	0.42	5.07	40.90	5.0E-08	120.0	2.205	0.000	2.205	4.6	1.6	2.77	6.91	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.406	0.7
36.811	7.16	7.58	0.43	5.68	39.51	5.0E-08	120.0	2.209	0.000	2.209	4.6	1.5	2.43	8.02	0.53	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.358	0.6
36.876	7.73	8.16	0.44	5.41	39.74	5.0E-08	120.0	2.213	0.000	2.213	4.6	1.6	2.69	7.42	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.396	0.7
36.942	7.48	7.90	0.45	5.71	38.79	5.0E-08	120.0	2.217	0.000	2.217	4.7	1.6	2.56	7.94	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.379	0.7
37.007	7.41	7.82	0.44	5.64	37.81	5.0E-08	120.0	2.220	0.000	2.220	4.6	1.6	2.52	7.88	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.373	0.7
37.073	7.60	8.03	0.45	5.62	39.84	5.0E-08	120.0	2.224	0.002	2.222	4.7	1.6	2.61	7.77	0.49	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.387	0.7
37.139	7.79	8.22	0.45	5.49	39.49	5.0E-08	120.0	2.228	0.004	2.224	4.7	1.6	2.69	7.53	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.399	0.7
37.204	7.99	8.42	0.46	5.47	40.20	5.0E-08	120.0	2.232	0.006	2.226	4.7	1.6	2.78	7.45	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.413	0.7
37.270	8.11	8.52	0.47	5.53	38.24	5.0E-08	120.0	2.236	0.008	2.228	4.8	1.7	2.82	7.49	0.44	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.419	0.7
37.336	7.99	8.36	0.46	5.52	33.95	5.0E-08	120.0	2.240	0.010	2.230	4.7	1.6	2.74	7.54	0.40	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.408	0.7
37.401	7.67	8.02	0.47	5.87	32.77	5.0E-08	120.0	2.244	0.013	2.232	4.8	1.6	2.59	8.15	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.385	0.7
37.467	7.67	8.01	0.48	6.01	31.19	5.0E-08	120.0	2.248	0.015	2.233	4.8	1.6	2.58	8.36	0.39	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.384	0.7
37.532	7.86	8.18	0.48	5.88	30.08	5.0E-08	120.0	2.252	0.017	2.235	4.8	1.6	2.65	8.11	0.36	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.395	0.7
37.598	7.54	7.88	0.48	6.11	31.46	5.0E-08	120.0	2.256	0.019	2.237	4.8	1.6	2.51	8.56	0.40	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.375	0.7
37.664	7.28	7.61	0.45	5.93	30.74	5.0E-08	120.0	2.260	0.021	2.239	4.7	1.5	2.39	8.43	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.357	0.6
37.729	7.22	7.54	0.43	5.71	30.13	5.0E-08	120.0	2.264	0.023	2.241	4.7	1.5	2.36	8.16	0.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.352	0.6
37.795	6.78	7.12	0.41	5.77	31.88	5.0E-08	120.0	2.268	0.025	2.243	4.6	1.5	2.16	8.47	0.47	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.324	0.6
37.860	6.65	6.99	0.39	5.59	31.68	5.0E-08	120.0	2.272	0.027	2.245	4.6	1.4	2.10	8.29	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.314	0.6
37.926	6.65	6.99	0.35	5.02	31.88	5.0E-08	120.0	2.276	0.029	2.247	4.4	1.4	2.10	7.44	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.314	0.6
37.992	6.52	6.88	0.32	4.66	33.68	5.0E-08	120.0	2.280	0.031	2.249	4.3	1.3	2.05	6.97	0.52	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.307	0.6
38.057	5.75	6.13	0.28	4.58	34.91	5.0E-08	120.0	2.283	0.033	2.250	4.2	1.2	1.71	7.29	0.64	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.257	0.6
38.123	5.75	6.14	0.24	3.92	35.46	5.0E-08	120.0	2.287	0.035	2.252	4.0	1.2	1.71	6.25	0.65	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.257	0.6
38.189	5.62	6.04	0.21	3.49	38.34	5.0E-08	120.0	2.291	0.037	2.254	3.9	1.1	1.66	5.62	0.73	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.250	0.6
38.254	6.90	7.28	0.20	2.75	35.75	5.0E-07	120.0	2.295	0.039	2.256	3.8	1.2	2.21	4.02	0.51	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.333	0.6
38.320	6.52	6.91	0.17	2.47	36.20	5.0E-07	120.0	2.299	0.041	2.258	3.7	1.1	2.04	3.70	0.56	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.307	0.6
38.385	6.20	6.60	0.15	2.28	37.29	5.0E-07	120.0	2.303	0.043	2.260	3.6	1.1	1.90	3.50	0.62	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.286	0.6
38.451	5.81	6.34	0.17	2.69	49.12	5.0E-07	120.0	2.307	0.045	2.262	3.7	1.1	1.79	4.22	0.86	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.269	0.6
38.517	6.13	6.71	0.19	2.84	53.19	5.0E-07	120.0	2.311	0.047	2.264	3.8	1.1	1.94	4.33	0.86	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.293	0.6
38.582	6.46	7.03	0.21	2.99	53.08	5.0E-07	120.0	2.315	0.049	2.266	3.9	1.2	2.08	4.47	0.80	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.314	0.6
38.648	6.27	6.76	0.23	3.41	46.07	5.0E-08	120.0	2.319	0.051	2.267	4.0	1.2	1.96	5.19	0.74	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.296	0.6
38.713	5.87	6.31	0.24	3.81	40.69	5.0E-08	120.0	2.323	0.053	2.269	4.1	1.2	1.76	6.03	0.72	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.266	0.6
38.779	5.81	6.12	0.26	4.26	28.39	5.0E-08	120.0	2.327	0.056	2.271	4.2	1.2	1.67	6.87	0.52	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.253	0.6
38.845	5.55	5.90	0.27	4.59	32.17	5.0E-08	120.0	2.331	0.058	2.273	4.3	1.2	1.57	7.58	0.63	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.238	0.5
38.910	5.11	5.49	0.26	4.74	35.28	5.0E-08	120.0	2.335	0.060	2.275	4.4	1.2	1.39	8.25	0.79	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.211	0.5
38.976	4.41	4.85	0.25	5.16	40.90	5.0E-08	120.0	2.339	0.062	2.277	4.9	1.2	1.10	9.97	1.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.168	0.5
39.042	4.22	4.69	0.22	4.70	43.75	5.0E-08	120.0	2.343	0.064	2.279	4.8	1.1	1.03	9.38	1.31	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.157	0.5
39.107	5.04	5.53	0.19	3.44	45.03	5.0E-08	120.0	2.346	0.066	2.281	4.0	1.0	1.40	5.99	1.00	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.212	0.5
39.173	4.79	5.30	0.18	3.40	47.13	5.0E-08	120.0	2.350	0.068	2.283	4.0	1.0	1.29	6.12	1.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.197	0.5
39.238	4.60	5.15	0.17	3.31	50.75	5.0E-08	120.0	2.354	0.070	2.284	4.0	1.0	1.22	6.10	1.28	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.186	0.5
39.304	4.47	5.05	0.17	3.37	53.61	5.0E-08	120.0	2.358	0.072	2.286	4.1	1.0	1.18	6.33	1.41	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.179	0.5
39.370	4.98	5.56	0.16	2.89	53.35	5.0E-08	120.0	2.362	0.074	2.288	3.8	1.0	1.40	5.02	1.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.213	0.5
39.435	4.79	5.37	0.16	2.99	53.12	5.0E-08	120.0	2.366	0.076	2.290	3.9	1.0	1.31	5.35	1.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.200	0.5
39.501	4.85	5.42	0.15	2.77	52.58	5.0E-08	120.0	2.370	0.078	2.292	3.8	1.0	1.33	4.93	1.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.203	0.5
39.566	4.85	5.43	0.15	2.77	53.21	5.0E-08	120.0	2.374	0.080	2.294	3.8	1.0	1.33	4.93	1.23	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.204	0.5
39.632	5.17	5.82	0.16	2.76	59.73	5.0E-08	120.0	2.378	0.082	2.296	3.8	1.0	1.50	4.66	1.23	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.229	0.5
39.698	5.55	6.22	0.17	2.74	61.67	5.0E-07	120.0	2.382	0.084	2.298	3.8	1.1	1.67	4.44	1.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.256	0.6
39.763	5.55	6.22	0.19	3.06	62.02	5.0E-08	120.0	2.386	0.086	2.300	3.9	1.1	1.67	4.96	1.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.256	0.6
39.829	6.27	6.88	0.19	2.77	56.84	5.0E-07	120.0	2.390	0.088	2.301	3.9	1.1	1.95	4.24	0.89	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.299	0.6
39.895	6.20	6.76	0.20	2.97	52.26	5.0E-08	120.0	2.394	0.090	2.303	3.9	1.1	1.90	4.59	0.84	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.6
39.960	6.06	6.66	0.21	3.16	55.31	5.0E-08	120.0	2.398	0.092	2.305	4.0	1.2	1.85	4.94	0.91	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.284	0.6
40.026	5.94	6.57	0.21	3.20	58.07	5.0E-08	120.0	2.402	0.094	2.307	4.0	1.1	1.81	5.05	0.98	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.278	0.6
40.091	5.30	5.93	0.21	3.55	57.74	5.0E-08	120.0	2.406	0.097	2.309	4.1	1.1	1.52	5.98	1.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.235	0.5
40.157	5.81	6.40	0.21	3.29	54.18	5.0E-08	120.0	2.409	0.099	2.311	4.0	1.1	1.73	5.28	0.95	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.266	0.6

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
40.223	5.94	6.55	0.19	2.91	56.17	5.0E-08	120.0	2.413	0.101	2.313	3.9	1.1	1.79	4.60	0.95	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.276	0.6
40.288	6.13	6.79	0.19	2.81	60.40	5.0E-07	120.0	2.417	0.103	2.315	3.9	1.1	1.89	4.36	0.97	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.6
40.354	5.81	6.44	0.19	2.96	57.78	5.0E-08	120.0	2.421	0.105	2.317	3.9	1.1	1.73	4.74	1.01	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.268	0.6
40.419	7.03	7.57	0.17	2.25	50.17	5.0E-07	120.0	2.425	0.107	2.318	3.8	1.2	2.22	3.31	0.68	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.343	0.6
40.485	6.33	6.85	0.17	2.49	48.75	5.0E-07	120.0	2.429	0.109	2.320	3.8	1.1	1.91	3.85	0.77	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.295	0.6
40.551	7.48	8.08	0.17	2.11	56.11	5.0E-06	120.0	2.433	0.111	2.322	3.9	1.2	2.43	3.02	0.70	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.377	0.6
40.616	7.79	8.36	0.23	2.76	52.82	5.0E-07	120.0	2.437	0.113	2.324	4.2	1.3	2.55	3.89	0.62	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.395	0.7
40.682	10.22	10.83	0.26	2.41	56.31	5.0E-06	120.0	2.441	0.115	2.326	4.6	1.6	3.61	3.11	0.47	87.8	-9999.0	-9999.0	-9999.0	-9999.0	0.559	0.8
40.748	16.04	16.73	0.32	1.92	63.96	5.0E-05	120.0	2.445	0.117	2.328	5.8	2.2	6.14	2.25	0.31	66.1	30.0	30.0	-9999.0	-9999.0	0.952	1.4
40.813	24.02	24.58	0.39	1.59	52.16	5.0E-05	120.0	2.449	0.119	2.330	7.5	3.0	9.50	1.77	0.16	51.5	30.0	30.0	-9999.0	-9999.0	1.476	2.4
40.879	32.84	32.88	0.48	1.46	3.52	5.0E-04	120.0	2.453	0.121	2.332	9.2	3.8	13.05	1.58	0.00	43.1	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
40.944	40.89	40.88	0.56	1.37	-1.29	5.0E-04	120.0	2.457	0.123	2.334	10.8	4.6	16.46	1.46	-0.01	37.6	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
41.010	50.15	50.12	0.64	1.28	-3.18	5.0E-04	120.0	2.461	0.125	2.335	11.7	7.8	20.41	1.35	-0.01	25.7	34.7	34.0	4.056	203.3	-9999.0	-9999.0
41.076	58.26	58.25	0.71	1.22	-1.23	5.0E-04	120.0	2.465	0.127	2.337	13.2	8.8	23.87	1.28	0.00	23.1	39.0	34.0	3.799	221.3	-9999.0	-9999.0
41.141	63.49	63.46	0.78	1.23	-3.00	5.0E-04	120.0	2.469	0.129	2.339	14.2	9.5	26.07	1.28	-0.01	22.0	41.4	34.0	3.652	231.7	-9999.0	-9999.0
41.207	66.31	66.33	0.84	1.27	1.96	5.0E-04	120.0	2.472	0.131	2.341	14.8	9.9	27.28	1.32	0.00	21.7	42.7	36.0	3.577	237.3	-9999.0	-9999.0
41.272	67.52	67.54	0.91	1.35	1.80	5.0E-04	120.0	2.476	0.133	2.343	15.1	10.1	27.77	1.40	0.00	22.1	43.2	36.0	3.547	239.6	-9999.0	-9999.0
41.338	65.22	65.24	0.97	1.49	1.88	5.0E-04	120.0	2.480	0.135	2.345	14.9	9.9	26.76	1.55	0.00	23.5	42.2	36.0	3.608	235.4	-9999.0	-9999.0
41.404	63.30	63.32	0.90	1.42	1.96	5.0E-04	120.0	2.484	0.137	2.347	14.4	9.6	25.93	1.48	0.00	23.5	41.3	34.0	3.660	231.8	-9999.0	-9999.0
41.469	62.28	62.30	0.92	1.48	1.92	5.0E-04	120.0	2.488	0.140	2.349	14.3	9.5	25.47	1.54	0.00	24.1	40.9	34.0	3.689	229.8	-9999.0	-9999.0
41.535	61.26	61.27	0.93	1.52	1.48	5.0E-04	120.0	2.492	0.142	2.351	14.1	9.4	25.01	1.59	0.00	24.6	40.4	34.0	3.719	227.9	-9999.0	-9999.0
41.601	60.63	60.64	0.95	1.57	1.08	5.0E-04	120.0	2.496	0.144	2.352	14.1	9.4	24.72	1.64	0.00	25.1	40.1	34.0	3.738	226.7	-9999.0	-9999.0
41.666	58.77	58.78	0.98	1.67	0.24	5.0E-04	120.0	2.500	0.146	2.354	13.8	9.2	23.90	1.75	0.00	26.2	39.2	34.0	3.794	223.0	-9999.0	-9999.0
41.732	56.73	56.73	0.96	1.70	0.65	5.0E-04	120.0	2.504	0.148	2.356	13.4	8.9	23.02	1.77	0.00	26.9	38.1	34.0	3.856	218.8	-9999.0	-9999.0
41.797	57.11	57.10	0.96	1.69	-0.47	5.0E-04	120.0	2.508	0.150	2.358	13.5	9.0	23.15	1.76	0.00	26.7	38.3	34.0	3.846	219.6	-9999.0	-9999.0
41.863	55.96	55.95	0.98	1.76	-0.57	5.0E-04	120.0	2.512	0.152	2.360	13.3	8.9	22.64	1.84	0.00	27.5	37.7	34.0	3.882	217.2	-9999.0	-9999.0
41.929	56.92	56.91	1.02	1.80	-0.39	5.0E-04	120.0	2.516	0.154	2.362	13.6	9.0	23.03	1.88	0.00	27.5	38.2	34.0	3.854	219.3	-9999.0	-9999.0
41.994	60.24	60.23	1.08	1.80	-0.51	5.0E-04	120.0	2.520	0.156	2.364	14.2	9.5	24.41	1.88	0.00	26.7	39.8	34.0	3.757	226.3	-9999.0	-9999.0
42.060	63.95	63.94	1.10	1.72	-0.90	5.0E-04	120.0	2.524	0.158	2.366	14.9	9.9	25.96	1.80	0.00	25.4	41.5	34.0	3.655	233.7	-9999.0	-9999.0
42.125	68.99	68.98	1.09	1.58	-1.06	5.0E-04	120.0	2.528	0.160	2.368	15.7	10.4	28.07	1.64	0.00	23.4	43.7	36.0	3.526	243.2	-9999.0	-9999.0
42.191	73.98	73.96	1.02	1.38	-1.76	5.0E-04	120.0	2.532	0.162	2.369	16.4	10.9	30.15	1.43	0.00	21.2	45.6	36.0	3.410	252.2	-9999.0	-9999.0
42.257	79.15	79.13	0.97	1.23	-2.39	5.0E-03	120.0	2.535	0.164	2.371	17.2	11.4	32.30	1.27	0.00	19.3	47.6	36.0	3.299	261.1	-9999.0	-9999.0
42.322	83.04	83.01	1.00	1.21	-3.06	5.0E-03	120.0	2.539	0.166	2.373	17.8	11.8	33.91	1.25	0.00	18.6	48.9	36.0	3.223	267.6	-9999.0	-9999.0
42.388	84.84	84.79	1.03	1.22	-3.83	5.0E-03	120.0	2.543	0.168	2.375	18.2	12.1	34.63	1.26	-0.01	18.4	49.5	36.0	3.191	270.6	-9999.0	-9999.0
42.454	85.99	85.95	1.08	1.26	-3.99	5.0E-03	120.0	2.547	0.170	2.377	18.5	12.2	35.09	1.30	-0.01	18.6	49.9	38.0	3.171	272.5	-9999.0	-9999.0
42.519	86.69	86.64	1.14	1.32	-4.21	5.0E-03	120.0	2.551	0.172	2.379	18.7	12.4	35.35	1.36	-0.01	18.9	50.1	38.0	3.159	273.7	-9999.0	-9999.0
42.585	87.01	86.96	1.20	1.38	-4.46	5.0E-03	120.0	2.555	0.174	2.381	18.8	12.5	35.45	1.43	-0.01	19.3	50.2	38.0	3.154	274.3	-9999.0	-9999.0
42.650	87.52	87.48	1.23	1.41	-4.19	5.0E-03	120.0	2.559	0.176	2.383	19.0	12.6	35.64	1.45	-0.01	19.4	50.4	38.0	3.146	275.2	-9999.0	-9999.0
42.716	88.28	88.24	1.22	1.39	-3.66	5.0E-03	120.0	2.563	0.178	2.385	19.1	12.6	35.93	1.43	-0.01	19.1	50.6	38.0	3.134	276.6	-9999.0	-9999.0
42.782	89.05	89.01	1.18	1.33	-3.00	5.0E-03	120.0	2.567	0.181	2.386	19.1	12.7	36.22	1.37	0.00	18.6	50.9	38.0	3.122	277.9	-9999.0	-9999.0
42.847	88.67	88.64	1.15	1.30	-2.76	5.0E-03	120.0	2.571	0.183	2.388	19.0	12.6	36.04	1.34	0.00	18.5	50.7	38.0	3.129	277.4	-9999.0	-9999.0
42.913	88.60	88.58	1.12	1.27	-2.74	5.0E-03	120.0	2.575	0.185	2.390	19.0	12.5	35.98	1.31	0.00	18.3	50.7	38.0	3.131	277.4	-9999.0	-9999.0
42.978	88.67	88.64	1.11	1.26	-2.29	5.0E-03	120.0	2.579	0.187	2.392	19.0	12.5	35.98	1.29	0.00	18.2	50.7	38.0	3.131	277.5	-9999.0	-9999.0
43.044	86.69	86.66	1.09	1.26	-2.35	5.0E-03	120.0	2.583	0.189	2.394	18.6	12.3	35.12	1.30	0.00	18.5	50.0	38.0	3.167	274.5	-9999.0	-9999.0
43.110	84.71	84.68	1.12	1.33	-2.29	5.0E-03	120.0	2.587	0.191	2.396	18.3	12.1	34.26	1.37	0.00	19.2	49.4	36.0	3.204	271.4	-9999.0	-9999.0
43.175	82.98	82.96	1.13	1.37	-2.11	5.0E-03	120.0	2.591	0.193	2.398	18.1	11.9	33.52	1.41	0.00	19.7	48.8	36.0	3.238	268.6	-9999.0	-9999.0
43.241	82.02	82.00	1.15	1.41	-2.04	5.0E-04	120.0	2.595	0.195	2.400	18.0	11.8	33.09	1.45	0.00	20.2	48.4	36.0	3.258	267.1	-9999.0	-9999.0
43.307	80.88	80.86	1.13	1.40	-1.76	5.0E-04	120.0	2.598	0.197	2.402	17.7	11.7	32.59	1.45	0.00	20.3	48.0	36.0	3.281	265.3	-9999.0	-9999.0
43.372	80.23	80.22	1.15	1.44	-1.52	5.0E-04	120.0	2.602	0.199	2.403	17.7	11.7	32.29	1.49	0.00	20.6	47.8	36.0	3.295	264.3	-9999.0	-9999.0
43.438	79.98	79.97	1.14	1.43	-1.00	5.0E-04	120.0	2.606	0.201	2.405	17.6	11.6	32.17	1.48	0.00	20.6	47.7	36.0	3.301	264.0	-9999.0	-9999.0
43.503	79.53	79.53	1.15	1.45	-0.65	5.0E-04	120.0	2.610	0.203	2.407	17.6	11.6	31.95	1.50	0.00	20.8	47.5	36.0	3.312	263.4	-9999.0	-9999.0
43.569	79.98	79.98	1.18	1.48	-0.51	5.0E-04	120.0	2.614	0.205	2.409	17.7	11.6	32.11	1.53	0.00	21.0	47.7	36.0	3.303	264.2	-9999.0	-9999.0
43.635	81.77	81.76	1.21	1.48	-0.90	5.0E-04	120.0	2.618	0.207	2.411	18.0	11.9	32.83	1.53	0.00	20.7	48.3	36.0	3.269	267.3	-9999.0	-9999.0
43.700	84.84	84.82	1.22	1.44	-1.13	5.0E-04	120.0	2.622	0.209	2.413	18.6	12.2	34.07	1.49	0.00	20.0	49.3	36.0	3.211	272.4	-9999.0	-9999.0
43.766	88.67	88.65	1.18	1.33	-1.27	5.0E-03	120.0	2.626	0.211	2.415	19.1	12.6	35.62	1.38	0.00	18.8	50.6	38.0	3.143	278.7	-9999.0	-9999.0
43.831	91.73	91.72	1.15	1.26	-1.29	5.0E-03	120.0	2.630	0.213	2.417	19.5	12.8	36.86	1.29	0.00	17.9	51.5	38.0	3.092	283.6	-9999.0	-9999.0
43.897	93.40	93.38	1.18	1.27	-1.52	5.0E-03	120.0	2.634	0.215	2.419	19.9	13.0	37.52	1.30	0.00	17.8	52.0	38.0	3.067	286.4	-9999.0	-9999.0
43.963	92.18	92.16	1.22	1.33	-1.80	5.0E-03	120.0	2.638	0.217	2.420	19.7	13.0	36.99	1.37	0.00	18.3	51.6	38.0	3.087	284.5	-9999.0	-9999.0
44.028	90.58	90.56	1.24	1.37	-1.58	5.0E-03	120.0	2.642	0.219	2.422	19.5	12.8	36.30	1.41	0.00	18.8	51.1	38.0	3.115	282.1	-9999.0	-9999.0
44.094	88.93	88.91	1.27	1.43	-1.78	5.0E-03	120.0	2.646	0.221	2.424	19.3	12.7	35.58	1.48	0.00	19.4	50.6	38.0	3.144	279.5	-9999.0	-9999.0
44.160	87.32	87.31	1.28	1.47	-1.06	5.0E-04	120.0	2.650	0.224	2.426	19.1	12.5	34.90	1.52	0.00	19.9	50.1	38.0	3.173	277.0	-9999.0	-9999.0
44.225	86.69	86.69	1.27	1.47	-0.16	5.0E-04	120.0	2.654	0.226	2.428	18.9	12.4	34.61	1.51	0.00	20.0	49.8	36.0	3.185	276.1	-9999.0	-9999.0
44.291	87.07	87.08	1.25	1.44	0.71	5.0E-03	120.0	2.658	0.228	2.430	19.0	12.4	34.74	1.48	0.00	19.7	50.0	38.0	3.179	276.8	-9999.0	-9999.0
44.356	86.24	86.25	1.25	1.45	0.71	5.0E-04	120.0	2.661	0.230	2.432	18.8	12.3	34.37	1.50	0.00	19.9	49.7	36.0	3.195	275.6	-9999.0	-9999.0
44.422	85.92	85.92	1.24	1.45	0.31	5.0E-04	120.0	2.665	0.232	2.434	18.8	12.3	34.21	1.49	0.00	20.0	49.6	36.0	3.202	275.1	-9999.0	-9999.0
44.488	86.69	86.69	1.23	1.42	0.00	5.0E-03	120.0	2.669	0.234	2.436	18.9	12.4	34.50	1.47	0.00	19.7	49.8	36.0	3.189	276.5	-9999.0	-9999.0
44.553	88.09	88.09	1.21	1.38	-0.20	5.0E-03	120.0	2.673	0.236	2.437	19.1	12.5	35.04	1.42	0.00	19.2	50.3	38.0	3.165	278.8	-9999.0	-9999.0
44.619	89.25	89.25	1.21	1.36	-0.10	5.0E-03	120.0	2.677	0.238	2.439	19.3	12.6	35.49	1.40	0.00	18.9	50.6	38.0	3.146	280.8	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
44.684	90.20	90.20	1.08	1.20	0.08	5.0E-03	120.0	2.681	0.240	2.441	19.2	12.5	35.85	1.24	0.00	17.7	50.9	38.0	3.131	282.4	-9999.0	-9999.0
44.750	91.73	91.73	1.10	1.20	0.02	5.0E-03	120.0	2.685	0.242	2.443	19.5	12.7	36.45	1.24	0.00	17.6	51.4	38.0	3.106	284.9	-9999.0	-9999.0
44.816	92.95	92.95	1.14	1.23	0.02	5.0E-03	120.0	2.689	0.244	2.445	19.7	12.9	36.92	1.27	0.00	17.6	51.7	38.0	3.087	287.0	-9999.0	-9999.0
44.881	94.23	94.23	1.17	1.24	0.10	5.0E-03	120.0	2.693	0.246	2.447	20.0	13.1	37.41	1.28	0.00	17.6	52.1	38.0	3.068	289.1	-9999.0	-9999.0
44.947	95.25	95.25	1.21	1.27	0.06	5.0E-03	120.0	2.697	0.248	2.449	20.2	13.2	37.80	1.31	0.00	17.7	52.4	38.0	3.053	290.8	-9999.0	-9999.0
45.013	95.63	95.67	1.24	1.30	3.40	5.0E-03	120.0	2.701	0.250	2.451	20.3	13.3	37.94	1.34	0.00	17.8	52.5	38.0	3.048	291.6	-9999.0	-9999.0
45.078	98.82	98.84	1.27	1.29	1.70	5.0E-03	120.0	2.705	0.252	2.453	20.9	13.6	39.20	1.32	0.00	17.3	53.5	38.0	3.001	296.6	-9999.0	-9999.0
45.144	101.26	101.27	1.29	1.28	0.90	5.0E-03	120.0	2.709	0.254	2.454	21.3	13.9	40.15	1.31	0.00	17.0	54.1	38.0	2.968	300.5	-9999.0	-9999.0
45.209	103.17	103.18	1.31	1.27	0.67	5.0E-03	120.0	2.713	0.256	2.456	21.7	14.1	40.90	1.31	0.00	16.8	54.7	38.0	2.943	303.6	-9999.0	-9999.0
45.275	104.70	104.71	1.35	1.29	0.49	5.0E-03	120.0	2.717	0.258	2.458	22.0	14.3	41.49	1.33	0.00	16.8	55.1	38.0	2.923	306.1	-9999.0	-9999.0
45.341	106.43	106.43	1.40	1.32	0.55	5.0E-03	120.0	2.720	0.260	2.460	22.3	14.6	42.16	1.35	0.00	16.8	55.5	38.0	2.902	308.9	-9999.0	-9999.0
45.406	108.98	108.99	1.42	1.31	0.22	5.0E-03	120.0	2.724	0.262	2.462	22.8	14.8	43.16	1.34	0.00	16.4	56.2	38.0	2.872	313.0	-9999.0	-9999.0
45.472	111.41	111.41	1.47	1.32	0.22	5.0E-03	120.0	2.728	0.265	2.464	23.3	15.1	44.11	1.36	0.00	16.3	56.8	38.0	2.844	316.9	-9999.0	-9999.0
45.538	111.98	111.99	1.49	1.33	0.53	5.0E-03	120.0	2.732	0.267	2.466	23.4	15.2	44.31	1.37	0.00	16.3	57.0	38.0	2.838	317.9	-9999.0	-9999.0
45.603	114.16	114.17	1.53	1.34	0.75	5.0E-03	120.0	2.736	0.269	2.468	23.8	15.5	45.16	1.38	0.00	16.2	57.5	38.0	2.815	321.4	-9999.0	-9999.0
45.669	116.07	116.08	1.58	1.36	0.75	5.0E-03	120.0	2.740	0.271	2.470	24.2	15.7	45.90	1.40	0.00	16.2	58.0	38.0	2.795	324.5	-9999.0	-9999.0
45.734	118.38	118.39	1.66	1.41	1.06	5.0E-03	120.0	2.744	0.273	2.471	24.7	16.0	46.79	1.44	0.00	16.2	58.5	38.0	2.772	328.2	-9999.0	-9999.0
45.800	121.05	121.06	1.72	1.42	0.90	5.0E-03	120.0	2.748	0.275	2.473	25.2	16.4	47.84	1.46	0.00	16.1	59.2	38.0	2.747	332.5	-9999.0	-9999.0
45.866	125.27	125.29	1.76	1.41	1.12	5.0E-03	120.0	2.752	0.277	2.475	25.9	16.8	49.50	1.44	0.00	15.7	60.1	38.0	2.708	339.3	-9999.0	-9999.0
45.931	128.66	128.67	1.78	1.39	1.00	5.0E-03	120.0	2.756	0.279	2.477	26.5	17.2	50.83	1.42	0.00	15.3	60.9	38.0	2.679	344.8	-9999.0	-9999.0
45.997	131.85	131.86	1.85	1.41	1.19	5.0E-03	120.0	2.760	0.281	2.479	27.1	17.6	52.08	1.44	0.00	15.2	61.6	38.0	2.654	350.0	-9999.0	-9999.0
46.062	137.21	137.23	1.94	1.42	1.13	5.0E-03	120.0	2.764	0.283	2.481	28.1	18.2	54.20	1.45	0.00	14.8	62.7	40.0	2.614	358.7	-9999.0	-9999.0
46.128	144.12	144.14	2.00	1.39	1.50	5.0E-03	120.0	2.768	0.285	2.483	29.2	19.0	56.94	1.42	0.00	14.2	64.1	40.0	2.567	370.0	-9999.0	-9999.0
46.194	150.64	150.66	2.07	1.37	2.00	5.0E-03	120.0	2.772	0.287	2.485	30.4	19.7	59.52	1.40	0.00	13.7	65.4	40.0	2.527	380.7	-9999.0	-9999.0
46.259	158.29	158.32	2.15	1.36	2.15	5.0E-03	120.0	2.776	0.289	2.487	31.7	20.5	62.55	1.38	0.00	13.2	66.8	40.0	2.484	393.2	-9999.0	-9999.0
46.325	166.03	166.06	2.22	1.33	2.39	5.0E-03	120.0	2.780	0.291	2.488	32.9	21.3	65.62	1.36	0.00	12.6	68.1	40.0	2.444	405.9	-9999.0	-9999.0
46.391	173.57	173.60	2.30	1.32	2.59	5.0E-03	120.0	2.783	0.293	2.490	34.2	22.2	68.59	1.34	0.00	12.2	69.4	40.0	2.409	418.1	-9999.0	-9999.0
46.456	179.06	179.09	2.37	1.32	2.53	5.0E-03	120.0	2.787	0.295	2.492	35.2	22.8	70.74	1.34	0.00	11.9	70.3	40.0	2.384	427.0	-9999.0	-9999.0
46.522	182.25	182.28	2.44	1.34	2.49	5.0E-03	120.0	2.791	0.297	2.494	35.8	23.1	71.97	1.36	0.00	11.9	70.8	40.0	2.371	432.1	-9999.0	-9999.0
46.587	183.14	183.17	2.50	1.36	2.21	5.0E-03	120.0	2.795	0.299	2.496	36.0	23.3	72.27	1.38	0.00	12.0	70.9	40.0	2.368	433.7	-9999.0	-9999.0
46.653	183.21	183.24	2.56	1.39	2.57	5.0E-03	120.0	2.799	0.301	2.498	36.1	23.4	72.24	1.42	0.00	12.2	70.9	40.0	2.368	433.9	-9999.0	-9999.0
46.719	180.40	180.42	2.59	1.43	2.39	5.0E-03	120.0	2.803	0.303	2.500	35.7	23.1	71.06	1.46	0.00	12.5	70.4	40.0	2.381	429.6	-9999.0	-9999.0
46.784	178.10	178.13	2.59	1.45	2.59	5.0E-03	120.0	2.807	0.305	2.502	35.4	22.9	70.08	1.48	0.00	12.7	70.1	40.0	2.392	426.1	-9999.0	-9999.0
46.850	173.50	173.53	2.60	1.50	2.25	5.0E-03	120.0	2.811	0.308	2.504	34.7	22.4	68.19	1.52	0.00	13.2	69.3	40.0	2.414	418.8	-9999.0	-9999.0
46.915	167.50	167.52	2.57	1.53	2.17	5.0E-03	120.0	2.815	0.310	2.505	33.8	21.8	65.74	1.56	0.00	13.7	68.3	40.0	2.443	409.3	-9999.0	-9999.0
46.981	162.90	162.92	2.53	1.55	2.21	5.0E-03	120.0	2.819	0.312	2.507	33.0	21.3	63.85	1.58	0.00	14.1	67.5	40.0	2.467	401.9	-9999.0	-9999.0
47.047	159.01	159.03	2.47	1.55	2.17	5.0E-03	120.0	2.823	0.314	2.509	32.3	20.8	62.25	1.58	0.00	14.3	66.8	40.0	2.488	395.7	-9999.0	-9999.0
47.112	155.55	155.57	2.43	1.56	2.53	5.0E-03	120.0	2.827	0.316	2.511	31.7	20.4	60.83	1.59	0.00	14.5	66.1	40.0	2.508	390.2	-9999.0	-9999.0
47.178	152.80	152.83	2.36	1.54	2.35	5.0E-03	120.0	2.831	0.318	2.513	31.2	20.1	59.69	1.57	0.00	14.6	65.6	40.0	2.524	385.8	-9999.0	-9999.0
47.244	149.86	149.89	2.32	1.54	2.55	5.0E-03	120.0	2.835	0.320	2.515	30.7	19.8	58.48	1.57	0.00	14.8	65.0	40.0	2.543	381.1	-9999.0	-9999.0
47.309	147.63	147.66	2.27	1.53	2.74	5.0E-03	120.0	2.839	0.322	2.517	30.2	19.5	57.54	1.56	0.00	14.9	64.6	40.0	2.557	377.6	-9999.0	-9999.0
47.375	145.58	145.61	2.23	1.53	2.74	5.0E-03	120.0	2.843	0.324	2.519	29.9	19.2	56.69	1.56	0.00	15.0	64.2	40.0	2.571	374.3	-9999.0	-9999.0
47.440	144.69	144.72	2.20	1.52	2.86	5.0E-03	120.0	2.846	0.326	2.521	29.7	19.1	56.29	1.55	0.00	15.0	64.0	40.0	2.577	373.0	-9999.0	-9999.0
47.506	143.99	144.02	2.17	1.50	2.88	5.0E-03	120.0	2.850	0.328	2.522	29.5	19.0	55.97	1.53	0.00	15.0	63.9	40.0	2.583	372.0	-9999.0	-9999.0
47.572	143.29	143.32	2.15	1.50	2.94	5.0E-03	120.0	2.854	0.330	2.524	29.4	18.9	55.65	1.53	0.00	15.0	63.7	40.0	2.588	370.9	-9999.0	-9999.0
47.637	143.16	143.19	2.14	1.49	3.00	5.0E-03	120.0	2.858	0.332	2.526	29.3	18.9	55.55	1.52	0.00	15.0	63.7	40.0	2.590	370.8	-9999.0	-9999.0
47.703	143.67	143.71	2.17	1.51	3.46	5.0E-03	120.0	2.862	0.334	2.528	29.5	18.9	55.71	1.54	0.00	15.0	63.8	40.0	2.587	371.8	-9999.0	-9999.0
47.768	144.95	144.99	2.20	1.51	3.31	5.0E-03	120.0	2.866	0.336	2.530	29.7	19.1	56.18	1.54	0.00	15.0	64.0	40.0	2.579	374.0	-9999.0	-9999.0
47.834	147.63	147.67	2.21	1.49	3.50	5.0E-03	120.0	2.870	0.338	2.532	30.2	19.4	57.19	1.52	0.00	14.7	64.5	40.0	2.563	378.4	-9999.0	-9999.0
47.900	149.86	149.90	2.23	1.48	3.29	5.0E-03	120.0	2.874	0.340	2.534	30.5	19.6	58.03	1.51	0.00	14.5	64.9	40.0	2.550	382.2	-9999.0	-9999.0
47.965	152.74	152.78	2.01	1.32	3.33	5.0E-03	120.0	2.878	0.342	2.536	30.6	19.7	59.12	1.34	0.00	13.4	65.5	40.0	2.533	387.0	-9999.0	-9999.0
48.031	156.89	156.93	2.09	1.33	3.56	5.0E-03	120.0	2.882	0.344	2.538	31.4	20.1	60.71	1.35	0.00	13.2	66.2	40.0	2.510	393.9	-9999.0	-9999.0
48.097	160.92	160.96	2.13	1.32	4.07	5.0E-03	120.0	2.886	0.346	2.539	32.1	20.6	62.25	1.34	0.00	12.9	66.9	40.0	2.489	400.6	-9999.0	-9999.0
48.162	165.39	165.43	2.16	1.30	3.83	5.0E-03	120.0	2.890	0.349	2.541	32.8	21.0	63.96	1.33	0.00	12.6	67.7	40.0	2.466	408.0	-9999.0	-9999.0
48.228	170.37	170.41	2.17	1.27	3.46	5.0E-03	120.0	2.894	0.351	2.543	33.6	21.5	65.87	1.29	0.00	12.1	68.6	40.0	2.442	416.1	-9999.0	-9999.0
48.293	173.18	173.23	2.12	1.22	4.92	5.0E-03	120.0	2.898	0.353	2.545	33.9	21.7	66.93	1.24	0.00	11.7	69.0	40.0	2.429	420.8	-9999.0	-9999.0
48.359	171.97	172.01	2.08	1.21	3.56	5.0E-02	120.0	2.902	0.355	2.547	33.7	21.5	66.39	1.23	0.00	11.7	68.8	40.0	2.436	418.9	-9999.0	-9999.0
48.425	169.09	169.12	2.03	1.20	3.02	5.0E-03	120.0	2.906	0.357	2.549	33.2	21.2	65.21	1.22	0.00	11.8	68.3	40.0	2.450	414.4	-9999.0	-9999.0
48.490	169.67	169.70	1.99	1.18	2.92	5.0E-02	120.0	2.909	0.359	2.551	33.2	21.2	65.39	1.20	0.00	11.6	68.4	40.0	2.448	415.4	-9999.0	-9999.0
48.556	175.30	175.33	1.92	1.10	3.36	5.0E-02	120.0	2.913	0.361	2.553	33.9	21.7	67.55	1.12	0.00	10.8	69.3	40.0	2.422	424.6	-9999.0	-9999.0
48.621	179.25	179.29	1.84	1.03	3.29	5.0E-02	120.0	2.917	0.363	2.554	34.3	21.9	69.04	1.05	0.00	10.2	69.9	40.0	2.404	431.1	-9999.0	-9999.0
48.687	181.42	181.46	1.79	0.99	3.50	5.0E-02	120.0	2.921	0.365	2.556	34.5	22.1	69.84	1.01	0.00	9.8	70.3	40.0	2.395	434.7	-9999.0	-9999.0
48.753	182.63	182.67	1.75	0.96	3.64	5.0E-02	120.0	2.925	0.367	2.558	34.6	22.1	70.26	0.98	0.00	9.6	70.5	40.0	2.391	436.7	-9999.0	-9999.0
48.818	180.98	181.02	1.71	0.95	3.54	5.0E-02	120.0	2.929	0.369	2.560	34.3	21.9	69.56	0.96	0.00	9.6	70.2	40.0	2.399	434.2	-9999.0	-9999.0
48.884	178.23	178.27	1.68	0.94	3.83	5.0E-02	120.0	2.933	0.371	2.562	33.8	21.6	68.44	0.96	0.00	9.7	69.7	40.0	2.412	429.9	-9999.0	-9999.0
48.950	173.06	173.10	1.62	0.94	3.56	5.0E-02	120.0	2.937	0.373	2.564	33.0	21.0	66.37	0.95	0.00	9.9	68.9	40.0	2.436	421.7	-9999.0	-9999.0
49.015	166.34	166.38	1.58	0.95	3.31	5.0E-02	120.0	2.941	0.375	2.566	31.9	20.3	63.70	0.97	0.00	10.3	67.7	40.0	2.470	410.9	-9999.0	-9999.0
49.081	158.10	158.14	1.56	0.99	3.56	5.0E-02	120.0	2.945	0.377	2.568	30.6	19.5	60.44	1.01	0.00	11.0	66.3	40.0	2.514	397.6	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
49.146	150.70	150.74	1.54	1.02	3.91	5.0E-02	120.0	2.949	0.379	2.570	29.5	18.8	57.51	1.04	0.00	11.6	64.9	40.0	2.558	385.6	-9999.0	-9999.0
49.212	145.07	145.12	1.49	1.03	4.17	5.0E-02	120.0	2.953	0.381	2.571	28.5	18.2	55.28	1.05	0.00	12.0	63.8	40.0	2.594	376.5	-9999.0	-9999.0
49.278	139.39	139.44	1.44	1.04	4.37	5.0E-03	120.0	2.957	0.383	2.573	27.6	17.6	53.03	1.06	0.00	12.4	62.6	40.0	2.634	367.3	-9999.0	-9999.0
49.343	133.64	133.69	1.38	1.03	4.50	5.0E-03	120.0	2.961	0.385	2.575	26.6	16.9	50.76	1.06	0.00	12.8	61.4	38.0	2.679	358.1	-9999.0	-9999.0
49.409	129.29	129.35	1.32	1.02	5.41	5.0E-03	120.0	2.965	0.387	2.577	25.8	16.4	49.04	1.05	0.00	13.0	60.5	38.0	2.716	351.3	-9999.0	-9999.0
49.474	126.30	126.35	1.27	1.01	5.09	5.0E-03	120.0	2.969	0.389	2.579	25.3	16.1	47.84	1.03	0.00	13.1	59.8	38.0	2.743	346.6	-9999.0	-9999.0
49.540	125.46	125.52	1.23	0.98	5.01	5.0E-03	120.0	2.972	0.392	2.581	25.0	15.9	47.48	1.01	0.00	13.0	59.6	38.0	2.751	345.3	-9999.0	-9999.0
49.606	127.44	127.50	1.19	0.94	5.29	5.0E-02	120.0	2.976	0.394	2.583	25.3	16.1	48.21	0.96	0.00	12.5	60.0	38.0	2.734	348.6	-9999.0	-9999.0
49.671	134.47	134.53	1.19	0.89	5.77	5.0E-02	120.0	2.980	0.396	2.585	26.3	16.7	50.89	0.91	0.00	11.7	61.5	38.0	2.676	360.0	-9999.0	-9999.0
49.737	145.58	145.65	1.25	0.86	6.03	5.0E-02	120.0	2.984	0.398	2.587	28.1	17.9	55.16	0.88	0.00	10.8	63.8	40.0	2.597	378.2	-9999.0	-9999.0
49.803	160.98	161.04	1.33	0.83	5.27	5.0E-02	120.0	2.988	0.400	2.588	30.6	19.4	61.06	0.84	0.00	9.7	66.7	40.0	2.506	403.5	-9999.0	-9999.0
49.868	179.96	180.01	1.40	0.78	4.96	5.0E-02	120.0	2.992	0.402	2.590	33.5	21.3	68.34	0.79	0.00	8.5	69.9	40.0	2.413	434.4	-9999.0	-9999.0
49.934	196.38	196.44	1.50	0.77	5.43	5.0E-02	120.0	2.996	0.404	2.592	36.1	22.9	74.62	0.78	0.00	7.7	72.4	40.0	2.343	460.2	-9999.0	-9999.0
49.999	206.59	206.65	1.61	0.78	5.69	5.0E-02	120.0	3.000	0.406	2.594	37.8	24.0	78.50	0.79	0.00	7.5	73.8	42.0	2.302	475.6	-9999.0	-9999.0
50.065	211.25	211.32	1.73	0.82	6.24	5.0E-02	120.0	3.004	0.408	2.596	38.8	24.6	80.24	0.83	0.00	7.6	74.4	42.0	2.283	482.5	-9999.0	-9999.0
50.131	214.13	214.19	1.85	0.87	5.29	5.0E-02	120.0	3.008	0.410	2.598	39.5	25.0	81.29	0.88	0.00	7.8	74.8	42.0	2.273	486.8	-9999.0	-9999.0
50.196	213.05	213.10	1.92	0.90	4.74	5.0E-02	120.0	3.012	0.412	2.600	39.5	25.0	80.81	0.92	0.00	8.1	74.6	42.0	2.278	485.3	-9999.0	-9999.0
50.262	210.23	210.28	1.97	0.94	4.72	5.0E-02	120.0	3.016	0.414	2.602	39.1	24.8	79.67	0.95	0.00	8.5	74.3	42.0	2.289	481.4	-9999.0	-9999.0
50.327	206.66	206.71	1.99	0.97	4.92	5.0E-02	120.0	3.020	0.416	2.604	38.7	24.5	78.24	0.98	0.00	8.8	73.8	42.0	2.304	476.4	-9999.0	-9999.0
50.393	207.36	207.42	1.99	0.96	5.01	5.0E-02	120.0	3.024	0.418	2.605	38.8	24.5	78.45	0.98	0.00	8.7	73.8	42.0	2.302	477.5	-9999.0	-9999.0
50.459	210.11	210.16	1.98	0.94	5.11	5.0E-02	120.0	3.028	0.420	2.607	39.2	24.8	79.44	0.96	0.00	8.5	74.2	42.0	2.292	481.6	-9999.0	-9999.0
50.524	209.66	209.72	1.96	0.94	5.37	5.0E-02	120.0	3.032	0.422	2.609	39.1	24.7	79.21	0.95	0.00	8.5	74.1	42.0	2.294	481.1	-9999.0	-9999.0
50.590	209.15	209.20	1.92	0.92	5.27	5.0E-02	120.0	3.035	0.424	2.611	38.9	24.6	78.96	0.93	0.00	8.4	74.1	42.0	2.297	480.5	-9999.0	-9999.0
50.656	202.50	202.57	1.87	0.93	6.15	5.0E-02	120.0	3.039	0.426	2.613	37.8	23.9	76.36	0.94	0.00	8.7	73.1	40.0	2.324	470.8	-9999.0	-9999.0
50.721	192.61	192.67	1.82	0.95	6.15	5.0E-02	120.0	3.043	0.428	2.615	36.3	22.9	72.52	0.96	0.00	9.2	71.7	40.0	2.366	455.9	-9999.0	-9999.0
50.787	185.13	185.20	1.75	0.95	6.18	5.0E-02	120.0	3.047	0.430	2.617	35.1	22.1	69.61	0.96	0.00	9.5	70.5	40.0	2.399	444.3	-9999.0	-9999.0
50.852	179.83	179.89	1.68	0.94	5.95	5.0E-02	120.0	3.051	0.433	2.619	34.1	21.6	67.53	0.95	0.00	9.7	69.7	40.0	2.423	435.9	-9999.0	-9999.0
50.918	176.38	176.44	1.63	0.93	5.81	5.0E-02	120.0	3.055	0.435	2.621	33.5	21.2	66.16	0.94	0.00	9.7	69.1	40.0	2.440	430.5	-9999.0	-9999.0
50.984	175.42	175.48	1.59	0.91	6.05	5.0E-02	120.0	3.059	0.437	2.622	33.3	21.0	65.75	0.92	0.00	9.7	69.0	40.0	2.445	429.0	-9999.0	-9999.0
51.049	174.65	174.72	1.56	0.90	6.40	5.0E-02	120.0	3.063	0.439	2.624	33.1	20.9	65.41	0.91	0.00	9.6	68.8	40.0	2.449	427.9	-9999.0	-9999.0
51.115	176.44	176.51	1.55	0.88	6.68	5.0E-02	120.0	3.067	0.441	2.626	33.4	21.0	66.04	0.90	0.00	9.4	69.1	40.0	2.441	430.9	-9999.0	-9999.0
51.180	178.04	178.11	1.56	0.88	6.60	5.0E-02	120.0	3.071	0.443	2.628	33.6	21.2	66.60	0.89	0.00	9.3	69.4	40.0	2.435	433.6	-9999.0	-9999.0
51.246	182.19	182.26	1.61	0.89	6.74	5.0E-02	120.0	3.075	0.445	2.630	34.3	21.6	68.13	0.90	0.00	9.2	70.0	40.0	2.416	440.4	-9999.0	-9999.0
51.312	186.28	186.36	1.62	0.87	6.97	5.0E-02	120.0	3.079	0.447	2.632	35.0	22.0	69.64	0.89	0.00	8.9	70.6	40.0	2.399	447.1	-9999.0	-9999.0
51.377	191.97	192.04	1.63	0.85	6.97	5.0E-02	120.0	3.083	0.449	2.634	35.8	22.6	71.74	0.86	0.00	8.6	71.5	40.0	2.375	456.1	-9999.0	-9999.0
51.443	199.37	199.46	1.70	0.85	7.60	5.0E-02	120.0	3.087	0.451	2.636	37.0	23.3	74.50	0.87	0.00	8.3	72.6	40.0	2.345	467.6	-9999.0	-9999.0
51.509	207.99	208.08	1.83	0.88	7.64	5.0E-02	120.0	3.091	0.453	2.638	38.6	24.3	77.72	0.89	0.00	8.2	73.8	40.0	2.310	480.6	-9999.0	-9999.0
51.574	217.39	217.47	1.92	0.89	7.42	5.0E-02	120.0	3.095	0.455	2.639	40.1	25.2	81.22	0.90	0.00	7.9	75.0	42.0	2.273	494.3	-9999.0	-9999.0
51.640	218.35	218.43	2.05	0.94	7.64	5.0E-02	120.0	3.098	0.457	2.641	40.5	25.5	81.52	0.95	0.00	8.3	75.1	42.0	2.270	495.8	-9999.0	-9999.0
51.705	235.34	235.42	2.19	0.93	7.36	5.0E-02	120.0	3.102	0.459	2.643	43.2	27.2	87.89	0.94	0.00	7.7	77.3	42.0	2.205	519.0	-9999.0	-9999.0
51.771	252.71	252.79	2.30	0.91	7.50	5.0E-02	120.0	3.106	0.461	2.645	46.0	28.9	94.39	0.92	0.00	7.1	79.3	42.0	2.143	541.9	-9999.0	-9999.0
51.837	267.47	267.55	2.38	0.89	7.66	5.0E-02	120.0	3.110	0.463	2.647	48.2	30.3	99.90	0.90	0.00	6.6	80.9	42.0	2.100	561.8	-9999.0	-9999.0
51.902	274.82	274.91	2.45	0.89	8.26	5.0E-02	120.0	3.114	0.465	2.649	49.4	31.0	102.60	0.90	0.00	6.4	81.7	42.0	2.083	572.6	-9999.0	-9999.0
51.968	277.69	277.74	2.57	0.92	4.05	5.0E-02	120.0	3.118	0.467	2.651	50.1	31.4	103.60	0.93	0.00	6.6	82.0	42.0	2.078	577.1	-9999.0	-9999.0
52.033	283.51	283.58	2.61	0.92	6.48	5.0E-02	120.0	3.122	0.469	2.653	51.0	32.0	105.72	0.93	0.00	6.4	82.6	42.0	2.069	586.6	-9999.0	-9999.0
52.099	291.62	291.69	2.65	0.91	6.64	5.0E-02	120.0	3.126	0.471	2.655	52.2	32.7	108.70	0.92	0.00	6.2	83.3	42.0	2.061	601.3	-9999.0	-9999.0
52.165	294.55	294.62	2.67	0.91	6.32	5.0E-02	120.0	3.130	0.473	2.656	52.7	33.0	109.73	0.91	0.00	6.1	83.6	42.0	2.061	607.1	-9999.0	-9999.0
52.230	290.53	290.60	2.83	0.97	6.24	5.0E-02	120.0	3.134	0.476	2.658	52.4	32.8	108.14	0.98	0.00	6.6	83.2	42.0	2.063	599.4	-9999.0	-9999.0
52.296	279.23	279.30	2.68	0.96	6.30	5.0E-02	120.0	3.138	0.478	2.660	50.5	31.6	103.81	0.97	0.00	6.8	82.1	42.0	2.077	580.1	-9999.0	-9999.0
52.362	267.09	267.16	2.57	0.96	6.89	5.0E-02	120.0	3.142	0.480	2.662	48.6	30.4	99.18	0.97	0.00	7.1	80.8	42.0	2.105	562.3	-9999.0	-9999.0
52.427	252.58	252.65	2.47	0.98	6.07	5.0E-02	120.0	3.146	0.482	2.664	46.3	29.0	93.66	0.99	0.00	7.5	79.2	42.0	2.149	543.0	-9999.0	-9999.0
52.493	241.22	241.28	2.32	0.96	5.99	5.0E-02	120.0	3.150	0.484	2.666	44.4	27.8	89.32	0.97	0.00	7.7	77.8	42.0	2.190	528.4	-9999.0	-9999.0
52.558	225.31	225.38	2.16	0.96	6.52	5.0E-02	120.0	3.154	0.486	2.668	41.8	26.1	83.30	0.97	0.00	8.2	75.9	42.0	2.251	507.3	-9999.0	-9999.0
52.624	213.43	213.50	2.02	0.95	6.99	5.0E-02	120.0	3.158	0.488	2.670	39.8	24.9	78.79	0.96	0.00	8.5	74.3	42.0	2.298	490.7	-9999.0	-9999.0
52.690	200.02	200.08	1.81	0.91	6.28	5.0E-02	120.0	3.161	0.490	2.672	37.4	23.4	73.71	0.92	0.00	8.7	72.5	40.0	2.354	470.9	-9999.0	-9999.0
52.755	191.26	191.33	1.61	0.84	6.18	5.0E-02	120.0	3.165	0.492	2.673	35.7	22.3	70.38	0.86	0.00	8.6	71.2	40.0	2.391	457.5	-9999.0	-9999.0
52.821	187.30	187.37	1.50	0.80	6.36	5.0E-02	120.0	3.169	0.494	2.675	34.9	21.8	68.85	0.82	0.00	8.5	70.6	40.0	2.409	451.3	-9999.0	-9999.0
52.886	186.85	186.94	1.50	0.80	7.81	5.0E-02	120.0	3.173	0.496	2.677	34.8	21.7	68.64	0.82	0.00	8.5	70.5	40.0	2.411	450.8	-9999.0	-9999.0
52.952	194.71	194.79	1.60	0.82	7.58	5.0E-02	120.0	3.177	0.498	2.679	36.2	22.6	71.52	0.84	0.00	8.3	71.6	40.0	2.378	463.3	-9999.0	-9999.0
53.018	200.53	200.61	1.75	0.87	7.78	5.0E-02	120.0	3.181	0.500	2.681	37.4	23.3	73.64	0.89	0.00	8.5	72.5	40.0	2.354	472.3	-9999.0	-9999.0
53.083	203.59	203.67	1.86	0.92	7.19	5.0E-02	120.0	3.185	0.502	2.683	38.0	23.7	74.73	0.93	0.00	8.7	72.9	40.0	2.342	477.1	-9999.0	-9999.0
53.149	202.69	202.77	1.94	0.96	6.93	5.0E-02	120.0	3.189	0.504	2.685	38.1	23.7	74.34	0.97	0.00	9.0	72.8	40.0	2.347	475.9	-9999.0	-9999.0
53.215	200.27	200.34	1.96	0.98	7.19	5.0E-02	120.0	3.193	0.506	2.687	37.8	23.5	73.38	1.00	0.00	9.2	72.4	40.0	2.357	472.3	-9999.0	-9999.0
53.280	190.68	190.75	1.95	1.02	5.95	5.0E-02	120.0	3.197	0.508	2.689	36.3	22.6	69.76	1.04	0.00	9.9	71.0	40.0	2.399	457.5	-9999.0	-9999.0
53.346	182.76	182.82	1.93	1.06	5.47	5.0E-02	120.0	3.201	0.510	2.690	35.1	21.9	66.76	1.08	0.00	10.5	69.8	40.0	2.434	445.0	-9999.0	-9999.0
53.411	177.14	177.21	1.85	1.05	6.05	5.0E-02	120.0	3.205	0.512	2.692	34.1	21.3	64.63	1.07	0.00	10.6	68.9	40.0	2.460	436.0	-9999.0	-9999.0
53.477	173.95	174.02	1.75	1.01	6.09	5.0E-02	120.0	3.209	0.514	2.694	33.5	20.8	63.40	1.03	0.00	10.5	68.3	40.0	2.476	430.9	-9999.0	-9999.0
53.543	172.29	172.36	1.64	0.95	6.58	5.0E-02	120.0	3.213	0.517	2.696	33.0	20.5	62.74	0.97	0.00	10.2	68.0	40.0	2.485	428.3	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
53.608	172.61	172.69	1.58	0.92	7.27	5.0E-02	120.0	3.217	0.519	2.698	32.9	20.5	62.81	0.93	0.00	10.0	68.1	40.0	2.484	429.0	-9999.0	-9999.0
53.674	175.30	175.38	1.55	0.89	7.54	5.0E-02	120.0	3.221	0.521	2.700	33.3	20.7	63.76	0.90	0.00	9.6	68.5	40.0	2.472	433.5	-9999.0	-9999.0
53.740	180.21	180.29	1.54	0.86	7.42	5.0E-02	120.0	3.224	0.523	2.702	34.0	21.1	65.54	0.87	0.00	9.2	69.3	40.0	2.449	441.6	-9999.0	-9999.0
53.805	188.96	189.04	1.53	0.81	7.54	5.0E-02	120.0	3.228	0.525	2.704	35.2	21.9	68.73	0.83	0.00	8.5	70.7	40.0	2.411	455.8	-9999.0	-9999.0
53.871	197.08	197.16	1.54	0.78	7.89	5.0E-02	120.0	3.232	0.527	2.706	36.4	22.6	71.68	0.80	0.00	8.0	71.8	40.0	2.377	468.6	-9999.0	-9999.0
53.936	199.75	199.84	1.57	0.79	7.48	5.0E-02	120.0	3.236	0.529	2.707	36.9	22.9	72.61	0.80	0.00	7.9	72.2	40.0	2.366	472.9	-9999.0	-9999.0
54.002	201.99	202.07	1.60	0.79	7.31	5.0E-02	120.0	3.240	0.531	2.709	37.3	23.1	73.39	0.81	0.00	7.9	72.5	40.0	2.358	476.4	-9999.0	-9999.0
54.068	201.67	201.75	1.64	0.81	7.29	5.0E-02	120.0	3.244	0.533	2.711	37.3	23.2	73.22	0.83	0.00	8.1	72.5	40.0	2.360	476.0	-9999.0	-9999.0
54.133	197.20	197.28	1.67	0.85	7.98	5.0E-02	120.0	3.248	0.535	2.713	36.7	22.8	71.52	0.86	0.00	8.5	71.8	40.0	2.379	469.3	-9999.0	-9999.0
54.199	192.48	192.55	1.69	0.88	6.77	5.0E-02	120.0	3.252	0.537	2.715	36.1	22.4	69.72	0.89	0.00	8.9	71.1	40.0	2.399	462.0	-9999.0	-9999.0
54.264	188.96	189.03	1.70	0.90	6.74	5.0E-02	120.0	3.256	0.539	2.717	35.6	22.1	68.38	0.92	0.00	9.2	70.6	40.0	2.415	456.6	-9999.0	-9999.0
54.330	185.96	186.04	1.68	0.91	7.03	5.0E-02	120.0	3.260	0.541	2.719	35.1	21.8	67.23	0.92	0.00	9.3	70.1	40.0	2.429	451.9	-9999.0	-9999.0
54.396	184.05	184.13	1.65	0.90	7.36	5.0E-02	120.0	3.264	0.543	2.721	34.8	21.5	66.48	0.91	0.00	9.4	69.8	40.0	2.438	448.9	-9999.0	-9999.0
54.461	181.36	181.44	1.60	0.88	7.21	5.0E-02	120.0	3.268	0.545	2.723	34.3	21.2	65.44	0.90	0.00	9.4	69.4	40.0	2.451	444.7	-9999.0	-9999.0
54.527	179.18	179.26	1.53	0.86	7.42	5.0E-02	120.0	3.272	0.547	2.724	33.8	20.9	64.60	0.87	0.00	9.3	69.0	40.0	2.462	441.3	-9999.0	-9999.0
54.593	175.81	175.89	1.30	0.74	7.44	5.0E-02	120.0	3.276	0.549	2.726	32.8	20.3	63.31	0.75	0.00	8.6	68.5	40.0	2.478	435.9	-9999.0	-9999.0
54.658	173.69	173.77	1.17	0.67	7.46	5.0E-02	120.0	3.280	0.551	2.728	32.2	19.9	62.49	0.69	0.00	8.1	68.1	40.0	2.489	432.5	-9999.0	-9999.0
54.724	171.84	171.92	1.12	0.65	7.64	5.0E-02	120.0	3.283	0.553	2.730	31.8	19.7	61.77	0.67	0.00	8.0	67.8	40.0	2.499	429.6	-9999.0	-9999.0
54.789	169.29	169.37	1.11	0.66	7.33	5.0E-02	120.0	3.287	0.555	2.732	31.4	19.4	60.79	0.67	0.00	8.2	67.4	40.0	2.512	425.5	-9999.0	-9999.0
54.855	167.69	167.76	1.13	0.68	7.17	5.0E-02	120.0	3.291	0.557	2.734	31.2	19.3	60.16	0.69	0.00	8.4	67.1	40.0	2.521	423.0	-9999.0	-9999.0
54.921	163.22	163.28	1.12	0.69	6.03	5.0E-02	120.0	3.295	0.560	2.736	30.5	18.9	58.48	0.70	0.00	8.7	66.3	40.0	2.546	415.6	-9999.0	-9999.0
54.986	164.18	164.25	1.12	0.68	6.26	5.0E-02	120.0	3.299	0.562	2.738	30.7	18.9	58.79	0.70	0.00	8.7	66.4	40.0	2.541	417.3	-9999.0	-9999.0
55.052	164.62	164.69	1.14	0.69	6.22	5.0E-02	120.0	3.303	0.564	2.740	30.8	19.0	58.91	0.71	0.00	8.7	66.5	40.0	2.539	418.2	-9999.0	-9999.0
55.117	166.09	166.16	1.16	0.70	6.64	5.0E-02	120.0	3.307	0.566	2.741	31.1	19.2	59.41	0.71	0.00	8.7	66.8	40.0	2.532	420.7	-9999.0	-9999.0
55.183	166.92	167.00	1.18	0.71	6.48	5.0E-02	120.0	3.311	0.568	2.743	31.2	19.3	59.67	0.72	0.00	8.7	66.9	40.0	2.528	422.2	-9999.0	-9999.0
55.249	167.12	167.19	1.20	0.72	6.54	5.0E-02	120.0	3.315	0.570	2.745	31.3	19.3	59.69	0.73	0.00	8.8	66.9	40.0	2.528	422.7	-9999.0	-9999.0
55.314	168.78	168.85	1.20	0.71	6.97	5.0E-02	120.0	3.319	0.572	2.747	31.5	19.4	60.26	0.73	0.00	8.7	67.2	40.0	2.520	425.5	-9999.0	-9999.0
55.380	170.05	170.13	1.21	0.71	7.09	5.0E-02	120.0	3.323	0.574	2.749	31.8	19.6	60.68	0.73	0.00	8.6	67.4	40.0	2.514	427.7	-9999.0	-9999.0
55.446	171.33	171.40	1.22	0.71	6.74	5.0E-02	120.0	3.327	0.576	2.751	32.0	19.7	61.10	0.73	0.00	8.6	67.6	40.0	2.508	430.0	-9999.0	-9999.0
55.511	171.01	171.09	1.20	0.70	6.81	5.0E-02	120.0	3.331	0.578	2.753	31.9	19.6	60.94	0.72	0.00	8.5	67.5	40.0	2.511	429.5	-9999.0	-9999.0
55.577	169.48	169.56	1.19	0.70	7.19	5.0E-02	120.0	3.335	0.580	2.755	31.6	19.5	60.34	0.72	0.00	8.6	67.3	40.0	2.519	427.1	-9999.0	-9999.0
55.642	166.03	166.11	1.18	0.71	7.42	5.0E-02	120.0	3.339	0.582	2.757	31.1	19.1	59.05	0.73	0.00	8.8	66.7	40.0	2.538	421.5	-9999.0	-9999.0
55.708	161.81	161.89	1.16	0.72	7.58	5.0E-02	120.0	3.343	0.584	2.758	30.4	18.7	57.48	0.73	0.00	9.1	65.9	40.0	2.561	414.6	-9999.0	-9999.0
55.774	156.89	156.97	1.14	0.73	7.66	5.0E-02	120.0	3.346	0.586	2.760	29.7	18.3	55.66	0.74	0.00	9.4	65.0	40.0	2.590	406.6	-9999.0	-9999.0
55.839	153.63	153.71	1.14	0.74	7.15	5.0E-02	120.0	3.350	0.588	2.762	29.2	18.0	54.43	0.76	0.00	9.7	64.4	40.0	2.611	401.3	-9999.0	-9999.0
55.905	151.02	151.09	1.13	0.75	7.05	5.0E-02	120.0	3.354	0.590	2.764	28.8	17.7	53.45	0.77	0.00	9.9	63.9	40.0	2.628	397.0	-9999.0	-9999.0
55.970	148.78	148.86	1.16	0.78	7.54	5.0E-02	120.0	3.358	0.592	2.766	28.5	17.5	52.60	0.80	0.00	10.3	63.5	40.0	2.643	393.4	-9999.0	-9999.0
56.036	147.44	147.52	1.15	0.78	7.42	5.0E-02	120.0	3.362	0.594	2.768	28.3	17.4	52.08	0.80	0.00	10.4	63.2	38.0	2.653	391.3	-9999.0	-9999.0
56.102	146.42	146.50	1.16	0.79	7.56	5.0E-02	120.0	3.366	0.596	2.770	28.2	17.3	51.68	0.81	0.00	10.5	63.0	38.0	2.660	389.7	-9999.0	-9999.0
56.167	144.05	144.13	1.14	0.79	7.70	5.0E-02	120.0	3.370	0.598	2.772	27.8	17.1	50.79	0.81	0.00	10.7	62.5	38.0	2.678	385.9	-9999.0	-9999.0
56.233	142.40	142.48	1.13	0.80	8.04	5.0E-02	120.0	3.374	0.601	2.774	27.5	16.9	50.16	0.81	0.00	10.8	62.2	38.0	2.690	383.3	-9999.0	-9999.0
56.299	140.28	140.36	1.10	0.79	7.58	5.0E-02	120.0	3.378	0.603	2.775	27.1	16.6	49.36	0.80	0.00	10.9	61.7	38.0	2.707	379.9	-9999.0	-9999.0
56.364	139.33	139.41	1.07	0.77	7.66	5.0E-02	120.0	3.382	0.605	2.777	26.9	16.5	48.98	0.79	0.00	10.8	61.5	38.0	2.715	378.5	-9999.0	-9999.0
56.430	138.82	138.90	1.06	0.76	7.83	5.0E-02	120.0	3.386	0.607	2.779	26.8	16.4	48.76	0.78	0.00	10.8	61.4	38.0	2.720	377.7	-9999.0	-9999.0
56.495	137.53	137.62	1.04	0.76	7.87	5.0E-02	120.0	3.390	0.609	2.781	26.6	16.3	48.26	0.78	0.00	10.8	61.1	38.0	2.730	375.7	-9999.0	-9999.0
56.561	135.62	135.70	1.02	0.75	7.87	5.0E-02	120.0	3.394	0.611	2.783	26.3	16.1	47.54	0.77	0.00	10.9	60.7	38.0	2.747	372.7	-9999.0	-9999.0
56.627	135.62	135.71	1.02	0.75	8.02	5.0E-02	120.0	3.398	0.613	2.785	26.3	16.1	47.51	0.77	0.00	10.9	60.7	38.0	2.747	372.8	-9999.0	-9999.0
56.692	136.00	136.09	1.02	0.75	7.94	5.0E-02	120.0	3.402	0.615	2.787	26.3	16.1	47.61	0.77	0.00	10.9	60.8	38.0	2.745	373.5	-9999.0	-9999.0
56.758	137.72	137.81	1.02	0.74	7.78	5.0E-02	120.0	3.406	0.617	2.789	26.6	16.3	48.20	0.76	0.00	10.7	61.1	38.0	2.732	376.5	-9999.0	-9999.0
56.823	139.39	139.48	1.02	0.73	8.08	5.0E-02	120.0	3.409	0.619	2.791	26.8	16.4	48.76	0.75	0.00	10.5	61.5	38.0	2.720	379.3	-9999.0	-9999.0
56.889	139.07	139.15	1.02	0.73	8.10	5.0E-02	120.0	3.413	0.621	2.792	26.8	16.4	48.61	0.75	0.00	10.5	61.4	38.0	2.723	378.9	-9999.0	-9999.0
56.955	139.52	139.61	1.00	0.72	8.38	5.0E-02	120.0	3.417	0.623	2.794	26.8	16.4	48.74	0.74	0.00	10.4	61.5	38.0	2.720	379.7	-9999.0	-9999.0
57.020	137.53	137.62	1.01	0.74	8.12	5.0E-02	120.0	3.421	0.625	2.796	26.5	16.2	47.99	0.75	0.00	10.7	61.1	38.0	2.736	376.6	-9999.0	-9999.0
57.086	136.20	136.29	1.02	0.75	8.02	5.0E-02	120.0	3.425	0.627	2.798	26.3	16.1	47.48	0.77	0.00	10.9	60.8	38.0	2.748	374.5	-9999.0	-9999.0
57.152	134.67	134.76	1.03	0.77	8.38	5.0E-02	120.0	3.429	0.629	2.800	26.1	16.0	46.90	0.79	0.00	11.1	60.4	38.0	2.761	372.1	-9999.0	-9999.0
57.217	133.57	133.66	1.05	0.79	8.14	5.0E-02	120.0	3.433	0.631	2.802	26.0	15.9	46.48	0.81	0.00	11.3	60.2	38.0	2.771	370.4	-9999.0	-9999.0
57.283	132.68	132.77	1.07	0.81	8.20	5.0E-02	120.0	3.437	0.633	2.804	25.9	15.8	46.13	0.83	0.00	11.6	60.0	38.0	2.780	369.0	-9999.0	-9999.0
57.348	131.85	131.94	1.06	0.81	8.36	5.0E-02	120.0	3.441	0.635	2.806	25.8	15.7	45.80	0.83	0.00	11.6	59.8	38.0	2.788	367.8	-9999.0	-9999.0
57.414	129.94	130.02	1.06	0.82	8.24	5.0E-02	120.0	3.445	0.637	2.808	25.5	15.6	45.09	0.84	0.00	11.8	59.4	38.0	2.805	364.8	-9999.0	-9999.0
57.480	128.46	128.56	1.08	0.84	8.65	5.0E-02	120.0	3.449	0.639	2.809	25.3	15.4	44.53	0.87	0.00	12.2	59.1	38.0	2.820	362.5	-9999.0	-9999.0
57.545	127.44	127.53	1.14	0.90	8.81	5.0E-02	120.0	3.453	0.641	2.811	25.3	15.4	44.14	0.92	0.00	12.7	58.8	38.0	2.830	360.9	-9999.0	-9999.0
57.611	129.42	129.52	1.21	0.94	8.61	5.0E-02	120.0	3.457	0.644	2.813	25.8	15.7	44.81	0.96	0.00	12.8	59.2	38.0	2.812	364.2	-9999.0	-9999.0
57.676	135.88	135.98	1.26	0.93	8.87	5.0E-02	120.0	3.461	0.646	2.815	26.9	16.4	47.07	0.95	0.00	12.3	60.6	38.0	2.757	374.9	-9999.0	-9999.0
57.742	146.16	146.27	1.31	0.90	9.62	5.0E-02	120.0	3.465	0.648	2.817	28.5	17.4	50.69	0.92	0.00	11.4	62.7	38.0	2.680	392.0	-9999.0	-9999.0
57.808	161.68	161.79	1.49	0.92	10.33	5.0E-02	120.0	3.469	0.650	2.819	31.2	19.0	56.17	0.94	0.00	10.7	65.6	40.0	2.583	417.9	-9999.0	-9999.0
57.873	178.23	178.35	1.41	0.79	11.04	5.0E-02	120.0	3.472	0.652	2.821	33.5	20.4	62.00	0.81	0.00	9.0	68.4	40.0	2.498	445.6	-9999.0	-9999.0
57.939	195.54	195.65	1.55	0.79	10.16	5.0E-02	120.0	3.476	0.654	2.823	36.3	22.1	68.08	0.81	0.00	8.3	71.0	40.0	2.421	473.7	-9999.0	-9999.0
58.005	213.69	213.80	1.73	0.81	10.12	5.0E-02	120.0	3.480	0.656	2.825	39.3	23.9	74.46	0.82	0.00	7.8	73.6	40.0	2.347	501.7	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
58.070	231.82	231.92	1.86	0.80	8.99	5.0E-02	120.0	3.484	0.658	2.826	42.2	25.7	80.82	0.82	0.00	7.2	75.9	42.0	2.275	527.6	-9999.0	-9999.0
58.136	226.14	226.26	1.97	0.87	11.24	5.0E-02	120.0	3.488	0.660	2.828	41.7	25.3	78.77	0.89	0.00	7.8	75.2	42.0	2.298	519.9	-9999.0	-9999.0
58.201	236.23	236.33	2.05	0.87	8.59	5.0E-02	120.0	3.492	0.662	2.830	43.3	26.3	82.27	0.88	0.00	7.5	76.4	42.0	2.259	533.9	-9999.0	-9999.0
58.267	230.36	230.44	2.11	0.91	7.60	5.0E-02	120.0	3.496	0.664	2.832	42.5	25.8	80.13	0.93	0.00	8.0	75.7	42.0	2.283	526.0	-9999.0	-9999.0
58.333	219.88	219.96	2.11	0.96	7.15	5.0E-02	120.0	3.500	0.666	2.834	41.0	24.9	76.38	0.97	0.00	8.6	74.3	40.0	2.325	511.3	-9999.0	-9999.0
58.398	209.15	209.22	2.07	0.99	6.54	5.0E-02	120.0	3.504	0.668	2.836	39.4	23.9	72.54	1.00	0.00	9.2	72.9	40.0	2.369	495.6	-9999.0	-9999.0
58.464	200.72	200.79	2.02	1.01	6.36	5.0E-02	120.0	3.508	0.670	2.838	38.1	23.1	69.52	1.03	0.00	9.6	71.7	40.0	2.404	482.7	-9999.0	-9999.0
58.529	196.63	196.70	2.01	1.02	7.05	5.0E-02	120.0	3.512	0.672	2.840	37.5	22.7	68.03	1.04	0.00	9.9	71.1	40.0	2.422	476.4	-9999.0	-9999.0
58.595	199.50	199.60	1.91	0.96	8.46	5.0E-02	120.0	3.516	0.674	2.842	37.7	22.8	69.01	0.98	0.00	9.3	71.5	40.0	2.410	481.1	-9999.0	-9999.0
58.661	211.00	211.09	1.85	0.88	8.26	5.0E-02	120.0	3.520	0.676	2.843	39.2	23.8	73.00	0.89	0.00	8.4	73.1	40.0	2.363	498.9	-9999.0	-9999.0
58.726	231.06	231.16	1.95	0.85	8.99	5.0E-02	120.0	3.524	0.678	2.845	42.3	25.6	80.00	0.86	0.00	7.5	75.7	42.0	2.284	527.9	-9999.0	-9999.0
58.792	257.57	257.68	2.27	0.88	9.89	5.0E-02	120.0	3.528	0.680	2.847	46.8	28.3	89.26	0.89	0.00	7.0	78.8	42.0	2.185	563.0	-9999.0	-9999.0
58.858	289.70	289.82	2.71	0.93	10.83	5.0E-02	120.0	3.532	0.682	2.849	52.3	31.6	100.48	0.95	0.00	6.6	82.2	42.0	2.095	607.3	-9999.0	-9999.0
58.923	337.11	337.24	3.26	0.97	11.79	5.0E-02	120.0	3.535	0.685	2.851	60.0	36.3	117.05	0.98	0.00	5.9	86.5	42.0	2.150	725.0	-9999.0	-9999.0
58.989	369.94	370.08	0.56	0.15	12.80	5.0E+00	120.0	3.539	0.687	2.853	56.6	34.2	128.48	0.15	0.00	0.0	89.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.054	388.14	388.30	0.86	0.22	14.38	5.0E+00	120.0	3.543	0.689	2.855	60.2	36.4	134.78	0.22	0.00	0.0	90.5	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.120	401.24	401.40	1.22	0.30	14.66	5.0E+00	120.0	3.547	0.691	2.857	63.3	38.2	139.27	0.31	0.00	0.5	91.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.186	410.89	411.04	1.58	0.39	14.43	5.0E+00	120.0	3.551	0.693	2.859	65.8	39.7	142.55	0.39	0.00	1.1	92.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.251	416.00	416.15	1.91	0.46	14.00	5.0E+00	120.0	3.555	0.695	2.860	67.5	40.8	144.24	0.46	0.00	1.6	92.5	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.317	387.95	388.02	2.24	0.58	6.74	5.0E+00	120.0	3.559	0.697	2.862	64.7	39.1	134.32	0.58	0.00	2.7	90.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.382	398.31	398.38	2.52	0.63	6.62	5.0E+00	120.0	3.563	0.699	2.864	66.8	40.3	137.85	0.64	0.00	3.0	91.2	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.448	397.66	397.74	2.80	0.70	6.72	5.0E+00	120.0	3.567	0.701	2.866	67.4	40.7	137.53	0.71	0.00	3.4	91.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.514	397.59	397.67	3.05	0.77	6.60	5.0E+00	120.0	3.571	0.703	2.868	68.0	41.0	137.41	0.77	0.00	3.8	91.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.579	395.30	395.37	3.24	0.82	6.32	5.0E+00	120.0	3.575	0.705	2.870	68.1	41.1	136.52	0.83	0.00	4.2	90.9	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.645	392.68	392.76	3.39	0.86	6.74	5.0E+00	120.0	3.579	0.707	2.872	68.0	41.0	135.52	0.87	0.00	4.5	90.7	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.711	386.04	386.11	3.51	0.91	7.01	5.0E-02	120.0	3.583	0.709	2.874	67.4	40.6	133.12	0.92	0.00	4.9	90.3	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.776	371.92	372.01	3.54	0.95	7.85	5.0E-02	120.0	3.587	0.711	2.876	65.5	39.5	128.12	0.96	0.00	5.3	89.2	44.0	-9999.0	-9999.0	-9999.0	-9999.0
59.842	354.29	354.38	3.59	1.01	8.50	5.0E-02	120.0	3.591	0.713	2.877	63.1	38.0	121.91	1.02	0.00	5.9	87.8	42.0	-9999.0	-9999.0	-9999.0	-9999.0
59.907	341.38	341.47	3.57	1.05	8.81	5.0E-02	120.0	3.595	0.715	2.879	61.3	36.9	117.35	1.06	0.00	6.3	86.7	42.0	2.166	739.7	-9999.0	-9999.0
59.973	331.09	331.19	1.38	0.42	8.79	5.0E+00	120.0	3.598	0.717	2.881	54.6	32.9	113.70	0.42	0.00	2.3	85.8	42.0	2.118	701.5	-9999.0	-9999.0
60.039	332.00	332.11	1.45	0.44	10.18	5.0E+00	120.0	3.602	0.719	2.883	55.0	33.1	113.94	0.44	0.00	2.4	85.9	42.0	2.121	704.4	-9999.0	-9999.0
60.104	345.73	345.83	1.63	0.47	9.32	5.0E+00	120.0	3.606	0.721	2.885	57.4	34.5	118.62	0.48	0.00	2.5	87.0	42.0	2.192	758.1	-9999.0	-9999.0
60.170	370.39	370.49	1.81	0.49	8.99	5.0E+00	120.0	3.610	0.723	2.887	61.2	36.8	127.09	0.49	0.00	2.3	89.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
60.235	409.60	409.71	0.01	0.00	10.08	5.0E+00	120.0	3.614	0.725	2.889	-9999.0	-9999.0	140.58	0.00	0.00	-9999.0	91.9	44.0	-9999.0	-9999.0	-9999.0	-9999.0
60.301	457.33	457.36	0.01	0.00	3.00	5.0E+00	120.0	3.618	0.728	2.891	-9999.0	-9999.0	156.97	0.00	0.00	-9999.0	95.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
60.367	479.17	479.22	0.01	0.00	3.95	5.0E+00	120.0	3.622	0.730	2.893	-9999.0	-9999.0	164.42	0.00	0.00	-9999.0	95.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
60.432	492.91	492.96	0.01	0.00	4.72	5.0E+00	120.0	3.626	0.732	2.894	-9999.0	-9999.0	169.06	0.00	0.00	-9999.0	95.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
60.498	503.13	503.19	0.01	0.00	5.17	5.0E+00	120.0	3.630	0.734	2.896	-9999.0	-9999.0	172.48	0.00	0.00	-9999.0	95.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0

Gregg In Situ, Inc. - CPT Interpretation

Interpretation Output - Release	1.22A	Format:	NLI	Imperial
Run No:	04-0816-0955-2535			
Job No:	04-127SC			
Client:	MACTEC			
Project:	Allen Fossil Plant			
Site:	CPT-04			
Location:	Allen Plant			
Oversite:	H. Benkhayal			
CPT Date:	04/20/07			
CPT Time:	13:08			
CPT File:	130CP04.COR			
Northing (m):	0.000000			
Easting (m):	0.000000			
Elevation (m):	0.000000			

Water Table (m):	4.57		(ft):	15.0
Unit Weight of Water (default):	62.40	pcf		
Averaging Increment (m):	0.0	(Every Data Point)		
Phi Method :	Robertson and Campanella, 1983			
Su Nkt used:	15.00		Su/P' (nc):	0.30
Dr Method :	Jamiolkowski - All Sands			
State Parameter M:	1.20			
Constant Unit Weight Used Throughout (pcf):	119.97			

N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
0.066	6.13	6.14	0.01	0.16	0.51	1.0E-07	120.0	0.004	0.000	0.004	-9999.0	-9999.0	1558.64	0.16	0.01	-9999.0	-9999.0	-9999.0	-9999.0	-9999.0	0.409	10.0
0.131	12.07	12.07	0.03	0.25	0.20	5.0E-05	120.0	0.008	0.000	0.008	-9999.0	-9999.0	1532.05	0.25	0.00	-9999.0	75.5	50.0	1.974	23.8	0.804	10.0
0.197	20.06	20.06	0.03	0.15	0.08	5.0E-04	120.0	0.012	0.000	0.012	-9999.0	-9999.0	1697.35	0.15	0.00	-9999.0	84.2	50.0	1.895	38.0	-9999.0	-9999.0
0.262	25.74	25.75	0.02	0.08	0.24	5.0E-04	120.0	0.016	0.000	0.016	-9999.0	-9999.0	1633.79	0.08	0.00	-9999.0	87.3	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.328	32.26	32.26	0.06	0.19	0.16	5.0E-04	120.0	0.020	0.000	0.020	-9999.0	-9999.0	1637.79	0.19	0.00	-9999.0	90.5	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.394	43.18	43.19	0.08	0.19	0.12	5.0E-03	120.0	0.024	0.000	0.024	-9999.0	-9999.0	1827.19	0.19	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.459	49.57	49.56	0.08	0.16	-0.67	5.0E-03	120.0	0.028	0.000	0.028	-9999.0	-9999.0	1797.41	0.16	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.525	58.96	58.97	0.08	0.14	0.73	5.0E-03	120.0	0.031	0.000	0.031	-9999.0	-9999.0	1871.31	0.14	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.591	62.09	62.10	0.11	0.18	0.98	5.0E-03	120.0	0.035	0.000	0.035	-9999.0	-9999.0	1751.61	0.18	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.656	66.12	66.13	0.13	0.20	0.85	5.0E-03	120.0	0.039	0.000	0.039	-9999.0	-9999.0	1678.67	0.20	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.722	72.12	72.13	0.16	0.22	0.37	5.0E-03	120.0	0.043	0.000	0.043	-9999.0	-9999.0	1664.50	0.22	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.787	80.23	80.24	0.17	0.21	0.55	5.0E-02	120.0	0.047	0.000	0.047	-9999.0	-9999.0	1697.41	0.21	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.853	93.27	93.27	0.19	0.20	0.77	5.0E-02	120.0	0.051	0.000	0.051	-9999.0	-9999.0	1821.42	0.20	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.919	98.51	98.52	0.21	0.21	0.77	5.0E-02	120.0	0.055	0.000	0.055	-9999.0	-9999.0	1786.37	0.21	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.984	101.58	101.58	0.24	0.24	0.39	5.0E-02	120.0	0.059	0.000	0.059	-9999.0	-9999.0	1719.08	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.050	110.26	110.26	0.20	0.18	0.57	5.0E-02	120.0	0.063	0.000	0.063	-9999.0	-9999.0	1749.42	0.18	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.115	112.75	112.77	0.22	0.20	1.21	5.0E-02	120.0	0.067	0.000	0.067	-9999.0	-9999.0	1683.85	0.20	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.181	121.43	121.44	0.26	0.21	0.59	5.0E-02	120.0	0.071	0.000	0.071	-9999.0	-9999.0	1712.65	0.21	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.247	129.80	129.80	0.30	0.23	-0.67	5.0E-02	120.0	0.075	0.000	0.075	-9999.0	-9999.0	1734.17	0.23	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.312	137.53	137.54	0.26	0.19	0.63	5.0E-02	120.0	0.079	0.000	0.079	-9999.0	-9999.0	1745.74	0.19	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.378	145.39	145.40	0.36	0.25	0.55	5.0E-02	120.0	0.083	0.000	0.083	-9999.0	-9999.0	1757.61	0.25	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.444	154.21	154.22	0.37	0.24	0.45	5.0E-02	120.0	0.087	0.000	0.087	-9999.0	-9999.0	1779.51	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.509	163.86	163.86	0.34	0.21	0.47	5.0E-02	120.0	0.091	0.000	0.091	-9999.0	-9999.0	1808.59	0.21	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.575	166.92	166.94	0.36	0.22	0.96	5.0E-02	120.0	0.094	0.000	0.094	-9999.0	-9999.0	1765.71	0.22	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.640	163.54	163.54	0.41	0.25	0.31	5.0E-02	120.0	0.098	0.000	0.098	-9999.0	-9999.0	1660.55	0.25	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.706	158.88	158.89	0.37	0.23	0.92	5.0E-02	120.0	0.102	0.000	0.102	-9999.0	-9999.0	1551.17	0.23	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.772	153.31	153.32	0.44	0.29	0.96	5.0E-02	120.0	0.106	0.000	0.106	-9999.0	-9999.0	1441.35	0.29	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.837	163.60	163.61	0.45	0.28	0.90	5.0E-02	120.0	0.110	0.000	0.110	-9999.0	-9999.0	1483.13	0.28	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.903	169.03	169.04	0.46	0.27	1.21	5.0E-02	120.0	0.114	0.000	0.114	-9999.0	-9999.0	1479.57	0.27	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.968	176.44	176.45	0.48	0.27	1.25	5.0E-02	120.0	0.118	0.000	0.118	-9999.0	-9999.0	1492.94	0.27	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.034	179.38	179.39	0.51	0.28	1.17	5.0E-02	120.0	0.122	0.000	0.122	-9999.0	-9999.0	1468.81	0.29	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.100	182.70	182.72	0.46	0.25	1.12	5.0E-02	120.0	0.126	0.000	0.126	-9999.0	-9999.0	1449.29	0.25	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.165	183.73	183.73	0.44	0.24	0.63	5.0E-02	120.0	0.130	0.000	0.130	-9999.0	-9999.0	1413.17	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.231	182.63	182.65	0.53	0.29	1.33	5.0E-02	120.0	0.134	0.000	0.134	-9999.0	-9999.0	1363.47	0.29	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.297	184.68	184.69	0.45	0.24	1.50	5.0E-02	120.0	0.138	0.000	0.138	-9999.0	-9999.0	1339.34	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.362	184.75	184.76	0.39	0.21	1.10	5.0E-02	120.0	0.142	0.000	0.142	-9999.0	-9999.0	1302.57	0.21	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.428	181.61	181.62	0.43	0.24	0.61	5.0E-02	120.0	0.146	0.000	0.146	-9999.0	-9999.0	1245.76	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.493	191.26	191.26	0.42	0.22	0.08	5.0E-02	120.0	0.150	0.000	0.150	-9999.0	-9999.0	1277.44	0.22	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.559	199.43	199.45	0.45	0.23	1.06	5.0E-02	120.0	0.154	0.000	0.154	-9999.0	-9999.0	1297.94	0.23	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.625	201.74	201.76	0.53	0.26	1.48	5.0E-02	120.0	0.157	0.000	0.157	-9999.0	-9999.0	1280.13	0.26	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.690	207.55	207.57	0.64	0.31	1.39	5.0E-02	120.0	0.161	0.000	0.161	-9999.0	-9999.0	1284.90	0.31	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.756	213.81	213.83	0.70	0.33	1.66	5.0E-02	120.0	0.165	0.000	0.165	-9999.0	-9999.0	1292.13	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.821	222.24	222.26	0.73	0.33	1.64	5.0E+00	120.0	0.169	0.000	0.169	-9999.0	-9999.0	1311.85	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.887	233.55	233.57	0.79	0.34	1.78	5.0E+00	120.0	0.173	0.000	0.173	-9999.0	-9999.0	1347.30	0.34	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.953	254.63	254.65	0.88	0.35	1.60	5.0E+00	120.0	0.177	0.000	0.177	-9999.0	-9999.0	1436.31	0.35	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.018	284.66	284.68	0.99	0.35	1.76	5.0E+00	120.0	0.181	0.000	0.181	-9999.0	-9999.0	1570.91	0.35	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.084	320.81	320.83	1.16	0.36	1.58	5.0E+00	120.0	0.185	0.000	0.185	-9999.0	-9999.0	1732.80	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.150	356.72	356.74	1.32	0.37	1.90	5.0E+00	120.0	0.189	0.000	0.189	-9999.0	-9999.0	1886.71	0.37	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.215	386.29	386.31	1.59	0.41	2.00	5.0E+00	120.0	0.193	0.000	0.193	-9999.0	-9999.0	2001.48	0.41	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.281	401.43	401.46	1.79	0.45	2.31	5.0E+00	120.0	0.197	0.000	0.197	-9999.0	-9999.0	2038.39	0.45	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.346	411.72	411.75	1.94	0.47	2.84	5.0E+00	120.0	0.201	0.000	0.201	-9999.0	-9999.0	2049.65	0.47	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.412	405.90	405.93	1.99	0.49	2.51	5.0E+00	120.0	0.205	0.000	0.205	-9999.0	-9999.0	1981.80	0.49	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.478	402.01	402.03	2.14	0.53	2.70	5.0E+00	120.0	0.209	0.000	0.209	-9999.0	-9999.0	1925.71	0.53	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.543	396.83	396.86	2.22	0.56	2.76	5.0E+00	120.0	0.213	0.000	0.213	-9999.0	-9999.0	1865.70	0.56	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.609	387.31	387.34	2.26	0.58	2.94	5.0E+00	120.0	0.217	0.000	0.217	-9999.0	-9999.0	1787.79	0.58	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.674	379.90	379.93	2.21	0.58	2.98	5.0E+00	120.0	0.220	0.000	0.220	-9999.0	-9999.0	1722.25	0.58	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.740	368.98	369.01	2.14	0.58	3.00	5.0E+00	120.0	0.224	0.000	0.224	-9999.0	-9999.0	1643.33	0.58	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.806	360.03	360.07	2.10	0.58	2.98	5.0E+00	120.0	0.228	0.000	0.228	-9999.0	-9999.0	1575.82	0.58	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.871	353.27	353.30	2.04	0.58	2.76	5.0E+00	120.0	0.232	0.000	0.232	-9999.0	-9999.0	1519.96	0.58	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.937	350.26	350.29	1.93	0.55	3.08	5.0E+00	120.0	0.236	0.000	0.236	-9999.0	-9999.0	1481.89	0.55	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.003	344.26	344.29	1.88	0.55	3.00	5.0E+00	120.0	0.240	0.000	0.240	-9999.0	-9999.0	1432.58	0.55	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.068	340.24	340.27	1.87	0.55	3.36	5.0E+00	120.0	0.244	0.000	0.244	-9999.0	-9999.0	1393.00	0.55	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.134	339.34	339.38	1.80	0.53	3.31	5.0E+00	120.0	0.248	0.000	0.248	-9999.0	-9999.0	1367.28	0.53	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.199	341.19	341.22	1.73	0.51	3.31	5.0E+00	120.0	0.252	0.000	0.252	-9999.0	-9999.0	1353.22	0.51	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.265	348.80	348.83	1.70	0.49	3.31	5.0E+00	120.0	0.256	0.000	0.256	-9999.0	-9999.0	1362.11	0.49	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.331	358.31	358.35	1.71	0.48	3.44	5.0E+00	120.0	0.260	0.000	0.260	-9999.0	-9999.0	1378.08	0.48	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.396	374.60	374.63	1.81	0.48	2.92	5.0E+00	120.0	0.264	0.000	0.264	-9999.0	-9999.0	1419.22	0.48	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.462	407.63	407.66	1.97	0.48	3.06	5.0E+00	120.0	0.268	0.000	0.268	-9999.0	-9999.0	1521.72	0.48	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
4.528	455.67	455.69	2.33	0.51	2.37	5.0E+00	120.0	0.272	0.000	0.272	-9999.0	-9999.0	1676.45	0.51	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.593	496.48	496.52	2.76	0.56	3.40	5.0E+00	120.0	0.276	0.000	0.276	-9999.0	-9999.0	1800.64	0.56	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.659	520.06	520.09	3.13	0.60	3.04	5.0E+00	120.0	0.280	0.000	0.280	-9999.0	-9999.0	1859.60	0.60	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.724	532.77	532.79	3.44	0.65	1.35	5.0E+00	120.0	0.283	0.000	0.283	-9999.0	-9999.0	1878.53	0.65	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.790	536.35	536.38	3.76	0.70	2.51	5.0E+00	120.0	0.287	0.000	0.287	-9999.0	-9999.0	1865.28	0.70	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.856	531.24	531.27	4.06	0.76	2.55	5.0E+00	120.0	0.291	0.000	0.291	-9999.0	-9999.0	1822.52	0.76	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.921	521.47	521.50	4.28	0.82	2.96	5.0E+00	120.0	0.295	0.000	0.295	-9999.0	-9999.0	1765.12	0.82	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.987	509.84	509.87	4.34	0.85	2.98	5.0E+00	120.0	0.299	0.000	0.299	-9999.0	-9999.0	1703.02	0.85	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.052	498.09	498.12	4.33	0.87	2.76	5.0E+00	120.0	0.303	0.000	0.303	-9999.0	-9999.0	1642.13	0.87	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.118	487.67	487.71	4.23	0.87	3.06	5.0E+00	120.0	0.307	0.000	0.307	-9999.0	-9999.0	1587.15	0.87	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.184	481.54	481.57	4.11	0.85	2.84	5.0E+00	120.0	0.311	0.000	0.311	-9999.0	-9999.0	1547.32	0.85	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.249	480.46	480.49	4.09	0.85	3.33	5.0E+00	120.0	0.315	0.000	0.315	-9999.0	-9999.0	1524.54	0.85	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.315	479.94	479.99	3.28	0.68	3.76	5.0E+00	120.0	0.319	0.000	0.319	-9999.0	-9999.0	1504.12	0.68	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.381	481.67	481.71	3.18	0.66	4.23	5.0E+00	120.0	0.323	0.000	0.323	-9999.0	-9999.0	1491.12	0.66	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.446	483.13	483.18	3.24	0.67	4.33	5.0E+00	120.0	0.327	0.000	0.327	-9999.0	-9999.0	1477.63	0.67	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.512	475.91	475.96	3.15	0.66	4.56	5.0E+00	120.0	0.331	0.000	0.331	-9999.0	-9999.0	1438.21	0.66	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.577	473.62	473.67	3.11	0.66	4.92	5.0E+00	120.0	0.335	0.000	0.335	-9999.0	-9999.0	1414.43	0.66	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.643	456.50	456.54	3.00	0.66	4.27	5.0E+00	120.0	0.339	0.000	0.339	-9999.0	-9999.0	1347.38	0.66	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.709	450.74	450.78	2.95	0.65	3.54	5.0E+00	120.0	0.343	0.000	0.343	-9999.0	-9999.0	1315.06	0.65	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.774	442.70	442.75	2.99	0.67	3.80	5.0E+00	120.0	0.346	0.000	0.346	-9999.0	-9999.0	1276.91	0.68	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.840	429.66	429.71	3.03	0.70	3.97	5.0E+00	120.0	0.350	0.000	0.350	-9999.0	-9999.0	1225.34	0.71	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.905	420.15	420.20	3.02	0.72	4.46	5.0E+00	120.0	0.354	0.000	0.354	-9999.0	-9999.0	1184.88	0.72	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
5.971	410.25	410.29	3.05	0.74	4.19	5.0E+00	120.0	0.358	0.000	0.358	-9999.0	-9999.0	1144.19	0.74	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.037	398.75	398.79	2.90	0.73	4.07	5.0E+00	120.0	0.362	0.000	0.362	-9999.0	-9999.0	1100.00	0.73	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.102	388.52	388.57	2.61	0.67	4.09	5.0E+00	120.0	0.366	0.000	0.366	-9999.0	-9999.0	1060.24	0.67	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.168	380.86	380.91	2.31	0.61	3.91	5.0E+00	120.0	0.370	0.000	0.370	-9999.0	-9999.0	1028.25	0.61	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.234	372.74	372.79	2.19	0.59	4.17	5.0E+00	120.0	0.374	0.000	0.374	57.0	95.2	995.71	0.59	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.299	376.58	376.61	2.11	0.56	2.82	5.0E+00	120.0	0.378	0.000	0.378	57.2	95.1	995.45	0.56	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.365	381.24	381.28	1.57	0.41	3.35	5.0E+00	120.0	0.382	0.000	0.382	56.2	92.9	997.40	0.41	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.430	391.79	391.83	1.65	0.42	3.76	5.0E+00	120.0	0.386	0.000	0.386	-9999.0	-9999.0	1014.55	0.42	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.496	390.13	390.17	1.50	0.39	3.91	5.0E+00	120.0	0.390	0.000	0.390	-9999.0	-9999.0	1000.03	0.39	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.562	397.34	397.39	1.39	0.35	4.03	5.0E+00	120.0	0.394	0.000	0.394	-9999.0	-9999.0	1008.35	0.35	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.627	397.92	397.96	1.50	0.38	3.78	5.0E+00	120.0	0.398	0.000	0.398	58.1	94.1	999.79	0.38	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.693	396.06	396.11	1.45	0.37	4.42	5.0E+00	120.0	0.402	0.000	0.402	57.7	93.0	985.38	0.37	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.758	388.65	388.70	1.37	0.35	4.07	5.0E+00	120.0	0.406	0.000	0.406	56.5	90.7	957.52	0.35	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.824	382.01	382.06	1.39	0.36	4.82	5.0E+00	120.0	0.409	0.000	0.409	55.8	89.1	932.09	0.37	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.890	370.00	370.05	1.34	0.36	4.78	5.0E+00	120.0	0.413	0.000	0.413	54.2	86.1	894.16	0.36	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
6.955	361.83	361.88	1.29	0.36	4.56	5.0E+00	120.0	0.417	0.000	0.417	53.0	83.9	866.13	0.36	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.021	355.31	355.37	1.23	0.35	4.96	5.0E+00	120.0	0.421	0.000	0.421	52.1	82.0	842.57	0.35	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.087	350.58	350.63	1.23	0.35	4.82	5.0E+00	120.0	0.425	0.000	0.425	51.5	80.7	823.63	0.35	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.152	347.96	348.02	1.17	0.34	5.03	5.0E+00	120.0	0.429	0.000	0.429	51.0	79.5	809.97	0.34	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.218	343.74	343.80	1.22	0.36	4.78	5.0E+00	120.0	0.433	0.000	0.433	50.7	78.7	792.85	0.36	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.283	336.98	337.03	1.45	0.43	4.64	5.0E+00	120.0	0.437	0.000	0.437	50.7	78.3	770.21	0.43	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.349	330.71	330.76	1.06	0.32	4.82	5.0E+00	120.0	0.441	0.000	0.441	48.5	74.7	749.12	0.32	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.415	326.56	326.61	1.03	0.32	4.64	5.0E+00	120.0	0.445	0.000	0.445	47.9	73.4	733.15	0.32	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.480	320.05	320.10	1.76	0.55	4.80	5.0E+00	120.0	0.449	0.000	0.449	49.5	75.6	712.19	0.55	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.546	313.85	313.91	1.57	0.50	5.47	5.0E+00	120.0	0.453	0.000	0.453	48.2	73.2	692.32	0.50	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.611	305.03	305.09	1.19	0.39	5.61	5.0E+00	120.0	0.457	0.000	0.457	45.9	69.5	667.04	0.39	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.677	297.43	297.50	0.99	0.33	6.68	5.0E+00	120.0	0.461	0.000	0.461	44.3	66.7	644.86	0.33	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.743	296.73	296.79	0.90	0.30	5.51	5.0E+00	120.0	0.465	0.000	0.465	43.9	65.8	637.84	0.30	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.808	295.71	295.78	0.73	0.25	6.85	5.0E+00	120.0	0.469	0.000	0.469	43.1	64.3	630.32	0.25	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.874	296.41	296.48	0.65	0.22	6.30	5.0E+00	120.0	0.472	0.000	0.472	42.9	63.7	626.54	0.22	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
7.940	297.75	297.81	0.63	0.21	5.71	5.0E+00	120.0	0.476	0.000	0.476	42.9	63.6	624.16	0.21	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.005	302.92	302.99	0.64	0.21	5.61	5.0E+00	120.0	0.480	0.000	0.480	43.6	64.3	629.80	0.21	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.071	307.91	307.97	0.69	0.22	5.67	5.0E+00	120.0	0.484	0.000	0.484	44.5	65.3	634.96	0.22	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.136	307.85	307.90	0.63	0.21	4.56	5.0E+00	120.0	0.488	0.000	0.488	44.2	64.7	629.68	0.21	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.202	309.89	309.95	0.68	0.22	5.33	5.0E+00	120.0	0.492	0.000	0.492	44.7	65.1	628.81	0.22	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.268	311.87	311.92	0.63	0.20	5.21	5.0E+00	120.0	0.496	0.000	0.496	44.7	64.9	627.79	0.20	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.333	313.02	313.08	0.66	0.21	5.25	5.0E+00	120.0	0.500	0.000	0.500	45.0	65.1	625.14	0.21	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.399	313.21	313.26	0.63	0.20	5.05	5.0E+00	120.0	0.504	0.000	0.504	44.9	64.7	620.63	0.20	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.464	314.42	314.48	0.62	0.20	5.35	5.0E+00	120.0	0.508	0.000	0.508	45.0	64.6	618.20	0.20	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.530	315.39	315.44	0.46	0.15	5.25	5.0E+00	120.0	0.512	0.000	0.512	44.4	63.5	615.32	0.15	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.596	319.02	319.08	0.40	0.13	5.13	5.0E+00	120.0	0.516	0.000	0.516	44.6	63.4	617.67	0.13	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.661	320.56	320.62	0.42	0.13	5.55	5.0E+00	120.0	0.520	0.000	0.520	44.9	63.6	615.94	0.13	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.727	318.45	318.51	0.39	0.12	5.63	5.0E+00	120.0	0.524	0.000	0.524	44.5	62.9	607.28	0.12	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.793	316.22	316.28	0.40	0.13	5.59	5.0E+00	120.0	0.528	0.000	0.528	44.3	62.3	598.50	0.13	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.858	292.83	292.89	0.40	0.14	5.83	5.0E+00	120.0	0.532	0.000	0.532	41.5	58.2	550.07	0.14	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
8.924	290.27	290.32	0.46	0.16	4.68	5.0E+00	120.0	0.535	0.000	0.535	41.5	58.0	541.22	0.16	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
8.989	284.46	284.51	0.43	0.15	4.23	5.0E+00	120.0	0.539	0.000	0.539	40.7	56.6	526.47	0.15	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.055	279.80	279.85	0.41	0.15	4.58	5.0E+00	120.0	0.543	0.000	0.543	40.1	55.5	514.08	0.15	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.121	271.43	271.47	0.38	0.14	3.72	5.0E+00	120.0	0.547	0.000	0.547	38.9	53.8	495.06	0.14	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.186	263.51	263.55	0.33	0.13	4.21	5.0E+00	120.0	0.551	0.000	0.551	37.8	52.0	477.16	0.13	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.252	261.14	261.19	0.32	0.12	4.25	5.0E+00	120.0	0.555	0.000	0.555	37.4	51.4	469.51	0.12	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.317	256.04	256.09	0.30	0.12	4.07	5.0E+00	120.0	0.559	0.000	0.559	36.7	50.2	457.06	0.12	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.383	251.88	251.93	0.32	0.13	4.15	5.0E+00	120.0	0.563	0.000	0.563	36.3	49.5	446.47	0.13	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.449	249.91	249.95	0.28	0.11	4.46	5.0E+00	120.0	0.567	0.000	0.567	35.9	48.8	439.89	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.514	247.09	247.13	0.26	0.11	3.97	5.0E+00	120.0	0.571	0.000	0.571	35.5	48.1	431.90	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.580	244.09	244.13	0.25	0.10	3.78	5.0E+00	120.0	0.575	0.000	0.575	35.1	47.4	423.72	0.10	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.646	245.56	245.60	0.25	0.10	4.35	5.0E+00	120.0	0.579	0.000	0.579	35.3	47.5	423.37	0.10	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.711	247.03	247.07	0.23	0.09	3.80	5.0E+00	120.0	0.583	0.000	0.583	-9999.0	-9999.0	423.02	0.09	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.777	251.50	251.54	0.22	0.09	3.83	5.0E+00	120.0	0.587	0.000	0.587	-9999.0	-9999.0	427.80	0.09	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.842	256.86	256.91	0.27	0.11	3.89	5.0E+00	120.0	0.591	0.000	0.591	36.8	49.0	434.02	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.908	258.09	258.13	0.27	0.10	3.93	5.0E+00	120.0	0.594	0.000	0.594	37.0	49.0	433.20	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
9.974	259.61	259.65	0.41	0.16	4.07	5.0E+00	120.0	0.598	0.000	0.598	37.8	50.0	432.89	0.16	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.039	254.32	254.36	0.27	0.11	3.93	5.0E+00	120.0	0.602	0.000	0.602	36.6	48.1	421.26	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.105	249.07	249.12	0.22	0.09	4.13	5.0E+00	120.0	0.606	0.000	0.606	-9999.0	-9999.0	409.88	0.09	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.170	240.70	240.75	0.23	0.10	4.56	5.0E+00	120.0	0.610	0.000	0.610	-9999.0	-9999.0	393.52	0.10	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.236	238.34	238.38	0.22	0.09	4.15	5.0E+00	120.0	0.614	0.000	0.614	-9999.0	-9999.0	387.13	0.09	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.302	234.45	234.49	0.25	0.11	4.05	5.0E+00	120.0	0.618	0.000	0.618	34.1	44.3	378.37	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.367	230.29	230.33	0.22	0.10	3.89	5.0E+00	120.0	0.622	0.000	0.622	-9999.0	-9999.0	369.27	0.10	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.433	228.56	228.61	0.19	0.08	3.83	5.0E+00	120.0	0.626	0.000	0.626	-9999.0	-9999.0	364.19	0.08	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.499	229.21	229.25	0.23	0.10	4.21	5.0E+00	120.0	0.630	0.000	0.630	33.4	43.0	362.93	0.10	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.564	230.36	230.40	0.24	0.10	3.95	5.0E+00	120.0	0.634	0.000	0.634	33.6	43.1	362.49	0.10	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.630	229.27	229.31	0.24	0.10	3.80	5.0E+00	120.0	0.638	0.000	0.638	33.5	42.8	358.53	0.11	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.695	230.68	230.72	0.19	0.08	3.70	5.0E+00	120.0	0.642	0.000	0.642	-9999.0	-9999.0	358.52	0.08	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.761	230.10	230.14	0.33	0.14	4.19	5.0E+00	120.0	0.646	0.000	0.646	34.0	43.2	355.44	0.14	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.827	227.86	227.90	0.27	0.12	3.66	5.0E+00	120.0	0.650	0.000	0.650	33.5	42.4	349.83	0.12	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.892	227.67	227.71	0.22	0.10	3.85	5.0E+00	120.0	0.654	0.000	0.654	-9999.0	-9999.0	347.43	0.10	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.958	224.99	225.03	0.22	0.10	3.76	5.0E+00	120.0	0.657	0.000	0.657	-9999.0	-9999.0	341.25	0.10	0.00	-9999.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.023	220.97	221.01	0.22	0.10	3.64	5.0E+00	120.0	0.661	0.000	0.661	32.4	40.7	333.14	0.10	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.089	216.44	216.48	0.23	0.11	3.95	5.0E+00	120.0	0.665	0.000	0.665	31.9	40.0	324.35	0.11	0.00	0.0	94.6	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.155	211.89	211.94	0.24	0.11	3.99	5.0E+00	120.0	0.669	0.000	0.669	31.4	39.2	315.66	0.11	0.00	0.0	93.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.220	207.48	207.52	0.26	0.13	3.52	5.0E+00	120.0	0.673	0.000	0.673	30.9	38.5	307.24	0.13	0.00	0.0	93.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.286	202.31	202.35	0.21	0.10	3.78	5.0E+00	120.0	0.677	0.000	0.677	30.1	37.4	297.82	0.10	0.00	0.0	92.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.352	196.31	196.35	0.25	0.13	3.72	5.0E+00	120.0	0.681	0.000	0.681	29.5	36.5	287.27	0.13	0.00	0.0	91.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.417	189.47	189.51	0.33	0.17	3.87	5.0E-02	120.0	0.685	0.000	0.685	29.0	35.8	275.64	0.18	0.00	0.0	90.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.483	183.47	183.51	0.25	0.14	3.74	5.0E-02	120.0	0.689	0.000	0.689	27.9	34.3	265.34	0.14	0.00	0.0	89.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.548	177.84	177.88	0.19	0.11	3.78	5.0E-02	120.0	0.693	0.000	0.693	26.9	33.1	255.71	0.11	0.00	0.0	88.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.614	171.78	171.82	0.21	0.12	3.60	5.0E-02	120.0	0.697	0.000	0.697	26.2	32.1	245.56	0.12	0.00	0.0	87.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
11.680	169.35	169.39	0.41	0.24	3.76	5.0E-02	120.0	0.701	0.000	0.701	26.8	32.7	240.71	0.24	0.00	0.6	86.9	46.0	2.016	341.5	-9999.0	-9999.0
11.745	165.58	165.62	0.60	0.36	3.87	5.0E-02	120.0	0.705	0.000	0.705	27.0	32.8	234.02	0.36	0.00	1.8	86.1	46.0	1.967	325.7	-9999.0	-9999.0
11.811	162.57	162.62	0.49	0.30	3.76	5.0E-02	120.0	0.709	0.000	0.709	26.2	31.8	228.47	0.30	0.00	1.3	85.5	46.0	1.936	314.8	-9999.0	-9999.0
11.876	155.55	155.59	0.40	0.26	3.50	5.0E-02	120.0	0.713	0.000	0.713	25.0	30.2	217.33	0.26	0.00	1.2	84.2	46.0	1.894	294.7	-9999.0	-9999.0
11.942	154.40	154.44	0.34	0.22	3.64	5.0E-02	120.0	0.717	0.000	0.717	24.6	29.7	214.54	0.22	0.00	0.9	83.9	46.0	1.889	291.7	-9999.0	-9999.0
12.008	148.65	148.69	0.24	0.16	3.56	5.0E-02	120.0	0.720	0.000	0.720	23.4	28.2	205.37	0.16	0.00	0.5	82.7	46.0	1.879	279.3	-9999.0	-9999.0
12.073	137.15	137.19	0.17	0.12	3.54	5.0E-02	120.0	0.724	0.000	0.724	21.6	26.0	188.38	0.12	0.00	0.5	80.3	44.0	1.892	259.5	-9999.0	-9999.0
12.139	129.23	129.28	0.19	0.15	4.13	5.0E-02	120.0	0.728	0.000	0.728	20.7	24.7	176.49	0.15	0.00	1.0	78.6	44.0	1.917	247.9	-9999.0	-9999.0
12.205	128.15	128.19	0.22	0.17	3.72	5.0E-02	120.0	0.732	0.000	0.732	20.6	24.7	174.05	0.17	0.00	1.3	78.2	44.0	1.923	246.5	-9999.0	-9999.0
12.270	122.53	122.57	0.23	0.19	3.91	5.0E-02	120.0	0.736	0.000	0.736	19.9	23.8	165.48	0.19	0.00	1.7	76.9	44.0	1.947	238.6	-9999.0	-9999.0
12.336	116.77	116.82	0.18	0.15	3.87	5.0E-02	120.0	0.740	0.000	0.740	19.0	22.5	156.82	0.16	0.00	1.6	75.4	44.0	1.975	230.7	-9999.0	-9999.0
12.401	110.71	110.75	0.16	0.14	3.89	5.0E-02	120.0	0.744	0.000	0.744	18.1	21.4	147.84	0.15	0.00	1.8	73.8	44.0	2.007	222.2	-9999.0	-9999.0
12.467	104.51	104.56	0.18	0.17	4.09	5.0E-02	120.0	0.748	0.000	0.748	17.3	20.5	138.78	0.17	0.00	2.4	72.1	44.0	2.042	213.5	-9999.0	-9999.0
12.533	95.31	95.36	0.18	0.19	4.07	5.0E-02	120.0	0.752	0.000	0.752	16.1	18.9	125.81	0.19	0.00	3.2	69.4	44.0	2.101	200.3	-9999.0	-9999.0
12.598	89.95	89.98	0.14	0.16	3.29	5.0E-02	120.0	0.756	0.000	0.756	15.2	17.8	118.04	0.16	0.00	3.2	67.6	42.0	2.142	192.7	-9999.0	-9999.0
12.664	86.81	86.85	0.18	0.21	3.74	5.0E-02	120.0	0.760	0.000	0.760	14.9	17.5	113.30	0.21	0.00	4.0	66.6	42.0	2.169	188.4	-9999.0	-9999.0
12.730	82.15	82.19	0.16	0.20	3.85	5.0E-02	120.0	0.764	0.000	0.764	14.2	16.6	106.61	0.20	0.00	4.2	64.9	42.0	2.214	181.9	-9999.0	-9999.0
12.795	76.08	76.12	0.14	0.18	3.54	5.0E-03	120.0	0.768	0.000	0.768	13.2	15.4	98.15	0.19	0.00	4.6	62.6	42.0	2.281	173.7	-9999.0	-9999.0
12.861	73.53	73.57	0.15	0.20	3.85	5.0E-03	120.0	0.772	0.000	0.772	12.9	15.0	94.34	0.21	0.00	5.0	61.6	42.0	2.316	170.4	-9999.0	-9999.0
12.926	69.70	69.74	0.16	0.23	4.05	5.0E-03	120.0	0.776	0.000	0.776	12.4	14.4	88.92	0.23	0.00	5.0	60.0	42.0	2.371	165.4	-9999.0	-9999.0
12.992	67.52	67.57	0.17	0.25	4.11	5.0E-03	120.0	0.780	0.000	0.780	12.1	14.0	85.68	0.26	0.00	5.0	59.0	42.0	2.408	162.7	-9999.0	-9999.0
13.058	65.61	65.65	0.22	0.34	4.09	5.0E-03	120.0	0.783	0.000	0.783	12.0	13.9	82.80	0.34	0.00	5.0	58.1	42.0	2.442	160.3	-9999.0	-9999.0
13.123	67.77	67.82	0.20	0.30	4.17	5.0E-03	120.0	0.787	0.000	0.787	12.3	14.2	85.13	0.30	0.00	5.0	59.0	42.0	2.410	163.4	-9999.0	-9999.0
13.189	74.87	74.92	0.21	0.28	4.23	5.0E-03	120.0	0.791	0.000	0.791	13.4	15.3	93.67	0.28	0.00	5.0	61.7	42.0	2.312	173.2	-9999.0	-9999.0
13.254	86.05	86.10	0.21	0.24	4.50	5.0E-02	120.0	0.795	0.000	0.795	14.9	17.1	107.26	0.25	0.00	4.6	65.6	42.0	2.195	189.0	-9999.0	-9999.0
13.320	100.10	100.15	0.19	0.19	4.50	5.0E-02	120.0	0.799	0.000	0.799	16.8	19.2	124.31	0.19	0.00	3.1	69.9	42.0	2.092	209.5	-9999.0	-9999.0
13.386	114.41	114.46	0.21	0.18	4.76	5.0E-02	120.0	0.803	0.000	0.803	18.9	21.5	141.51	0.19	0.00	2.2	73.7	44.0	2.013	230.4	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
13.451	125.01	125.06	0.22	0.18	4.52	5.0E-02	120.0	0.807	0.000	0.807	20.4	23.2	153.95	0.18	0.00	1.7	76.1	44.0	1.965	245.7	-9999.0	-9999.0
13.517	133.64	133.69	0.21	0.16	4.54	5.0E-02	120.0	0.811	0.000	0.811	21.5	24.4	163.84	0.16	0.00	1.2	78.0	44.0	1.931	258.1	-9999.0	-9999.0
13.583	141.24	141.29	0.23	0.16	4.64	5.0E-02	120.0	0.815	0.000	0.815	22.6	25.6	172.37	0.16	0.00	1.0	79.5	44.0	1.907	269.4	-9999.0	-9999.0
13.648	149.48	149.54	0.22	0.15	4.88	5.0E-02	120.0	0.819	0.000	0.819	23.6	26.7	181.60	0.15	0.00	0.6	81.1	44.0	1.888	282.4	-9999.0	-9999.0
13.714	157.40	157.45	0.26	0.17	4.66	5.0E-02	120.0	0.823	0.000	0.823	24.8	28.0	190.35	0.17	0.00	0.6	82.5	44.0	1.882	296.3	-9999.0	-9999.0
13.779	166.47	166.52	0.25	0.15	4.64	5.0E-02	120.0	0.827	0.000	0.827	26.0	29.2	200.41	0.15	0.00	0.2	84.0	46.0	1.895	315.5	-9999.0	-9999.0
13.845	173.25	173.30	0.26	0.15	4.78	5.0E-02	120.0	0.831	0.000	0.831	26.9	30.2	207.62	0.15	0.00	0.1	85.1	46.0	1.922	333.1	-9999.0	-9999.0
13.911	181.49	181.54	0.27	0.15	4.76	5.0E-02	120.0	0.835	0.000	0.835	28.0	31.4	216.51	0.15	0.00	0.0	86.3	46.0	1.983	360.0	-9999.0	-9999.0
13.976	192.99	193.04	0.27	0.14	4.86	5.0E-02	120.0	0.839	0.000	0.839	29.5	33.0	229.20	0.14	0.00	0.0	88.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.042	198.16	198.21	0.26	0.13	4.98	5.0E+00	120.0	0.843	0.000	0.843	30.2	33.6	234.26	0.13	0.00	0.0	88.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.107	207.87	207.93	0.25	0.12	4.76	5.0E+00	120.0	0.846	0.000	0.846	31.4	34.8	244.64	0.12	0.00	0.0	90.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.173	215.72	215.78	0.26	0.12	4.98	5.0E+00	120.0	0.850	0.000	0.850	32.4	35.9	252.74	0.12	0.00	0.0	91.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.239	223.14	223.20	0.29	0.13	5.33	5.0E+00	120.0	0.854	0.000	0.854	33.5	37.0	260.25	0.13	0.00	0.0	91.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.304	227.99	228.05	0.30	0.13	5.17	5.0E+00	120.0	0.858	0.000	0.858	34.2	37.7	264.71	0.13	0.00	0.0	92.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.370	233.11	233.16	0.38	0.16	5.17	5.0E+00	120.0	0.862	0.000	0.862	35.2	38.7	269.42	0.16	0.00	0.0	93.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.436	238.85	238.90	0.35	0.15	4.88	5.0E+00	120.0	0.866	0.000	0.866	35.8	39.3	274.82	0.15	0.00	0.0	93.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.501	243.83	243.89	0.32	0.13	5.25	5.0E+00	120.0	0.870	0.000	0.870	36.3	39.7	279.30	0.13	0.00	0.0	94.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.567	247.80	247.86	0.30	0.12	5.21	5.0E+00	120.0	0.874	0.000	0.874	36.7	40.1	282.58	0.12	0.00	0.0	94.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.632	250.99	251.05	0.35	0.14	5.35	5.0E+00	120.0	0.878	0.000	0.878	37.3	40.7	284.94	0.14	0.00	0.0	94.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.698	251.12	251.17	0.31	0.12	5.15	5.0E+00	120.0	0.882	0.000	0.882	37.2	40.4	283.81	0.12	0.00	0.0	94.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.764	253.93	253.98	0.29	0.11	5.25	5.0E+00	120.0	0.886	0.000	0.886	37.4	40.7	285.71	0.11	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.829	252.84	252.90	0.25	0.10	5.45	5.0E+00	120.0	0.890	0.000	0.890	-9999.0	-9999.0	283.23	0.10	0.00	-9999.0	94.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.895	247.48	247.54	0.28	0.11	5.21	5.0E+00	120.0	0.894	0.000	0.894	36.6	39.6	275.98	0.11	0.00	0.0	94.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.960	243.32	243.38	0.24	0.10	5.35	5.0E+00	120.0	0.898	0.000	0.898	-9999.0	-9999.0	270.13	0.10	0.00	-9999.0	93.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.026	237.52	237.57	0.23	0.10	5.23	5.0E+00	120.0	0.902	0.001	0.901	-9999.0	-9999.0	262.74	0.10	0.00	-9999.0	93.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.092	229.27	229.32	0.24	0.10	5.13	5.0E+00	120.0	0.906	0.003	0.903	34.2	36.8	253.05	0.11	0.00	0.0	91.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.157	221.10	221.15	0.25	0.11	5.23	5.0E+00	120.0	0.909	0.005	0.905	33.2	35.7	243.48	0.11	0.00	0.0	90.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.223	216.44	216.49	0.23	0.11	5.27	5.0E+00	120.0	0.913	0.007	0.906	32.5	34.9	237.83	0.11	0.00	0.0	90.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.289	214.51	214.57	0.22	0.10	5.21	5.0E+00	120.0	0.917	0.009	0.908	32.2	34.6	235.21	0.10	0.00	0.0	89.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.354	215.72	215.78	0.18	0.08	5.41	5.0E+00	120.0	0.921	0.011	0.910	-9999.0	-9999.0	236.06	0.08	0.00	-9999.0	90.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.420	213.62	213.68	0.21	0.10	5.53	5.0E+00	120.0	0.925	0.013	0.912	-9999.0	-9999.0	233.26	0.10	0.00	-9999.0	89.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.485	207.93	207.99	0.18	0.09	4.92	5.0E+00	120.0	0.929	0.015	0.914	-9999.0	-9999.0	226.54	0.09	0.00	-9999.0	88.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.551	207.10	207.16	0.22	0.11	5.29	5.0E+00	120.0	0.933	0.017	0.916	31.3	33.4	225.17	0.11	0.00	0.0	88.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.617	208.96	209.02	0.20	0.10	5.73	5.0E+00	120.0	0.937	0.019	0.918	-9999.0	-9999.0	226.73	0.10	0.00	-9999.0	89.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.682	211.51	211.57	0.19	0.09	5.59	5.0E+00	120.0	0.941	0.021	0.920	-9999.0	-9999.0	229.03	0.09	0.00	-9999.0	89.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.748	214.64	214.70	0.20	0.09	5.51	5.0E+00	120.0	0.945	0.023	0.922	-9999.0	-9999.0	231.95	0.09	0.00	-9999.0	89.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.813	217.07	217.13	0.20	0.09	5.59	5.0E+00	120.0	0.949	0.025	0.923	-9999.0	-9999.0	234.10	0.09	0.00	-9999.0	90.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.879	219.81	219.88	0.19	0.09	5.83	5.0E+00	120.0	0.953	0.027	0.925	-9999.0	-9999.0	236.59	0.09	0.00	-9999.0	90.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.945	223.84	223.91	0.17	0.08	6.13	5.0E+00	120.0	0.957	0.029	0.927	-9999.0	-9999.0	240.46	0.08	0.00	-9999.0	90.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.010	228.44	228.51	0.19	0.08	5.95	5.0E+00	120.0	0.961	0.032	0.929	-9999.0	-9999.0	244.91	0.08	0.00	-9999.0	91.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.076	233.68	233.74	0.17	0.07	6.01	5.0E+00	120.0	0.965	0.034	0.931	-9999.0	-9999.0	250.03	0.07	0.00	-9999.0	92.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.142	239.49	239.56	0.19	0.08	5.99	5.0E+00	120.0	0.969	0.036	0.933	-9999.0	-9999.0	255.76	0.08	0.00	-9999.0	92.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.207	246.84	246.90	0.22	0.09	6.09	5.0E+00	120.0	0.972	0.038	0.935	-9999.0	-9999.0	263.10	0.09	0.00	-9999.0	93.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.273	250.86	250.93	0.25	0.10	6.18	5.0E+00	120.0	0.976	0.040	0.937	37.0	39.1	266.85	0.10	0.00	0.0	94.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.338	248.11	248.18	0.27	0.11	6.48	5.0E+00	120.0	0.980	0.042	0.939	36.8	38.8	263.39	0.11	0.00	0.0	93.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.404	246.07	246.14	0.35	0.14	6.30	5.0E+00	120.0	0.984	0.044	0.940	36.9	38.8	260.68	0.14	0.00	0.0	93.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.470	243.45	243.52	0.36	0.15	6.36	5.0E+00	120.0	0.988	0.046	0.942	36.6	38.5	257.38	0.15	0.00	0.0	93.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.535	241.54	241.60	0.34	0.14	6.20	5.0E+00	120.0	0.992	0.048	0.944	36.2	38.1	254.83	0.14	0.00	0.0	92.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.601	241.02	241.09	0.30	0.12	6.34	5.0E+00	120.0	0.996	0.050	0.946	36.0	37.8	253.78	0.13	0.00	0.0	92.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.666	241.41	241.47	0.27	0.11	6.32	5.0E+00	120.0	1.000	0.052	0.948	35.9	37.7	253.67	0.11	0.00	0.0	92.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.732	245.50	245.56	0.27	0.11	6.30	5.0E+00	120.0	1.004	0.054	0.950	36.5	38.2	257.47	0.11	0.00	0.0	93.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.798	251.06	251.13	0.29	0.12	6.38	5.0E+00	120.0	1.008	0.056	0.952	37.3	39.0	262.80	0.12	0.00	0.0	93.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.863	253.74	253.80	0.31	0.12	6.32	5.0E+00	120.0	1.012	0.058	0.954	37.7	39.4	265.08	0.12	0.00	0.0	94.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.929	248.11	248.18	0.30	0.12	6.60	5.0E+00	120.0	1.016	0.060	0.956	36.9	38.6	258.67	0.12	0.00	0.0	93.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.995	244.15	244.23	0.29	0.12	6.95	5.0E+00	120.0	1.020	0.062	0.957	36.4	38.0	254.02	0.12	0.00	0.0	92.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.060	244.54	244.61	0.30	0.12	6.07	5.0E+00	120.0	1.024	0.064	0.959	36.5	38.1	253.92	0.12	0.00	0.0	92.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.126	244.79	244.86	0.31	0.13	6.36	5.0E+00	120.0	1.028	0.066	0.961	36.6	38.1	253.68	0.13	0.00	0.0	92.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.191	248.69	248.76	0.31	0.12	6.18	5.0E+00	120.0	1.032	0.068	0.963	37.1	38.6	257.22	0.13	0.00	0.0	93.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.257	250.61	250.68	0.32	0.13	6.52	5.0E+00	120.0	1.035	0.070	0.965	37.4	38.9	258.70	0.13	0.00	0.0	93.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.323	252.97	253.05	0.30	0.12	6.60	5.0E+00	120.0	1.039	0.073	0.967	37.6	39.0	260.64	0.12	0.00	0.0	93.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.388	256.16	256.24	0.31	0.12	6.85	5.0E+00	120.0	1.043	0.075	0.969	38.0	39.5	263.42	0.12	0.00	0.0	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.454	263.51	263.58	0.33	0.13	6.58	5.0E+00	120.0	1.047	0.077	0.971	39.0	40.5	270.47	0.13	0.00	0.0	94.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.519	274.38	274.45	0.39	0.14	6.50	5.0E+00	120.0	1.051	0.079	0.973	40.6	42.1	281.12	0.14	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.585	281.01	281.09	0.44	0.16	6.97	5.0E+00	120.0	1.055	0.081	0.974	41.7	43.2	287.38	0.16	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.651	280.44	280.52	0.42	0.15	6.95	5.0E+00	120.0	1.059	0.083	0.976	41.5	43.0	286.24	0.15	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.716	280.25	280.32	0.42	0.15	6.95	5.0E+00	120.0	1.063	0.085	0.978	41.5	42.9	285.49	0.15	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.782	279.87	279.94	0.39	0.14	6.89	5.0E+00	120.0	1.067	0.087	0.980	41.4	42.7	284.54	0.14	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.848	280.89	280.97	0.34	0.12	6.95	5.0E+00	120.0	1.071	0.089	0.982	41.3	42.6	285.03	0.12	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt,	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
17.913	280.18	280.26	0.33	0.12	7.15	5.0E+00	120.0	1.075	0.091	0.984	41.1	42.4	283.76	0.12	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.979	279.17	279.24	0.33	0.12	6.97	5.0E+00	120.0	1.079	0.093	0.986	41.0	42.2	282.19	0.12	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.044	276.61	276.69	0.33	0.12	6.93	5.0E+00	120.0	1.083	0.095	0.988	40.7	41.9	279.05	0.12	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.110	273.54	273.62	0.31	0.11	7.31	5.0E+00	120.0	1.087	0.097	0.990	40.2	41.3	275.42	0.11	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.176	270.41	270.48	0.28	0.10	7.09	5.0E+00	120.0	1.091	0.099	0.991	39.7	40.8	271.73	0.10	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.241	265.94	266.01	0.30	0.11	7.23	5.0E+00	120.0	1.095	0.101	0.993	39.3	40.3	266.71	0.11	0.00	0.0	94.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.307	262.24	262.32	0.48	0.18	7.70	5.0E+00	120.0	1.098	0.103	0.995	39.6	40.5	262.48	0.18	0.00	0.0	94.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.372	258.91	258.99	0.34	0.13	7.80	5.0E+00	120.0	1.102	0.105	0.997	38.6	39.5	258.65	0.13	0.00	0.0	94.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.438	259.87	259.95	0.28	0.11	7.05	5.0E+00	120.0	1.106	0.107	0.999	38.4	39.3	259.11	0.11	0.00	0.0	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.504	258.15	258.22	0.32	0.12	7.25	5.0E+00	120.0	1.110	0.109	1.001	38.4	39.2	256.89	0.12	0.00	0.0	93.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.569	255.34	255.42	0.29	0.11	7.01	5.0E+00	120.0	1.114	0.111	1.003	37.9	38.7	253.61	0.11	0.00	0.0	93.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.635	243.64	243.75	0.25	0.10	10.41	5.0E+00	120.0	1.118	0.113	1.005	36.3	37.0	241.52	0.10	0.00	0.0	92.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.701	234.00	234.07	0.24	0.10	6.68	5.0E+00	120.0	1.122	0.116	1.007	35.0	35.7	231.44	0.10	0.00	0.0	90.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.766	232.08	232.16	0.21	0.09	6.66	5.0E+00	120.0	1.126	0.118	1.008	-9999.0	-9999.0	229.10	0.09	0.00	-9999.0	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.832	232.65	232.73	0.22	0.09	6.68	5.0E+00	120.0	1.130	0.120	1.010	-9999.0	-9999.0	229.24	0.10	0.00	-9999.0	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.897	233.36	233.43	0.22	0.09	6.99	5.0E+00	120.0	1.134	0.122	1.012	-9999.0	-9999.0	229.50	0.09	0.00	-9999.0	90.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.963	232.84	232.92	0.26	0.11	7.01	5.0E+00	120.0	1.138	0.124	1.014	35.0	35.5	228.57	0.11	0.00	0.0	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.029	232.84	232.92	0.30	0.13	7.11	5.0E+00	120.0	1.142	0.126	1.016	35.1	35.6	228.14	0.13	0.00	0.0	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.094	234.89	234.97	0.25	0.11	7.09	5.0E+00	120.0	1.146	0.128	1.018	35.2	35.6	229.72	0.11	0.00	0.0	90.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.160	235.53	235.61	0.25	0.11	6.97	5.0E+00	120.0	1.150	0.130	1.020	35.3	35.7	229.92	0.11	0.00	0.0	90.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.225	234.96	235.04	0.24	0.10	7.19	5.0E+00	120.0	1.154	0.132	1.022	35.2	35.6	228.93	0.10	0.00	0.0	90.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.291	239.30	239.38	0.30	0.13	7.44	5.0E+00	120.0	1.157	0.134	1.024	36.0	36.3	232.75	0.13	0.00	0.0	91.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.357	238.60	238.68	0.28	0.12	7.31	5.0E+00	120.0	1.161	0.136	1.025	35.8	36.1	231.63	0.12	0.00	0.0	91.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.422	243.45	243.53	0.27	0.11	7.27	5.0E+00	120.0	1.165	0.138	1.027	36.4	36.7	235.93	0.11	0.00	0.0	91.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.488	252.33	252.41	0.30	0.12	7.44	5.0E+00	120.0	1.169	0.140	1.029	37.6	37.9	244.12	0.12	0.00	0.0	92.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.554	258.79	258.87	0.34	0.13	7.96	5.0E+00	120.0	1.173	0.142	1.031	38.6	38.9	249.94	0.13	0.00	0.0	93.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.619	261.02	261.10	0.31	0.12	7.56	5.0E+00	120.0	1.177	0.144	1.033	38.8	39.0	251.63	0.12	0.00	0.0	93.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.685	264.40	264.48	0.26	0.10	7.50	5.0E+00	120.0	1.181	0.146	1.035	-9999.0	-9999.0	254.44	0.10	0.00	-9999.0	94.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.750	265.42	265.51	0.29	0.11	7.54	5.0E+00	120.0	1.185	0.148	1.037	39.3	39.4	254.96	0.11	0.00	0.0	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.816	266.90	266.98	0.30	0.11	7.42	5.0E+00	120.0	1.189	0.150	1.039	39.5	39.6	255.91	0.11	0.00	0.0	94.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.882	267.86	267.94	0.34	0.13	7.83	5.0E+00	120.0	1.193	0.152	1.041	39.8	39.9	256.37	0.13	0.00	0.0	94.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
19.947	265.55	265.64	0.33	0.12	7.76	5.0E+00	120.0	1.197	0.154	1.042	39.5	39.5	253.69	0.13	0.00	0.0	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.013	264.60	264.68	0.34	0.13	7.66	5.0E+00	120.0	1.201	0.157	1.044	39.4	39.4	252.31	0.13	0.00	0.0	93.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.078	259.55	259.63	0.30	0.12	7.81	5.0E+00	120.0	1.205	0.159	1.046	38.6	38.5	247.02	0.12	0.00	0.0	93.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.144	255.21	255.30	0.28	0.11	8.18	5.0E+00	120.0	1.209	0.161	1.048	38.0	37.9	242.44	0.11	0.00	0.0	92.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.210	248.88	248.98	0.28	0.11	8.53	5.0E+00	120.0	1.213	0.163	1.050	37.2	37.1	235.98	0.11	0.00	0.0	92.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.275	242.62	242.70	0.27	0.11	7.68	5.0E+00	120.0	1.217	0.165	1.052	36.3	36.2	229.58	0.11	0.00	0.0	91.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.341	235.91	236.00	0.31	0.13	7.66	5.0E+00	120.0	1.220	0.167	1.054	35.6	35.5	222.80	0.13	0.00	0.0	90.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.407	235.27	235.35	0.29	0.12	7.44	5.0E+00	120.0	1.224	0.169	1.056	35.5	35.3	221.79	0.12	0.00	0.0	90.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.472	234.57	234.65	0.25	0.11	7.66	5.0E+00	120.0	1.228	0.171	1.058	35.2	35.0	220.73	0.11	0.00	0.0	90.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.538	238.03	238.11	0.30	0.13	7.85	5.0E+00	120.0	1.232	0.173	1.059	35.9	35.6	223.60	0.13	0.00	0.0	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.603	242.11	242.19	0.27	0.11	7.74	5.0E+00	120.0	1.236	0.175	1.061	36.3	36.0	227.04	0.11	0.00	0.0	91.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.669	247.80	247.88	0.33	0.13	7.52	5.0E+00	120.0	1.240	0.177	1.063	37.3	36.9	231.99	0.13	0.00	0.0	91.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.735	256.35	256.43	0.31	0.12	7.64	5.0E+00	120.0	1.244	0.179	1.065	38.3	37.9	239.60	0.12	0.00	0.0	92.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.800	268.68	268.77	0.30	0.11	8.20	5.0E+00	120.0	1.248	0.181	1.067	39.8	39.3	250.74	0.11	0.00	0.0	94.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.866	280.89	280.98	0.36	0.13	8.28	5.0E+00	120.0	1.252	0.183	1.069	41.6	41.1	261.71	0.13	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.932	296.03	296.12	0.39	0.13	8.40	5.0E+00	120.0	1.256	0.185	1.071	43.6	43.0	275.39	0.13	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
20.997	315.83	315.93	0.44	0.14	9.36	5.0E+00	120.0	1.260	0.187	1.073	46.3	45.6	293.37	0.14	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.063	328.42	328.51	0.57	0.17	8.93	5.0E+00	120.0	1.264	0.189	1.074	48.4	47.7	304.56	0.17	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.128	328.67	328.76	0.52	0.16	8.79	5.0E+00	120.0	1.268	0.191	1.076	48.2	47.5	304.25	0.16	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.194	325.03	325.12	0.51	0.16	8.46	5.0E+00	120.0	1.272	0.193	1.078	47.7	47.0	300.34	0.16	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.260	320.88	320.97	0.56	0.17	8.22	5.0E+00	120.0	1.276	0.195	1.080	47.4	46.6	295.97	0.18	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.325	320.62	320.71	0.56	0.18	8.42	5.0E+00	120.0	1.280	0.197	1.082	47.4	46.6	295.21	0.18	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.391	313.98	314.07	0.53	0.17	8.48	5.0E+00	120.0	1.283	0.200	1.084	46.5	45.6	288.57	0.17	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.456	309.95	310.05	0.53	0.17	8.87	5.0E+00	120.0	1.287	0.202	1.086	46.0	45.1	284.35	0.17	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.522	304.91	305.00	0.53	0.17	8.65	5.0E+00	120.0	1.291	0.204	1.088	45.3	44.4	279.22	0.17	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.588	294.49	294.58	0.48	0.16	8.32	5.0E+00	120.0	1.295	0.206	1.090	43.8	42.9	269.17	0.16	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.653	285.36	285.44	0.46	0.16	7.44	5.0E+00	120.0	1.299	0.208	1.091	42.6	41.7	260.33	0.16	0.00	0.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.719	279.17	279.26	0.35	0.13	8.38	5.0E+00	120.0	1.303	0.210	1.093	41.4	40.4	254.22	0.13	0.00	0.0	94.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.785	273.35	273.44	0.29	0.11	8.36	5.0E+00	120.0	1.307	0.212	1.095	40.4	39.4	248.46	0.11	0.00	0.0	94.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.850	264.09	264.18	0.30	0.11	8.55	5.0E+00	120.0	1.311	0.214	1.097	39.3	38.3	239.59	0.11	0.00	0.0	93.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.916	260.70	260.79	0.27	0.10	8.12	5.0E+00	120.0	1.315	0.216	1.099	38.7	37.7	236.09	0.10	0.00	0.0	92.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
21.981	255.78	255.88	0.28	0.11	8.75	5.0E+00	120.0	1.319	0.218	1.101	38.1	37.1	231.22	0.11	0.00	0.0	92.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.047	237.83	237.90	0.26	0.11	7.05	5.0E+00	120.0	1.323	0.220	1.103	35.8	34.8	214.52	0.11	0.00	0.0	90.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.113	233.36	233.44	0.22	0.09	7.50	5.0E+00	120.0	1.327	0.222	1.105	-9999.0	-9999.0	210.11	0.10	0.00	-9999.0	89.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.178	226.01	226.09	0.23	0.10	7.89	5.0E+00	120.0	1.331	0.224	1.107	34.2	33.2	203.11	0.10	0.00	0.0	88.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.244	219.75	219.84	0.21	0.10	7.87	5.0E+00	120.0	1.335	0.226	1.108	-9999.0	-9999.0	197.12	0.10	0.00	-9999.0	87.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
22.309	213.18	213.27	0.20	0.09	8.20	5.0E+00	120.0	1.339	0.228	1.110	-9999.0	-9999.0	190.86	0.09	0.00	-9999.0	86.9	44.0	2.042	435.4	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
22.375	205.95	206.04	0.19	0.09	8.22	5.0E+00	120.0	1.343	0.230	1.112	-9999.0	-9999.0	184.04	0.09	0.00	-9999.0	85.9	44.0	1.978	407.5	-9999.0	-9999.0
22.441	203.59	203.69	0.19	0.09	8.57	5.0E+00	120.0	1.346	0.232	1.114	-9999.0	-9999.0	181.61	0.09	0.00	-9999.0	85.5	44.0	1.962	399.6	-9999.0	-9999.0
22.506	198.86	198.95	0.18	0.09	8.32	5.0E+00	120.0	1.350	0.234	1.116	-9999.0	-9999.0	177.06	0.09	0.00	-9999.0	84.8	44.0	1.938	385.5	-9999.0	-9999.0
22.572	194.07	194.16	0.16	0.08	8.44	5.0E+00	120.0	1.354	0.236	1.118	-9999.0	-9999.0	172.47	0.08	0.00	-9999.0	84.1	44.0	1.922	373.3	-9999.0	-9999.0
22.638	189.15	189.24	0.16	0.08	8.57	5.0E-02	120.0	1.358	0.238	1.120	-9999.0	-9999.0	167.78	0.09	0.00	-9999.0	83.3	44.0	1.914	362.3	-9999.0	-9999.0
22.703	184.56	184.65	0.15	0.08	8.89	5.0E-02	120.0	1.362	0.241	1.122	-9999.0	-9999.0	163.40	0.08	0.00	-9999.0	82.6	44.0	1.913	353.2	-9999.0	-9999.0
22.769	179.12	179.21	0.16	0.09	8.04	5.0E-02	120.0	1.366	0.243	1.124	-9999.0	-9999.0	158.28	0.09	0.00	-9999.0	81.7	44.0	1.917	343.5	-9999.0	-9999.0
22.834	175.42	175.51	0.13	0.07	8.34	5.0E-02	120.0	1.370	0.245	1.125	-9999.0	-9999.0	154.72	0.07	0.00	-9999.0	81.1	44.0	1.923	337.5	-9999.0	-9999.0
22.900	170.43	170.53	0.15	0.09	8.71	5.0E-02	120.0	1.374	0.247	1.127	-9999.0	-9999.0	150.04	0.09	0.00	-9999.0	80.2	44.0	1.934	329.8	-9999.0	-9999.0
22.966	169.41	169.51	0.14	0.08	8.71	5.0E-02	120.0	1.378	0.249	1.129	-9999.0	-9999.0	148.88	0.08	0.00	-9999.0	80.0	44.0	1.937	328.4	-9999.0	-9999.0
23.031	167.44	167.53	0.15	0.09	8.50	5.0E-02	120.0	1.382	0.251	1.131	-9999.0	-9999.0	146.88	0.09	0.00	-9999.0	79.7	44.0	1.943	325.6	-9999.0	-9999.0
23.097	167.12	167.21	0.15	0.09	8.61	5.0E-02	120.0	1.386	0.253	1.133	-9999.0	-9999.0	146.35	0.09	0.00	-9999.0	79.6	44.0	1.945	325.2	-9999.0	-9999.0
23.162	168.14	168.23	0.19	0.11	8.50	5.0E-02	120.0	1.390	0.255	1.135	26.5	25.4	147.01	0.11	0.00	0.5	79.8	44.0	1.943	326.8	-9999.0	-9999.0
23.228	168.39	168.48	0.21	0.12	8.73	5.0E-02	120.0	1.394	0.257	1.137	26.6	25.5	146.98	0.13	0.00	0.6	79.8	44.0	1.943	327.3	-9999.0	-9999.0
23.294	172.29	172.38	0.20	0.12	8.83	5.0E-02	120.0	1.398	0.259	1.139	27.1	26.0	150.16	0.12	0.00	0.4	80.4	44.0	1.933	333.2	-9999.0	-9999.0
23.359	176.00	176.09	0.18	0.10	8.81	5.0E-02	120.0	1.402	0.261	1.141	27.5	26.3	153.16	0.10	0.00	0.2	81.0	44.0	1.926	339.1	-9999.0	-9999.0
23.425	175.36	175.45	0.16	0.09	9.05	5.0E-02	120.0	1.406	0.263	1.142	-9999.0	-9999.0	152.34	0.09	0.00	-9999.0	80.9	44.0	1.927	338.2	-9999.0	-9999.0
23.491	172.80	172.89	0.19	0.11	8.81	5.0E-02	120.0	1.409	0.265	1.144	27.1	25.9	149.85	0.11	0.00	0.4	80.4	44.0	1.934	334.3	-9999.0	-9999.0
23.556	169.03	169.13	0.36	0.21	9.24	5.0E-02	120.0	1.413	0.267	1.146	27.3	26.1	146.32	0.22	0.00	1.5	79.8	44.0	1.944	328.8	-9999.0	-9999.0
23.622	162.64	162.74	0.42	0.26	8.63	5.0E-02	120.0	1.417	0.269	1.148	26.7	25.5	140.51	0.26	0.00	2.1	78.6	44.0	1.964	319.7	-9999.0	-9999.0
23.687	156.00	156.09	0.35	0.22	8.30	5.0E-02	120.0	1.421	0.271	1.150	25.6	24.4	134.49	0.23	0.00	2.0	77.4	44.0	1.989	310.5	-9999.0	-9999.0
23.753	142.33	142.41	0.40	0.28	7.68	5.0E-02	120.0	1.425	0.273	1.152	23.9	22.8	122.39	0.28	0.00	3.0	74.8	42.0	2.046	291.4	-9999.0	-9999.0
23.819	128.72	128.80	0.39	0.30	7.58	5.0E-02	120.0	1.429	0.275	1.154	22.0	21.0	110.40	0.31	0.00	3.9	71.9	42.0	2.110	271.8	-9999.0	-9999.0
23.884	116.52	116.61	0.48	0.41	7.89	5.0E-02	120.0	1.433	0.277	1.156	20.6	19.6	99.66	0.42	0.00	5.0	69.0	42.0	2.177	253.9	-9999.0	-9999.0
23.950	105.35	105.43	0.62	0.59	7.74	5.0E-02	120.0	1.437	0.279	1.158	19.5	18.5	89.84	0.60	0.00	7.9	66.1	42.0	2.253	237.5	-9999.0	-9999.0
24.015	100.29	100.38	0.70	0.70	8.06	5.0E-03	120.0	1.441	0.281	1.159	18.9	18.0	85.33	0.71	0.00	9.2	64.6	42.0	2.293	230.2	-9999.0	-9999.0
24.081	95.44	95.54	0.75	0.79	9.52	5.0E-03	120.0	1.445	0.284	1.161	18.3	17.4	81.03	0.80	0.00	10.4	63.2	42.0	2.338	223.3	-9999.0	-9999.0
24.147	90.14	90.25	0.90	1.00	9.95	5.0E-03	120.0	1.449	0.286	1.163	17.9	16.9	76.34	1.02	0.00	12.5	61.5	40.0	2.392	215.9	-9999.0	-9999.0
24.212	79.34	79.44	0.96	1.21	9.12	5.0E-03	120.0	1.453	0.288	1.165	16.3	15.5	66.93	1.23	0.00	15.2	57.9	40.0	2.530	201.0	-9999.0	-9999.0
24.278	65.86	65.93	0.96	1.46	6.13	5.0E-04	120.0	1.457	0.290	1.167	14.2	13.4	55.24	1.49	0.00	18.8	52.5	40.0	2.769	182.6	-9999.0	-9999.0
24.344	49.57	49.62	1.00	2.02	4.94	5.0E-05	120.0	1.461	0.292	1.169	11.6	11.0	41.20	2.08	0.00	25.7	44.3	38.0	3.199	158.7	3.211	10.0
24.409	39.09	39.13	1.03	2.64	2.82	5.0E-05	120.0	1.465	0.294	1.171	9.8	9.3	32.17	2.74	0.00	32.4	37.5	36.0	3.585	140.3	2.511	10.0
24.475	32.20	32.22	0.82	2.55	1.68	5.0E-05	120.0	1.469	0.296	1.173	8.5	7.2	26.22	2.67	-0.01	36.9	31.9	36.0	-9999.0	-9999.0	2.050	10.0
24.540	25.93	25.95	0.65	2.51	1.70	5.0E-05	120.0	1.472	0.298	1.175	7.1	6.0	20.84	2.66	-0.01	40.9	30.0	34.0	-9999.0	-9999.0	1.632	7.6
24.606	22.87	22.88	0.55	2.41	1.66	5.0E-05	120.0	1.476	0.300	1.176	6.4	5.3	18.20	2.58	-0.01	43.0	30.0	32.0	-9999.0	-9999.0	1.427	6.1
24.672	19.74	19.75	0.47	2.38	1.58	5.0E-06	120.0	1.480	0.302	1.178	5.7	4.7	15.51	2.58	-0.01	46.2	-9999.0	-9999.0	-9999.0	-9999.0	1.218	4.8
24.737	16.42	16.44	0.41	2.50	1.82	5.0E-06	120.0	1.484	0.304	1.180	5.0	4.0	12.67	2.75	-0.01	51.4	-9999.0	-9999.0	-9999.0	-9999.0	0.997	3.5
24.803	14.82	14.84	0.33	2.23	2.07	5.0E-06	120.0	1.488	0.306	1.182	4.5	3.6	11.29	2.48	-0.01	52.4	-9999.0	-9999.0	-9999.0	-9999.0	0.890	3.0
24.868	14.51	14.53	0.28	1.93	2.35	5.0E-06	120.0	1.492	0.308	1.184	4.4	3.5	11.01	2.15	-0.01	50.9	-9999.0	-9999.0	-9999.0	-9999.0	0.869	2.9
24.934	14.18	14.21	0.24	1.69	2.55	5.0E-06	120.0	1.496	0.310	1.186	4.2	3.3	10.72	1.89	-0.01	49.7	-9999.0	-9999.0	-9999.0	-9999.0	0.848	2.8
25.000	13.29	13.32	0.22	1.66	2.74	5.0E-06	120.0	1.500	0.312	1.188	4.0	3.1	9.95	1.87	-0.01	51.2	-9999.0	-9999.0	-9999.0	-9999.0	0.788	2.5
25.065	13.16	13.20	0.21	1.60	3.12	5.0E-06	120.0	1.504	0.314	1.190	4.0	3.1	9.83	1.80	-0.01	51.0	-9999.0	-9999.0	-9999.0	-9999.0	0.779	2.5
25.131	11.82	11.85	0.20	1.69	3.22	5.0E-06	120.0	1.508	0.316	1.192	3.7	2.8	8.68	1.94	-0.01	54.9	-9999.0	-9999.0	-9999.0	-9999.0	0.690	2.1
25.197	11.50	11.54	0.17	1.48	3.44	5.0E-06	120.0	1.512	0.318	1.193	3.6	2.7	8.40	1.70	-0.01	53.9	-9999.0	-9999.0	-9999.0	-9999.0	0.668	2.0
25.262	11.31	11.37	0.16	1.41	5.51	5.0E-06	120.0	1.516	0.320	1.195	3.5	2.7	8.24	1.63	0.01	53.8	-9999.0	-9999.0	-9999.0	-9999.0	0.657	2.0
25.328	10.15	10.21	0.15	1.47	5.57	5.0E-06	120.0	1.520	0.322	1.197	3.3	2.4	7.26	1.73	0.01	57.7	-9999.0	-9999.0	-9999.0	-9999.0	0.580	1.7
25.393	9.32	9.39	0.14	1.50	5.85	5.0E-06	120.0	1.524	0.325	1.199	3.1	2.3	6.56	1.78	0.01	60.8	-9999.0	-9999.0	-9999.0	-9999.0	0.524	1.5
25.459	9.07	9.14	0.13	1.43	6.34	5.0E-06	120.0	1.528	0.327	1.201	3.0	2.2	6.34	1.71	0.02	61.1	-9999.0	-9999.0	-9999.0	-9999.0	0.508	1.4
25.525	8.81	8.88	0.12	1.35	6.79	5.0E-06	120.0	1.532	0.329	1.203	3.0	2.1	6.11	1.64	0.02	61.4	-9999.0	-9999.0	-9999.0	-9999.0	0.490	1.4
25.590	9.13	9.21	0.11	1.20	6.83	5.0E-06	120.0	1.535	0.331	1.205	3.0	2.2	6.37	1.44	0.02	58.6	-9999.0	-9999.0	-9999.0	-9999.0	0.511	1.4
25.656	9.07	9.15	0.12	1.31	7.19	5.0E-06	120.0	1.539	0.333	1.207	3.0	2.2	6.31	1.58	0.02	60.1	-9999.0	-9999.0	-9999.0	-9999.0	0.507	1.4
25.721	9.90	9.99	0.12	1.20	7.74	5.0E-06	120.0	1.543	0.335	1.209	3.2	2.3	6.99	1.42	0.03	56.0	-9999.0	-9999.0	-9999.0	-9999.0	0.563	1.6
25.787	10.09	10.18	0.12	1.18	7.89	5.0E-06	120.0	1.547	0.337	1.210	3.2	2.3	7.13	1.39	0.03	55.2	-9999.0	-9999.0	-9999.0	-9999.0	0.576	1.6
25.853	9.77	9.86	0.14	1.42	7.98	5.0E-06	120.0	1.551	0.339	1.212	3.2	2.3	6.85	1.69	0.03	58.9	-9999.0	-9999.0	-9999.0	-9999.0	0.554	1.6
25.918	9.32	9.41	0.15	1.60	8.18	5.0E-06	120.0	1.555	0.341	1.214	3.2	2.3	6.47	1.91	0.03	62.2	-9999.0	-9999.0	-9999.0	-9999.0	0.524	1.5
25.984	9.45	9.54	0.14	1.47	8.30	5.0E-06	120.0	1.559	0.343	1.216	3.2	2.3	6.56	1.76	0.03	60.6	-9999.0	-9999.0	-9999.0	-9999.0	0.532	1.5
26.050	9.45	9.54	0.15	1.58	8.50	5.0E-06	120.0	1.563	0.345	1.218	3.2	2.3	6.55	1.88	0.03	61.6	-9999.0	-9999.0	-9999.0	-9999.0	0.532	1.5
26.115	9.83	9.93	0.14	1.41	8.75	5.0E-06	120.0	1.567	0.347	1.220	3.2	2.3	6.85	1.68	0.03	58.8	-9999.0	-9999.0	-9999.0	-9999.0	0.557	1.6
26.181	9.77	9.87	0.13	1.32	8.85	5.0E-06	120.0	1.571	0.349	1.222	3.2	2.3	6.79	1.57	0.03	58.1	-9999.0	-9999.0	-9999.0	-9999.0	0.553	1.5
26.246	9.71	9.81	0.13	1.33	9.14	5.0E-06	120.0	1.575	0.351	1.224	3.2	2.3	6.73	1.58	0.04	58.4	-9999.0	-9999.0	-9999.0	-9999.0	0.549	1.5
26.312	9.77	9.88	0.12	1.22	9.50	5.0E-06	120.0	1.579	0.353	1.226	3.2	2.3	6.77	1.45	0.04	57.1	-9999.0	-9999.0	-9999.0	-9999.0	0.553	1.5
26.378	9.32	9.43	0.14	1.49	9.75	5.0E-06	120.0	1.583	0.355	1.227	3.1	2.2	6.39	1.79	0.04	61.5	-9999.0	-9999.0	-9999.0	-9999.0	0.523	1.4
26.443	9.07	9.18	0.15	1.64	10.16	5.0E-06	120.0	1.587	0.357	1.229	3.1	2.2	6.18	1.98	0.05	63.9	-9999.0	-9999.0	-9999.0	-9999.0	0.506	1.4
26.509	9.13	9.25	0.14	1.52	10.61	5.0E-06	120.0	1.591	0.359	1.231	3.1	2.2	6.22	1.83	0.05	62.6	-9999.0	-9999.0	-9999.0	-9999.0	0.510	1.4
26.574	9.39	9.51	0.15	1.58	10.92	5.0E-06	120.0	1.595	0.361	1.233	3.2	2.2	6.42	1.90	0.05	62.3	-9999.0	-9999.0	-9999.0	-9999.0	0.528	1.4
26.640	10.09	10.21	0.13	1.28	11.02	5.0E-06	120.0	1.598	0.363	1.235	3.3	2.3	6.98	1.51	0.05	56.9	-9999.0	-9999.0	-9999.0	-9999.0	0.574	1.6
26.706	9.96	10.08	0.13	1.29	10.81	5.0E-06	120.0	1.602	0.365	1.237	3.2	2.3	6.85	1.54	0.05	57.6	-9999.0	-9999.0	-9999.0	-9999.0	0.565	1.6
26.771	9.39	9.51	0.13	1.37	10.55	5.0E-06	120.0	1.606	0.368	1.239	3.1	2.2	6.38	1.65	0.05	60.4	-9999.0	-9999.0	-9999.0	-9999.0	0.527	1.4

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
26.837	9.13	9.25	0.13	1.41	10.67	5.0E-06	120.0	1.610	0.370	1.241	3.1	2.1	6.16	1.71	0.05	61.8	-9999.0	-9999.0	-9999.0	-9999.0	0.509	1.4
26.903	8.43	8.55	0.13	1.52	10.92	5.0E-06	120.0	1.614	0.372	1.243	3.0	2.0	5.58	1.88	0.06	65.9	-9999.0	-9999.0	-9999.0	-9999.0	0.462	1.2
26.968	9.32	9.45	0.13	1.38	11.57	5.0E-06	120.0	1.618	0.374	1.244	3.1	2.2	6.29	1.66	0.06	60.9	-9999.0	-9999.0	-9999.0	-9999.0	0.522	1.4
27.034	9.64	9.77	0.13	1.33	12.08	5.0E-06	120.0	1.622	0.376	1.246	3.2	2.2	6.54	1.60	0.06	59.3	-9999.0	-9999.0	-9999.0	-9999.0	0.543	1.5
27.099	9.32	9.46	0.13	1.38	12.33	5.0E-06	120.0	1.626	0.378	1.248	3.1	2.2	6.27	1.66	0.07	61.0	-9999.0	-9999.0	-9999.0	-9999.0	0.522	1.4
27.165	9.96	10.10	0.13	1.29	12.84	5.0E-06	120.0	1.630	0.380	1.250	3.3	2.3	6.78	1.54	0.06	57.9	-9999.0	-9999.0	-9999.0	-9999.0	0.565	1.5
27.231	10.15	10.30	0.14	1.36	13.37	5.0E-06	120.0	1.634	0.382	1.252	3.3	2.3	6.92	1.62	0.07	58.0	-9999.0	-9999.0	-9999.0	-9999.0	0.578	1.6
27.296	10.93	11.08	0.15	1.36	14.28	5.0E-06	120.0	1.638	0.384	1.254	3.5	2.5	7.53	1.59	0.07	55.7	-9999.0	-9999.0	-9999.0	-9999.0	0.630	1.7
27.362	11.18	11.33	0.16	1.42	14.49	5.0E-06	120.0	1.642	0.386	1.256	3.6	2.5	7.72	1.65	0.07	55.6	-9999.0	-9999.0	-9999.0	-9999.0	0.646	1.8
27.427	11.56	11.71	0.16	1.37	14.52	5.0E-06	120.0	1.646	0.388	1.258	3.6	2.6	8.01	1.59	0.07	54.2	-9999.0	-9999.0	-9999.0	-9999.0	0.671	1.9
27.493	11.63	11.77	0.16	1.36	13.43	5.0E-06	120.0	1.650	0.390	1.260	3.7	2.6	8.04	1.58	0.06	54.0	-9999.0	-9999.0	-9999.0	-9999.0	0.675	1.9
27.559	11.25	11.39	0.15	1.32	13.14	5.0E-06	120.0	1.654	0.392	1.261	3.6	2.5	7.72	1.54	0.06	54.6	-9999.0	-9999.0	-9999.0	-9999.0	0.649	1.8
27.624	10.86	10.99	0.13	1.19	12.76	5.0E-06	120.0	1.657	0.394	1.263	3.4	2.4	7.39	1.40	0.06	54.4	-9999.0	-9999.0	-9999.0	-9999.0	0.622	1.7
27.690	9.39	9.52	0.11	1.16	11.69	5.0E-06	120.0	1.661	0.396	1.265	3.1	2.1	6.21	1.40	0.06	58.9	-9999.0	-9999.0	-9999.0	-9999.0	0.524	1.4
27.756	8.62	8.75	0.10	1.15	11.53	5.0E-06	120.0	1.665	0.398	1.267	2.9	1.9	5.59	1.42	0.06	61.8	-9999.0	-9999.0	-9999.0	-9999.0	0.472	1.2
27.821	8.43	8.57	0.09	1.05	12.49	5.0E-06	120.0	1.669	0.400	1.269	2.9	1.9	5.43	1.31	0.07	61.5	-9999.0	-9999.0	-9999.0	-9999.0	0.460	1.2
27.887	7.92	8.07	0.09	1.12	13.57	5.0E-06	120.0	1.673	0.402	1.271	2.8	1.8	5.03	1.41	0.09	64.7	-9999.0	-9999.0	-9999.0	-9999.0	0.426	1.1
27.952	7.73	7.89	0.09	1.14	14.70	5.0E-06	120.0	1.677	0.404	1.273	2.7	1.8	4.88	1.45	0.11	65.9	-9999.0	-9999.0	-9999.0	-9999.0	0.414	1.1
28.018	7.92	8.10	0.09	1.11	16.53	5.0E-06	120.0	1.681	0.406	1.275	2.8	1.8	5.03	1.41	0.12	64.6	-9999.0	-9999.0	-9999.0	-9999.0	0.428	1.1
28.084	7.86	8.05	0.10	1.24	17.84	5.0E-06	120.0	1.685	0.409	1.277	2.8	1.8	4.99	1.57	0.14	66.4	-9999.0	-9999.0	-9999.0	-9999.0	0.424	1.1
28.149	8.69	8.90	0.10	1.13	19.64	5.0E-06	120.0	1.689	0.411	1.278	3.0	2.0	5.64	1.39	0.14	61.3	-9999.0	-9999.0	-9999.0	-9999.0	0.481	1.3
28.215	8.56	8.79	0.09	1.03	20.80	5.0E-06	120.0	1.693	0.413	1.280	2.9	1.9	5.54	1.27	0.15	60.6	-9999.0	-9999.0	-9999.0	-9999.0	0.473	1.2
28.280	8.88	9.10	0.07	0.77	20.62	5.0E-06	120.0	1.697	0.415	1.282	2.9	1.9	5.78	0.95	0.14	55.9	-9999.0	-9999.0	-9999.0	-9999.0	0.494	1.3
28.346	8.81	9.04	0.11	1.22	20.72	5.0E-06	120.0	1.701	0.417	1.284	3.0	2.0	5.71	1.50	0.15	62.0	-9999.0	-9999.0	-9999.0	-9999.0	0.489	1.3
28.412	8.05	8.28	0.09	1.09	21.75	5.0E-06	120.0	1.705	0.419	1.286	2.8	1.8	5.12	1.37	0.17	63.8	-9999.0	-9999.0	-9999.0	-9999.0	0.439	1.1
28.477	7.92	8.17	0.09	1.10	23.03	5.0E-06	120.0	1.709	0.421	1.288	2.8	1.8	5.02	1.40	0.19	64.6	-9999.0	-9999.0	-9999.0	-9999.0	0.431	1.1
28.543	7.67	7.93	0.12	1.52	24.65	5.0E-06	120.0	1.713	0.423	1.290	2.9	1.8	4.82	1.93	0.22	70.5	-9999.0	-9999.0	-9999.0	-9999.0	0.415	1.1
28.609	7.86	8.12	0.15	1.85	24.26	5.0E-06	120.0	1.717	0.425	1.292	3.0	1.9	4.96	2.35	0.21	72.9	-9999.0	-9999.0	-9999.0	-9999.0	0.427	1.1
28.674	7.99	8.32	0.19	2.29	30.91	5.0E-07	120.0	1.720	0.427	1.294	3.2	2.0	5.10	2.88	0.27	75.6	-9999.0	-9999.0	-9999.0	-9999.0	0.440	1.1
28.740	8.69	9.05	0.24	2.66	33.32	5.0E-07	120.0	1.724	0.429	1.295	3.4	2.2	5.66	3.28	0.27	75.0	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.3
28.805	9.20	9.55	0.28	2.94	31.88	5.0E-07	120.0	1.728	0.431	1.297	3.6	2.4	6.03	3.59	0.24	74.8	-9999.0	-9999.0	-9999.0	-9999.0	0.521	1.3
28.871	9.26	9.60	0.32	3.34	31.56	5.0E-07	120.0	1.732	0.433	1.299	3.7	2.4	6.06	4.08	0.23	77.1	-9999.0	-9999.0	-9999.0	-9999.0	0.525	1.4
28.937	9.58	9.91	0.37	3.74	30.46	5.0E-08	120.0	1.736	0.435	1.301	3.8	2.5	6.28	4.54	0.22	78.2	-9999.0	-9999.0	-9999.0	-9999.0	0.545	1.4
29.002	9.71	10.04	0.42	4.19	30.21	5.0E-08	120.0	1.740	0.437	1.303	4.0	2.6	6.37	5.07	0.21	80.1	-9999.0	-9999.0	-9999.0	-9999.0	0.553	1.4
29.068	10.48	10.80	0.47	4.36	29.90	5.0E-08	120.0	1.744	0.439	1.305	4.2	2.8	6.94	5.20	0.19	78.2	-9999.0	-9999.0	-9999.0	-9999.0	0.604	1.6
29.134	10.42	10.75	0.52	4.85	30.70	5.0E-08	120.0	1.748	0.441	1.307	4.3	2.9	6.89	5.79	0.20	80.7	-9999.0	-9999.0	-9999.0	-9999.0	0.600	1.6
29.199	11.18	11.47	0.56	4.90	26.80	5.0E-08	120.0	1.752	0.443	1.309	4.5	3.0	7.42	5.78	0.15	78.5	-9999.0	-9999.0	-9999.0	-9999.0	0.648	1.7
29.265	11.63	11.91	0.61	5.14	25.68	5.0E-08	120.0	1.756	0.445	1.311	4.6	3.1	7.74	6.02	0.14	78.2	-9999.0	-9999.0	-9999.0	-9999.0	0.677	1.8
29.330	11.82	12.08	0.64	5.31	24.43	5.0E-08	120.0	1.760	0.447	1.312	4.7	3.2	7.87	6.21	0.13	78.4	-9999.0	-9999.0	-9999.0	-9999.0	0.688	1.8
29.396	12.58	12.82	0.69	5.39	22.44	5.0E-08	120.0	1.764	0.449	1.314	4.9	3.4	8.41	6.25	0.11	76.7	-9999.0	-9999.0	-9999.0	-9999.0	0.737	2.0
29.462	12.33	12.57	0.71	5.66	22.24	5.0E-08	120.0	1.768	0.452	1.316	4.9	3.3	8.21	6.59	0.11	78.5	-9999.0	-9999.0	-9999.0	-9999.0	0.720	1.9
29.527	12.01	12.23	0.73	5.98	20.60	5.0E-08	120.0	1.772	0.454	1.318	4.9	3.3	7.94	7.00	0.10	80.8	-9999.0	-9999.0	-9999.0	-9999.0	0.697	1.9
29.593	12.27	12.48	0.72	5.78	19.42	5.0E-08	120.0	1.776	0.456	1.320	4.9	3.3	8.11	6.74	0.09	79.4	-9999.0	-9999.0	-9999.0	-9999.0	0.714	1.9
29.658	12.33	12.52	0.71	5.68	17.78	5.0E-08	120.0	1.780	0.458	1.322	4.9	3.3	8.13	6.63	0.08	78.9	-9999.0	-9999.0	-9999.0	-9999.0	0.716	1.9
29.724	12.27	12.46	0.71	5.71	17.46	5.0E-08	120.0	1.783	0.460	1.324	4.9	3.3	8.06	6.67	0.07	79.3	-9999.0	-9999.0	-9999.0	-9999.0	0.712	1.9
29.790	12.71	12.92	0.70	5.43	19.79	5.0E-08	120.0	1.787	0.462	1.326	5.0	3.4	8.40	6.30	0.09	76.9	-9999.0	-9999.0	-9999.0	-9999.0	0.742	2.0
29.855	13.09	13.30	0.68	5.13	18.84	5.0E-08	120.0	1.791	0.464	1.328	5.0	3.4	8.67	5.93	0.08	74.7	-9999.0	-9999.0	-9999.0	-9999.0	0.767	2.1
29.921	13.03	13.21	0.67	5.08	16.79	5.0E-08	120.0	1.795	0.466	1.329	5.0	3.4	8.59	5.88	0.07	74.8	-9999.0	-9999.0	-9999.0	-9999.0	0.761	2.1
29.987	12.97	13.14	0.66	5.03	15.92	5.0E-08	120.0	1.799	0.468	1.331	4.9	3.4	8.52	5.83	0.06	74.9	-9999.0	-9999.0	-9999.0	-9999.0	0.756	2.0
30.052	12.71	12.88	0.67	5.21	16.10	5.0E-08	120.0	1.803	0.470	1.333	4.9	3.3	8.31	6.06	0.06	76.4	-9999.0	-9999.0	-9999.0	-9999.0	0.739	2.0
30.118	12.97	13.14	0.68	5.19	15.88	5.0E-08	120.0	1.807	0.472	1.335	5.0	3.4	8.49	6.01	0.06	75.6	-9999.0	-9999.0	-9999.0	-9999.0	0.756	2.0
30.183	13.41	13.57	0.68	5.02	14.99	5.0E-08	120.0	1.811	0.474	1.337	5.1	3.4	8.80	5.79	0.05	73.9	-9999.0	-9999.0	-9999.0	-9999.0	0.784	2.1
30.249	13.35	13.52	0.69	5.12	15.09	5.0E-08	120.0	1.815	0.476	1.339	5.1	3.4	8.74	5.91	0.05	74.5	-9999.0	-9999.0	-9999.0	-9999.0	0.780	2.1
30.315	13.35	13.51	0.71	5.27	14.18	5.0E-08	120.0	1.819	0.478	1.341	5.1	3.4	8.72	6.09	0.05	75.2	-9999.0	-9999.0	-9999.0	-9999.0	0.779	2.1
30.380	13.09	13.23	0.72	5.46	12.37	5.0E-08	120.0	1.823	0.480	1.343	5.1	3.4	8.49	6.33	0.04	76.7	-9999.0	-9999.0	-9999.0	-9999.0	0.760	2.0
30.446	13.22	13.35	0.73	5.48	11.55	5.0E-08	120.0	1.827	0.482	1.345	5.1	3.4	8.57	6.35	0.03	76.5	-9999.0	-9999.0	-9999.0	-9999.0	0.768	2.1
30.511	13.22	13.34	0.73	5.49	11.02	5.0E-08	120.0	1.831	0.484	1.346	5.1	3.4	8.55	6.36	0.03	76.6	-9999.0	-9999.0	-9999.0	-9999.0	0.767	2.1
30.577	13.29	13.41	0.73	5.46	11.20	5.0E-08	120.0	1.835	0.486	1.348	5.1	3.4	8.59	6.32	0.03	76.4	-9999.0	-9999.0	-9999.0	-9999.0	0.772	2.1
30.643	12.90	13.03	0.73	5.61	12.29	5.0E-08	120.0	1.839	0.488	1.350	5.1	3.4	8.29	6.54	0.04	78.1	-9999.0	-9999.0	-9999.0	-9999.0	0.746	2.0
30.708	12.78	12.93	0.74	5.74	13.86	5.0E-08	120.0	1.843	0.490	1.352	5.1	3.3	8.20	6.69	0.05	78.9	-9999.0	-9999.0	-9999.0	-9999.0	0.739	1.9
30.774	13.16	13.32	0.74	5.57	14.86	5.0E-08	120.0	1.846	0.493	1.354	5.1	3.4	8.48	6.46	0.05	77.2	-9999.0	-9999.0	-9999.0	-9999.0	0.765	2.0
30.840	13.48	13.63	0.74	5.44	13.65	5.0E-08	120.0	1.850	0.495	1.356	5.2	3.5	8.69	6.30	0.04	76.0	-9999.0	-9999.0	-9999.0	-9999.0	0.785	2.1
30.905	13.79	13.93	0.74	5.33	12.61	5.0E-08	120.0	1.854	0.497	1.358	5.2	3.5	8.89	6.14	0.03	74.8	-9999.0	-9999.0	-9999.0	-9999.0	0.805	2.2
30.971	13.60	13.73	0.75	5.48	11.42	5.0E-08	120.0	1.858	0.499	1.360	5.2	3.5	8.73	6.33	0.03	76.0	-9999.0	-9999.0	-9999.0	-9999.0	0.791	2.1
31.036	13.54	13.66	0.77	5.65	10.61	5.0E-08	120.0	1.862	0.501	1.362	5.2	3.5	8.66	6.54	0.02	76.9	-9999.0	-9999.0	-9999.0	-9999.0	0.786	2.1
31.102	13.54	13.65	0.78	5.73	10.14	5.0E-08	120.0	1.866	0.503	1.363	5.3	3.5	8.64	6.63	0.02	77.3	-9999.0	-9999.0	-9999.0	-9999.0	0.786	2.1
31.168	13.73	13.85	0.78	5.65	10.53	5.0E-08	120.0	1.870	0.505	1.365	5.3	3.5	8.77	6.53	0.02	76.5	-9999.0	-9999.0	-9999.0	-9999.0	0.798	2.1
31.233	13.54	13.66	0.79	5.80	11.02	5.0E-08	120.0	1.874	0.507	1.367	5.3	3.5	8.62	6.72	0.02	77.6	-9999.0	-9999.0	-9999.0	-9999.0	0.786	2.1

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
31.299	13.99	14.10	0.78	5.54	10.26	5.0E-08	120.0	1.878	0.509	1.369	5.3	3.5	8.93	6.39	0.02	75.6	-9999.0	-9999.0	-9999.0	-9999.0	0.815	2.2
31.364	13.54	13.64	0.77	5.66	9.14	5.0E-08	120.0	1.882	0.511	1.371	5.3	3.4	8.58	6.56	0.01	77.2	-9999.0	-9999.0	-9999.0	-9999.0	0.784	2.1
31.430	13.48	13.57	0.75	5.54	8.26	5.0E-08	120.0	1.886	0.513	1.373	5.2	3.4	8.51	6.43	0.01	77.0	-9999.0	-9999.0	-9999.0	-9999.0	0.779	2.0
31.496	13.92	14.01	0.73	5.22	8.04	5.0E-08	120.0	1.890	0.515	1.375	5.3	3.5	8.82	6.04	0.01	74.7	-9999.0	-9999.0	-9999.0	-9999.0	0.808	2.1
31.561	14.44	14.53	0.75	5.18	8.53	5.0E-08	120.0	1.894	0.517	1.377	5.4	3.6	9.18	5.95	0.01	73.3	-9999.0	-9999.0	-9999.0	-9999.0	0.842	2.3
31.627	14.11	14.22	0.75	5.29	9.71	5.0E-08	120.0	1.898	0.519	1.379	5.3	3.5	8.94	6.10	0.01	74.5	-9999.0	-9999.0	-9999.0	-9999.0	0.821	2.2
31.693	13.86	13.98	0.75	5.38	11.06	5.0E-08	120.0	1.902	0.521	1.380	5.3	3.5	8.75	6.22	0.02	75.5	-9999.0	-9999.0	-9999.0	-9999.0	0.805	2.1
31.758	14.18	14.30	0.76	5.33	10.81	5.0E-08	120.0	1.906	0.523	1.382	5.4	3.5	8.97	6.15	0.02	74.6	-9999.0	-9999.0	-9999.0	-9999.0	0.826	2.2
31.824	14.18	14.29	0.77	5.40	10.04	5.0E-08	120.0	1.909	0.525	1.384	5.4	3.5	8.95	6.23	0.02	75.0	-9999.0	-9999.0	-9999.0	-9999.0	0.826	2.2
31.889	14.11	14.19	0.79	5.58	6.72	5.0E-08	120.0	1.913	0.527	1.386	5.4	3.5	8.85	6.45	0.00	76.0	-9999.0	-9999.0	-9999.0	-9999.0	0.818	2.2
31.955	13.48	13.57	0.81	5.98	7.89	5.0E-08	120.0	1.917	0.529	1.388	5.3	3.4	8.39	6.97	0.00	79.2	-9999.0	-9999.0	-9999.0	-9999.0	0.777	2.0
32.021	13.99	14.08	0.82	5.84	8.40	5.0E-08	120.0	1.921	0.531	1.390	5.4	3.5	8.75	6.76	0.01	77.3	-9999.0	-9999.0	-9999.0	-9999.0	0.811	2.1
32.086	13.99	14.09	0.81	5.76	9.22	5.0E-08	120.0	1.925	0.533	1.392	5.4	3.5	8.74	6.67	0.01	77.1	-9999.0	-9999.0	-9999.0	-9999.0	0.811	2.1
32.152	13.92	14.03	0.81	5.79	10.29	5.0E-08	120.0	1.929	0.536	1.394	5.4	3.5	8.69	6.71	0.02	77.4	-9999.0	-9999.0	-9999.0	-9999.0	0.807	2.1
32.217	14.11	14.23	0.80	5.64	10.31	5.0E-08	120.0	1.933	0.538	1.396	5.4	3.5	8.81	6.52	0.02	76.4	-9999.0	-9999.0	-9999.0	-9999.0	0.820	2.1
32.283	13.67	13.78	0.76	5.53	9.60	5.0E-08	120.0	1.937	0.540	1.397	5.3	3.4	8.47	6.43	0.01	77.1	-9999.0	-9999.0	-9999.0	-9999.0	0.789	2.0
32.349	13.86	13.96	0.72	5.17	8.85	5.0E-08	120.0	1.941	0.542	1.399	5.3	3.4	8.59	6.01	0.01	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.801	2.1
32.414	13.16	13.25	0.70	5.30	8.26	5.0E-08	120.0	1.945	0.544	1.401	5.1	3.3	8.07	6.21	0.00	77.7	-9999.0	-9999.0	-9999.0	-9999.0	0.754	1.9
32.480	13.09	13.19	0.69	5.24	9.14	5.0E-08	120.0	1.949	0.546	1.403	5.1	3.2	8.01	6.15	0.01	77.7	-9999.0	-9999.0	-9999.0	-9999.0	0.749	1.9
32.546	13.41	13.53	0.68	5.04	10.69	5.0E-08	120.0	1.953	0.548	1.405	5.1	3.3	8.24	5.89	0.02	76.0	-9999.0	-9999.0	-9999.0	-9999.0	0.772	2.0
32.611	13.22	13.34	0.66	4.96	10.79	5.0E-08	120.0	1.957	0.550	1.407	5.1	3.2	8.09	5.81	0.02	76.2	-9999.0	-9999.0	-9999.0	-9999.0	0.759	1.9
32.677	13.29	13.41	0.65	4.86	10.51	5.0E-08	120.0	1.961	0.552	1.409	5.1	3.2	8.12	5.69	0.02	75.7	-9999.0	-9999.0	-9999.0	-9999.0	0.763	1.9
32.742	12.90	13.00	0.66	5.09	9.56	5.0E-08	120.0	1.965	0.554	1.411	5.0	3.2	7.83	5.99	0.01	77.8	-9999.0	-9999.0	-9999.0	-9999.0	0.736	1.8
32.808	13.67	13.77	0.65	4.73	9.40	5.0E-08	120.0	1.969	0.556	1.413	5.2	3.3	8.36	5.52	0.01	74.2	-9999.0	-9999.0	-9999.0	-9999.0	0.787	2.0
32.874	13.22	13.32	0.65	4.89	8.65	5.0E-08	120.0	1.972	0.558	1.414	5.1	3.2	8.02	5.74	0.01	76.2	-9999.0	-9999.0	-9999.0	-9999.0	0.756	1.9
32.939	13.54	13.63	0.65	4.78	8.00	5.0E-08	120.0	1.976	0.560	1.416	5.1	3.2	8.23	5.59	0.00	74.9	-9999.0	-9999.0	-9999.0	-9999.0	0.777	2.0
33.005	12.97	13.06	0.65	4.99	8.32	5.0E-08	120.0	1.980	0.562	1.418	5.0	3.1	7.81	5.88	0.00	77.4	-9999.0	-9999.0	-9999.0	-9999.0	0.739	1.8
33.070	12.97	13.07	0.65	4.99	9.09	5.0E-08	120.0	1.984	0.564	1.420	5.0	3.1	7.81	5.88	0.01	77.4	-9999.0	-9999.0	-9999.0	-9999.0	0.739	1.8
33.136	12.90	12.99	0.65	5.01	8.48	5.0E-08	120.0	1.988	0.566	1.422	5.0	3.1	7.74	5.92	0.00	77.8	-9999.0	-9999.0	-9999.0	-9999.0	0.734	1.8
33.202	12.58	12.67	0.62	4.91	8.08	5.0E-08	120.0	1.992	0.568	1.424	4.9	3.0	7.50	5.82	0.00	78.4	-9999.0	-9999.0	-9999.0	-9999.0	0.712	1.7
33.267	12.07	12.16	0.60	4.95	8.32	5.0E-08	120.0	1.996	0.570	1.426	4.8	2.9	7.13	5.92	0.00	80.1	-9999.0	-9999.0	-9999.0	-9999.0	0.678	1.6
33.333	12.65	12.74	0.61	4.80	8.16	5.0E-08	120.0	2.000	0.572	1.428	4.9	3.0	7.52	5.69	0.00	77.8	-9999.0	-9999.0	-9999.0	-9999.0	0.716	1.7
33.399	12.27	12.35	0.60	4.87	7.70	5.0E-08	120.0	2.004	0.574	1.430	4.8	3.0	7.24	5.81	0.00	79.3	-9999.0	-9999.0	-9999.0	-9999.0	0.690	1.7
33.464	12.27	12.36	0.59	4.79	8.28	5.0E-08	120.0	2.008	0.577	1.431	4.8	3.0	7.23	5.71	0.00	79.0	-9999.0	-9999.0	-9999.0	-9999.0	0.690	1.7
33.530	12.01	12.10	0.58	4.81	8.32	5.0E-08	120.0	2.012	0.579	1.433	4.8	2.9	7.04	5.76	0.00	79.9	-9999.0	-9999.0	-9999.0	-9999.0	0.672	1.6
33.595	11.63	11.72	0.56	4.79	8.22	5.0E-08	120.0	2.016	0.581	1.435	4.7	2.8	6.76	5.79	0.00	81.2	-9999.0	-9999.0	-9999.0	-9999.0	0.647	1.5
33.661	11.37	11.45	0.55	4.81	7.85	5.0E-08	120.0	2.020	0.583	1.437	4.6	2.8	6.56	5.84	0.00	82.3	-9999.0	-9999.0	-9999.0	-9999.0	0.629	1.5
33.727	10.80	10.88	0.55	5.07	7.50	5.0E-08	120.0	2.024	0.585	1.439	4.5	2.7	6.15	6.23	-0.01	85.6	-9999.0	-9999.0	-9999.0	-9999.0	0.590	1.4
33.792	11.05	11.13	0.53	4.77	7.54	5.0E-08	120.0	2.028	0.587	1.441	4.5	2.7	6.32	5.84	0.00	83.4	-9999.0	-9999.0	-9999.0	-9999.0	0.607	1.4
33.858	10.74	10.82	0.52	4.82	7.94	5.0E-08	120.0	2.032	0.589	1.443	4.5	2.6	6.09	5.93	0.00	84.8	-9999.0	-9999.0	-9999.0	-9999.0	0.586	1.4
33.923	10.80	10.88	0.51	4.70	8.06	5.0E-08	120.0	2.035	0.591	1.445	4.5	2.6	6.12	5.78	0.00	84.1	-9999.0	-9999.0	-9999.0	-9999.0	0.590	1.4
33.989	10.35	10.43	0.49	4.71	8.04	5.0E-08	120.0	2.039	0.593	1.446	4.4	2.5	5.80	5.85	0.00	86.0	-9999.0	-9999.0	-9999.0	-9999.0	0.560	1.3
34.055	10.86	10.95	0.48	4.40	8.26	5.0E-08	120.0	2.043	0.595	1.448	4.4	2.6	6.15	5.40	0.00	82.5	-9999.0	-9999.0	-9999.0	-9999.0	0.593	1.4
34.120	10.03	10.12	0.48	4.75	8.04	5.0E-08	120.0	2.047	0.597	1.450	4.3	2.5	5.57	5.96	0.00	87.6	-9999.0	-9999.0	-9999.0	-9999.0	0.538	1.2
34.186	10.22	10.32	0.48	4.66	8.46	5.0E-08	120.0	2.051	0.599	1.452	4.3	2.5	5.69	5.82	0.00	86.4	-9999.0	-9999.0	-9999.0	-9999.0	0.551	1.3
34.252	10.03	10.13	0.47	4.65	8.57	5.0E-08	120.0	2.055	0.601	1.454	4.3	2.4	5.55	5.84	0.00	87.3	-9999.0	-9999.0	-9999.0	-9999.0	0.538	1.2
34.317	10.03	10.13	0.46	4.55	8.57	5.0E-08	120.0	2.059	0.603	1.456	4.3	2.4	5.54	5.72	0.00	86.9	-9999.0	-9999.0	-9999.0	-9999.0	0.538	1.2
34.383	10.15	10.25	0.45	4.40	9.09	5.0E-08	120.0	2.063	0.605	1.458	4.3	2.4	5.62	5.51	0.01	85.6	-9999.0	-9999.0	-9999.0	-9999.0	0.546	1.2
34.448	9.90	10.00	0.45	4.51	9.20	5.0E-08	120.0	2.067	0.607	1.460	4.2	2.4	5.44	5.68	0.01	87.3	-9999.0	-9999.0	-9999.0	-9999.0	0.529	1.2
34.514	9.64	9.75	0.46	4.73	9.44	5.0E-08	120.0	2.071	0.609	1.462	4.2	2.4	5.25	6.01	0.01	89.7	-9999.0	-9999.0	-9999.0	-9999.0	0.512	1.2
34.580	10.28	10.39	0.46	4.44	9.56	5.0E-08	120.0	2.075	0.611	1.463	4.3	2.5	5.68	5.55	0.01	85.4	-9999.0	-9999.0	-9999.0	-9999.0	0.554	1.3
34.645	9.90	10.01	0.47	4.71	10.01	5.0E-08	120.0	2.079	0.613	1.465	4.3	2.4	5.41	5.94	0.01	88.4	-9999.0	-9999.0	-9999.0	-9999.0	0.529	1.2
34.711	10.09	10.20	0.47	4.62	10.04	5.0E-08	120.0	2.083	0.615	1.467	4.3	2.4	5.53	5.80	0.01	87.2	-9999.0	-9999.0	-9999.0	-9999.0	0.541	1.2
34.776	9.71	9.82	0.46	4.70	9.81	5.0E-08	120.0	2.087	0.617	1.469	4.2	2.4	5.26	5.96	0.01	89.4	-9999.0	-9999.0	-9999.0	-9999.0	0.516	1.2
34.842	9.39	9.49	0.46	4.86	9.46	5.0E-08	120.0	2.091	0.620	1.471	4.2	2.3	5.03	6.23	0.01	91.8	-9999.0	-9999.0	-9999.0	-9999.0	0.494	1.1
34.908	9.32	9.42	0.44	4.68	9.18	5.0E-08	120.0	2.095	0.622	1.473	4.1	2.3	4.97	6.02	0.01	91.4	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.1
34.973	8.88	8.99	0.43	4.80	9.64	5.0E-08	120.0	2.098	0.624	1.475	4.1	2.2	4.67	6.26	0.01	94.3	-9999.0	-9999.0	-9999.0	-9999.0	0.459	1.0
35.039	9.01	9.12	0.41	4.51	9.99	5.0E-08	120.0	2.102	0.626	1.477	4.0	2.2	4.75	5.86	0.01	92.2	-9999.0	-9999.0	-9999.0	-9999.0	0.468	1.1
35.105	7.92	8.03	0.38	4.74	10.06	5.0E-08	120.0	2.106	0.628	1.479	3.8	2.0	4.00	6.43	0.02	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.395	0.9
35.170	7.99	8.10	0.35	4.33	10.49	5.0E-08	120.0	2.110	0.630	1.480	3.8	2.0	4.05	5.85	0.02	97.5	-9999.0	-9999.0	-9999.0	-9999.0	0.399	0.9
35.236	8.05	8.19	0.30	3.67	13.10	5.0E-08	120.0	2.114	0.632	1.482	3.7	1.9	4.10	4.95	0.05	93.3	-9999.0	-9999.0	-9999.0	-9999.0	0.405	0.9
35.301	7.86	8.01	0.27	3.38	14.34	5.0E-08	120.0	2.118	0.634	1.484	3.6	1.8	3.97	4.59	0.07	92.7	-9999.0	-9999.0	-9999.0	-9999.0	0.393	0.9
35.367	7.48	7.64	0.24	3.15	14.70	5.0E-08	120.0	2.122	0.636	1.486	3.4	1.7	3.71	4.36	0.08	93.8	-9999.0	-9999.0	-9999.0	-9999.0	0.368	0.8
35.433	7.28	7.45	0.23	3.10	15.80	5.0E-07	120.0	2.126	0.638	1.488	3.4	1.7	3.58	4.33	0.09	94.9	-9999.0	-9999.0	-9999.0	-9999.0	0.355	0.8
35.498	7.35	7.53	0.22	2.93	16.93	5.0E-07	120.0	2.130	0.640	1.490	3.4	1.7	3.62	4.08	0.11	93.2	-9999.0	-9999.0	-9999.0	-9999.0	0.360	0.8
35.564	7.09	7.28	0.21	2.89	18.01	5.0E-07	120.0	2.134	0.642	1.492	3.3	1.6	3.45	4.09	0.13	94.9	-9999.0	-9999.0	-9999.0	-9999.0	0.343	0.8
35.629	8.18	8.38	0.21	2.51	18.90	5.0E-07	120.0	2.138	0.644	1.494	3.5	1.8	4.18	3.37	0.11	84.6	-9999.0	-9999.0	-9999.0	-9999.0	0.416	0.9
35.695	8.24	8.45	0.20	2.37	19.58	5.0E-07	120.0	2.142	0.646	1.496	3.4	1.8	4.22	3.18	0.12	83.2	-9999.0	-9999.0	-9999.0	-9999.0	0.421	0.9

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
35.761	10.54	10.75	0.22	2.05	19.64	5.0E-06	120.0	2.146	0.648	1.497	3.9	2.2	5.74	2.56	0.09	70.1	-9999.0	-9999.0	-9999.0	-9999.0	0.573	1.3
35.826	11.88	12.09	0.22	1.82	19.93	5.0E-06	120.0	2.150	0.650	1.499	4.1	2.4	6.63	2.22	0.08	63.8	-9999.0	-9999.0	-9999.0	-9999.0	0.663	1.5
35.892	12.78	12.98	0.22	1.70	18.27	5.0E-06	120.0	2.154	0.652	1.501	4.3	2.5	7.21	2.04	0.06	60.3	-9999.0	-9999.0	-9999.0	-9999.0	0.722	1.7
35.958	12.58	12.76	0.20	1.57	16.79	5.0E-06	120.0	2.158	0.654	1.503	4.2	2.4	7.05	1.89	0.05	59.7	-9999.0	-9999.0	-9999.0	-9999.0	0.707	1.6
36.023	12.46	12.64	0.21	1.67	16.77	5.0E-06	120.0	2.161	0.656	1.505	4.2	2.4	6.96	2.01	0.05	61.0	-9999.0	-9999.0	-9999.0	-9999.0	0.699	1.6
36.089	10.61	10.79	0.21	1.95	17.27	5.0E-06	120.0	2.165	0.658	1.507	3.9	2.1	5.72	2.44	0.07	69.4	-9999.0	-9999.0	-9999.0	-9999.0	0.575	1.3
36.154	9.83	10.02	0.20	2.00	17.34	5.0E-06	120.0	2.169	0.661	1.509	3.7	2.0	5.20	2.55	0.07	72.9	-9999.0	-9999.0	-9999.0	-9999.0	0.523	1.2
36.220	8.69	8.95	0.20	2.24	23.82	5.0E-06	120.0	2.173	0.663	1.511	3.5	1.8	4.48	2.96	0.16	80.0	-9999.0	-9999.0	-9999.0	-9999.0	0.452	1.0
36.286	8.81	9.13	0.21	2.31	29.11	5.0E-06	120.0	2.177	0.665	1.513	3.6	1.9	4.59	3.03	0.21	79.7	-9999.0	-9999.0	-9999.0	-9999.0	0.463	1.0
36.351	9.32	9.70	0.19	1.96	34.50	5.0E-06	120.0	2.181	0.667	1.514	3.6	1.9	4.96	2.53	0.24	74.1	-9999.0	-9999.0	-9999.0	-9999.0	0.501	1.1
36.417	9.58	9.99	0.20	2.01	37.53	5.0E-06	120.0	2.185	0.669	1.516	3.7	2.0	5.15	2.57	0.26	73.3	-9999.0	-9999.0	-9999.0	-9999.0	0.520	1.1
36.482	9.39	9.82	0.21	2.14	39.21	5.0E-06	120.0	2.189	0.671	1.518	3.7	2.0	5.02	2.76	0.28	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.508	1.1
36.548	9.13	9.55	0.22	2.31	38.59	5.0E-06	120.0	2.193	0.673	1.520	3.7	2.0	4.84	3.00	0.29	77.9	-9999.0	-9999.0	-9999.0	-9999.0	0.490	1.1
36.614	8.94	9.33	0.23	2.47	36.26	5.0E-06	120.0	2.197	0.675	1.522	3.7	1.9	4.69	3.23	0.27	80.2	-9999.0	-9999.0	-9999.0	-9999.0	0.476	1.0
36.679	8.69	9.08	0.22	2.43	36.40	5.0E-06	120.0	2.201	0.677	1.524	3.6	1.9	4.52	3.20	0.28	81.2	-9999.0	-9999.0	-9999.0	-9999.0	0.459	1.0
36.745	8.62	9.02	0.22	2.44	36.98	5.0E-07	120.0	2.205	0.679	1.526	3.6	1.9	4.47	3.24	0.29	81.8	-9999.0	-9999.0	-9999.0	-9999.0	0.454	1.0
36.811	8.56	8.97	0.21	2.35	37.51	5.0E-06	120.0	2.209	0.681	1.528	3.6	1.8	4.42	3.12	0.30	81.3	-9999.0	-9999.0	-9999.0	-9999.0	0.450	1.0
36.876	9.13	9.54	0.25	2.63	37.49	5.0E-07	120.0	2.213	0.683	1.530	3.8	2.0	4.79	3.42	0.28	80.7	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.1
36.942	10.03	10.46	0.21	2.01	39.17	5.0E-06	120.0	2.217	0.685	1.531	3.8	2.1	5.38	2.55	0.26	71.9	-9999.0	-9999.0	-9999.0	-9999.0	0.549	1.2
37.007	11.37	11.81	0.21	1.78	40.61	5.0E-06	120.0	2.220	0.687	1.533	4.1	2.3	6.25	2.20	0.23	65.2	-9999.0	-9999.0	-9999.0	-9999.0	0.639	1.4
37.073	15.27	15.68	0.23	1.47	38.59	5.0E-05	120.0	2.224	0.689	1.535	4.8	2.8	8.77	1.71	0.16	53.0	30.0	30.0	-9999.0	-9999.0	0.897	2.1
37.139	21.08	21.46	0.22	1.03	34.89	5.0E-05	120.0	2.228	0.691	1.537	5.8	3.6	12.51	1.15	0.09	40.2	30.0	30.0	-9999.0	-9999.0	1.282	3.5
37.204	35.84	36.12	0.21	0.58	26.43	5.0E-04	120.0	2.232	0.693	1.539	8.0	6.6	22.02	0.62	0.04	20.9	31.3	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.270	50.40	50.45	0.22	0.44	4.35	5.0E-03	120.0	2.236	0.695	1.541	10.3	8.5	31.29	0.46	-0.01	5.0	40.8	36.0	3.488	176.0	-9999.0	-9999.0
37.336	53.15	53.16	0.25	0.47	0.69	5.0E-03	120.0	2.240	0.697	1.543	10.8	8.9	33.00	0.49	-0.01	5.0	42.3	36.0	3.403	180.9	-9999.0	-9999.0
37.401	52.32	52.32	0.28	0.54	0.61	5.0E-03	120.0	2.244	0.699	1.545	10.8	8.9	32.42	0.56	-0.01	15.6	41.9	36.0	3.430	179.5	-9999.0	-9999.0
37.467	47.53	47.53	0.27	0.57	0.39	5.0E-03	120.0	2.248	0.701	1.547	10.0	8.2	29.28	0.60	-0.01	17.1	39.1	36.0	3.591	170.7	-9999.0	-9999.0
37.532	42.35	42.36	0.29	0.69	0.73	5.0E-04	120.0	2.252	0.704	1.548	9.3	7.6	25.90	0.72	-0.02	19.9	35.8	34.0	3.783	160.3	-9999.0	-9999.0
37.598	37.94	37.96	0.29	0.77	1.27	5.0E-04	120.0	2.256	0.706	1.550	8.5	7.0	23.03	0.81	-0.02	22.3	32.6	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.664	36.35	36.37	0.31	0.85	2.27	5.0E-04	120.0	2.260	0.708	1.552	8.3	6.8	21.98	0.91	-0.02	23.8	31.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.729	36.22	36.26	0.30	0.83	3.80	5.0E-04	120.0	2.264	0.710	1.554	8.3	6.8	21.87	0.88	-0.01	23.6	31.3	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.795	35.84	35.90	0.28	0.78	5.61	5.0E-04	120.0	2.268	0.712	1.556	8.2	6.7	21.61	0.83	-0.01	23.3	31.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.860	35.00	35.08	0.28	0.80	6.56	5.0E-04	120.0	2.272	0.714	1.558	8.0	6.6	21.06	0.86	-0.01	23.8	30.3	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.926	35.20	35.28	0.28	0.80	7.89	5.0E-04	120.0	2.276	0.716	1.560	8.1	6.6	21.16	0.85	0.00	23.7	30.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
37.992	36.48	36.57	0.29	0.79	8.81	5.0E-04	120.0	2.280	0.718	1.562	8.3	6.8	21.96	0.85	0.00	23.2	31.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.057	38.58	38.68	0.30	0.78	9.05	5.0E-04	120.0	2.283	0.720	1.564	8.7	7.1	23.28	0.83	0.00	22.2	33.0	34.0	3.944	152.5	-9999.0	-9999.0
38.123	40.06	40.16	0.32	0.80	9.97	5.0E-04	120.0	2.287	0.722	1.565	9.0	7.3	24.20	0.85	0.00	21.9	34.1	34.0	3.884	156.0	-9999.0	-9999.0
38.189	41.46	41.57	0.36	0.87	10.45	5.0E-04	120.0	2.291	0.724	1.567	9.3	7.6	25.06	0.92	0.00	22.1	35.1	34.0	3.829	159.2	-9999.0	-9999.0
38.254	41.27	41.39	0.38	0.92	10.67	5.0E-04	120.0	2.295	0.726	1.569	9.3	7.6	24.91	0.97	0.00	22.6	34.9	34.0	3.838	158.8	-9999.0	-9999.0
38.320	39.80	39.92	0.44	1.11	11.00	5.0E-04	120.0	2.299	0.728	1.571	9.2	7.5	23.94	1.17	0.00	24.8	33.9	34.0	3.899	155.6	-9999.0	-9999.0
38.385	37.43	37.55	0.49	1.31	10.73	5.0E-04	120.0	2.303	0.730	1.573	8.9	7.3	22.41	1.39	0.00	27.4	32.1	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.451	36.54	36.66	0.47	1.29	11.22	5.0E-04	120.0	2.307	0.732	1.575	8.7	7.1	21.81	1.37	0.00	27.6	31.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.517	37.82	37.95	0.48	1.27	11.57	5.0E-04	120.0	2.311	0.734	1.577	9.0	7.3	22.60	1.35	0.00	26.9	32.4	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.582	39.29	39.40	0.45	1.14	11.04	5.0E-04	120.0	2.315	0.736	1.579	9.2	7.5	23.49	1.22	0.00	25.4	33.4	34.0	3.926	154.7	-9999.0	-9999.0
38.648	37.69	37.77	0.41	1.09	7.56	5.0E-04	120.0	2.319	0.738	1.581	8.8	7.2	22.43	1.16	-0.01	25.5	32.2	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.713	39.61	39.63	0.39	0.99	1.82	5.0E-04	120.0	2.323	0.740	1.582	9.1	7.4	23.57	1.05	-0.02	23.9	33.5	34.0	3.919	155.3	-9999.0	-9999.0
38.779	47.08	47.11	0.39	0.83	2.78	5.0E-04	120.0	2.327	0.742	1.584	10.3	8.4	28.27	0.87	-0.01	20.1	38.5	36.0	3.635	171.3	-9999.0	-9999.0
38.845	56.67	56.71	0.36	0.64	3.50	5.0E-03	120.0	2.331	0.744	1.586	11.8	9.5	34.28	0.66	-0.01	15.9	43.8	36.0	3.330	188.8	-9999.0	-9999.0
38.910	61.20	61.23	0.30	0.49	2.86	5.0E-03	120.0	2.335	0.747	1.588	12.3	10.0	37.08	0.51	-0.01	13.5	46.0	38.0	3.207	196.4	-9999.0	-9999.0
38.976	60.82	60.85	0.49	0.81	2.55	5.0E-03	120.0	2.339	0.749	1.590	12.8	10.3	36.80	0.84	-0.01	16.7	45.8	38.0	3.219	195.8	-9999.0	-9999.0
39.042	55.44	55.45	0.77	1.39	0.63	5.0E-04	120.0	2.343	0.751	1.592	12.5	10.1	33.36	1.45	-0.01	22.5	43.1	36.0	3.371	186.9	-9999.0	-9999.0
39.107	47.41	47.40	0.87	1.84	-0.87	5.0E-04	120.0	2.346	0.753	1.594	11.3	9.2	28.27	1.94	-0.02	27.6	38.6	36.0	3.633	172.2	-9999.0	-9999.0
39.173	39.03	39.02	0.83	2.13	-1.25	5.0E-05	120.0	2.350	0.755	1.596	10.3	6.3	22.98	2.27	-0.02	37.0	33.0	34.0	-9999.0	-9999.0	2.445	8.8
39.238	31.24	31.22	0.80	2.57	-1.17	5.0E-05	120.0	2.354	0.757	1.598	8.8	5.3	18.07	2.78	-0.03	44.2	30.0	32.0	-9999.0	-9999.0	1.925	6.1
39.304	31.31	31.32	0.80	2.56	1.52	5.0E-05	120.0	2.358	0.759	1.599	8.9	5.3	18.11	2.77	-0.02	44.1	30.0	32.0	-9999.0	-9999.0	1.931	6.1
39.370	42.73	42.80	0.81	1.90	5.75	5.0E-05	120.0	2.362	0.761	1.601	10.4	8.4	25.25	2.01	-0.01	29.5	35.6	34.0	3.808	163.0	2.696	10.0
39.435	58.96	59.09	0.67	1.14	11.57	5.0E-04	120.0	2.366	0.763	1.603	12.9	10.4	35.38	1.18	0.00	19.8	44.8	38.0	3.276	193.6	-9999.0	-9999.0
39.501	78.13	78.24	0.63	0.81	9.95	5.0E-03	120.0	2.370	0.765	1.605	15.8	12.8	47.27	0.83	0.00	14.0	52.8	38.0	2.848	222.8	-9999.0	-9999.0
39.566	100.55	100.63	0.68	0.68	6.89	5.0E-03	120.0	2.374	0.767	1.607	19.3	15.6	61.14	0.69	0.00	10.5	60.0	40.0	2.536	255.2	-9999.0	-9999.0
39.632	121.24	121.31	0.75	0.62	6.18	5.0E-02	120.0	2.378	0.769	1.609	22.6	18.2	73.92	0.63	0.00	8.4	65.4	40.0	2.358	286.1	-9999.0	-9999.0
39.698	138.95	139.01	0.85	0.61	5.49	5.0E-02	120.0	2.382	0.771	1.611	25.4	20.4	84.82	0.62	0.00	7.3	69.3	42.0	2.253	313.2	-9999.0	-9999.0
39.763	148.14	148.21	0.73	0.49	6.22	5.0E-02	120.0	2.386	0.773	1.613	26.4	21.2	90.42	0.50	0.00	5.9	71.1	42.0	2.208	327.2	-9999.0	-9999.0
39.829	155.43	155.50	0.82	0.53	6.48	5.0E-02	120.0	2.390	0.775	1.615	27.6	22.2	94.83	0.54	0.00	5.8	72.4	42.0	2.175	338.2	-9999.0	-9999.0
39.895	161.49	161.58	0.90	0.56	8.00	5.0E-02	120.0	2.394	0.777	1.616	28.7	23.1	98.48	0.57	0.00	5.8	73.5	42.0	2.149	347.3	-9999.0	-9999.0
39.960	164.43	164.52	0.95	0.58	8.34	5.0E-02	120.0	2.398	0.779	1.618	29.3	23.5	100.18	0.59	0.00	5.9	74.0	42.0	2.137	351.6	-9999.0	-9999.0
40.026	165.83	165.93	0.97	0.59	9.09	5.0E-02	120.0	2.402	0.781	1.620	29.5	23.7	100.93	0.59	0.00	5.9	74.3	42.0	2.132	353.8	-9999.0	-9999.0
40.091	161.17	161.28	0.98	0.61	9.83	5.0E-02	120.0	2.406	0.783	1.622	28.9	23.2	97.94	0.62	0.00	6.3	73.4	42.0	2.153	347.2	-9999.0	-9999.0
40.157	161.75	161.87	1.02	0.63	10.55	5.0E-02	120.0	2.409	0.785	1.624	29.1	23.3	98.19	0.64	0.00	6.4	73.5	42.0	2.151	348.1	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
40.223	162.90	163.01	1.03	0.63	10.90	5.0E-02	120.0	2.413	0.788	1.626	29.3	23.5	98.78	0.64	0.00	6.4	73.7	42.0	2.147	349.9	-9999.0	-9999.0
40.288	164.24	164.36	1.05	0.64	11.04	5.0E-02	120.0	2.417	0.790	1.628	29.5	23.7	99.49	0.65	0.00	6.4	73.9	42.0	2.142	352.0	-9999.0	-9999.0
40.354	167.37	167.49	1.07	0.64	11.57	5.0E-02	120.0	2.421	0.792	1.630	30.0	24.0	101.29	0.65	0.00	6.3	74.4	42.0	2.129	356.6	-9999.0	-9999.0
40.419	170.50	170.63	1.10	0.65	11.89	5.0E-02	120.0	2.425	0.794	1.632	30.5	24.4	103.10	0.66	0.00	6.2	75.0	42.0	2.117	361.2	-9999.0	-9999.0
40.485	169.80	169.93	1.11	0.65	11.83	5.0E-02	120.0	2.429	0.796	1.633	30.5	24.4	102.54	0.66	0.00	6.3	74.8	42.0	2.120	360.3	-9999.0	-9999.0
40.551	167.56	167.68	1.12	0.67	11.69	5.0E-02	120.0	2.433	0.798	1.635	30.2	24.1	101.05	0.68	0.00	6.5	74.4	42.0	2.130	357.2	-9999.0	-9999.0
40.616	164.24	164.36	1.12	0.68	11.61	5.0E-02	120.0	2.437	0.800	1.637	29.7	23.7	98.90	0.69	0.00	6.8	73.8	42.0	2.145	352.6	-9999.0	-9999.0
40.682	159.39	159.51	1.12	0.70	11.20	5.0E-02	120.0	2.441	0.802	1.639	29.0	23.2	95.82	0.71	0.00	7.1	73.0	42.0	2.167	345.6	-9999.0	-9999.0
40.748	153.82	153.95	1.10	0.72	11.42	5.0E-02	120.0	2.445	0.804	1.641	28.2	22.5	92.32	0.73	0.00	7.5	71.9	42.0	2.192	337.5	-9999.0	-9999.0
40.813	147.63	147.75	1.08	0.73	11.34	5.0E-02	120.0	2.449	0.806	1.643	27.2	21.7	88.44	0.75	0.00	7.9	70.7	42.0	2.222	328.3	-9999.0	-9999.0
40.879	140.60	140.72	1.06	0.76	11.28	5.0E-02	120.0	2.453	0.808	1.645	26.2	20.9	84.07	0.77	0.00	8.4	69.3	42.0	2.258	317.7	-9999.0	-9999.0
40.944	133.64	133.76	1.06	0.79	10.96	5.0E-02	120.0	2.457	0.810	1.647	25.2	20.0	79.74	0.81	0.00	9.1	67.8	42.0	2.297	307.2	-9999.0	-9999.0
41.010	125.40	125.52	1.14	0.91	10.73	5.0E-02	120.0	2.461	0.812	1.649	24.1	19.2	74.65	0.93	0.00	10.5	66.0	40.0	2.348	294.7	-9999.0	-9999.0
41.076	116.64	116.76	1.31	1.12	10.69	5.0E-03	120.0	2.465	0.814	1.650	23.2	18.4	69.25	1.15	0.00	12.6	63.9	40.0	2.411	281.5	-9999.0	-9999.0
41.141	106.49	106.60	1.49	1.40	10.39	5.0E-03	120.0	2.469	0.816	1.652	21.9	17.4	63.02	1.43	0.00	15.2	61.3	40.0	2.499	266.4	-9999.0	-9999.0
41.207	93.33	93.44	1.54	1.65	10.43	5.0E-04	120.0	2.472	0.818	1.654	19.9	15.9	54.99	1.70	0.00	18.1	57.5	40.0	2.646	247.3	-9999.0	-9999.0
41.272	77.43	77.54	1.51	1.95	10.01	5.0E-04	120.0	2.476	0.820	1.656	17.3	13.8	45.32	2.02	0.00	21.9	52.1	38.0	2.894	224.4	-9999.0	-9999.0
41.338	61.96	62.07	1.45	2.34	10.06	5.0E-05	120.0	2.480	0.822	1.658	14.7	11.7	35.94	2.44	0.00	26.8	45.7	38.0	3.236	200.9	3.973	10.0
41.404	49.13	49.23	1.03	2.10	9.58	5.0E-05	120.0	2.484	0.824	1.660	11.9	9.5	28.16	2.21	0.00	28.9	39.1	36.0	3.620	178.2	3.117	10.0
41.469	45.10	45.21	1.01	2.24	10.57	5.0E-05	120.0	2.488	0.826	1.662	11.7	7.0	25.71	2.37	0.00	35.6	36.6	34.0	-9999.0	-9999.0	2.848	10.0
41.535	54.11	54.30	0.98	1.81	17.17	5.0E-04	120.0	2.492	0.828	1.664	12.7	10.1	31.14	1.90	0.01	25.8	41.9	36.0	3.460	187.9	-9999.0	-9999.0
41.601	68.17	68.35	0.85	1.25	17.34	5.0E-04	120.0	2.496	0.831	1.666	14.8	11.7	39.54	1.29	0.01	19.1	48.4	38.0	3.089	211.1	-9999.0	-9999.0
41.666	83.87	84.02	0.66	0.79	13.43	5.0E-03	120.0	2.500	0.833	1.667	16.8	13.3	48.89	0.81	0.00	13.3	54.3	38.0	2.790	234.4	-9999.0	-9999.0
41.732	99.40	99.39	0.55	0.55	-0.61	5.0E-02	120.0	2.504	0.835	1.669	18.9	14.9	58.04	0.57	-0.01	9.6	59.1	40.0	2.583	256.7	-9999.0	-9999.0
41.797	107.64	107.65	0.53	0.49	0.98	5.0E-02	120.0	2.508	0.837	1.671	20.0	15.8	62.91	0.51	-0.01	8.4	61.4	40.0	2.499	269.0	-9999.0	-9999.0
41.863	114.73	114.74	0.59	0.52	0.98	5.0E-02	120.0	2.512	0.839	1.673	21.2	16.8	67.08	0.53	-0.01	8.1	63.2	40.0	2.437	279.7	-9999.0	-9999.0
41.929	118.63	118.64	0.65	0.55	0.98	5.0E-02	120.0	2.516	0.841	1.675	22.0	17.3	69.33	0.56	-0.01	8.1	64.2	40.0	2.408	285.7	-9999.0	-9999.0
41.994	121.12	121.13	0.74	0.61	0.39	5.0E-02	120.0	2.520	0.843	1.677	22.6	17.8	70.73	0.63	-0.01	8.5	64.7	40.0	2.390	289.5	-9999.0	-9999.0
42.060	123.10	123.11	0.79	0.64	0.73	5.0E-02	120.0	2.524	0.845	1.679	23.0	18.1	71.83	0.66	-0.01	8.7	65.2	40.0	2.377	292.7	-9999.0	-9999.0
42.125	123.74	123.76	0.82	0.66	1.62	5.0E-02	120.0	2.528	0.847	1.681	23.2	18.3	72.13	0.68	-0.01	8.8	65.3	40.0	2.374	293.8	-9999.0	-9999.0
42.191	123.87	123.90	0.84	0.68	2.88	5.0E-02	120.0	2.532	0.849	1.683	23.2	18.3	72.14	0.69	-0.01	8.9	65.3	40.0	2.374	294.1	-9999.0	-9999.0
42.257	122.59	122.64	0.84	0.69	4.62	5.0E-02	120.0	2.535	0.851	1.684	23.1	18.2	71.30	0.70	0.00	9.1	65.0	40.0	2.383	292.3	-9999.0	-9999.0
42.322	122.08	122.14	0.86	0.71	6.11	5.0E-02	120.0	2.539	0.853	1.686	23.0	18.1	70.93	0.72	0.00	9.3	64.9	40.0	2.387	291.6	-9999.0	-9999.0
42.388	120.99	121.07	0.85	0.70	7.29	5.0E-02	120.0	2.543	0.855	1.688	22.9	18.0	70.21	0.72	0.00	9.3	64.6	40.0	2.396	290.1	-9999.0	-9999.0
42.454	121.37	121.47	0.83	0.68	8.67	5.0E-02	120.0	2.547	0.857	1.690	22.9	18.0	70.36	0.70	0.00	9.2	64.7	40.0	2.394	290.8	-9999.0	-9999.0
42.519	122.97	123.07	0.81	0.66	9.75	5.0E-02	120.0	2.551	0.859	1.692	23.1	18.1	71.23	0.67	0.00	8.8	65.1	40.0	2.383	293.3	-9999.0	-9999.0
42.585	128.46	128.57	0.81	0.63	10.37	5.0E-02	120.0	2.555	0.861	1.694	23.9	18.7	74.40	0.64	0.00	8.3	66.3	40.0	2.348	301.9	-9999.0	-9999.0
42.650	135.62	135.73	0.82	0.61	10.37	5.0E-02	120.0	2.559	0.863	1.696	24.9	19.6	78.53	0.62	0.00	7.6	67.8	42.0	2.306	313.0	-9999.0	-9999.0
42.716	141.37	141.50	0.86	0.61	11.81	5.0E-02	120.0	2.563	0.865	1.698	25.9	20.3	81.84	0.62	0.00	7.4	69.0	42.0	2.275	321.9	-9999.0	-9999.0
42.782	144.31	144.44	0.92	0.64	11.79	5.0E-02	120.0	2.567	0.867	1.700	26.4	20.7	83.48	0.65	0.00	7.5	69.6	42.0	2.261	326.5	-9999.0	-9999.0
42.847	146.68	146.80	0.96	0.66	11.55	5.0E-02	120.0	2.571	0.869	1.701	26.9	21.1	84.77	0.67	0.00	7.5	70.0	42.0	2.250	330.2	-9999.0	-9999.0
42.913	148.33	148.46	1.01	0.68	12.03	5.0E-02	120.0	2.575	0.872	1.703	27.2	21.3	85.65	0.69	0.00	7.6	70.3	42.0	2.242	332.9	-9999.0	-9999.0
42.978	147.95	148.08	1.05	0.71	11.73	5.0E-02	120.0	2.579	0.874	1.705	27.3	21.4	85.33	0.72	0.00	7.9	70.3	42.0	2.245	332.4	-9999.0	-9999.0
43.044	146.87	146.99	1.06	0.72	11.63	5.0E-02	120.0	2.583	0.876	1.707	27.2	21.2	84.59	0.74	0.00	8.0	70.0	42.0	2.251	330.9	-9999.0	-9999.0
43.110	147.50	147.63	1.03	0.70	11.83	5.0E-02	120.0	2.587	0.878	1.709	27.2	21.2	84.87	0.71	0.00	7.8	70.1	42.0	2.249	331.9	-9999.0	-9999.0
43.175	146.16	146.29	1.02	0.70	11.75	5.0E-02	120.0	2.591	0.880	1.711	27.0	21.1	83.99	0.71	0.00	7.9	69.9	42.0	2.256	330.0	-9999.0	-9999.0
43.241	144.24	144.38	1.04	0.72	12.66	5.0E-02	120.0	2.595	0.882	1.713	26.7	20.9	82.78	0.74	0.00	8.1	69.5	42.0	2.266	327.2	-9999.0	-9999.0
43.307	141.56	141.69	1.00	0.71	11.51	5.0E-02	120.0	2.598	0.884	1.715	26.3	20.5	81.12	0.72	0.00	8.2	68.9	42.0	2.281	323.2	-9999.0	-9999.0
43.372	139.01	139.12	0.96	0.69	10.79	5.0E-02	120.0	2.602	0.886	1.717	25.8	20.1	79.53	0.70	0.00	8.2	68.4	42.0	2.295	319.3	-9999.0	-9999.0
43.438	135.62	135.74	0.94	0.69	10.75	5.0E-02	120.0	2.606	0.888	1.718	25.2	19.7	77.47	0.71	0.00	8.4	67.7	40.0	2.315	314.2	-9999.0	-9999.0
43.503	131.02	131.14	0.93	0.71	11.06	5.0E-02	120.0	2.610	0.890	1.720	24.6	19.1	74.71	0.73	0.00	8.8	66.7	40.0	2.343	307.3	-9999.0	-9999.0
43.569	128.27	128.40	0.94	0.73	11.97	5.0E-02	120.0	2.614	0.892	1.722	24.2	18.8	73.04	0.75	0.00	9.2	66.0	40.0	2.361	303.2	-9999.0	-9999.0
43.635	127.00	127.12	0.92	0.73	11.24	5.0E-02	120.0	2.618	0.894	1.724	23.9	18.6	72.21	0.74	0.00	9.2	65.7	40.0	2.370	301.3	-9999.0	-9999.0
43.700	126.87	127.00	0.91	0.72	11.95	5.0E-02	120.0	2.622	0.896	1.726	23.9	18.6	72.06	0.73	0.00	9.1	65.7	40.0	2.372	301.2	-9999.0	-9999.0
43.766	126.11	126.24	0.90	0.71	12.43	5.0E-02	120.0	2.626	0.898	1.728	23.8	18.5	71.54	0.73	0.00	9.2	65.5	40.0	2.378	300.2	-9999.0	-9999.0
43.831	125.46	125.60	0.90	0.72	12.18	5.0E-02	120.0	2.630	0.900	1.730	23.7	18.4	71.09	0.73	0.00	9.2	65.3	40.0	2.383	299.3	-9999.0	-9999.0
43.897	127.19	127.32	0.91	0.72	12.49	5.0E-02	120.0	2.634	0.902	1.732	24.0	18.6	72.01	0.73	0.00	9.1	65.7	40.0	2.372	302.0	-9999.0	-9999.0
43.963	129.80	129.94	0.93	0.72	12.76	5.0E-02	120.0	2.638	0.904	1.734	24.4	18.9	73.44	0.73	0.00	9.0	66.3	40.0	2.356	306.2	-9999.0	-9999.0
44.028	131.66	131.80	0.93	0.71	12.96	5.0E-02	120.0	2.642	0.906	1.735	24.7	19.1	74.43	0.72	0.00	8.8	66.7	40.0	2.345	309.1	-9999.0	-9999.0
44.094	132.68	132.82	0.95	0.72	12.86	5.0E-02	120.0	2.646	0.908	1.737	24.9	19.3	74.93	0.73	0.00	8.8	66.9	40.0	2.340	310.8	-9999.0	-9999.0
44.160	133.38	133.52	0.95	0.71	12.57	5.0E-02	120.0	2.650	0.910	1.739	25.0	19.3	75.25	0.73	0.00	8.7	67.0	40.0	2.337	312.0	-9999.0	-9999.0
44.225	134.79	134.93	0.96	0.71	12.94	5.0E-02	120.0	2.654	0.912	1.741	25.2	19.5	75.97	0.73	0.00	8.7	67.3	40.0	2.329	314.2	-9999.0	-9999.0
44.291	138.63	138.77	0.98	0.71	13.31	5.0E-02	120.0	2.658	0.915	1.743	25.8	20.0	78.09	0.72	0.00	8.4	68.1	42.0	2.308	320.3	-9999.0	-9999.0
44.356	144.44	144.59	0.97	0.67	13.77	5.0E-02	120.0	2.661	0.917	1.745	26.6	20.6	81.34	0.69	0.00	7.8	69.2	42.0	2.278	329.3	-9999.0	-9999.0
44.422	151.98	152.13	0.99	0.65	14.02	5.0E-02	120.0	2.665	0.919	1.747	27.8	21.5	85.57	0.66	0.00	7.3	70.7	42.0	2.241	341.0	-9999.0	-9999.0
44.488	162.19	162.34	1.03	0.64	13.94	5.0E-02	120.0	2.669	0.921	1.749	29.3	22.7	91.31	0.65	0.00	6.7	72.5	42.0	2.196	356.4	-9999.0	-9999.0
44.553	172.23	172.38	1.10	0.64	14.36	5.0E-02	120.0	2.673	0.923	1.751	30.9	23.9	96.95	0.65	0.00	6.3	74.2	42.0	2.153	371.2	-9999.0	-9999.0
44.619	180.34	180.49	1.16	0.64	14.22	5.0E-02	120.0	2.677	0.925	1.752	32.2	24.9	101.47	0.65	0.00	6.1	75.5	42.0	2.121	382.8	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
44.684	190.62	190.78	1.04	0.55	14.38	5.0E-02	120.0	2.681	0.927	1.754	33.3	25.7	107.22	0.55	0.00	5.0	77.1	42.0	2.082	397.2	-9999.0	-9999.0
44.750	199.63	199.79	1.06	0.53	14.56	5.0E-02	120.0	2.685	0.929	1.756	34.7	26.7	112.24	0.54	0.00	4.6	78.4	42.0	2.050	409.6	-9999.0	-9999.0
44.816	207.99	208.15	1.11	0.53	14.74	5.0E-02	120.0	2.689	0.931	1.758	35.9	27.7	116.87	0.54	0.00	4.3	79.6	42.0	2.024	421.3	-9999.0	-9999.0
44.881	218.22	218.38	1.15	0.53	14.84	5.0E-02	120.0	2.693	0.933	1.760	37.5	28.9	122.55	0.53	0.00	4.0	80.9	42.0	1.997	436.2	-9999.0	-9999.0
44.947	228.83	228.99	1.17	0.51	15.07	5.0E-02	120.0	2.697	0.935	1.762	39.0	30.0	128.44	0.52	0.00	3.6	82.3	44.0	1.980	453.4	-9999.0	-9999.0
45.013	235.02	235.15	1.24	0.53	12.31	5.0E-02	120.0	2.701	0.937	1.764	40.0	30.8	131.80	0.53	0.00	3.6	83.0	44.0	1.976	464.7	-9999.0	-9999.0
45.078	251.76	251.92	1.30	0.52	14.47	5.0E-02	120.0	2.705	0.939	1.766	42.5	32.6	141.15	0.52	0.00	3.2	85.0	44.0	1.998	503.4	-9999.0	-9999.0
45.144	262.43	262.59	1.44	0.55	15.19	5.0E-02	120.0	2.709	0.941	1.768	44.3	34.0	147.03	0.56	0.00	3.2	86.2	44.0	2.046	537.3	-9999.0	-9999.0
45.209	273.73	273.90	1.54	0.56	15.47	5.0E+00	120.0	2.713	0.943	1.769	46.1	35.4	153.27	0.57	0.00	3.1	87.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.275	284.72	284.89	1.61	0.57	15.76	5.0E+00	120.0	2.717	0.945	1.771	47.8	36.7	159.30	0.57	0.00	3.0	88.5	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.341	292.07	292.24	1.71	0.59	15.64	5.0E+00	120.0	2.720	0.947	1.773	49.0	37.6	163.28	0.59	0.00	3.0	89.2	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.406	294.36	294.53	1.78	0.61	15.70	5.0E+00	120.0	2.724	0.949	1.775	49.5	38.0	164.39	0.61	0.00	3.1	89.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.472	289.00	289.17	1.86	0.64	15.62	5.0E-02	120.0	2.728	0.951	1.777	49.0	37.6	161.20	0.65	0.00	3.4	88.9	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.538	289.06	289.23	1.86	0.64	15.33	5.0E-02	120.0	2.732	0.953	1.779	49.0	37.5	161.06	0.65	0.00	3.4	88.8	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.603	287.98	288.14	1.85	0.64	15.25	5.0E-02	120.0	2.736	0.956	1.781	48.8	37.4	160.28	0.65	0.00	3.5	88.7	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.669	284.78	284.94	1.79	0.63	14.82	5.0E-02	120.0	2.740	0.958	1.783	48.3	36.9	158.31	0.64	0.00	3.4	88.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.734	280.44	280.60	1.74	0.62	15.07	5.0E-02	120.0	2.744	0.960	1.785	47.5	36.4	155.71	0.63	0.00	3.4	87.9	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.800	281.40	281.57	1.70	0.61	15.45	5.0E+00	120.0	2.748	0.962	1.786	47.6	36.4	156.08	0.61	0.00	3.3	88.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.866	285.17	285.33	1.69	0.59	14.80	5.0E+00	120.0	2.752	0.964	1.788	48.1	36.7	158.02	0.60	0.00	3.2	88.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.931	291.37	291.53	1.66	0.57	15.55	5.0E+00	120.0	2.756	0.966	1.790	48.8	37.3	161.31	0.58	0.00	2.9	89.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
45.997	296.79	296.97	1.67	0.56	16.45	5.0E+00	120.0	2.760	0.968	1.792	49.6	37.8	164.17	0.57	0.00	2.8	89.5	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.062	299.61	299.79	1.68	0.56	16.89	5.0E+00	120.0	2.764	0.970	1.794	50.0	38.1	165.57	0.57	0.00	2.7	89.7	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.128	298.71	298.90	1.70	0.57	16.85	5.0E+00	120.0	2.768	0.972	1.796	49.9	38.1	164.90	0.58	0.00	2.8	89.6	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.194	296.16	296.34	1.69	0.57	16.65	5.0E+00	120.0	2.772	0.974	1.798	49.5	37.8	163.30	0.58	0.00	2.8	89.4	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.259	292.51	292.69	1.67	0.57	16.25	5.0E+00	120.0	2.776	0.976	1.800	49.0	37.3	161.10	0.58	0.00	2.9	89.0	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.325	283.64	283.81	1.62	0.57	15.66	5.0E+00	120.0	2.780	0.978	1.801	47.7	36.3	156.00	0.58	0.00	3.1	88.1	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.391	272.96	273.13	1.70	0.62	15.21	5.0E-02	120.0	2.783	0.980	1.803	46.5	35.3	149.91	0.63	0.00	3.6	87.0	44.0	2.106	575.3	-9999.0	-9999.0
46.456	259.30	259.45	1.66	0.64	14.38	5.0E-02	120.0	2.787	0.982	1.805	44.5	33.8	142.18	0.65	0.00	4.0	85.5	44.0	2.019	523.8	-9999.0	-9999.0
46.522	241.02	241.16	1.54	0.64	12.55	5.0E-02	120.0	2.791	0.984	1.807	41.7	31.7	131.90	0.65	0.00	4.4	83.4	44.0	1.980	477.6	-9999.0	-9999.0
46.587	219.81	219.94	1.49	0.68	11.67	5.0E-02	120.0	2.795	0.986	1.809	38.6	29.4	120.03	0.69	0.00	5.2	80.8	42.0	2.006	441.3	-9999.0	-9999.0
46.653	194.07	194.19	1.44	0.74	11.32	5.0E-02	120.0	2.799	0.988	1.811	34.9	26.5	105.69	0.75	0.00	6.4	77.2	42.0	2.089	405.6	-9999.0	-9999.0
46.719	146.55	146.67	1.43	0.98	11.40	5.0E-02	120.0	2.803	0.990	1.813	28.0	21.3	79.36	1.00	0.00	10.1	69.1	42.0	2.294	336.4	-9999.0	-9999.0
46.784	123.67	123.78	1.45	1.17	10.45	5.0E-03	120.0	2.807	0.992	1.815	24.6	18.7	66.66	1.20	0.00	12.9	64.2	40.0	2.433	301.1	-9999.0	-9999.0
46.850	101.26	101.37	1.46	1.44	10.59	5.0E-03	120.0	2.811	0.994	1.817	21.2	16.1	54.25	1.48	0.00	16.5	58.5	40.0	2.639	267.5	-9999.0	-9999.0
46.915	79.72	79.84	1.43	1.80	11.00	5.0E-04	120.0	2.815	0.996	1.818	17.7	13.4	42.36	1.86	0.00	21.3	51.6	38.0	2.955	236.0	-9999.0	-9999.0
46.981	60.31	60.42	1.47	2.44	10.96	5.0E-05	120.0	2.819	0.999	1.820	14.6	11.0	31.64	2.56	0.00	28.4	43.6	36.0	3.395	205.2	3.840	10.0
47.047	44.46	44.58	1.40	3.15	11.18	5.0E-05	120.0	2.823	1.001	1.822	12.4	6.7	22.91	3.36	0.00	42.6	34.9	34.0	-9999.0	-9999.0	2.784	8.8
47.112	33.60	33.72	1.33	3.95	11.36	5.0E-06	120.0	2.827	1.003	1.824	10.3	5.4	16.94	4.32	-0.01	52.6	-9999.0	-9999.0	-9999.0	-9999.0	2.060	5.5
47.178	27.98	28.12	1.28	4.56	12.70	5.0E-07	120.0	2.831	1.005	1.826	9.2	4.7	13.85	5.07	0.00	59.9	-9999.0	-9999.0	-9999.0	-9999.0	1.686	4.0
47.244	27.54	27.78	1.26	4.55	22.18	5.0E-07	120.0	2.835	1.007	1.828	9.1	4.7	13.64	5.06	0.02	60.2	-9999.0	-9999.0	-9999.0	-9999.0	1.663	4.0
47.309	36.61	36.81	1.25	3.40	18.82	5.0E-06	120.0	2.839	1.009	1.830	10.8	5.7	18.57	3.69	0.01	48.1	-9999.0	-9999.0	-9999.0	-9999.0	2.265	6.3
47.375	48.62	48.81	1.18	2.42	18.03	5.0E-05	120.0	2.843	1.011	1.832	12.9	6.9	25.10	2.57	0.01	37.1	37.4	34.0	-9999.0	-9999.0	3.065	10.0
47.440	52.32	52.55	1.05	2.00	21.43	5.0E-04	120.0	2.846	1.013	1.834	12.6	9.5	27.11	2.12	0.01	28.2	39.5	36.0	3.639	191.2	-9999.0	-9999.0
47.506	50.34	50.55	1.06	2.10	19.28	5.0E-05	120.0	2.850	1.015	1.835	12.3	9.3	25.99	2.23	0.01	29.3	38.4	36.0	3.705	187.3	3.180	10.0
47.572	47.60	47.79	0.99	2.08	17.99	5.0E-05	120.0	2.854	1.017	1.837	12.4	6.6	24.46	2.21	0.01	35.5	36.8	34.0	-9999.0	-9999.0	2.996	9.7
47.637	51.94	52.14	0.96	1.85	19.10	5.0E-04	120.0	2.858	1.019	1.839	12.4	9.4	26.80	1.95	0.01	27.4	39.3	36.0	3.656	190.6	-9999.0	-9999.0
47.703	60.05	60.23	1.04	1.73	17.36	5.0E-04	120.0	2.862	1.021	1.841	13.9	10.5	31.16	1.82	0.00	24.6	43.4	36.0	3.415	205.7	-9999.0	-9999.0
47.768	55.96	56.14	1.11	1.98	16.83	5.0E-04	120.0	2.866	1.023	1.843	13.3	10.0	28.90	2.09	0.00	27.1	41.3	36.0	3.534	198.4	-9999.0	-9999.0
47.834	38.20	38.42	1.06	2.77	19.85	5.0E-05	120.0	2.870	1.025	1.845	10.9	5.7	19.27	2.99	0.01	44.1	30.5	34.0	-9999.0	-9999.0	2.370	6.7
47.900	29.38	29.51	0.96	3.26	11.85	5.0E-06	120.0	2.874	1.027	1.847	9.1	4.6	14.42	3.61	-0.01	53.0	-9999.0	-9999.0	-9999.0	-9999.0	1.776	4.3
47.965	24.53	24.65	0.85	3.46	11.51	5.0E-06	120.0	2.878	1.029	1.849	8.0	4.0	11.78	3.91	-0.01	58.9	-9999.0	-9999.0	-9999.0	-9999.0	1.452	3.2
48.031	21.14	21.32	0.66	3.10	16.55	5.0E-06	120.0	2.882	1.031	1.851	7.1	3.5	9.96	3.59	0.01	61.4	-9999.0	-9999.0	-9999.0	-9999.0	1.229	2.5
48.097	18.46	18.69	0.61	3.27	20.44	5.0E-06	120.0	2.886	1.033	1.852	6.5	3.1	8.53	3.87	0.03	66.7	-9999.0	-9999.0	-9999.0	-9999.0	1.053	2.0
48.162	16.42	16.64	0.55	3.31	20.48	5.0E-06	120.0	2.890	1.035	1.854	6.1	2.8	7.42	4.01	0.03	71.1	-9999.0	-9999.0	-9999.0	-9999.0	0.917	1.7
48.228	15.53	15.93	0.44	2.77	37.65	5.0E-06	120.0	2.894	1.037	1.856	5.7	2.6	7.03	3.38	0.13	69.4	-9999.0	-9999.0	-9999.0	-9999.0	0.869	1.6
48.293	13.54	14.22	0.31	2.18	62.89	5.0E-06	120.0	2.898	1.040	1.858	5.1	2.3	6.09	2.74	0.31	69.6	-9999.0	-9999.0	-9999.0	-9999.0	0.755	1.4
48.359	12.33	13.16	0.23	1.75	77.27	5.0E-06	120.0	2.902	1.042	1.860	4.7	2.1	5.52	2.25	0.44	69.1	-9999.0	-9999.0	-9999.0	-9999.0	0.684	1.2
48.425	11.37	12.30	0.26	2.12	85.99	5.0E-06	120.0	2.906	1.044	1.862	4.6	2.0	5.04	2.78	0.55	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.626	1.1
48.490	11.18	12.16	0.23	1.90	90.63	5.0E-06	120.0	2.909	1.046	1.864	4.5	1.9	4.96	2.49	0.59	73.9	-9999.0	-9999.0	-9999.0	-9999.0	0.616	1.1
48.556	11.50	12.52	0.20	1.60	94.33	5.0E-06	120.0	2.913	1.048	1.866	4.5	1.9	5.15	2.09	0.60	69.8	-9999.0	-9999.0	-9999.0	-9999.0	0.640	1.1
48.621	11.31	12.29	0.19	1.55	91.18	5.0E-06	120.0	2.917	1.050	1.868	4.4	1.9	5.02	2.03	0.59	70.1	-9999.0	-9999.0	-9999.0	-9999.0	0.625	1.1
48.687	10.74	11.76	0.22	1.88	94.33	5.0E-06	120.0	2.921	1.052	1.869	4.4	1.9	4.73	2.50	0.65	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.589	1.0
48.753	10.93	11.96	0.24	2.01	96.03	5.0E-06	120.0	2.925	1.054	1.871	4.5	1.9	4.83	2.66	0.65	75.8	-9999.0	-9999.0	-9999.0	-9999.0	0.603	1.1
48.818	11.37	12.41	0.25	2.02	96.72	5.0E-06	120.0	2.929	1.056	1.873	4.6	2.0	5.06	2.64	0.62	74.3	-9999.0	-9999.0	-9999.0	-9999.0	0.632	1.1
48.884	11.25	12.29	0.27	2.20	96.27	5.0E-06	120.0	2.933	1.058	1.875	4.7	2.0	4.99	2.89	0.63	76.3	-9999.0	-9999.0	-9999.0	-9999.0	0.624	1.1
48.950	10.93	11.95	0.27	2.26	94.73	5.0E-06	120.0	2.937	1.060	1.877	4.6	1.9	4.80	3.00	0.64	78.1	-9999.0	-9999.0	-9999.0	-9999.0	0.601	1.1
49.015	11.37	12.39	0.28	2.27	94.29	5.0E-06	120.0	2.941	1.062	1.879	4.7	2.0	5.03	2.97	0.61	76.6	-9999.0	-9999.0	-9999.0	-9999.0	0.630	1.1
49.081	11.37	12.39	0.29	2.35	94.31	5.0E-06	120.0	2.945	1.064	1.881	4.8	2.0	5.02	3.08	0.61	77.3	-9999.0	-9999.0	-9999.0	-9999.0	0.629	1.1

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
49.146	11.88	12.90	0.29	2.25	94.22	5.0E-06	120.0	2.949	1.066	1.883	4.9	2.1	5.28	2.92	0.57	74.8	-9999.0	-9999.0	-9999.0	-9999.0	0.663	1.2
49.212	11.31	12.32	0.29	2.36	94.08	5.0E-06	120.0	2.953	1.068	1.885	4.8	2.0	4.97	3.10	0.61	77.7	-9999.0	-9999.0	-9999.0	-9999.0	0.625	1.1
49.278	11.88	12.89	0.28	2.18	93.33	5.0E-06	120.0	2.957	1.070	1.886	4.8	2.1	5.26	2.83	0.57	74.3	-9999.0	-9999.0	-9999.0	-9999.0	0.662	1.2
49.343	11.69	12.69	0.28	2.21	92.26	5.0E-06	120.0	2.961	1.072	1.888	4.8	2.0	5.15	2.89	0.57	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.648	1.1
49.409	11.82	12.84	0.29	2.26	94.77	5.0E-06	120.0	2.965	1.074	1.890	4.9	2.1	5.23	2.94	0.58	75.3	-9999.0	-9999.0	-9999.0	-9999.0	0.659	1.2
49.474	11.56	12.60	0.30	2.39	96.78	5.0E-06	120.0	2.969	1.076	1.892	4.8	2.0	5.09	3.12	0.61	77.1	-9999.0	-9999.0	-9999.0	-9999.0	0.642	1.1
49.540	12.14	13.20	0.30	2.28	98.48	5.0E-06	120.0	2.972	1.078	1.894	4.9	2.1	5.40	2.94	0.59	74.3	-9999.0	-9999.0	-9999.0	-9999.0	0.682	1.2
49.606	12.07	13.10	0.31	2.37	95.21	5.0E-06	120.0	2.976	1.080	1.896	5.0	2.1	5.34	3.07	0.57	75.4	-9999.0	-9999.0	-9999.0	-9999.0	0.675	1.2
49.671	11.76	12.75	0.33	2.59	91.73	5.0E-06	120.0	2.980	1.083	1.898	5.0	2.1	5.15	3.39	0.57	78.3	-9999.0	-9999.0	-9999.0	-9999.0	0.651	1.1
49.737	12.07	13.03	0.01	0.08	88.67	5.0E-05	120.0	2.984	1.085	1.900	-9999.0	-9999.0	5.29	0.10	0.53	-9999.0	30.0	30.0	-9999.0	-9999.0	0.670	1.2
49.803	12.07	13.04	0.01	0.08	89.97	5.0E-05	120.0	2.988	1.087	1.902	-9999.0	-9999.0	5.29	0.10	0.54	-9999.0	30.0	30.0	-9999.0	-9999.0	0.670	1.2
49.868	12.39	13.34	0.01	0.08	87.60	5.0E-05	120.0	2.992	1.089	1.903	-9999.0	-9999.0	5.43	0.10	0.50	-9999.0	30.0	30.0	-9999.0	-9999.0	0.690	1.2
49.934	12.14	13.05	0.01	0.08	84.70	5.0E-05	120.0	2.996	1.091	1.905	-9999.0	-9999.0	5.28	0.10	0.50	-9999.0	30.0	30.0	-9999.0	-9999.0	0.671	1.2
49.999	12.14	13.09	0.01	0.08	88.22	5.0E-05	120.0	3.000	1.093	1.907	-9999.0	-9999.0	5.29	0.10	0.52	-9999.0	30.0	30.0	-9999.0	-9999.0	0.673	1.2

Gregg In Situ, Inc. - CPT Interpretation

Interpretation Output - Release	1.22A	Format:	NLI	Imperial
Run No:	04-0816-0955-2700			
Job No:	04-127SC			
Client:	MACTEC			
Project:	Allen Fossil Plant			
Site:	CPT-05			
Location:	Allen Plant			
Oversite:	H. Benkhayal			
CPT Date:	04/20/07			
CPT Time:	14:24			
CPT File:	130CP05.COR			
Northing (m):	0.000000			
Easting (m):	0.000000			
Elevation (m):	0.000000			

Water Table (m):	13.72	(ft):	45.0
Unit Weight of Water (default):	62.40 pcf		
Averaging Increment (m):	0.0 (Every Data Point)		
Phi Method :	Robertson and Campanella, 1983		
Su Nkt used:	15.00	Su/P' (nc):	0.30
Dr Method :	Jamiolkowski - All Sands		
State Parameter M:	1.20		

Constant Unit Weight Used Throughout (pcf): 119.97
N160Ic Calculated using qc1n
N160cs Calculated using qc1ncs

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
0.066	31.05	31.05	0.13	0.42	0.24	5.0E-04	120.0	0.004	0.000	0.004	-9999.0	-9999.0	3000.00	0.42	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.131	49.13	49.13	0.14	0.29	0.31	5.0E-03	120.0	0.008	0.000	0.008	-9999.0	-9999.0	3000.00	0.29	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.197	52.96	52.96	0.19	0.36	0.53	5.0E-03	120.0	0.012	0.000	0.012	-9999.0	-9999.0	3000.00	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.262	57.69	57.70	0.24	0.42	1.06	5.0E-03	120.0	0.016	0.000	0.016	-9999.0	-9999.0	3000.00	0.42	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.328	62.98	62.99	0.24	0.38	0.37	5.0E-03	120.0	0.020	0.000	0.020	-9999.0	-9999.0	3000.00	0.38	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.394	64.40	64.40	0.25	0.39	0.43	5.0E-03	120.0	0.024	0.000	0.024	-9999.0	-9999.0	2725.27	0.39	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.459	68.17	68.17	0.28	0.41	0.26	5.0E-03	120.0	0.028	0.000	0.028	-9999.0	-9999.0	2472.50	0.41	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.525	69.25	69.25	0.31	0.45	0.37	5.0E-03	120.0	0.031	0.000	0.031	-9999.0	-9999.0	2197.73	0.45	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.591	70.65	70.66	0.34	0.48	0.59	5.0E-03	120.0	0.035	0.000	0.035	-9999.0	-9999.0	1993.10	0.48	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.656	72.38	72.38	0.36	0.50	0.49	5.0E-03	120.0	0.039	0.000	0.039	-9999.0	-9999.0	1837.45	0.50	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.722	74.68	74.69	0.39	0.52	0.69	5.0E-03	120.0	0.043	0.000	0.043	-9999.0	-9999.0	1723.61	0.52	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.787	72.96	72.96	0.41	0.56	0.59	5.0E-03	120.0	0.047	0.000	0.047	-9999.0	-9999.0	1543.37	0.56	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.853	77.43	77.43	0.43	0.56	0.57	5.0E-03	120.0	0.051	0.000	0.051	-9999.0	-9999.0	1511.92	0.56	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.919	83.75	83.76	0.42	0.50	0.37	5.0E-03	120.0	0.055	0.000	0.055	-9999.0	-9999.0	1518.58	0.50	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
0.984	90.01	90.01	0.46	0.51	0.47	5.0E-03	120.0	0.059	0.000	0.059	-9999.0	-9999.0	1523.21	0.51	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.050	95.44	95.45	0.45	0.47	0.49	5.0E-02	120.0	0.063	0.000	0.063	-9999.0	-9999.0	1514.20	0.47	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.115	100.48	100.49	0.43	0.43	0.35	5.0E-02	120.0	0.067	0.000	0.067	-9999.0	-9999.0	1500.39	0.43	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.181	106.24	106.24	0.41	0.39	0.33	5.0E-02	120.0	0.071	0.000	0.071	-9999.0	-9999.0	1498.17	0.39	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.247	108.53	108.53	0.39	0.36	0.08	5.0E-02	120.0	0.075	0.000	0.075	-9999.0	-9999.0	1449.91	0.36	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.312	111.09	111.09	0.39	0.35	0.10	5.0E-02	120.0	0.079	0.000	0.079	-9999.0	-9999.0	1409.83	0.35	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.378	112.94	112.95	0.38	0.34	0.10	5.0E-02	120.0	0.083	0.000	0.083	-9999.0	-9999.0	1365.08	0.34	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.444	115.18	115.18	0.37	0.32	0.22	5.0E-02	120.0	0.087	0.000	0.087	-9999.0	-9999.0	1328.81	0.32	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.509	116.26	116.26	0.38	0.33	0.20	5.0E-02	120.0	0.091	0.000	0.091	-9999.0	-9999.0	1282.95	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.575	116.90	116.91	0.40	0.34	0.18	5.0E-02	120.0	0.094	0.000	0.094	-9999.0	-9999.0	1236.24	0.34	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.640	119.20	119.20	0.39	0.33	0.43	5.0E-02	120.0	0.098	0.000	0.098	-9999.0	-9999.0	1210.10	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.706	121.64	121.64	0.41	0.34	0.28	5.0E-02	120.0	0.102	0.000	0.102	-9999.0	-9999.0	1187.30	0.34	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.772	125.33	125.34	0.42	0.34	0.49	5.0E-02	120.0	0.106	0.000	0.106	-9999.0	-9999.0	1178.11	0.34	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.837	127.95	127.96	0.44	0.34	0.47	5.0E-02	120.0	0.110	0.000	0.110	-9999.0	-9999.0	1159.73	0.35	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.903	129.23	129.24	0.31	0.24	0.39	5.0E-02	120.0	0.114	0.000	0.114	-9999.0	-9999.0	1130.93	0.24	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
1.968	129.67	129.68	0.38	0.29	0.41	5.0E-02	120.0	0.118	0.000	0.118	-9999.0	-9999.0	1096.94	0.29	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.034	128.53	128.54	0.42	0.33	0.31	5.0E-02	120.0	0.122	0.000	0.122	-9999.0	-9999.0	1052.15	0.33	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.100	128.59	128.60	0.47	0.37	0.43	5.0E-02	120.0	0.126	0.000	0.126	-9999.0	-9999.0	1019.72	0.37	0.00	-9999.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.165	128.34	128.35	0.50	0.39	0.43	5.0E-02	120.0	0.130	0.000	0.130	19.8	56.0	986.86	0.39	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.231	119.84	119.86	0.52	0.43	1.39	5.0E-02	120.0	0.134	0.000	0.134	18.8	52.4	894.38	0.44	0.00	0.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.297	126.11	126.12	0.52	0.41	1.23	5.0E-02	120.0	0.138	0.000	0.138	19.6	53.9	914.26	0.41	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.362	127.38	127.39	0.54	0.42	1.08	5.0E-02	120.0	0.142	0.000	0.142	19.9	53.9	897.80	0.43	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.428	127.57	127.58	0.53	0.42	0.81	5.0E-02	120.0	0.146	0.000	0.146	19.9	53.2	874.80	0.42	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.493	130.32	130.33	0.53	0.41	0.85	5.0E-02	120.0	0.150	0.000	0.150	20.2	53.5	870.11	0.41	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.559	133.00	133.01	0.53	0.40	0.85	5.0E-02	120.0	0.154	0.000	0.154	20.6	53.7	865.27	0.40	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.625	134.67	134.67	0.53	0.39	0.63	5.0E-02	120.0	0.157	0.000	0.157	20.8	53.7	854.17	0.39	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.690	137.02	137.03	0.54	0.40	0.69	5.0E-02	120.0	0.161	0.000	0.161	21.2	53.9	847.91	0.40	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.756	139.14	139.15	0.55	0.40	0.71	5.0E-02	120.0	0.165	0.000	0.165	21.5	54.1	840.49	0.40	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.821	140.22	140.23	0.58	0.41	0.67	5.0E-02	120.0	0.169	0.000	0.169	21.8	54.1	827.31	0.42	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.887	141.49	141.50	0.59	0.42	0.65	5.0E-02	120.0	0.173	0.000	0.173	22.0	54.0	815.83	0.42	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
2.953	143.03	143.04	0.59	0.41	0.75	5.0E-02	120.0	0.177	0.000	0.177	22.2	54.0	806.34	0.41	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.018	145.90	145.91	0.62	0.43	0.67	5.0E-02	120.0	0.181	0.000	0.181	22.7	54.5	804.67	0.43	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.084	150.57	150.57	0.64	0.43	0.69	5.0E-02	120.0	0.185	0.000	0.185	23.4	55.6	812.72	0.43	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.150	154.98	154.98	0.67	0.43	0.63	5.0E-02	120.0	0.189	0.000	0.189	24.1	56.6	819.11	0.43	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.215	160.41	160.42	0.70	0.44	0.71	5.0E-02	120.0	0.193	0.000	0.193	24.9	57.9	830.54	0.44	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.281	166.15	166.16	0.73	0.44	0.73	5.0E-02	120.0	0.197	0.000	0.197	25.7	59.2	843.09	0.44	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.346	170.75	170.76	0.77	0.45	0.77	5.0E-02	120.0	0.201	0.000	0.201	26.5	60.3	849.46	0.45	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.412	173.37	173.38	0.79	0.46	0.65	5.0E-02	120.0	0.205	0.000	0.205	26.9	60.7	845.87	0.46	0.00	0.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.478	175.30	175.30	0.84	0.48	0.69	5.0E-02	120.0	0.209	0.000	0.209	27.3	61.1	839.12	0.48	0.00	0.1	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.543	177.59	177.60	0.87	0.49	0.75	5.0E-02	120.0	0.213	0.000	0.213	27.7	61.4	834.36	0.49	0.00	0.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.609	179.12	179.13	0.88	0.49	0.79	5.0E-02	120.0	0.217	0.000	0.217	27.9	61.4	826.26	0.49	0.00	0.2	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.674	179.58	179.58	0.90	0.50	0.79	5.0E-02	120.0	0.220	0.000	0.220	28.1	61.1	813.53	0.50	0.00	0.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.740	179.64	179.64	0.91	0.51	0.73	5.0E-02	120.0	0.224	0.000	0.224	28.1	60.7	799.51	0.51	0.00	0.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.806	178.99	179.00	0.94	0.53	0.63	5.0E-02	120.0	0.228	0.000	0.228	28.2	60.2	782.89	0.53	0.00	0.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.871	178.48	178.49	0.93	0.52	0.81	5.0E-02	120.0	0.232	0.000	0.232	28.1	59.6	767.41	0.52	0.00	0.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
3.937	178.74	178.75	0.94	0.53	0.87	5.0E-02	120.0	0.236	0.000	0.236	28.2	59.3	755.71	0.53	0.00	0.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.003	178.80	178.81	0.93	0.52	0.83	5.0E-02	120.0	0.240	0.000	0.240	28.2	58.8	743.56	0.52	0.00	0.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.068	178.86	178.87	0.93	0.52	0.87	5.0E-02	120.0	0.244	0.000	0.244	28.2	58.4	731.80	0.52	0.00	0.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.134	178.93	178.94	0.94	0.53	0.90	5.0E-02	120.0	0.248	0.000	0.248	28.3	58.0	720.45	0.53	0.00	0.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.199	178.04	178.05	0.93	0.52	0.94	5.0E-02	120.0	0.252	0.000	0.252	28.1	57.3	705.64	0.52	0.00	0.6	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.265	175.36	175.36	0.92	0.53	0.85	5.0E-02	120.0	0.256	0.000	0.256	27.8	56.1	684.26	0.53	0.00	0.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.331	171.27	171.27	0.92	0.54	0.73	5.0E-02	120.0	0.260	0.000	0.260	27.3	54.7	658.14	0.54	0.00	0.9	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.396	168.33	168.34	0.91	0.54	0.71	5.0E-02	120.0	0.264	0.000	0.264	26.9	53.5	637.16	0.54	0.00	1.0	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.462	163.54	163.55	0.92	0.56	1.27	5.0E-02	120.0	0.268	0.000	0.268	26.3	52.0	609.90	0.56	0.00	1.3	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
4.528	159.83	159.84	0.89	0.56	0.96	5.0E-02	120.0	0.272	0.000	0.272	25.8	50.5	587.38	0.56	0.00	1.4	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.593	155.11	155.12	0.87	0.56	0.81	5.0E-02	120.0	0.276	0.000	0.276	25.1	48.9	561.84	0.56	0.00	1.5	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.659	150.12	150.13	0.85	0.57	0.98	5.0E-02	120.0	0.280	0.000	0.280	24.4	47.2	536.10	0.57	0.00	1.7	95.0	50.0	-9999.0	-9999.0	-9999.0	-9999.0
4.724	143.61	143.61	0.84	0.59	0.59	5.0E-02	120.0	0.283	0.000	0.283	23.6	45.2	505.64	0.59	0.00	2.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
4.790	138.82	138.82	0.41	0.30	0.67	5.0E-02	120.0	0.287	0.000	0.287	21.6	41.2	482.03	0.30	0.00	0.1	93.9	48.0	-9999.0	-9999.0	-9999.0	-9999.0
4.856	133.57	133.58	0.44	0.33	0.65	5.0E-02	120.0	0.291	0.000	0.291	21.1	39.9	457.50	0.33	0.00	0.5	92.6	48.0	-9999.0	-9999.0	-9999.0	-9999.0
4.921	129.29	129.30	0.47	0.36	0.67	5.0E-02	120.0	0.295	0.000	0.295	20.6	38.8	436.89	0.37	0.00	1.0	91.5	48.0	-9999.0	-9999.0	-9999.0	-9999.0
4.987	125.33	125.34	0.49	0.39	0.67	5.0E-02	120.0	0.299	0.000	0.299	20.2	37.7	417.90	0.39	0.00	1.3	90.4	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.052	120.35	120.36	0.50	0.42	0.55	5.0E-02	120.0	0.303	0.000	0.303	19.6	36.4	396.02	0.42	0.00	1.7	89.1	48.0	-9999.0	-9999.0	-9999.0	-9999.0
5.118	107.45	107.46	0.50	0.47	1.15	5.0E-02	120.0	0.307	0.000	0.307	17.9	33.0	348.94	0.47	0.00	2.7	85.6	48.0	1.941	208.6	-9999.0	-9999.0
5.184	105.85	105.86	0.50	0.47	0.83	5.0E-02	120.0	0.311	0.000	0.311	17.7	32.4	339.34	0.47	0.00	2.8	85.0	48.0	1.916	202.9	-9999.0	-9999.0
5.249	102.72	102.73	0.50	0.49	0.77	5.0E-02	120.0	0.315	0.000	0.315	17.3	31.5	325.16	0.49	0.00	3.1	84.0	48.0	1.890	194.2	-9999.0	-9999.0
5.315	99.27	99.28	0.50	0.50	0.69	5.0E-02	120.0	0.319	0.000	0.319	16.8	30.4	310.31	0.51	0.00	3.5	82.8	46.0	1.879	186.5	-9999.0	-9999.0
5.381	95.31	95.32	0.49	0.52	0.61	5.0E-02	120.0	0.323	0.000	0.323	16.3	29.3	294.25	0.52	0.00	3.8	81.5	46.0	1.881	179.3	-9999.0	-9999.0
5.446	90.90	90.91	0.48	0.53	0.47	5.0E-03	120.0	0.327	0.000	0.327	15.6	28.0	277.19	0.53	0.00	4.2	80.0	46.0	1.896	172.4	-9999.0	-9999.0
5.512	87.20	87.21	0.45	0.52	0.47	5.0E-03	120.0	0.331	0.000	0.331	15.1	26.8	262.69	0.52	0.00	4.4	78.6	46.0	1.917	167.1	-9999.0	-9999.0
5.577	83.36	83.37	0.46	0.55	0.26	5.0E-03	120.0	0.335	0.000	0.335	14.6	25.7	248.11	0.56	0.00	5.0	77.1	46.0	1.942	161.9	-9999.0	-9999.0
5.643	79.59	79.60	0.43	0.54	0.37	5.0E-03	120.0	0.339	0.000	0.339	14.0	24.5	234.09	0.54	0.00	5.2	75.6	46.0	1.971	156.9	-9999.0	-9999.0
5.709	76.28	76.28	0.41	0.54	0.41	5.0E-03	120.0	0.343	0.000	0.343	13.5	23.5	221.70	0.54	0.00	5.5	74.2	46.0	1.998	152.4	-9999.0	-9999.0
5.774	73.53	73.53	0.36	0.49	0.43	5.0E-03	120.0	0.346	0.000	0.346	12.9	22.5	211.24	0.49	0.00	5.0	73.0	46.0	2.022	148.7	-9999.0	-9999.0
5.840	69.44	69.44	0.48	0.69	0.22	5.0E-03	120.0	0.350	0.000	0.350	12.7	21.9	197.18	0.70	0.00	7.4	71.2	46.0	2.060	143.0	-9999.0	-9999.0
5.905	65.99	65.99	0.54	0.82	0.31	5.0E-03	120.0	0.354	0.000	0.354	12.3	21.2	185.25	0.82	0.00	8.8	69.6	44.0	2.095	138.3	-9999.0	-9999.0
5.971	65.29	65.29	0.48	0.74	0.51	5.0E-03	120.0	0.358	0.000	0.358	12.1	20.7	181.25	0.74	0.00	8.3	69.1	44.0	2.106	137.5	-9999.0	-9999.0
6.037	64.72	64.72	0.41	0.64	0.31	5.0E-03	120.0	0.362	0.000	0.362	11.9	20.2	177.68	0.64	0.00	7.6	68.7	44.0	2.115	136.9	-9999.0	-9999.0
6.102	65.67	65.67	0.40	0.61	0.35	5.0E-03	120.0	0.366	0.000	0.366	12.0	20.2	178.36	0.61	0.00	7.3	69.0	44.0	2.109	138.5	-9999.0	-9999.0
6.168	58.00	58.01	0.41	0.71	0.67	5.0E-03	120.0	0.370	0.000	0.370	10.9	18.3	155.74	0.71	0.00	9.1	65.3	44.0	2.203	127.8	-9999.0	-9999.0
6.234	55.38	55.38	0.39	0.71	-0.08	5.0E-03	120.0	0.374	0.000	0.374	10.5	17.5	147.08	0.71	0.00	9.5	63.8	44.0	2.245	124.3	-9999.0	-9999.0
6.299	55.06	55.07	0.36	0.66	0.24	5.0E-03	120.0	0.378	0.000	0.378	10.4	17.2	144.69	0.66	0.00	9.2	63.5	44.0	2.254	124.1	-9999.0	-9999.0
6.365	53.21	53.21	0.32	0.60	0.24	5.0E-03	120.0	0.382	0.000	0.382	10.0	16.5	138.34	0.61	0.00	9.0	62.4	44.0	2.290	121.8	-9999.0	-9999.0
6.430	50.78	50.79	0.29	0.57	0.20	5.0E-03	120.0	0.386	0.000	0.386	9.6	15.7	130.63	0.58	0.00	9.2	60.9	44.0	2.339	118.8	-9999.0	-9999.0
6.496	49.95	49.95	0.27	0.54	0.20	5.0E-03	120.0	0.390	0.000	0.390	9.4	15.4	127.16	0.55	0.00	9.1	60.3	44.0	2.361	117.9	-9999.0	-9999.0
6.562	48.30	48.30	0.24	0.50	0.20	5.0E-03	120.0	0.394	0.000	0.394	9.1	14.8	121.68	0.50	0.00	9.0	59.2	42.0	2.401	116.0	-9999.0	-9999.0
6.627	47.14	47.15	0.23	0.49	0.24	5.0E-03	120.0	0.398	0.000	0.398	8.9	14.4	117.57	0.49	0.00	5.0	58.3	42.0	2.433	114.7	-9999.0	-9999.0
6.693	45.48	45.48	0.22	0.48	0.24	5.0E-03	120.0	0.402	0.000	0.402	8.6	13.9	112.26	0.49	0.00	5.0	57.1	42.0	2.480	112.8	-9999.0	-9999.0
6.758	44.46	44.46	0.22	0.50	0.14	5.0E-03	120.0	0.406	0.000	0.406	8.5	13.6	108.64	0.50	0.00	9.8	56.4	42.0	2.512	111.7	-9999.0	-9999.0
6.824	43.44	43.44	0.22	0.51	0.26	5.0E-03	120.0	0.409	0.000	0.409	8.3	13.3	105.09	0.51	0.00	10.2	55.6	42.0	2.547	110.6	-9999.0	-9999.0
6.890	42.29	42.29	0.20	0.47	0.22	5.0E-03	120.0	0.413	0.000	0.413	8.1	12.9	101.31	0.48	0.00	5.0	54.7	42.0	2.586	109.4	-9999.0	-9999.0
6.955	41.46	41.46	0.20	0.48	0.16	5.0E-03	120.0	0.417	0.000	0.417	8.0	12.6	98.35	0.49	0.00	5.0	53.9	42.0	2.618	108.6	-9999.0	-9999.0
7.021	40.31	40.31	0.18	0.45	0.20	5.0E-03	120.0	0.421	0.000	0.421	7.7	12.2	94.69	0.45	0.00	5.0	53.0	42.0	2.662	107.3	-9999.0	-9999.0
7.087	39.87	39.87	0.18	0.45	0.10	5.0E-04	120.0	0.425	0.000	0.425	7.7	12.0	92.76	0.46	0.00	5.0	52.6	42.0	2.683	107.0	-9999.0	-9999.0
7.152	40.06	40.06	0.17	0.43	0.37	5.0E-03	120.0	0.429	0.000	0.429	7.7	12.0	92.35	0.43	0.00	5.0	52.6	42.0	2.682	107.5	-9999.0	-9999.0
7.218	38.45	38.46	0.17	0.44	0.31	5.0E-04	120.0	0.433	0.000	0.433	7.4	11.6	87.80	0.45	0.00	5.0	51.3	42.0	2.745	105.6	-9999.0	-9999.0
7.283	37.94	37.94	0.17	0.45	0.26	5.0E-04	120.0	0.437	0.000	0.437	7.4	11.4	85.83	0.45	0.00	5.0	50.7	42.0	2.771	105.1	-9999.0	-9999.0
7.349	37.05	37.05	0.17	0.46	0.24	5.0E-04	120.0	0.441	0.000	0.441	7.2	11.1	83.03	0.47	0.00	5.0	49.9	42.0	2.811	104.2	-9999.0	-9999.0
7.415	36.92	36.92	0.16	0.43	0.31	5.0E-04	120.0	0.445	0.000	0.445	7.2	11.0	81.99	0.44	0.00	5.0	49.7	42.0	2.823	104.2	-9999.0	-9999.0
7.480	36.10	36.10	0.15	0.42	0.31	5.0E-04	120.0	0.449	0.000	0.449	7.0	10.7	79.43	0.42	0.00	5.0	48.9	42.0	2.862	103.3	-9999.0	-9999.0
7.546	35.65	35.65	0.15	0.42	0.39	5.0E-04	120.0	0.453	0.000	0.453	7.0	10.6	77.74	0.43	0.00	5.0	48.4	40.0	2.887	102.9	-9999.0	-9999.0
7.611	35.33	35.33	0.16	0.45	0.28	5.0E-04	120.0	0.457	0.000	0.457	7.0	10.5	76.36	0.46	0.00	5.0	48.1	40.0	2.907	102.7	-9999.0	-9999.0
7.677	35.90	35.90	0.15	0.42	0.41	5.0E-04	120.0	0.461	0.000	0.461	7.0	10.6	76.94	0.42	0.00	5.0	48.4	40.0	2.889	103.7	-9999.0	-9999.0
7.743	35.14	35.14	0.14	0.40	0.22	5.0E-04	120.0	0.465	0.000	0.465	6.9	10.3	74.63	0.40	0.00	5.0	47.7	40.0	2.928	102.9	-9999.0	-9999.0
7.808	35.14	35.14	0.15	0.43	0.26	5.0E-04	120.0	0.469	0.000	0.469	6.9	10.3	74.00	0.43	0.00	5.0	47.5	40.0	2.934	103.1	-9999.0	-9999.0
7.874	35.65	35.65	0.16	0.45	0.39	5.0E-04	120.0	0.472	0.000	0.472	7.0	10.4	74.46	0.46	0.00	5.0	47.8	40.0	2.919	104.1	-9999.0	-9999.0
7.940	35.59	35.59	0.17	0.48	0.35	5.0E-04	120.0	0.476	0.000	0.476	7.1	10.4	73.71	0.49	0.00	5.0	47.7	40.0	2.927	104.2	-9999.0	-9999.0
8.005	35.20	35.20	0.15	0.43	0.31	5.0E-04	120.0	0.480	0.000	0.480	6.9	10.2	72.28	0.43	0.00	5.0	47.2	40.0	2.950	103.8	-9999.0	-9999.0
8.071	35.46	35.46	0.16	0.45	0.18	5.0E-04	120.0	0.484	0.000	0.484	7.0	10.3	72.22	0.46	0.00	5.0	47.3	40.0	2.945	104.4	-9999.0	-9999.0
8.136	36.35	36.35	0.16	0.44	0.24	5.0E-04	120.0	0.488	0.000	0.488	7.2	10.5	73.46	0.45	0.00	5.0	47.9	40.0	2.914	105.9	-9999.0	-9999.0
8.202	38.07	38.07	0.18	0.47	0.22	5.0E-04	120.0	0.492	0.000	0.492	7.5	10.9	76.37	0.48	0.00	5.0	49.1	40.0	2.851	108.6	-9999.0	-9999.0
8.268	41.20	41.20	0.20	0.49	0.24	5.0E-03	120.0	0.496	0.000	0.496	8.0	11.6	82.06	0.49	0.00	5.0	51.3	42.0	2.744	113.0	-9999.0	-9999.0
8.333	46.38	46.38	0.23	0.50	0.22	5.0E-03	120.0	0.500	0.000	0.500	8.9	12.9	91.77	0.50	0.00	10.4	54.6	42.0	2.590	120.1	-9999.0	-9999.0
8.399	55.84	55.84	0.26	0.47	0.22	5.0E-03	120.0	0.504	0.000	0.504	10.4	15.0	109.80	0.47	0.00	5.0	59.8	42.0	2.378	132.8	-9999.0	-9999.0
8.464	66.05	66.05	0.29	0.44	0.22	5.0E-03	120.0	0.508	0.000	0.508	12.0	17.2	129.06	0.44	0.00	5.0	64.5	44.0	2.225	147.0	-9999.0	-9999.0
8.530	75.89	75.90	0.31	0.41	0.37	5.0E-03	120.0	0.512	0.000	0.512	13.5	19.2	147.29	0.41	0.00	5.0	68.3	44.0	2.125	161.3	-9999.0	-9999.0
8.596	82.92	82.93	0.30	0.36	0.37	5.0E-03	120.0	0.516	0.000	0.516	14.4	20.5	159.78	0.36	0.00	4.7	70.8	44.0	2.070	171.6	-9999.0	-9999.0
8.661	90.71	90.71	0.34	0.38	0.33	5.0E-02	120.0	0.520	0.000	0.520	15.6	22.2	173.55	0.38	0.00	4.3	73.2	44.0	2.018	183.1	-9999.0	-9999.0
8.727	98.12	98.12	0.39	0.40	0.45	5.0E-02	120.0	0.524	0.000	0.524	16.8	23.8	186.39	0.40	0.00	4.0	75.4	44.0	1.975	193.8	-9999.0	-9999.0
8.793	103.30	103.31	0.43	0.42	0.57	5.0E-02	120.0	0.528	0.000	0.528	17.7	24.9	194.82	0.42	0.00	3.9	76.8	44.0	1.949	201.4	-9999.0	-9999.0
8.858	108.40	108.41	0.46	0.43	0.51	5.0E-02	120.0	0.532	0.000	0.532	18.5	25.9	202.97	0.43	0.00	3.7	78.0	46.0	1.926	208.8	-9999.0	-9999.0
8.924	109.24	109.25	0.49	0.45	1.31	5.0E-02	120.0	0.535	0.000	0.535	18.7	26.1	203.04	0.45	0.00	3.9	78.1	46.0	1.924	210.2	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
8.989	112.49	112.51	0.52	0.46	1.15	5.0E-02	120.0	0.539	0.000	0.539	19.2	26.8	207.58	0.47	0.00	3.9	78.9	46.0	1.912	215.1	-9999.0	-9999.0
9.055	113.59	113.60	0.54	0.48	1.02	5.0E-02	120.0	0.543	0.000	0.543	19.5	27.0	208.08	0.48	0.00	3.9	79.1	46.0	1.909	216.9	-9999.0	-9999.0
9.121	114.41	114.42	0.56	0.49	0.92	5.0E-02	120.0	0.547	0.000	0.547	19.6	27.1	208.08	0.49	0.00	4.0	79.2	46.0	1.908	218.3	-9999.0	-9999.0
9.186	116.77	116.78	0.57	0.49	0.75	5.0E-02	120.0	0.551	0.000	0.551	20.0	27.5	210.87	0.49	0.00	3.9	79.6	46.0	1.901	222.0	-9999.0	-9999.0
9.252	120.67	120.68	0.60	0.50	0.69	5.0E-02	120.0	0.555	0.000	0.555	20.6	28.3	216.39	0.50	0.00	3.8	80.5	46.0	1.890	228.1	-9999.0	-9999.0
9.317	124.76	124.77	0.60	0.48	0.67	5.0E-02	120.0	0.559	0.000	0.559	21.2	29.0	222.18	0.48	0.00	3.6	81.3	46.0	1.882	234.8	-9999.0	-9999.0
9.383	127.38	127.38	0.61	0.48	0.53	5.0E-02	120.0	0.563	0.000	0.563	21.6	29.4	225.26	0.48	0.00	3.4	81.8	46.0	1.879	239.4	-9999.0	-9999.0
9.449	130.39	130.39	0.60	0.46	0.75	5.0E-02	120.0	0.567	0.000	0.567	22.0	29.8	229.00	0.46	0.00	3.2	82.4	46.0	1.878	244.9	-9999.0	-9999.0
9.514	130.64	130.64	0.60	0.46	0.63	5.0E-02	120.0	0.571	0.000	0.571	22.0	29.8	227.85	0.46	0.00	3.2	82.4	46.0	1.878	245.4	-9999.0	-9999.0
9.580	130.13	130.13	0.62	0.48	0.63	5.0E-02	120.0	0.575	0.000	0.575	22.0	29.7	225.39	0.48	0.00	3.4	82.1	46.0	1.878	244.4	-9999.0	-9999.0
9.646	130.90	130.90	0.66	0.51	0.63	5.0E-02	120.0	0.579	0.000	0.579	22.2	29.9	225.19	0.51	0.00	3.6	82.2	46.0	1.878	245.9	-9999.0	-9999.0
9.711	135.56	135.57	0.68	0.50	0.59	5.0E-02	120.0	0.583	0.000	0.583	22.9	30.7	231.66	0.50	0.00	3.4	83.1	46.0	1.880	254.9	-9999.0	-9999.0
9.777	139.77	139.78	0.53	0.38	0.61	5.0E-02	120.0	0.587	0.000	0.587	23.1	30.8	237.27	0.38	0.00	2.3	83.9	46.0	1.889	264.0	-9999.0	-9999.0
9.842	143.03	143.03	0.58	0.41	0.37	5.0E-02	120.0	0.591	0.000	0.591	23.7	31.5	241.20	0.41	0.00	2.4	84.5	46.0	1.900	271.8	-9999.0	-9999.0
9.908	146.09	146.10	0.62	0.43	0.71	5.0E-02	120.0	0.594	0.000	0.594	24.2	32.1	244.76	0.43	0.00	2.5	85.0	46.0	1.915	279.8	-9999.0	-9999.0
9.974	146.42	146.42	0.66	0.45	0.57	5.0E-02	120.0	0.598	0.000	0.598	24.4	32.2	243.67	0.45	0.00	2.7	84.9	46.0	1.914	280.2	-9999.0	-9999.0
10.039	147.12	147.12	0.66	0.45	0.61	5.0E-02	120.0	0.602	0.000	0.602	24.5	32.2	243.24	0.45	0.00	2.6	85.0	46.0	1.915	281.8	-9999.0	-9999.0
10.105	138.50	138.51	0.69	0.50	1.25	5.0E-02	120.0	0.606	0.000	0.606	23.4	30.7	227.45	0.50	0.00	3.4	83.2	46.0	1.881	260.5	-9999.0	-9999.0
10.170	146.99	146.99	0.71	0.48	0.31	5.0E-02	120.0	0.610	0.000	0.610	24.6	32.2	239.87	0.49	0.00	3.0	84.8	46.0	1.909	280.5	-9999.0	-9999.0
10.236	154.79	154.79	0.73	0.47	0.37	5.0E-02	120.0	0.614	0.000	0.614	25.8	33.6	251.03	0.47	0.00	2.6	86.2	46.0	1.969	304.7	-9999.0	-9999.0
10.302	162.19	162.20	0.77	0.48	0.43	5.0E-02	120.0	0.618	0.000	0.618	26.9	34.9	261.41	0.48	0.00	2.4	87.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.367	171.97	171.97	0.82	0.48	0.55	5.0E-02	120.0	0.622	0.000	0.622	28.3	36.7	275.46	0.48	0.00	2.2	89.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.433	182.12	182.13	0.87	0.48	0.53	5.0E-02	120.0	0.626	0.000	0.626	29.8	38.5	289.94	0.48	0.00	2.0	90.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.499	191.38	191.39	0.92	0.48	0.65	5.0E-02	120.0	0.630	0.000	0.630	31.2	40.2	302.83	0.48	0.00	1.8	91.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.564	199.24	199.25	0.96	0.48	0.63	5.0E-02	120.0	0.634	0.000	0.634	32.4	41.5	313.34	0.48	0.00	1.6	92.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
10.630	208.45	208.45	1.01	0.49	0.75	5.0E-02	120.0	0.638	0.000	0.638	33.7	43.2	325.83	0.49	0.00	1.5	94.2	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.695	218.03	218.04	1.09	0.50	1.00	5.0E-02	120.0	0.642	0.000	0.642	35.2	44.9	338.76	0.50	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.761	228.96	228.97	1.15	0.50	1.00	5.0E-02	120.0	0.646	0.000	0.646	36.8	46.9	353.61	0.50	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.827	236.87	236.89	1.20	0.51	0.98	5.0E-02	120.0	0.650	0.000	0.650	38.0	48.2	363.66	0.51	0.00	1.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.892	241.48	241.49	1.25	0.52	1.19	5.0E-02	120.0	0.654	0.000	0.654	38.8	49.0	368.50	0.52	0.00	1.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
10.958	245.11	245.12	1.30	0.53	0.90	5.0E-02	120.0	0.657	0.000	0.657	39.4	49.7	371.82	0.53	0.00	1.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.023	247.48	247.49	1.33	0.54	0.98	5.0E-02	120.0	0.661	0.000	0.661	39.8	50.0	373.18	0.54	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.089	249.32	249.34	1.37	0.55	1.06	5.0E-02	120.0	0.665	0.000	0.665	40.2	50.3	373.74	0.55	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.155	251.82	251.83	1.42	0.57	0.90	5.0E-02	120.0	0.669	0.000	0.669	40.6	50.8	375.26	0.57	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.220	256.99	257.00	1.48	0.58	1.02	5.0E-02	120.0	0.673	0.000	0.673	41.5	51.7	380.74	0.58	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.286	259.04	259.05	1.51	0.58	1.08	5.0E-02	120.0	0.677	0.000	0.677	41.9	52.0	381.55	0.59	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.352	261.98	261.99	1.53	0.59	1.29	5.0E-02	120.0	0.681	0.000	0.681	42.3	52.4	383.65	0.59	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.417	260.95	260.97	1.55	0.60	1.21	5.0E-02	120.0	0.685	0.000	0.685	42.2	52.1	379.95	0.60	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.483	260.12	260.13	1.54	0.59	1.12	5.0E-02	120.0	0.689	0.000	0.689	42.1	51.8	376.56	0.60	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.548	260.63	260.64	1.56	0.60	1.10	5.0E-02	120.0	0.693	0.000	0.693	42.2	51.9	375.15	0.60	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.614	263.19	263.20	1.59	0.61	1.17	5.0E-02	120.0	0.697	0.000	0.697	42.7	52.2	376.70	0.61	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.680	269.13	269.15	1.64	0.61	1.23	5.0E-02	120.0	0.701	0.000	0.701	43.6	53.2	383.06	0.61	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.745	281.33	281.35	1.68	0.60	1.43	5.0E+00	120.0	0.705	0.000	0.705	45.3	55.1	398.23	0.60	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.811	296.98	297.00	1.75	0.59	1.37	5.0E+00	120.0	0.709	0.000	0.709	47.5	57.7	418.09	0.59	0.00	1.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.876	311.24	311.25	1.14	0.37	1.31	5.0E+00	120.0	0.713	0.000	0.713	47.5	57.5	435.78	0.37	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
11.942	322.28	322.30	1.29	0.40	1.62	5.0E+00	120.0	0.717	0.000	0.717	49.4	59.7	448.80	0.40	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.008	326.37	326.39	1.45	0.45	1.72	5.0E+00	120.0	0.720	0.000	0.720	50.5	60.7	452.02	0.45	0.00	0.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.073	329.31	329.33	1.58	0.48	1.78	5.0E+00	120.0	0.724	0.000	0.724	51.2	61.5	453.61	0.48	0.00	0.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.139	332.89	332.91	1.99	0.60	1.74	5.0E+00	120.0	0.728	0.000	0.728	52.9	63.3	456.07	0.60	0.00	0.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.205	296.03	296.05	1.95	0.66	2.02	5.0E+00	120.0	0.732	0.000	0.732	48.0	57.3	403.28	0.66	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.270	328.93	328.95	2.01	0.61	1.82	5.0E+00	120.0	0.736	0.000	0.736	52.4	62.4	445.80	0.61	0.00	0.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.336	336.66	336.68	2.08	0.62	1.94	5.0E+00	120.0	0.740	0.000	0.740	53.6	63.7	453.87	0.62	0.00	0.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.401	336.66	336.67	2.16	0.64	1.56	5.0E+00	120.0	0.744	0.000	0.744	53.8	63.8	451.46	0.64	0.00	1.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.467	328.23	328.24	2.22	0.67	1.72	5.0E+00	120.0	0.748	0.000	0.748	52.9	62.5	437.81	0.68	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.533	329.76	329.78	2.27	0.69	1.43	5.0E+00	120.0	0.752	0.000	0.752	53.2	62.7	437.54	0.69	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.598	327.58	327.60	2.29	0.70	1.70	5.0E+00	120.0	0.756	0.000	0.756	53.0	62.3	432.39	0.70	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.664	324.97	324.99	2.29	0.70	1.54	5.0E+00	120.0	0.760	0.000	0.760	52.7	61.7	426.70	0.70	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.730	322.09	322.11	2.27	0.70	1.60	5.0E+00	120.0	0.764	0.000	0.764	52.3	61.1	420.73	0.71	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.795	317.36	317.38	2.25	0.71	1.56	5.0E+00	120.0	0.768	0.000	0.768	51.6	60.2	412.40	0.71	0.00	1.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.861	311.30	311.31	2.27	0.73	1.48	5.0E-02	120.0	0.772	0.000	0.772	50.9	59.2	402.43	0.73	0.00	1.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.926	305.80	305.82	2.26	0.74	1.50	5.0E-02	120.0	0.776	0.000	0.776	50.1	58.2	393.30	0.74	0.00	2.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
12.992	300.05	300.06	2.23	0.74	1.45	5.0E-02	120.0	0.780	0.000	0.780	49.3	57.1	383.93	0.74	0.00	2.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.058	294.36	294.38	2.20	0.75	1.37	5.0E-02	120.0	0.783	0.000	0.783	48.5	56.0	374.74	0.75	0.00	2.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.123	287.60	287.61	2.15	0.75	1.35	5.0E-02	120.0	0.787	0.000	0.787	47.5	54.7	364.26	0.75	0.00	2.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.189	280.76	280.77	2.11	0.75	1.10	5.0E-02	120.0	0.791	0.000	0.791	46.5	53.4	353.80	0.75	0.00	2.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.254	274.69	274.70	2.04	0.74	1.35	5.0E-02	120.0	0.795	0.000	0.795	45.6	52.2	344.41	0.75	0.00	2.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.320	268.56	268.58	1.99	0.74	1.29	5.0E-02	120.0	0.799	0.000	0.799	44.6	51.0	335.05	0.74	0.00	2.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
13.386	260.76	260.78	1.95	0.75	1.15	5.0E-02	120.0	0.803	0.000	0.803	43.5	49.6	323.69	0.75	0.00	2.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
13.451	252.65	252.67	1.90	0.75	1.23	5.0E-02	120.0	0.807	0.000	0.807	42.3	48.1	312.06	0.76	0.00	2.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.517	243.26	243.28	1.82	0.75	1.37	5.0E-02	120.0	0.811	0.000	0.811	40.9	46.4	298.96	0.75	0.00	3.1	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.583	232.14	232.16	1.75	0.76	1.37	5.0E-02	120.0	0.815	0.000	0.815	39.2	44.4	283.87	0.76	0.00	3.3	93.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.648	221.67	221.68	1.66	0.75	1.19	5.0E-02	120.0	0.819	0.000	0.819	37.6	42.5	269.70	0.75	0.00	3.5	92.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.714	212.35	212.36	1.58	0.75	1.13	5.0E-02	120.0	0.823	0.000	0.823	36.2	40.8	257.08	0.75	0.00	3.7	91.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.779	207.87	207.89	1.47	0.71	1.29	5.0E-02	120.0	0.827	0.000	0.827	35.3	39.7	250.44	0.71	0.00	3.6	90.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.845	204.62	204.63	1.39	0.68	1.08	5.0E-02	120.0	0.831	0.000	0.831	34.7	38.9	245.33	0.68	0.00	3.5	89.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.911	205.19	205.20	1.34	0.65	1.19	5.0E-02	120.0	0.835	0.000	0.835	34.7	38.8	244.85	0.66	0.00	3.3	89.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
13.976	205.95	205.96	1.31	0.64	1.15	5.0E-02	120.0	0.839	0.000	0.839	34.7	38.7	244.60	0.64	0.00	3.2	89.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.042	205.06	205.07	1.28	0.63	1.17	5.0E-02	120.0	0.843	0.000	0.843	34.5	38.4	242.40	0.63	0.00	3.1	89.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.107	201.93	201.94	1.27	0.63	1.31	5.0E-02	120.0	0.846	0.000	0.846	34.1	37.9	237.57	0.63	0.00	3.3	89.2	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.173	198.35	198.37	1.23	0.62	1.37	5.0E-02	120.0	0.850	0.000	0.850	33.5	37.1	232.26	0.62	0.00	3.3	88.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.239	196.76	196.77	1.20	0.61	1.43	5.0E-02	120.0	0.854	0.000	0.854	33.2	36.7	229.32	0.61	0.00	3.3	88.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.304	199.75	199.77	1.18	0.59	1.58	5.0E-02	120.0	0.858	0.000	0.858	33.6	37.0	231.76	0.59	0.00	3.1	88.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.370	206.53	206.55	1.17	0.57	1.74	5.0E-02	120.0	0.862	0.000	0.862	34.5	37.9	238.56	0.57	0.00	2.8	89.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.436	214.96	214.98	1.20	0.56	1.54	5.0E-02	120.0	0.866	0.000	0.866	35.7	39.2	247.20	0.56	0.00	2.5	90.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.501	223.65	223.67	1.24	0.56	1.58	5.0E-02	120.0	0.870	0.000	0.870	37.0	40.5	256.07	0.56	0.00	2.3	91.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.567	236.55	236.57	1.33	0.56	1.60	5.0E-02	120.0	0.874	0.000	0.874	38.9	42.6	269.67	0.57	0.00	2.2	93.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.632	248.43	248.45	1.36	0.55	1.50	5.0E-02	120.0	0.878	0.000	0.878	40.6	44.3	281.98	0.55	0.00	1.9	94.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.698	259.68	259.70	1.42	0.55	1.56	5.0E-02	120.0	0.882	0.000	0.882	42.2	46.0	293.47	0.55	0.00	1.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.764	269.00	269.02	1.08	0.40	1.17	5.0E+00	120.0	0.886	0.000	0.886	42.4	46.1	302.68	0.40	0.00	0.6	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.829	278.40	278.41	1.20	0.43	1.62	5.0E+00	120.0	0.890	0.000	0.890	44.0	47.7	311.90	0.43	0.00	0.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
14.895	289.19	289.21	1.35	0.47	1.80	5.0E+00	120.0	0.894	0.000	0.894	45.9	49.6	322.61	0.47	0.00	0.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
14.960	296.41	296.43	1.50	0.51	1.62	5.0E+00	120.0	0.898	0.000	0.898	47.3	51.0	329.23	0.51	0.00	1.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.026	297.18	297.20	1.83	0.62	1.78	5.0E+00	120.0	0.902	0.000	0.902	48.3	52.0	328.64	0.62	0.00	1.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.092	279.61	279.64	1.86	0.67	2.84	5.0E-02	120.0	0.906	0.000	0.906	46.1	49.5	307.82	0.67	0.00	2.2	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.157	291.56	291.58	1.91	0.66	2.31	5.0E-02	120.0	0.909	0.000	0.909	47.8	51.2	319.61	0.66	0.00	2.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.223	298.32	298.35	1.96	0.66	2.27	5.0E+00	120.0	0.913	0.000	0.913	48.8	52.2	325.64	0.66	0.00	1.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.289	294.36	294.39	2.00	0.68	2.72	5.0E-02	120.0	0.917	0.000	0.917	48.4	51.6	319.92	0.68	0.00	2.1	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
15.354	298.71	298.73	2.08	0.69	1.72	5.0E-02	120.0	0.921	0.000	0.921	49.2	52.3	323.26	0.70	0.00	2.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.420	303.31	303.32	2.09	0.69	1.50	5.0E-02	120.0	0.925	0.000	0.925	49.8	52.9	326.84	0.69	0.00	2.1	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.485	308.04	308.05	2.05	0.67	1.60	5.0E+00	120.0	0.929	0.000	0.929	50.4	53.4	330.55	0.67	0.00	1.9	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.551	315.58	315.60	2.04	0.65	1.80	5.0E+00	120.0	0.933	0.000	0.933	51.3	54.3	337.23	0.65	0.00	1.7	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.617	322.60	322.62	2.05	0.64	1.76	5.0E+00	120.0	0.937	0.000	0.937	52.3	55.2	343.31	0.64	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.682	331.80	331.82	2.09	0.63	1.84	5.0E+00	120.0	0.941	0.000	0.941	53.6	56.4	351.65	0.63	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.748	339.40	339.44	2.13	0.63	3.46	5.0E+00	120.0	0.945	0.000	0.945	54.7	57.5	358.24	0.63	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.813	343.87	343.91	2.17	0.63	3.70	5.0E+00	120.0	0.949	0.000	0.949	55.4	58.1	361.46	0.63	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.879	348.28	348.32	2.27	0.65	3.27	5.0E+00	120.0	0.953	0.000	0.953	56.2	58.9	364.59	0.65	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
15.945	353.59	353.62	2.28	0.64	2.90	5.0E+00	120.0	0.957	0.000	0.957	56.9	59.5	368.62	0.65	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.010	358.38	358.41	2.32	0.65	2.51	5.0E+00	120.0	0.961	0.000	0.961	57.7	60.1	372.09	0.65	0.00	1.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.076	359.97	360.00	2.40	0.67	2.51	5.0E+00	120.0	0.965	0.000	0.965	58.1	60.4	372.22	0.67	0.00	1.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.142	360.68	360.69	2.46	0.68	1.02	5.0E+00	120.0	0.969	0.000	0.969	58.3	60.6	371.41	0.68	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.207	363.29	363.30	2.52	0.69	1.04	5.0E+00	120.0	0.972	0.000	0.972	58.8	61.0	372.59	0.69	0.00	1.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.273	364.25	364.27	2.59	0.71	1.33	5.0E+00	120.0	0.976	0.000	0.976	59.1	61.2	372.08	0.71	0.00	1.6	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.338	362.91	362.93	2.65	0.73	1.58	5.0E+00	120.0	0.980	0.000	0.980	59.1	61.0	369.21	0.73	0.00	1.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.404	361.76	361.77	2.69	0.74	1.52	5.0E+00	120.0	0.984	0.000	0.984	59.1	60.8	366.56	0.74	0.00	1.8	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.470	355.82	355.84	2.71	0.76	1.56	5.0E+00	120.0	0.988	0.000	0.988	58.4	60.0	359.09	0.76	0.00	2.0	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.535	351.35	351.37	2.73	0.78	1.88	5.0E+00	120.0	0.992	0.000	0.992	57.8	59.3	353.16	0.78	0.00	2.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.601	346.11	346.13	2.67	0.77	1.78	5.0E+00	120.0	0.996	0.000	0.996	57.0	58.4	346.49	0.77	0.00	2.2	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.666	340.17	340.17	2.66	0.78	0.87	5.0E-02	120.0	1.000	0.000	1.000	56.2	57.4	339.17	0.78	0.00	2.3	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.732	334.99	335.00	2.65	0.79	1.08	5.0E-02	120.0	1.004	0.000	1.004	55.5	56.6	332.69	0.79	0.00	2.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.798	332.83	332.84	2.61	0.78	1.21	5.0E-02	120.0	1.008	0.000	1.008	55.1	56.1	329.24	0.79	0.00	2.4	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.863	327.84	327.85	2.57	0.78	1.33	5.0E-02	120.0	1.012	0.000	1.012	54.4	55.2	323.02	0.79	0.00	2.5	95.0	48.0	-9999.0	-9999.0	-9999.0	-9999.0
16.929	320.24	320.25	2.53	0.79	1.45	5.0E-02	120.0	1.016	0.000	1.016	53.3	54.0	314.28	0.79	0.00	2.6	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
16.995	313.40	313.42	2.47	0.79	1.58	5.0E-02	120.0	1.020	0.000	1.020	52.2	52.9	306.36	0.79	0.00	2.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.060	308.61	308.62	2.43	0.79	0.65	5.0E-02	120.0	1.024	0.000	1.024	51.5	52.0	300.49	0.79	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.126	303.25	303.25	2.37	0.78	0.81	5.0E-02	120.0	1.028	0.000	1.028	50.7	51.1	294.12	0.78	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.191	299.42	299.43	2.32	0.77	1.12	5.0E-02	120.0	1.032	0.000	1.032	50.1	50.4	289.28	0.78	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.257	294.23	294.25	2.27	0.77	1.27	5.0E-02	120.0	1.035	0.000	1.035	49.3	49.5	283.17	0.77	0.00	2.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.323	291.18	291.19	2.22	0.76	1.29	5.0E-02	120.0	1.039	0.000	1.039	48.8	48.9	279.16	0.76	0.00	2.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.388	289.13	289.14	2.18	0.75	0.96	5.0E-02	120.0	1.043	0.000	1.043	48.4	48.4	276.14	0.76	0.00	2.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.454	287.72	287.73	2.12	0.74	0.90	5.0E-02	120.0	1.047	0.000	1.047	48.1	48.0	273.74	0.74	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.519	286.38	286.39	2.11	0.74	0.67	5.0E-02	120.0	1.051	0.000	1.051	47.9	47.7	271.44	0.74	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.585	286.64	286.65	2.05	0.72	1.04	5.0E-02	120.0	1.055	0.000	1.055	47.8	47.6	270.67	0.72	0.00	2.7	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.651	285.42	285.43	2.04	0.72	1.13	5.0E-02	120.0	1.059	0.000	1.059	47.6	47.3	268.52	0.72	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.716	284.34	284.35	2.07	0.73	1.17	5.0E-02	120.0	1.063	0.000	1.063	47.5	47.1	266.50	0.73	0.00	2.8	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.782	283.38	283.39	2.07	0.73	1.19	5.0E-02	120.0	1.067	0.000	1.067	47.4	46.9	264.61	0.73	0.00	2.9	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.848	278.91	278.92	2.05	0.74	1.39	5.0E-02	120.0	1.071	0.000	1.071	46.8	46.2	259.46	0.74	0.00	3.0	95.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
17.913	272.39	272.41	2.02	0.74	1.37	5.0E-02	120.0	1.075	0.000	1.075	45.9	45.2	252.44	0.75	0.00	3.2	94.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
17.979	266.07	266.08	2.00	0.75	1.25	5.0E-02	120.0	1.079	0.000	1.079	45.0	44.3	245.65	0.76	0.00	3.3	93.6	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.044	261.72	261.74	1.97	0.75	1.35	5.0E-02	120.0	1.083	0.000	1.083	44.3	43.5	240.75	0.76	0.00	3.4	93.1	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.110	258.34	258.35	1.94	0.75	1.50	5.0E-02	120.0	1.087	0.000	1.087	43.8	43.0	236.76	0.76	0.00	3.5	92.7	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.176	255.65	255.67	1.91	0.75	1.41	5.0E-02	120.0	1.091	0.000	1.091	43.4	42.5	233.43	0.75	0.00	3.5	92.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.241	252.14	252.16	1.87	0.74	1.33	5.0E-02	120.0	1.095	0.000	1.095	42.8	41.8	229.38	0.75	0.00	3.6	91.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.307	248.81	248.83	1.87	0.75	1.27	5.0E-02	120.0	1.098	0.000	1.098	42.4	41.3	225.53	0.76	0.00	3.7	91.4	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.372	245.17	245.19	1.84	0.75	1.29	5.0E-02	120.0	1.102	0.000	1.102	41.8	40.7	221.42	0.76	0.00	3.8	91.0	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.438	241.54	241.55	1.38	0.57	1.39	5.0E-02	120.0	1.106	0.000	1.106	40.2	39.1	217.34	0.58	0.00	2.7	90.5	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.504	237.00	237.02	1.42	0.60	1.31	5.0E-02	120.0	1.110	0.000	1.110	39.7	38.5	212.48	0.60	0.00	2.9	89.9	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.569	232.46	232.48	1.49	0.64	1.25	5.0E-02	120.0	1.114	0.000	1.114	39.3	38.0	207.65	0.65	0.00	3.3	89.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.635	228.63	228.64	1.52	0.67	0.57	5.0E-02	120.0	1.118	0.000	1.118	38.9	37.6	203.49	0.67	0.00	3.6	88.8	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.701	225.12	225.12	1.56	0.69	0.73	5.0E-02	120.0	1.122	0.000	1.122	38.5	37.1	199.63	0.70	0.00	3.9	88.3	46.0	-9999.0	-9999.0	-9999.0	-9999.0
18.766	212.02	212.04	1.56	0.74	1.64	5.0E-02	120.0	1.126	0.000	1.126	36.7	35.3	187.31	0.74	0.00	4.5	86.5	44.0	2.016	427.6	-9999.0	-9999.0
18.832	214.58	214.60	1.56	0.73	1.33	5.0E-02	120.0	1.130	0.000	1.130	37.1	35.6	188.92	0.73	0.00	4.3	86.8	44.0	2.038	437.3	-9999.0	-9999.0
18.897	216.69	216.70	1.57	0.73	1.17	5.0E-02	120.0	1.134	0.000	1.134	37.4	35.9	190.11	0.73	0.00	4.3	87.0	44.0	2.056	445.6	-9999.0	-9999.0
18.963	217.26	217.27	1.60	0.74	0.87	5.0E-02	120.0	1.138	0.000	1.138	37.5	36.0	189.95	0.74	0.00	4.4	87.0	44.0	2.059	447.3	-9999.0	-9999.0
19.029	216.82	216.83	1.60	0.74	0.85	5.0E-02	120.0	1.142	0.000	1.142	37.5	35.8	188.91	0.74	0.00	4.4	86.9	44.0	2.050	444.5	-9999.0	-9999.0
19.094	214.77	214.78	1.60	0.75	0.92	5.0E-02	120.0	1.146	0.000	1.146	37.2	35.5	186.47	0.75	0.00	4.5	86.6	44.0	2.026	435.2	-9999.0	-9999.0
19.160	212.47	212.47	1.60	0.75	0.65	5.0E-02	120.0	1.150	0.000	1.150	36.9	35.2	183.82	0.76	0.00	4.6	86.3	44.0	2.003	425.6	-9999.0	-9999.0
19.225	210.17	210.18	1.58	0.75	0.81	5.0E-02	120.0	1.154	0.000	1.154	36.5	34.8	181.20	0.76	0.00	4.7	85.9	44.0	1.983	416.9	-9999.0	-9999.0
19.291	209.21	209.22	1.58	0.76	0.83	5.0E-02	120.0	1.157	0.000	1.157	36.4	34.6	179.75	0.76	0.00	4.7	85.7	44.0	1.975	413.2	-9999.0	-9999.0
19.357	207.10	207.11	1.55	0.75	0.65	5.0E-02	120.0	1.161	0.000	1.161	36.1	34.2	177.32	0.75	0.00	4.7	85.4	44.0	1.961	406.1	-9999.0	-9999.0
19.422	205.76	205.77	1.49	0.73	0.90	5.0E-02	120.0	1.165	0.000	1.165	35.7	33.8	175.57	0.73	0.00	4.6	85.1	44.0	1.953	401.8	-9999.0	-9999.0
19.488	201.67	201.68	1.46	0.73	0.98	5.0E-02	120.0	1.169	0.000	1.169	35.1	33.2	171.48	0.73	0.00	4.7	84.5	44.0	1.936	390.4	-9999.0	-9999.0
19.554	193.31	193.32	1.42	0.74	0.61	5.0E-02	120.0	1.173	0.000	1.173	33.9	32.0	163.77	0.74	0.00	5.1	83.3	44.0	1.919	371.0	-9999.0	-9999.0
19.619	186.85	186.86	1.33	0.71	0.57	5.0E-02	120.0	1.177	0.000	1.177	32.8	30.9	157.73	0.72	0.00	5.1	82.2	44.0	1.919	358.6	-9999.0	-9999.0
19.685	181.30	181.31	1.17	0.65	0.55	5.0E-02	120.0	1.181	0.000	1.181	31.6	29.7	152.50	0.65	0.00	4.8	81.3	44.0	1.927	349.3	-9999.0	-9999.0
19.750	173.57	173.58	0.41	0.24	0.69	5.0E-02	120.0	1.185	0.000	1.185	28.2	26.5	145.47	0.24	0.00	1.6	80.0	44.0	1.944	337.5	-9999.0	-9999.0
19.816	162.84	162.84	0.40	0.25	0.61	5.0E-02	120.0	1.189	0.000	1.189	26.7	25.0	135.96	0.25	0.00	2.1	78.2	44.0	1.979	322.3	-9999.0	-9999.0
19.882	147.95	147.95	0.44	0.30	0.43	5.0E-02	120.0	1.193	0.000	1.193	24.9	23.3	123.03	0.30	0.00	3.1	75.4	42.0	2.039	301.7	-9999.0	-9999.0
19.947	133.38	133.39	0.48	0.36	0.37	5.0E-02	120.0	1.197	0.000	1.197	23.0	21.5	110.45	0.36	0.00	4.3	72.3	42.0	2.107	281.0	-9999.0	-9999.0
20.013	121.89	121.89	0.49	0.40	0.35	5.0E-02	120.0	1.201	0.000	1.201	21.5	20.0	100.51	0.41	0.00	5.0	69.7	42.0	2.168	264.3	-9999.0	-9999.0
20.078	104.12	104.13	0.48	0.46	0.96	5.0E-02	120.0	1.205	0.000	1.205	18.9	17.6	85.44	0.47	0.00	5.0	65.1	42.0	2.288	238.2	-9999.0	-9999.0
20.144	101.07	101.07	0.45	0.45	0.59	5.0E-02	120.0	1.209	0.000	1.209	18.4	17.1	82.62	0.45	0.00	5.0	64.2	42.0	2.315	234.0	-9999.0	-9999.0
20.210	98.95	98.95	0.41	0.42	0.31	5.0E-02	120.0	1.213	0.000	1.213	18.0	16.7	80.60	0.42	0.00	5.0	63.6	42.0	2.336	231.1	-9999.0	-9999.0
20.275	95.31	95.31	0.38	0.40	0.08	5.0E-02	120.0	1.217	0.000	1.217	17.3	16.1	77.35	0.40	0.00	5.0	62.5	40.0	2.372	226.1	-9999.0	-9999.0
20.341	90.33	90.33	0.38	0.42	-0.08	5.0E-02	120.0	1.220	0.000	1.220	16.6	15.4	73.01	0.43	0.00	5.0	60.9	40.0	2.427	219.2	-9999.0	-9999.0
20.407	86.43	86.43	0.38	0.44	-0.26	5.0E-03	120.0	1.224	0.000	1.224	16.1	14.8	69.59	0.45	0.00	5.0	59.6	40.0	2.476	214.0	-9999.0	-9999.0
20.472	84.06	84.06	0.37	0.44	-0.45	5.0E-03	120.0	1.228	0.000	1.228	15.7	14.5	67.43	0.45	0.00	5.0	58.7	40.0	2.509	210.9	-9999.0	-9999.0
20.538	82.92	82.92	0.36	0.44	-0.26	5.0E-03	120.0	1.232	0.000	1.232	15.5	14.3	66.29	0.44	0.00	5.0	58.3	40.0	2.527	209.5	-9999.0	-9999.0
20.603	84.00	84.00	0.36	0.43	-0.43	5.0E-03	120.0	1.236	0.000	1.236	15.6	14.4	66.95	0.44	0.00	5.0	58.6	40.0	2.515	211.2	-9999.0	-9999.0
20.669	86.43	86.42	0.36	0.42	-0.57	5.0E-02	120.0	1.240	0.000	1.240	16.0	14.7	68.69	0.42	0.00	5.0	59.4	40.0	2.486	214.8	-9999.0	-9999.0
20.735	94.10	94.09	0.38	0.40	-0.37	5.0E-02	120.0	1.244	0.000	1.244	17.2	15.7	74.63	0.41	0.00	5.0	61.8	40.0	2.401	225.9	-9999.0	-9999.0
20.800	105.08	105.08	0.40	0.38	-0.26	5.0E-02	120.0	1.248	0.000	1.248	18.8	17.2	83.20	0.39	0.00	5.0	64.9	42.0	2.303	242.0	-9999.0	-9999.0
20.866	113.32	113.32	0.44	0.39	-0.33	5.0E-02	120.0	1.252	0.000	1.252	20.1	18.4	89.51	0.39	0.00	5.0	67.0	42.0	2.245	254.4	-9999.0	-9999.0
20.932	121.43	121.43	0.48	0.40	-0.22	5.0E-02	120.0	1.256	0.000	1.256	21.4	19.5	95.69	0.40	0.00	5.0	69.0	42.0	2.196	266.7	-9999.0	-9999.0
20.997	128.59	128.59	0.53	0.41	-0.22	5.0E-02	120.0	1.260	0.000	1.260	22.6	20.6	101.07	0.42	0.00	5.0	70.6	42.0	2.159	277.6	-9999.0	-9999.0
21.063	137.02	137.02	0.57	0.42	-0.12	5.0E-02	120.0	1.264	0.000	1.264	23.9	21.7	107.42	0.42	0.00	4.8	72.3	42.0	2.118	290.3	-9999.0	-9999.0
21.128	143.61	143.61	0.60	0.42	-0.22	5.0E-02	120.0	1.268	0.000	1.268	24.9	22.6	112.28	0.42	0.00	4.6	73.6	42.0	2.090	300.1	-9999.0	-9999.0
21.194	148.59	148.59	0.62	0.42	-0.16	5.0E-02	120.0	1.272	0.000	1.272	25.7	23.3	115.85	0.42	0.00	4.4	74.6	42.0	2.069	307.5	-9999.0	-9999.0
21.260	152.29	152.29	0.66	0.43	-0.06	5.0E-02	120.0	1.276	0.000	1.276	26.3	23.8	118.39	0.44	0.00	4.4	75.2	42.0	2.055	313.0	-9999.0	-9999.0
21.325	155.43	155.43	0.68	0.44	0.18	5.0E-02	120.0	1.280	0.000	1.280	26.8	24.2	120.47	0.44	0.00	4.3	75.8	42.0	2.044	317.6	-9999.0	-9999.0
21.391	158.36	158.36	0.67	0.42	-0.04	5.0E-02	120.0	1.283	0.000	1.283	27.2	24.5	122.39	0.43	0.00	4.1	76.3	42.0	2.033	322.0	-9999.0	-9999.0
21.456	161.94	161.94	0.66	0.41	0.12	5.0E-02	120.0	1.287	0.000	1.287	27.7	24.9	124.79	0.41	0.00	3.8	76.9	42.0	2.021	327.2	-9999.0	-9999.0
21.522	165.13	165.13	0.64	0.39	0.12	5.0E-02	120.0	1.291	0.000	1.291	28.0	25.2	126.87	0.39	0.00	3.5	77.4	44.0	2.010	331.9	-9999.0	-9999.0
21.588	169.99	169.99	0.66	0.39	0.12	5.0E-02	120.0	1.295	0.000	1.295	28.8	25.8	130.24	0.39	0.00	3.4	78.2	44.0	1.994	338.9	-9999.0	-9999.0
21.653	176.44	176.44	0.65	0.37	0.20	5.0E-02	120.0	1.299	0.000	1.299	29.6	26.6	134.80	0.37	0.00	3.0	79.2	44.0	1.974	348.2	-9999.0	-9999.0
21.719	178.67	178.67	0.65	0.36	-0.02	5.0E-02	120.0	1.303	0.000	1.303	29.9	26.8	136.11	0.37	0.00	2.9	79.5	44.0	1.968	351.7	-9999.0	-9999.0
21.785	176.51	176.51	0.56	0.32	0.20	5.0E-02	120.0	1.307	0.000	1.307	29.3	26.2	134.04	0.32	0.00	2.6	79.1	44.0	1.976	348.8	-9999.0	-9999.0
21.850	176.83	176.83	0.55	0.31	0.31	5.0E-02	120.0	1.311	0.000	1.311	29.3	26.2	133.88	0.31	0.00	2.5	79.1	44.0	1.977	349.5	-9999.0	-9999.0
21.916	179.83	179.83	0.58	0.32	0.20	5.0E-02	120.0	1.315	0.000	1.315	29.9	26.6	135.75	0.33	0.00	2.5	79.6	44.0	1.969	354.0	-9999.0	-9999.0
21.981	185.38	185.38	0.60	0.32	0.26	5.0E-02	120.0	1.319	0.000	1.319	30.7	27.3	139.56	0.33	0.00	2.4	80.4	44.0	1.955	362.4	-9999.0	-9999.0
22.047	184.36	184.36	0.65	0.35	0.16	5.0E-02	120.0	1.323	0.000	1.323	30.7	27.3	138.36	0.36	0.00	2.7	80.2	44.0	1.959	361.1	-9999.0	-9999.0
22.113	190.30	190.30	0.68	0.36	-0.10	5.0E-02	120.0	1.327	0.000	1.327	31.6	28.1	142.43	0.36	0.00	2.6	81.0	44.0	1.946	370.4	-9999.0	-9999.0
22.178	192.48	192.48	0.70	0.36	-0.16	5.0E-02	120.0	1.331	0.000	1.331	32.0	28.3	143.64	0.37	0.00	2.6	81.3	44.0	1.943	374.0	-9999.0	-9999.0
22.244	191.64	191.64	0.73	0.38	-0.06	5.0E-02	120.0	1.335	0.000	1.335	32.0	28.3	142.59	0.38	0.00	2.8	81.2	44.0	1.946	372.9	-9999.0	-9999.0
22.309	188.07	188.07	0.74	0.39	-0.06	5.0E-02	120.0	1.339	0.000	1.339	31.5	27.9	139.49	0.40	0.00	3.0	80.6	44.0	1.954	367.5	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
22.375	185.32	185.32	0.76	0.41	-0.04	5.0E-02	120.0	1.343	0.000	1.343	31.2	27.6	137.04	0.41	0.00	3.2	80.1	44.0	1.962	363.6	-9999.0	-9999.0
22.441	183.21	183.21	0.76	0.42	-0.08	5.0E-02	120.0	1.346	0.000	1.346	31.0	27.3	135.07	0.42	0.00	3.3	79.7	44.0	1.969	360.8	-9999.0	-9999.0
22.506	180.91	180.91	0.76	0.42	0.14	5.0E-02	120.0	1.350	0.000	1.350	30.7	27.0	132.97	0.42	0.00	3.4	79.3	44.0	1.977	357.7	-9999.0	-9999.0
22.572	177.53	177.53	0.75	0.42	-0.04	5.0E-02	120.0	1.354	0.000	1.354	30.2	26.5	130.08	0.43	0.00	3.6	78.8	44.0	1.989	353.1	-9999.0	-9999.0
22.638	175.93	175.93	0.75	0.43	0.10	5.0E-02	120.0	1.358	0.000	1.358	30.0	26.3	128.52	0.43	0.00	3.7	78.5	44.0	1.996	351.1	-9999.0	-9999.0
22.703	173.50	173.50	0.74	0.43	0.20	5.0E-02	120.0	1.362	0.000	1.362	29.6	25.9	126.37	0.43	0.00	3.8	78.0	44.0	2.006	348.0	-9999.0	-9999.0
22.769	171.65	171.65	0.72	0.42	0.14	5.0E-02	120.0	1.366	0.000	1.366	29.3	25.6	124.64	0.42	0.00	3.8	77.7	42.0	2.014	345.7	-9999.0	-9999.0
22.834	169.54	169.55	0.70	0.41	0.37	5.0E-02	120.0	1.370	0.000	1.370	28.9	25.3	122.75	0.42	0.00	3.8	77.3	42.0	2.023	343.0	-9999.0	-9999.0
22.900	163.79	163.79	0.68	0.42	0.39	5.0E-02	120.0	1.374	0.000	1.374	28.1	24.5	118.20	0.42	0.00	4.0	76.2	42.0	2.047	335.3	-9999.0	-9999.0
22.966	157.85	157.86	0.66	0.42	0.20	5.0E-02	120.0	1.378	0.000	1.378	27.2	23.7	113.56	0.42	0.00	4.3	75.1	42.0	2.073	327.2	-9999.0	-9999.0
23.031	149.16	149.17	0.63	0.42	0.39	5.0E-02	120.0	1.382	0.000	1.382	25.9	22.5	106.94	0.43	0.00	4.7	73.5	42.0	2.112	315.0	-9999.0	-9999.0
23.097	137.60	137.61	0.59	0.43	0.31	5.0E-02	120.0	1.386	0.000	1.386	24.2	21.0	98.29	0.43	0.00	5.0	71.1	42.0	2.167	298.2	-9999.0	-9999.0
23.162	126.68	126.68	0.53	0.42	0.37	5.0E-02	120.0	1.390	0.000	1.390	22.5	19.5	90.15	0.42	0.00	5.0	68.7	42.0	2.227	282.1	-9999.0	-9999.0
23.228	116.33	116.33	0.50	0.43	0.24	5.0E-02	120.0	1.394	0.000	1.394	20.9	18.1	82.47	0.44	0.00	5.0	66.2	42.0	2.293	266.7	-9999.0	-9999.0
23.294	108.09	108.10	0.47	0.44	0.33	5.0E-02	120.0	1.398	0.000	1.398	19.6	17.0	76.34	0.44	0.00	5.0	64.1	40.0	2.356	254.7	-9999.0	-9999.0
23.359	101.07	101.07	0.46	0.46	0.63	5.0E-02	120.0	1.402	0.000	1.402	18.6	16.1	71.11	0.46	0.00	5.0	62.1	40.0	2.420	244.6	-9999.0	-9999.0
23.425	95.12	95.12	0.42	0.44	0.24	5.0E-02	120.0	1.406	0.000	1.406	17.6	15.2	66.68	0.45	0.00	5.0	60.3	40.0	2.484	236.3	-9999.0	-9999.0
23.491	90.71	90.71	0.40	0.44	0.33	5.0E-02	120.0	1.409	0.000	1.409	16.9	14.6	63.36	0.45	0.00	5.0	58.9	40.0	2.537	230.2	-9999.0	-9999.0
23.556	87.83	87.84	0.38	0.43	0.43	5.0E-02	120.0	1.413	0.000	1.413	16.4	14.1	61.15	0.44	0.00	5.0	58.0	40.0	2.577	226.3	-9999.0	-9999.0
23.622	84.38	84.39	0.35	0.42	0.35	5.0E-03	120.0	1.417	0.000	1.417	15.8	13.6	58.54	0.42	0.00	5.0	56.8	40.0	2.627	221.7	-9999.0	-9999.0
23.687	80.94	80.94	0.35	0.43	0.33	5.0E-03	120.0	1.421	0.000	1.421	15.3	13.1	55.95	0.44	0.00	5.0	55.6	40.0	2.682	217.1	-9999.0	-9999.0
23.753	78.32	78.32	0.34	0.44	0.31	5.0E-03	120.0	1.425	0.000	1.425	14.9	12.7	53.96	0.44	0.00	5.0	54.6	40.0	2.727	213.6	-9999.0	-9999.0
23.819	75.50	75.51	0.33	0.44	0.43	5.0E-03	120.0	1.429	0.000	1.429	14.4	12.3	51.83	0.45	0.00	5.0	53.5	38.0	2.779	209.8	-9999.0	-9999.0
23.884	73.08	73.08	0.32	0.44	0.35	5.0E-03	120.0	1.433	0.000	1.433	14.1	12.0	50.00	0.45	0.00	5.0	52.5	38.0	2.827	206.6	-9999.0	-9999.0
23.950	70.27	70.27	0.31	0.44	0.33	5.0E-03	120.0	1.437	0.000	1.437	13.6	11.6	47.90	0.45	0.00	5.0	51.3	38.0	2.885	202.8	-9999.0	-9999.0
24.015	67.84	67.85	0.30	0.44	0.31	5.0E-03	120.0	1.441	0.000	1.441	13.2	11.2	46.09	0.45	0.00	5.0	50.3	38.0	2.940	199.5	-9999.0	-9999.0
24.081	66.05	66.06	0.29	0.44	0.45	5.0E-03	120.0	1.445	0.000	1.445	12.9	11.0	44.72	0.45	0.00	5.0	49.5	38.0	2.983	197.0	-9999.0	-9999.0
24.147	62.98	62.98	0.29	0.46	0.16	5.0E-03	120.0	1.449	0.000	1.449	12.4	10.6	42.47	0.47	0.00	5.0	48.1	38.0	3.058	192.6	-9999.0	-9999.0
24.212	61.65	61.65	0.28	0.46	0.43	5.0E-03	120.0	1.453	0.000	1.453	12.2	10.3	41.44	0.47	0.00	5.0	47.4	38.0	3.094	190.8	-9999.0	-9999.0
24.278	59.34	59.35	0.27	0.46	0.31	5.0E-03	120.0	1.457	0.000	1.457	11.8	10.0	39.74	0.47	0.00	5.0	46.3	38.0	3.157	187.4	-9999.0	-9999.0
24.344	57.43	57.43	0.27	0.47	0.47	5.0E-03	120.0	1.461	0.000	1.461	11.5	9.7	38.32	0.48	0.00	5.0	45.3	38.0	3.213	184.5	-9999.0	-9999.0
24.409	54.68	54.69	0.26	0.48	0.35	5.0E-03	120.0	1.465	0.000	1.465	11.1	9.3	36.34	0.49	0.00	5.0	43.9	38.0	3.295	180.2	-9999.0	-9999.0
24.475	50.66	50.67	0.29	0.57	0.37	5.0E-03	120.0	1.469	0.000	1.469	10.5	8.9	33.50	0.59	0.00	16.0	41.7	36.0	3.423	173.4	-9999.0	-9999.0
24.540	46.25	46.25	0.33	0.72	0.14	5.0E-04	120.0	1.472	0.000	1.472	9.9	8.4	30.41	0.74	0.00	18.6	39.0	36.0	3.577	165.4	-9999.0	-9999.0
24.606	41.90	41.90	0.40	0.96	0.22	5.0E-04	120.0	1.476	0.000	1.476	9.4	7.9	27.38	0.99	0.00	22.2	36.1	36.0	3.743	156.8	-9999.0	-9999.0
24.672	36.92	36.92	0.49	1.33	0.26	5.0E-04	120.0	1.480	0.000	1.480	8.8	7.4	23.94	1.39	0.00	27.1	32.5	34.0	-9999.0	-9999.0	-9999.0	-9999.0
24.737	31.94	31.94	0.33	1.04	0.10	5.0E-04	120.0	1.484	0.000	1.484	7.6	6.3	20.52	1.09	0.00	27.0	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
24.803	26.19	26.19	0.39	1.49	0.00	5.0E-05	120.0	1.488	0.000	1.488	7.0	4.6	16.60	1.58	0.00	38.4	30.0	32.0	-9999.0	-9999.0	1.647	5.3
24.868	21.72	21.72	0.48	2.21	0.16	5.0E-05	120.0	1.492	0.000	1.492	6.4	4.1	13.56	2.38	0.00	47.8	30.0	32.0	-9999.0	-9999.0	1.349	3.9
24.934	17.63	17.63	0.55	3.13	0.06	5.0E-06	120.0	1.496	0.000	1.496	5.7	3.7	10.79	3.42	0.00	58.6	-9999.0	-9999.0	-9999.0	-9999.0	1.076	2.8
25.000	15.27	15.27	0.58	3.81	0.26	5.0E-07	120.0	1.500	0.000	1.500	5.3	3.3	9.18	4.22	0.00	66.4	-9999.0	-9999.0	-9999.0	-9999.0	0.918	2.3
25.065	13.92	13.94	0.52	3.74	1.35	5.0E-07	120.0	1.504	0.000	1.504	5.0	3.1	8.27	4.19	0.01	69.0	-9999.0	-9999.0	-9999.0	-9999.0	0.829	2.0
25.131	13.29	13.30	0.49	3.69	0.69	5.0E-07	120.0	1.508	0.000	1.508	4.8	3.0	7.82	4.17	0.00	70.4	-9999.0	-9999.0	-9999.0	-9999.0	0.786	1.8
25.197	12.52	12.53	0.51	4.08	0.55	5.0E-08	120.0	1.512	0.000	1.512	4.7	2.9	7.29	4.64	0.00	74.4	-9999.0	-9999.0	-9999.0	-9999.0	0.734	1.7
25.262	12.84	12.85	0.50	3.90	0.55	5.0E-08	120.0	1.516	0.000	1.516	4.7	2.9	7.48	4.42	0.00	72.8	-9999.0	-9999.0	-9999.0	-9999.0	0.755	1.7
25.328	17.88	17.89	0.45	2.52	0.90	5.0E-06	120.0	1.520	0.000	1.520	5.6	3.5	10.77	2.76	0.00	55.1	-9999.0	-9999.0	-9999.0	-9999.0	1.092	2.8
25.393	22.68	22.69	0.38	1.68	1.23	5.0E-05	120.0	1.524	0.000	1.524	6.4	4.1	13.89	1.80	0.00	43.5	30.0	32.0	-9999.0	-9999.0	1.411	4.1
25.459	22.87	22.89	0.36	1.58	2.09	5.0E-05	120.0	1.528	0.000	1.528	6.4	4.1	13.98	1.69	0.01	42.5	30.0	32.0	-9999.0	-9999.0	1.424	4.1
25.525	21.65	21.68	0.34	1.57	2.90	5.0E-05	120.0	1.532	0.000	1.532	6.1	3.9	13.16	1.69	0.01	43.8	30.0	30.0	-9999.0	-9999.0	1.343	3.7
25.590	20.32	20.36	0.40	1.97	3.50	5.0E-05	120.0	1.535	0.000	1.535	6.0	3.8	12.26	2.13	0.01	48.4	30.0	30.0	-9999.0	-9999.0	1.255	3.4
25.656	19.04	19.08	0.37	1.94	3.85	5.0E-05	120.0	1.539	0.000	1.539	5.7	3.6	11.39	2.11	0.02	49.9	30.0	30.0	-9999.0	-9999.0	1.169	3.0
25.721	20.89	20.95	0.40	1.91	5.27	5.0E-05	120.0	1.543	0.000	1.543	6.1	3.8	12.57	2.07	0.02	47.4	30.0	30.0	-9999.0	-9999.0	1.294	3.5
25.787	29.51	29.58	0.54	1.83	6.22	5.0E-05	120.0	1.547	0.000	1.547	8.0	5.1	18.12	1.93	0.02	39.2	30.0	32.0	-9999.0	-9999.0	1.869	6.1
25.853	59.09	59.18	0.74	1.25	7.98	5.0E-04	120.0	1.551	0.000	1.551	13.0	10.7	37.15	1.29	0.01	20.4	45.3	38.0	3.234	191.4	-9999.0	-9999.0
25.918	94.61	94.71	0.93	0.98	8.85	5.0E-03	120.0	1.555	0.000	1.555	19.0	15.5	59.90	1.00	0.01	13.3	58.8	40.0	2.574	243.8	-9999.0	-9999.0
25.984	106.17	106.25	1.05	0.99	7.68	5.0E-03	120.0	1.559	0.000	1.559	21.0	17.2	67.15	1.01	0.01	12.2	62.0	40.0	2.455	260.8	-9999.0	-9999.0
26.050	100.80	100.86	1.11	1.10	5.57	5.0E-03	120.0	1.563	0.000	1.563	20.3	16.6	63.53	1.12	0.00	13.5	60.5	40.0	2.510	253.1	-9999.0	-9999.0
26.115	91.29	91.35	1.02	1.12	4.98	5.0E-03	120.0	1.567	0.000	1.567	18.6	15.2	57.30	1.14	0.00	14.6	57.6	40.0	2.623	239.6	-9999.0	-9999.0
26.181	79.40	79.45	0.79	1.00	4.23	5.0E-03	120.0	1.571	0.000	1.571	16.3	13.3	49.58	1.02	0.00	15.2	53.6	38.0	2.805	222.8	-9999.0	-9999.0
26.246	69.57	69.61	0.56	0.81	3.95	5.0E-03	120.0	1.575	0.000	1.575	14.3	11.6	43.20	0.83	0.00	15.0	49.8	38.0	2.998	208.7	-9999.0	-9999.0
26.312	62.03	62.07	0.37	0.60	3.68	5.0E-03	120.0	1.579	0.000	1.579	12.6	10.3	38.32	0.61	0.00	14.3	46.4	38.0	3.179	197.3	-9999.0	-9999.0
26.378	54.55	54.59	0.25	0.46	3.10	5.0E-03	120.0	1.583	0.000	1.583	11.1	9.0	33.49	0.47	0.00	5.0	42.7	36.0	3.390	185.0	-9999.0	-9999.0
26.443	46.31	46.34	0.22	0.48	2.55	5.0E-03	120.0	1.587	0.000	1.587	9.7	7.9	28.21	0.49	0.00	5.0	38.0	36.0	3.665	169.8	-9999.0	-9999.0
26.509	40.06	40.08	0.21	0.53	2.21	5.0E-04	120.0	1.591	0.000	1.591	8.6	7.0	24.20	0.55	0.00	18.9	33.8	34.0	3.907	156.6	-9999.0	-9999.0
26.574	34.05	34.07	0.22	0.65	1.88	5.0E-04	120.0	1.595	0.000	1.595	7.7	6.2	20.37	0.68	0.00	22.6	30.0	34.0	-9999.0	-9999.0	-9999.0	-9999.0
26.640	27.34	27.35	0.28	1.03	1.64	5.0E-04	120.0	1.598	0.000	1.598	6.7	5.4	16.11	1.09	0.00	30.0	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
26.706	21.21	21.22	0.23	1.09	1.17	5.0E-05	120.0	1.602	0.000	1.602	5.8	3.5	12.25	1.18	0.00	40.9	30.0	30.0	-9999.0	-9999.0	1.308	3.4
26.771	15.97	15.98	0.17	1.07	0.90	5.0E-05	120.0	1.606	0.000	1.606	4.7	2.7	8.95	1.19	0.00	47.8	30.0	30.0	-9999.0	-9999.0	0.958	2.2

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
26.837	12.78	12.79	0.14	1.10	0.87	5.0E-05	120.0	1.610	0.000	1.610	4.0	2.3	6.94	1.26	0.01	54.6	30.0	30.0	-9999.0	-9999.0	0.745	1.6
26.903	10.48	10.48	0.12	1.15	0.65	5.0E-06	120.0	1.614	0.000	1.614	3.5	1.9	5.49	1.36	0.01	61.7	-9999.0	-9999.0	-9999.0	-9999.0	0.591	1.2
26.968	8.62	8.63	0.12	1.39	0.63	5.0E-06	120.0	1.618	0.000	1.618	3.2	1.7	4.33	1.72	0.01	71.8	-9999.0	-9999.0	-9999.0	-9999.0	0.467	1.0
27.034	7.73	7.74	0.12	1.55	0.87	5.0E-06	120.0	1.622	0.000	1.622	3.0	1.5	3.77	1.97	0.01	78.2	-9999.0	-9999.0	-9999.0	-9999.0	0.408	0.9
27.099	7.73	7.74	0.14	1.81	0.92	5.0E-06	120.0	1.626	0.000	1.626	3.1	1.6	3.76	2.30	0.01	80.9	-9999.0	-9999.0	-9999.0	-9999.0	0.408	0.9
27.165	7.99	8.00	0.16	2.00	1.00	5.0E-06	120.0	1.630	0.000	1.630	3.2	1.6	3.91	2.52	0.01	81.3	-9999.0	-9999.0	-9999.0	-9999.0	0.425	0.9
27.231	7.48	7.49	0.19	2.54	1.12	5.0E-07	120.0	1.634	0.000	1.634	3.2	1.6	3.58	3.25	0.01	88.9	-9999.0	-9999.0	-9999.0	-9999.0	0.390	0.8
27.296	8.69	8.70	0.24	2.76	1.23	5.0E-07	120.0	1.638	0.000	1.638	3.6	1.8	4.31	3.40	0.01	83.8	-9999.0	-9999.0	-9999.0	-9999.0	0.471	1.0
27.362	9.26	9.28	0.28	3.02	1.52	5.0E-07	120.0	1.642	0.000	1.642	3.8	2.0	4.65	3.68	0.01	83.0	-9999.0	-9999.0	-9999.0	-9999.0	0.509	1.0
27.427	10.09	10.11	0.34	3.37	1.84	5.0E-07	120.0	1.646	0.000	1.646	4.1	2.2	5.15	4.02	0.02	81.7	-9999.0	-9999.0	-9999.0	-9999.0	0.565	1.1
27.493	8.94	8.96	0.38	4.25	1.92	5.0E-08	120.0	1.650	0.000	1.650	3.9	2.0	4.43	5.21	0.02	91.8	-9999.0	-9999.0	-9999.0	-9999.0	0.488	1.0
27.559	9.07	9.09	0.43	4.74	2.11	5.0E-08	120.0	1.654	0.000	1.654	4.1	2.1	4.50	5.79	0.02	93.8	-9999.0	-9999.0	-9999.0	-9999.0	0.496	1.0
27.624	9.52	9.55	0.45	4.72	2.45	5.0E-08	120.0	1.657	0.000	1.657	4.2	2.2	4.76	5.72	0.02	91.6	-9999.0	-9999.0	-9999.0	-9999.0	0.526	1.1
27.690	9.26	9.29	0.46	4.96	2.59	5.0E-08	120.0	1.661	0.000	1.661	4.2	2.2	4.59	6.04	0.02	94.1	-9999.0	-9999.0	-9999.0	-9999.0	0.509	1.0
27.756	8.43	8.46	0.47	5.57	2.59	5.0E-08	120.0	1.665	0.000	1.665	4.1	2.1	4.08	6.94	0.03	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.453	0.9
27.821	8.24	8.27	0.47	5.70	2.63	5.0E-08	120.0	1.669	0.000	1.669	4.1	2.0	3.95	7.14	0.03	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.440	0.9
27.887	7.41	7.44	0.43	5.80	2.72	5.0E-08	120.0	1.673	0.000	1.673	3.9	1.9	3.44	7.48	0.03	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.384	0.8
27.952	7.41	7.44	0.41	5.52	2.90	5.0E-08	120.0	1.677	0.000	1.677	3.8	1.8	3.44	7.13	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.384	0.8
28.018	7.60	7.63	0.39	5.12	3.00	5.0E-08	120.0	1.681	0.000	1.681	3.8	1.8	3.54	6.57	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.397	0.8
28.084	7.28	7.31	0.36	4.94	3.02	5.0E-08	120.0	1.685	0.000	1.685	3.7	1.8	3.34	6.42	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.375	0.8
28.149	7.79	7.83	0.34	4.36	3.35	5.0E-08	120.0	1.689	0.000	1.689	3.7	1.8	3.63	5.55	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.409	0.8
28.215	7.92	7.96	0.33	4.16	3.33	5.0E-08	120.0	1.693	0.000	1.693	3.7	1.8	3.70	5.28	0.04	98.2	-9999.0	-9999.0	-9999.0	-9999.0	0.417	0.8
28.280	7.41	7.44	0.29	3.91	3.20	5.0E-08	120.0	1.697	0.000	1.697	3.6	1.7	3.39	5.06	0.04	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.383	0.8
28.346	7.79	7.82	0.26	3.33	3.33	5.0E-08	120.0	1.701	0.000	1.701	3.5	1.7	3.60	4.26	0.04	94.3	-9999.0	-9999.0	-9999.0	-9999.0	0.408	0.8
28.412	8.69	8.73	0.26	2.99	3.70	5.0E-07	120.0	1.705	0.000	1.705	3.7	1.8	4.12	3.71	0.04	87.0	-9999.0	-9999.0	-9999.0	-9999.0	0.468	0.9
28.477	8.56	8.60	0.26	3.03	3.80	5.0E-07	120.0	1.709	0.000	1.709	3.7	1.8	4.03	3.78	0.04	88.1	-9999.0	-9999.0	-9999.0	-9999.0	0.460	0.9
28.543	8.11	8.15	0.30	3.69	3.87	5.0E-08	120.0	1.713	0.000	1.713	3.7	1.8	3.76	4.67	0.04	94.9	-9999.0	-9999.0	-9999.0	-9999.0	0.429	0.9
28.609	7.54	7.58	0.35	4.63	4.01	5.0E-08	120.0	1.717	0.000	1.717	3.7	1.8	3.42	5.98	0.05	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.391	0.8
28.674	7.09	7.13	0.35	4.92	3.83	5.0E-08	120.0	1.720	0.000	1.720	3.7	1.7	3.14	6.49	0.05	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.361	0.8
28.740	7.86	7.96	0.36	4.54	8.91	5.0E-08	120.0	1.724	0.000	1.724	3.8	1.8	3.61	5.79	0.10	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.415	0.8
28.805	7.28	7.37	0.36	4.89	8.93	5.0E-08	120.0	1.728	0.000	1.728	3.8	1.7	3.27	6.39	0.11	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.376	0.8
28.871	6.65	6.74	0.36	5.35	8.91	5.0E-08	120.0	1.732	0.000	1.732	3.7	1.7	2.89	7.20	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.334	0.7
28.937	6.00	6.11	0.34	5.58	9.42	5.0E-08	120.0	1.736	0.000	1.736	3.6	1.6	2.52	7.80	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.291	0.7
29.002	6.58	6.68	0.33	4.95	9.73	5.0E-08	120.0	1.740	0.000	1.740	3.6	1.6	2.84	6.70	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.329	0.7
29.068	6.71	6.82	0.29	4.27	10.12	5.0E-08	120.0	1.744	0.000	1.744	3.5	1.6	2.91	5.73	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.338	0.7
29.134	6.13	6.25	0.26	4.17	10.29	5.0E-08	120.0	1.748	0.000	1.748	3.4	1.5	2.57	5.79	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.300	0.7
29.199	6.71	6.82	0.26	3.82	10.51	5.0E-08	120.0	1.752	0.000	1.752	3.4	1.5	2.89	5.14	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.338	0.7
29.265	6.58	6.69	0.27	4.04	10.75	5.0E-08	120.0	1.756	0.000	1.756	3.5	1.5	2.81	5.48	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.329	0.7
29.330	6.97	7.09	0.29	4.10	11.02	5.0E-08	120.0	1.760	0.000	1.760	3.6	1.6	3.03	5.46	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.355	0.7
29.396	6.33	6.45	0.30	4.67	11.18	5.0E-08	120.0	1.764	0.000	1.764	3.6	1.5	2.65	6.42	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.312	0.7
29.462	5.75	5.88	0.30	5.12	11.24	5.0E-08	120.0	1.768	0.000	1.768	3.5	1.5	2.32	7.32	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.274	0.6
29.527	6.06	6.19	0.29	4.70	11.38	5.0E-08	120.0	1.772	0.000	1.772	3.5	1.5	2.49	6.58	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.294	0.7
29.593	5.87	6.00	0.28	4.68	11.53	5.0E-08	120.0	1.776	0.000	1.776	3.5	1.4	2.38	6.65	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.282	0.6
29.658	6.27	6.39	0.25	3.92	11.99	5.0E-08	120.0	1.780	0.000	1.780	3.4	1.4	2.59	5.43	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.308	0.7
29.724	6.00	6.14	0.23	3.76	12.12	5.0E-08	120.0	1.783	0.000	1.783	3.3	1.4	2.44	5.30	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.290	0.6
29.790	5.49	5.62	0.26	4.63	12.03	5.0E-08	120.0	1.787	0.000	1.787	3.4	1.4	2.15	6.79	0.23	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.256	0.6
29.855	5.81	5.95	0.30	5.06	12.33	5.0E-08	120.0	1.791	0.000	1.791	3.6	1.5	2.32	7.24	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.277	0.6
29.921	5.11	5.25	0.27	5.16	12.31	5.0E-08	120.0	1.795	0.000	1.795	3.5	1.3	1.92	7.84	0.26	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.230	0.6
29.987	5.36	5.50	0.25	4.56	12.61	5.0E-08	120.0	1.799	0.000	1.799	3.4	1.3	2.06	6.77	0.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.247	0.6
30.052	6.39	6.53	0.21	3.23	12.94	5.0E-08	120.0	1.803	0.000	1.803	3.3	1.4	2.62	4.46	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.315	0.7
30.118	11.12	11.18	0.18	1.61	6.28	5.0E-06	120.0	1.807	0.000	1.807	4.0	1.9	5.19	1.92	0.05	68.3	-9999.0	-9999.0	-9999.0	-9999.0	0.625	1.1
30.183	9.71	9.79	0.18	1.84	6.87	5.0E-06	120.0	1.811	0.000	1.811	3.7	1.7	4.40	2.26	0.06	75.8	-9999.0	-9999.0	-9999.0	-9999.0	0.532	1.0
30.249	8.05	8.13	0.19	2.34	7.60	5.0E-07	120.0	1.815	0.000	1.815	3.5	1.6	3.48	3.02	0.09	88.4	-9999.0	-9999.0	-9999.0	-9999.0	0.421	0.8
30.315	6.58	6.67	0.22	3.31	8.30	5.0E-08	120.0	1.819	0.000	1.819	3.4	1.4	2.66	4.55	0.12	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.323	0.7
30.380	6.06	6.17	0.24	3.90	9.64	5.0E-08	120.0	1.823	0.000	1.823	3.4	1.4	2.38	5.54	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.290	0.6
30.446	5.94	6.06	0.27	4.47	10.83	5.0E-08	120.0	1.827	0.000	1.827	3.5	1.4	2.32	6.39	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.282	0.6
30.511	6.13	6.26	0.26	4.17	11.28	5.0E-08	120.0	1.831	0.000	1.831	3.5	1.4	2.42	5.89	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.295	0.6
30.577	5.94	6.08	0.24	3.96	12.10	5.0E-08	120.0	1.835	0.000	1.835	3.4	1.4	2.31	5.67	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.283	0.6
30.643	6.00	6.14	0.26	4.24	12.53	5.0E-08	120.0	1.839	0.000	1.839	3.5	1.4	2.34	6.06	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.287	0.6
30.708	6.20	6.34	0.29	4.59	13.45	5.0E-08	120.0	1.843	0.000	1.843	3.6	1.5	2.44	6.46	0.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.300	0.6
30.774	6.78	6.93	0.27	3.90	14.47	5.0E-08	120.0	1.846	0.000	1.846	3.6	1.5	2.75	5.32	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.339	0.7
30.840	7.09	7.25	0.27	3.73	15.05	5.0E-08	120.0	1.850	0.000	1.850	3.6	1.5	2.92	5.01	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.360	0.7
30.905	7.73	7.90	0.30	3.81	16.00	5.0E-08	120.0	1.854	0.000	1.854	3.8	1.6	3.26	4.97	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.403	0.8
30.971	8.11	8.29	0.34	4.11	16.71	5.0E-08	120.0	1.858	0.000	1.858	4.0	1.7	3.46	5.30	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.429	0.8
31.036	9.07	9.26	0.39	4.22	17.84	5.0E-08	120.0	1.862	0.000	1.862	4.2	1.9	3.98	5.28	0.17	95.7	-9999.0	-9999.0	-9999.0	-9999.0	0.494	0.9
31.102	9.13	9.33	0.43	4.62	17.86	5.0E-08	120.0	1.866	0.000	1.866	4.3	1.9	4.00	5.78	0.17	97.6	-9999.0	-9999.0	-9999.0	-9999.0	0.497	0.9
31.168	9.20	9.39	0.47	5.02	17.66	5.0E-08	120.0	1.870	0.000	1.870	4.4	2.0	4.02	6.26	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.502	0.9
31.233	10.09	10.28	0.52	5.07	17.44	5.0E-08	120.0	1.874	0.000	1.874	4.7	2.1	4.49	6.20	0.15	95.4	-9999.0	-9999.0	-9999.0	-9999.0	0.561	1.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
31.299	9.64	9.83	0.57	5.81	17.05	5.0E-08	120.0	1.878	0.000	1.878	4.7	2.1	4.23	7.19	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.530	0.9
31.364	9.77	9.95	0.60	6.04	16.69	5.0E-08	120.0	1.882	0.000	1.882	4.8	2.2	4.29	7.45	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.538	1.0
31.430	9.90	10.08	0.61	6.06	16.69	5.0E-08	120.0	1.886	0.000	1.886	4.8	2.2	4.35	7.46	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.547	1.0
31.496	10.15	10.34	0.62	6.01	16.93	5.0E-08	120.0	1.890	0.000	1.890	4.9	2.2	4.47	7.36	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.563	1.0
31.561	9.96	10.15	0.62	6.13	16.85	5.0E-08	120.0	1.894	0.000	1.894	4.9	2.2	4.36	7.53	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.550	1.0
31.627	10.22	10.41	0.62	5.97	17.03	5.0E-08	120.0	1.898	0.000	1.898	4.9	2.2	4.49	7.30	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.567	1.0
31.693	10.35	10.53	0.66	6.28	16.83	5.0E-08	120.0	1.902	0.000	1.902	5.0	2.3	4.54	7.67	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.575	1.0
31.758	9.71	9.90	0.67	6.79	16.83	5.0E-08	120.0	1.906	0.000	1.906	5.0	2.2	4.19	8.41	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.533	0.9
31.824	9.83	10.01	0.68	6.81	16.75	5.0E-08	120.0	1.909	0.000	1.909	5.0	2.2	4.24	8.41	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.540	0.9
31.889	10.54	10.71	0.67	6.27	16.57	5.0E-08	120.0	1.913	0.000	1.913	5.1	2.3	4.60	7.63	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.587	1.0
31.955	10.22	10.40	0.64	6.17	16.21	5.0E-08	120.0	1.917	0.000	1.917	5.0	2.2	4.42	7.56	0.14	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.566	1.0
32.021	9.90	10.06	0.63	6.28	14.45	5.0E-08	120.0	1.921	0.000	1.921	4.9	2.2	4.24	7.76	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.543	0.9
32.086	10.03	10.20	0.61	6.00	15.09	5.0E-08	120.0	1.925	0.000	1.925	4.9	2.2	4.30	7.39	0.13	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.551	1.0
32.152	10.42	10.59	0.60	5.68	16.08	5.0E-08	120.0	1.929	0.000	1.929	5.0	2.2	4.49	6.95	0.13	98.1	-9999.0	-9999.0	-9999.0	-9999.0	0.577	1.0
32.217	10.03	10.22	0.59	5.79	16.83	5.0E-08	120.0	1.933	0.000	1.933	4.9	2.1	4.28	7.14	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.552	1.0
32.283	10.54	10.73	0.57	5.33	17.70	5.0E-08	120.0	1.937	0.000	1.937	4.9	2.2	4.54	6.50	0.15	96.2	-9999.0	-9999.0	-9999.0	-9999.0	0.586	1.0
32.349	10.15	10.35	0.57	5.52	17.95	5.0E-08	120.0	1.941	0.000	1.941	4.9	2.1	4.33	6.80	0.15	98.8	-9999.0	-9999.0	-9999.0	-9999.0	0.561	1.0
32.414	10.09	10.29	0.55	5.36	18.09	5.0E-08	120.0	1.945	0.000	1.945	4.8	2.1	4.29	6.61	0.16	98.4	-9999.0	-9999.0	-9999.0	-9999.0	0.556	1.0
32.480	10.28	10.48	0.54	5.16	18.19	5.0E-08	120.0	1.949	0.000	1.949	4.8	2.1	4.38	6.34	0.15	96.8	-9999.0	-9999.0	-9999.0	-9999.0	0.569	1.0
32.546	9.45	9.65	0.55	5.71	18.05	5.0E-08	120.0	1.953	0.000	1.953	4.7	2.0	3.94	7.16	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.513	0.9
32.611	10.03	10.23	0.54	5.29	18.21	5.0E-08	120.0	1.957	0.000	1.957	4.8	2.1	4.23	6.54	0.16	98.7	-9999.0	-9999.0	-9999.0	-9999.0	0.552	0.9
32.677	9.39	9.59	0.53	5.54	18.27	5.0E-08	120.0	1.961	0.000	1.961	4.7	2.0	3.89	6.96	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.509	0.9
32.742	9.64	9.85	0.53	5.40	18.80	5.0E-08	120.0	1.965	0.000	1.965	4.7	2.0	4.01	6.74	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.525	0.9
32.808	10.03	10.24	0.54	5.29	18.96	5.0E-08	120.0	1.969	0.000	1.969	4.8	2.1	4.20	6.55	0.17	98.9	-9999.0	-9999.0	-9999.0	-9999.0	0.551	0.9
32.874	10.48	10.68	0.55	5.16	19.24	5.0E-08	120.0	1.972	0.000	1.972	4.9	2.1	4.42	6.33	0.16	96.4	-9999.0	-9999.0	-9999.0	-9999.0	0.581	1.0
32.939	9.83	10.04	0.56	5.59	19.18	5.0E-08	120.0	1.976	0.000	1.976	4.8	2.1	4.08	6.96	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.538	0.9
33.005	10.03	10.24	0.57	5.58	18.74	5.0E-08	120.0	1.980	0.000	1.980	4.9	2.1	4.17	6.92	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.550	0.9
33.070	10.15	10.35	0.56	5.42	18.19	5.0E-08	120.0	1.984	0.000	1.984	4.9	2.1	4.22	6.71	0.16	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.558	0.9
33.136	10.67	10.86	0.57	5.26	18.01	5.0E-08	120.0	1.988	0.000	1.988	5.0	2.1	4.46	6.44	0.15	96.5	-9999.0	-9999.0	-9999.0	-9999.0	0.591	1.0
33.202	10.09	10.29	0.57	5.55	17.76	5.0E-08	120.0	1.992	0.000	1.992	4.9	2.1	4.16	6.89	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.553	0.9
33.267	10.09	10.29	0.58	5.65	17.78	5.0E-08	120.0	1.996	0.000	1.996	4.9	2.1	4.15	7.01	0.15	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.553	0.9
33.333	9.13	9.32	0.56	6.02	17.56	5.0E-08	120.0	2.000	0.000	2.000	4.8	2.0	3.66	7.67	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.488	0.8
33.399	9.20	9.39	0.55	5.87	17.42	5.0E-08	120.0	2.004	0.000	2.004	4.8	2.0	3.69	7.46	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.492	0.8
33.464	9.07	9.26	0.54	5.85	17.50	5.0E-08	120.0	2.008	0.000	2.008	4.7	1.9	3.61	7.46	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.484	0.8
33.530	9.26	9.45	0.54	5.73	17.82	5.0E-08	120.0	2.012	0.000	2.012	4.8	1.9	3.70	7.27	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.496	0.8
33.595	9.32	9.52	0.53	5.58	18.19	5.0E-08	120.0	2.016	0.000	2.016	4.8	1.9	3.72	7.08	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.500	0.9
33.661	9.07	9.27	0.52	5.62	18.35	5.0E-08	120.0	2.020	0.000	2.020	4.7	1.9	3.59	7.19	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.483	0.8
33.727	8.81	9.01	0.51	5.68	18.03	5.0E-08	120.0	2.024	0.000	2.024	4.7	1.9	3.45	7.32	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.466	0.8
33.792	8.88	9.07	0.49	5.42	17.50	5.0E-08	120.0	2.028	0.000	2.028	4.6	1.8	3.47	6.97	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.470	0.8
33.858	8.30	8.49	0.49	5.79	17.19	5.0E-08	120.0	2.032	0.000	2.032	4.6	1.8	3.18	7.61	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.430	0.8
33.923	8.30	8.49	0.48	5.67	17.62	5.0E-08	120.0	2.035	0.000	2.035	4.5	1.8	3.17	7.45	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.430	0.8
33.989	8.81	9.01	0.48	5.34	18.05	5.0E-08	120.0	2.039	0.000	2.039	4.6	1.8	3.42	6.91	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.464	0.8
34.055	8.75	8.95	0.47	5.27	18.23	5.0E-08	120.0	2.043	0.000	2.043	4.6	1.8	3.38	6.82	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.460	0.8
34.120	8.81	9.01	0.45	5.01	18.47	5.0E-08	120.0	2.047	0.000	2.047	4.5	1.8	3.40	6.48	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.464	0.8
34.186	9.77	9.97	0.44	4.42	18.56	5.0E-08	120.0	2.051	0.000	2.051	4.7	1.9	3.86	5.57	0.17	97.9	-9999.0	-9999.0	-9999.0	-9999.0	0.528	0.9
34.252	9.13	9.33	0.43	4.62	18.64	5.0E-08	120.0	2.055	0.000	2.055	4.5	1.8	3.54	5.92	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.485	0.8
34.317	9.01	9.21	0.44	4.79	18.17	5.0E-08	120.0	2.059	0.000	2.059	4.6	1.8	3.47	6.17	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.477	0.8
34.383	9.26	9.46	0.46	4.87	18.56	5.0E-08	120.0	2.063	0.000	2.063	4.6	1.8	3.59	6.23	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.493	0.8
34.448	9.32	9.53	0.47	4.95	18.97	5.0E-08	120.0	2.067	0.000	2.067	4.7	1.9	3.61	6.32	0.18	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.497	0.8
34.514	9.83	10.04	0.47	4.69	19.05	5.0E-08	120.0	2.071	0.000	2.071	4.8	1.9	3.85	5.91	0.17	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.531	0.9
34.580	8.94	9.15	0.46	5.04	19.03	5.0E-08	120.0	2.075	0.000	2.075	4.6	1.8	3.41	6.52	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.472	0.8
34.645	8.69	8.90	0.47	5.29	19.18	5.0E-08	120.0	2.079	0.000	2.079	4.6	1.8	3.28	6.91	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.455	0.8
34.711	9.07	9.28	0.48	5.18	19.42	5.0E-08	120.0	2.083	0.000	2.083	4.7	1.8	3.46	6.68	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.480	0.8
34.776	9.39	9.61	0.53	5.53	19.73	5.0E-08	120.0	2.087	0.000	2.087	4.8	1.9	3.60	7.07	0.19	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.501	0.8
34.842	9.07	9.29	0.51	5.50	19.95	5.0E-08	120.0	2.091	0.000	2.091	4.8	1.8	3.44	7.10	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.480	0.8
34.908	8.81	9.03	0.50	5.55	20.28	5.0E-08	120.0	2.095	0.000	2.095	4.7	1.8	3.31	7.23	0.21	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.462	0.8
34.973	9.13	9.35	0.48	5.15	20.26	5.0E-08	120.0	2.098	0.000	2.098	4.7	1.8	3.46	6.63	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.484	0.8
35.039	8.43	8.65	0.47	5.45	20.01	5.0E-08	120.0	2.102	0.000	2.102	4.6	1.7	3.11	7.20	0.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.436	0.7
35.105	8.56	8.76	0.46	5.27	18.13	5.0E-08	120.0	2.106	0.000	2.106	4.6	1.7	3.16	6.93	0.20	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.443	0.8
35.170	8.24	8.45	0.46	5.46	19.20	5.0E-08	120.0	2.110	0.000	2.110	4.6	1.7	3.00	7.28	0.22	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.422	0.7
35.236	8.05	8.27	0.45	5.46	20.11	5.0E-08	120.0	2.114	0.000	2.114	4.6	1.7	2.91	7.33	0.24	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.410	0.7
35.301	7.86	8.09	0.44	5.46	20.95	5.0E-08	120.0	2.118	0.000	2.118	4.5	1.6	2.82	7.39	0.25	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.398	0.7
35.367	8.05	8.27	0.42	5.09	20.72	5.0E-08	120.0	2.122	0.000	2.122	4.5	1.6	2.90	6.84	0.24	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.410	0.7
35.433	7.09	7.31	0.37	5.08	20.38	5.0E-08	120.0	2.126	0.000	2.126	4.3	1.5	2.44	7.16	0.28	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.345	0.6
35.498	6.13	6.36	0.34	5.36	20.60	5.0E-08	120.0	2.130	0.000	2.130	4.2	1.4	1.98	8.06	0.35	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.282	0.6
35.564	6.39	6.61	0.31	4.70	20.99	5.0E-08	120.0	2.134	0.000	2.134	4.1	1.4	2.10	6.94	0.34	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.299	0.6
35.629	5.94	6.18	0.27	4.38	21.89	5.0E-08	120.0	2.138	0.000	2.138	4.0	1.3	1.89	6.69	0.39	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.270	0.6
35.695	6.13	6.38	0.23	3.61	22.89	5.0E-08	120.0	2.142	0.000	2.142	3.8	1.2	1.98	5.44	0.39	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.263	0.6

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
35.761	5.68	5.94	0.22	3.71	24.00	5.0E-08	120.0	2.146	0.000	2.146	3.8	1.2	1.77	5.81	0.46	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.253	0.6
35.826	5.68	5.96	0.20	3.36	25.57	5.0E-08	120.0	2.150	0.000	2.150	3.7	1.1	1.77	5.26	0.48	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.254	0.6
35.892	6.27	6.55	0.20	3.06	26.51	5.0E-08	120.0	2.154	0.000	2.154	3.7	1.2	2.04	4.56	0.43	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.293	0.6
35.958	6.46	6.75	0.22	3.27	27.02	5.0E-08	120.0	2.158	0.000	2.158	3.8	1.2	2.13	4.80	0.42	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.306	0.6
36.023	6.20	6.49	0.24	3.71	27.59	5.0E-08	120.0	2.161	0.000	2.161	3.9	1.2	2.00	5.55	0.46	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.289	0.6
36.089	6.78	7.08	0.24	3.40	28.45	5.0E-08	120.0	2.165	0.000	2.165	3.9	1.3	2.27	4.89	0.42	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.328	0.6
36.154	6.78	7.09	0.27	3.82	28.56	5.0E-08	120.0	2.169	0.000	2.169	4.0	1.3	2.27	5.51	0.42	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.328	0.6
36.220	8.05	8.38	0.26	3.11	30.52	5.0E-07	120.0	2.173	0.000	2.173	4.1	1.4	2.86	4.20	0.35	100.0	-9999.0	-9999.0	-9999.0	-9999.0	0.414	0.7
36.286	11.50	11.86	0.24	2.03	33.87	5.0E-06	120.0	2.177	0.000	2.177	4.6	1.8	4.45	2.48	0.25	77.1	-9999.0	-9999.0	-9999.0	-9999.0	0.646	1.0
36.351	20.12	20.50	0.26	1.27	35.73	5.0E-05	120.0	2.181	0.000	2.181	6.2	2.7	8.40	1.42	0.14	51.5	30.0	30.0	-9999.0	-9999.0	1.222	2.0
36.417	29.89	30.11	0.28	0.93	19.91	5.0E-04	120.0	2.185	0.000	2.185	8.0	3.6	12.78	1.01	0.05	38.4	30.0	30.0	-9999.0	-9999.0	-9999.0	-9999.0
36.482	38.01	38.09	0.32	0.84	7.54	5.0E-04	120.0	2.189	0.000	2.189	8.9	6.1	16.40	0.89	0.02	25.5	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.548	41.14	41.17	0.36	0.88	3.04	5.0E-04	120.0	2.193	0.000	2.193	9.5	6.6	17.78	0.93	0.01	24.6	30.0	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.614	41.59	41.62	0.41	0.99	2.53	5.0E-04	120.0	2.197	0.000	2.197	9.7	6.7	17.94	1.04	0.00	25.5	30.2	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.679	42.48	42.51	0.43	1.01	2.23	5.0E-04	120.0	2.201	0.000	2.201	9.9	6.8	18.31	1.07	0.00	25.5	30.8	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.745	42.10	42.12	0.45	1.07	2.02	5.0E-04	120.0	2.205	0.000	2.205	9.9	6.8	18.11	1.13	0.00	26.1	30.5	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.811	43.05	43.07	0.48	1.12	1.86	5.0E-04	120.0	2.209	0.000	2.209	10.1	7.0	18.50	1.18	0.00	26.2	31.2	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.876	43.95	43.96	0.51	1.16	1.45	5.0E-04	120.0	2.213	0.000	2.213	10.3	7.1	18.87	1.22	0.00	26.3	31.7	32.0	-9999.0	-9999.0	-9999.0	-9999.0
36.942	45.16	45.17	0.52	1.15	1.23	5.0E-04	120.0	2.217	0.000	2.217	10.6	7.3	19.38	1.21	0.00	25.8	32.5	32.0	-9999.0	-9999.0	-9999.0	-9999.0
37.007	45.99	46.00	0.53	1.15	1.08	5.0E-04	120.0	2.220	0.000	2.220	10.7	7.4	19.72	1.21	0.00	25.6	33.0	32.0	4.127	189.9	-9999.0	-9999.0
37.073	47.01	47.03	0.53	1.13	1.06	5.0E-04	120.0	2.224	0.000	2.224	10.9	7.5	20.14	1.19	0.00	25.0	33.6	34.0	4.093	192.5	-9999.0	-9999.0
37.139	48.55	48.56	0.53	1.09	0.90	5.0E-04	120.0	2.228	0.000	2.228	11.2	7.6	20.79	1.15	0.00	24.3	34.5	34.0	4.041	196.2	-9999.0	-9999.0
37.204	49.57	49.57	0.52	1.05	0.43	5.0E-04	120.0	2.232	0.000	2.232	11.3	7.7	21.21	1.10	0.00	23.6	35.0	34.0	4.009	198.7	-9999.0	-9999.0
37.270	49.95	49.96	0.52	1.04	0.49	5.0E-04	120.0	2.236	0.000	2.236	11.4	7.8	21.34	1.09	0.00	23.5	35.2	34.0	3.998	199.7	-9999.0	-9999.0
37.336	50.15	50.16	0.52	1.04	0.49	5.0E-04	120.0	2.240	0.000	2.240	11.4	7.8	21.39	1.09	0.00	23.4	35.3	34.0	3.994	200.3	-9999.0	-9999.0
37.401	49.95	49.95	0.55	1.10	0.31	5.0E-04	120.0	2.244	0.000	2.244	11.5	7.8	21.26	1.16	0.00	24.0	35.2	34.0	4.003	200.0	-9999.0	-9999.0
37.467	48.87	48.87	0.57	1.17	0.28	5.0E-04	120.0	2.248	0.000	2.248	11.3	7.7	20.74	1.23	0.00	24.9	34.5	34.0	4.043	197.6	-9999.0	-9999.0
37.532	48.04	48.04	0.63	1.31	0.28	5.0E-04	120.0	2.252	0.000	2.252	11.3	7.7	20.33	1.38	0.00	26.3	34.0	34.0	4.075	195.8	-9999.0	-9999.0
37.598	45.99	45.99	0.76	1.66	0.18	5.0E-04	120.0	2.256	0.000	2.256	12.1	5.3	19.39	1.74	0.00	36.7	32.7	32.0	-9999.0	-9999.0	-9999.0	-9999.0
37.664	43.76	43.76	0.99	2.27	0.02	5.0E-05	120.0	2.260	0.000	2.260	12.1	5.3	18.36	2.39	0.00	41.8	31.3	32.0	-9999.0	-9999.0	2.766	6.2
37.729	41.59	41.59	1.04	2.51	0.20	5.0E-05	120.0	2.264	0.000	2.264	11.8	5.1	17.37	2.65	0.00	44.3	30.0	32.0	-9999.0	-9999.0	2.622	5.7
37.795	37.56	37.56	1.00	2.67	0.22	5.0E-05	120.0	2.268	0.000	2.268	11.0	4.7	15.56	2.84	0.00	47.5	30.0	32.0	-9999.0	-9999.0	2.353	4.8
37.860	34.68	34.69	0.95	2.75	0.35	5.0E-05	120.0	2.272	0.000	2.272	10.4	4.5	14.27	2.94	0.00	49.9	30.0	32.0	-9999.0	-9999.0	2.161	4.2
37.926	33.98	33.99	0.90	2.65	0.73	5.0E-05	120.0	2.276	0.000	2.276	10.2	4.3	13.94	2.84	0.00	49.9	30.0	32.0	-9999.0	-9999.0	2.114	4.1
37.992	36.61	36.63	0.92	2.52	1.64	5.0E-05	120.0	2.280	0.000	2.280	10.7	4.6	15.07	2.69	0.00	47.4	30.0	32.0	-9999.0	-9999.0	2.290	4.6
38.057	48.11	48.17	0.92	1.91	5.61	5.0E-04	120.0	2.283	0.000	2.283	12.8	5.6	20.09	2.01	0.01	37.8	33.9	34.0	-9999.0	-9999.0	-9999.0	-9999.0
38.123	65.80	65.90	0.79	1.20	8.89	5.0E-04	120.0	2.287	0.000	2.287	14.6	9.9	27.81	1.24	0.01	21.1	42.8	36.0	3.555	234.3	-9999.0	-9999.0
38.189	79.78	79.86	0.83	1.04	7.21	5.0E-03	120.0	2.291	0.000	2.291	16.9	11.4	33.85	1.07	0.01	17.6	48.3	36.0	3.238	258.6	-9999.0	-9999.0
38.254	89.44	89.49	0.89	1.00	4.78	5.0E-03	120.0	2.295	0.000	2.295	18.6	12.5	37.99	1.02	0.00	16.0	51.6	38.0	3.064	274.2	-9999.0	-9999.0
38.320	93.59	93.63	0.93	1.00	3.97	5.0E-03	120.0	2.299	0.000	2.299	19.3	13.0	39.72	1.02	0.00	15.5	52.8	38.0	2.999	280.8	-9999.0	-9999.0
38.385	95.82	95.86	0.95	0.99	3.64	5.0E-03	120.0	2.303	0.000	2.303	19.7	13.3	40.62	1.02	0.00	15.2	53.5	38.0	2.968	284.5	-9999.0	-9999.0
38.451	95.18	95.21	0.98	1.03	2.80	5.0E-03	120.0	2.307	0.000	2.307	19.7	13.2	40.27	1.06	0.00	15.6	53.3	38.0	2.980	283.7	-9999.0	-9999.0
38.517	95.88	95.91	1.02	1.07	2.57	5.0E-03	120.0	2.311	0.000	2.311	19.9	13.4	40.50	1.09	0.00	15.8	53.5	38.0	2.971	285.0	-9999.0	-9999.0
38.582	94.99	95.02	1.06	1.12	2.41	5.0E-03	120.0	2.315	0.000	2.315	19.8	13.3	40.04	1.15	0.00	16.3	53.2	38.0	2.987	283.8	-9999.0	-9999.0
38.648	95.06	95.09	1.10	1.16	2.27	5.0E-03	120.0	2.319	0.000	2.319	19.9	13.4	40.00	1.19	0.00	16.6	53.2	38.0	2.988	284.1	-9999.0	-9999.0
38.713	94.35	94.37	1.13	1.20	2.25	5.0E-03	120.0	2.323	0.000	2.323	19.9	13.3	39.63	1.23	0.00	16.9	52.9	38.0	3.001	283.2	-9999.0	-9999.0
38.779	91.99	92.02	1.15	1.25	2.07	5.0E-03	120.0	2.327	0.000	2.327	19.5	13.1	38.55	1.29	0.00	17.6	52.2	38.0	3.040	279.7	-9999.0	-9999.0
38.845	89.88	89.90	1.16	1.29	1.90	5.0E-03	120.0	2.331	0.000	2.331	19.2	12.9	37.57	1.33	0.00	18.1	51.5	38.0	3.076	276.6	-9999.0	-9999.0
38.910	87.01	87.03	1.16	1.34	1.84	5.0E-03	120.0	2.335	0.000	2.335	18.7	12.5	36.28	1.37	0.00	18.8	50.5	38.0	3.128	272.2	-9999.0	-9999.0
38.976	85.54	85.56	1.17	1.37	1.86	5.0E-03	120.0	2.339	0.000	2.339	18.5	12.4	35.58	1.41	0.00	19.2	50.0	38.0	3.156	270.1	-9999.0	-9999.0
39.042	84.38	84.40	1.19	1.41	1.86	5.0E-03	120.0	2.343	0.000	2.343	18.4	12.3	35.03	1.45	0.00	19.7	49.6	38.0	3.180	268.4	-9999.0	-9999.0
39.107	83.62	83.64	1.20	1.44	1.92	5.0E-04	120.0	2.346	0.000	2.346	18.3	12.2	34.65	1.48	0.00	20.0	49.3	36.0	3.196	267.3	-9999.0	-9999.0
39.173	83.17	83.19	1.19	1.43	1.84	5.0E-04	120.0	2.350	0.000	2.350	18.2	12.1	34.39	1.48	0.00	20.0	49.1	36.0	3.207	266.8	-9999.0	-9999.0
39.238	84.32	84.34	1.18	1.40	1.80	5.0E-03	120.0	2.354	0.000	2.354	18.4	12.2	34.82	1.44	0.00	19.7	49.5	38.0	3.188	268.8	-9999.0	-9999.0
39.304	85.16	85.18	1.21	1.42	1.78	5.0E-03	120.0	2.358	0.000	2.358	18.6	12.3	35.12	1.46	0.00	19.7	49.8	38.0	3.174	270.4	-9999.0	-9999.0
39.370	86.88	86.90	1.24	1.43	1.78	5.0E-03	120.0	2.362	0.000	2.362	18.9	12.6	35.79	1.47	0.00	19.5	50.3	38.0	3.145	273.3	-9999.0	-9999.0
39.435	92.24	92.26	1.23	1.34	1.86	5.0E-03	120.0	2.366	0.000	2.366	19.7	13.1	37.99	1.37	0.00	18.2	52.0	38.0	3.057	282.0	-9999.0	-9999.0
39.501	100.74	100.77	1.23	1.22	2.11	5.0E-03	120.0	2.370	0.000	2.370	21.1	14.0	41.52	1.25	0.00	16.5	54.5	38.0	2.932	295.5	-9999.0	-9999.0
39.566	108.79	108.82	1.25	1.15	2.13	5.0E-03	120.0	2.374	0.000	2.374	22.4	14.8	44.84	1.18	0.00	15.2	56.7	38.0	2.832	308.1	-9999.0	-9999.0
39.632	113.32	113.35	1.29	1.14	2.27	5.0E-03	120.0	2.378	0.000	2.378	23.2	15.3	46.67	1.17	0.00	14.7	57.8	38.0	2.782	315.4	-9999.0	-9999.0
39.698	113.90	113.92	1.32	1.16	2.07	5.0E-03	120.0	2.382	0.000	2.382	23.3	15.4	46.83	1.19	0.00	14.8	58.0	38.0	2.778	316.5	-9999.0	-9999.0
39.763	113.71	113.73	1.14	1.00	2.00	5.0E-03	120.0	2.386	0.000	2.386	22.9	15.2	46.67	1.03	0.00	13.7	57.9	38.0	2.782	316.4	-9999.0	-9999.0
39.829	113.19	113.22	1.14	1.01	2.02	5.0E-03	120.0	2.390	0.000	2.390	22.8	15.1	46.38	1.03	0.00	13.8	57.7	38.0	2.789	315.8	-9999.0	-9999.0
39.895	112.24	112.26	1.17	1.04	1.86	5.0E-03	120.0	2.394	0.000	2.394	22.8	15.0	45.90	1.07	0.00	14.2	57.5	38.0	2.802	314.5	-9999.0	-9999.0
39.960	112.30	112.32	1.21	1.08	2.00	5.0E-03	120.0	2.398	0.000	2.398	22.9	15.1	45.85	1.10	0.00	14.4	57.5	38.0	2.803	314.8	-9999.0	-9999.0
40.026	113.97	113.99	1.27	1.12	2.02	5.0E-03	120.0	2.402	0.000	2.402	23.2	15.3	46.46	1.14	0.00	14.5	57.9	38.0	2.786	317.6	-9999.0	-9999.0
40.091	123.04	123.05	1.35	1.10	1.17	5.0E-03	120.0	2.406	0.000	2.406	24.8	16.3	50.15	1.12	0.00	13.7	60.0	38.0	2.698	332.0	-9999.0	-9999.0
40.157	135.81	135.82	1.46	1.08	1.13	5.0E-03	120.0	2.409	0.000	2.409	26.9	17.7	55.37	1.10	0.00	12.6	62.8	40.0	2.595	352.5	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)lc	N1(60)lc	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
40.223	147.25	147.26	1.61	1.10	1.27	5.0E-03	120.0	2.413	0.000	2.413	29.0	19.1	60.02	1.11	0.00	12.0	65.1	40.0	2.520	371.2	-9999.0	-9999.0
40.288	154.92	154.93	1.77	1.15	1.29	5.0E-03	120.0	2.417	0.000	2.417	30.4	20.0	63.09	1.16	0.00	11.9	66.6	40.0	2.477	383.8	-9999.0	-9999.0
40.354	162.13	162.15	1.91	1.18	1.45	5.0E-03	120.0	2.421	0.000	2.421	31.8	20.9	65.97	1.20	0.00	11.8	67.8	40.0	2.440	395.7	-9999.0	-9999.0
40.419	169.09	169.11	2.05	1.22	1.58	5.0E-03	120.0	2.425	0.000	2.425	33.1	21.7	68.73	1.23	0.00	11.6	69.0	40.0	2.407	407.1	-9999.0	-9999.0
40.485	174.52	174.54	2.20	1.26	1.82	5.0E-03	120.0	2.429	0.000	2.429	34.1	22.4	70.85	1.28	0.00	11.6	69.9	40.0	2.383	416.0	-9999.0	-9999.0
40.551	179.06	179.08	2.20	1.23	1.74	5.0E-02	120.0	2.433	0.000	2.433	34.8	22.8	72.60	1.24	0.00	11.2	70.6	40.0	2.364	423.4	-9999.0	-9999.0
40.616	182.89	182.91	2.19	1.19	1.92	5.0E-02	120.0	2.437	0.000	2.437	35.4	23.2	74.06	1.21	0.00	10.9	71.2	40.0	2.349	429.6	-9999.0	-9999.0
40.682	186.85	186.87	2.19	1.17	1.92	5.0E-02	120.0	2.441	0.000	2.441	36.0	23.5	75.56	1.18	0.00	10.6	71.8	40.0	2.333	436.0	-9999.0	-9999.0
40.748	192.22	192.24	2.17	1.13	1.80	5.0E-02	120.0	2.445	0.000	2.445	36.7	24.0	77.63	1.14	0.00	10.1	72.6	40.0	2.312	444.4	-9999.0	-9999.0
40.813	198.48	198.50	2.16	1.09	1.96	5.0E-02	120.0	2.449	0.000	2.449	37.6	24.6	80.06	1.10	0.00	9.6	73.5	42.0	2.287	454.0	-9999.0	-9999.0
40.879	213.37	213.39	2.18	1.02	2.37	5.0E-02	120.0	2.453	0.000	2.453	39.9	26.0	86.00	1.03	0.00	8.7	75.5	42.0	2.229	475.6	-9999.0	-9999.0
40.944	232.92	232.94	2.22	0.95	2.61	5.0E-02	120.0	2.457	0.000	2.457	42.8	27.9	93.82	0.96	0.00	7.6	78.0	42.0	2.156	502.3	-9999.0	-9999.0
41.010	255.08	255.11	2.27	0.89	2.63	5.0E-02	120.0	2.461	0.000	2.461	46.0	30.0	102.67	0.90	0.00	6.6	80.6	42.0	2.086	532.1	-9999.0	-9999.0
41.076	274.38	274.41	2.29	0.83	2.90	5.0E-02	120.0	2.465	0.000	2.465	48.8	31.8	110.34	0.84	0.00	5.8	82.7	42.0	2.048	562.1	-9999.0	-9999.0
41.141	283.89	283.92	2.34	0.82	2.78	5.0E-02	120.0	2.469	0.000	2.469	50.2	32.7	114.02	0.83	0.00	5.6	83.6	42.0	2.043	580.1	-9999.0	-9999.0
41.207	286.06	286.09	2.37	0.83	2.72	5.0E-02	120.0	2.472	0.000	2.472	50.6	32.9	114.71	0.83	0.00	5.6	83.8	42.0	2.044	584.7	-9999.0	-9999.0
41.272	285.61	285.64	2.45	0.86	2.92	5.0E-02	120.0	2.476	0.000	2.476	50.7	32.9	114.35	0.86	0.00	5.8	83.7	42.0	2.044	583.9	-9999.0	-9999.0
41.338	287.21	287.24	2.24	0.78	3.18	5.0E-02	120.0	2.480	0.000	2.480	50.5	32.8	114.81	0.79	0.00	5.2	83.9	42.0	2.045	587.3	-9999.0	-9999.0
41.404	290.46	290.50	1.99	0.69	3.56	5.0E-02	120.0	2.484	0.000	2.484	50.4	32.7	115.94	0.69	0.00	4.6	84.2	42.0	2.047	594.6	-9999.0	-9999.0
41.469	296.41	296.45	2.05	0.69	3.46	5.0E-02	120.0	2.488	0.000	2.488	51.4	33.3	118.14	0.70	0.00	4.5	84.7	42.0	2.054	609.0	-9999.0	-9999.0
41.535	306.18	306.22	2.16	0.70	3.56	5.0E-02	120.0	2.492	0.000	2.492	52.9	34.3	121.87	0.71	0.00	4.4	85.6	42.0	2.080	636.9	-9999.0	-9999.0
41.601	314.42	314.46	2.24	0.71	3.85	5.0E+00	120.0	2.496	0.000	2.496	54.3	35.1	124.98	0.72	0.00	4.3	86.4	42.0	2.116	665.5	-9999.0	-9999.0
41.666	299.23	299.28	2.34	0.78	5.09	5.0E-02	120.0	2.500	0.000	2.500	52.4	33.9	118.71	0.79	0.00	5.0	84.9	42.0	2.060	616.4	-9999.0	-9999.0
41.732	322.28	322.34	2.43	0.75	4.96	5.0E-02	120.0	2.504	0.000	2.504	55.8	36.0	127.73	0.76	0.00	4.5	87.0	44.0	2.164	697.5	-9999.0	-9999.0
41.797	324.78	324.83	2.49	0.77	4.66	5.0E-02	120.0	2.508	0.000	2.508	56.3	36.3	128.52	0.77	0.00	4.5	87.2	44.0	-9999.0	-9999.0	-9999.0	-9999.0
41.863	319.02	319.07	2.54	0.79	4.42	5.0E-02	120.0	2.512	0.000	2.512	55.6	35.9	126.03	0.80	0.00	4.8	86.7	44.0	2.139	682.4	-9999.0	-9999.0
41.929	308.29	308.33	2.56	0.83	3.97	5.0E-02	120.0	2.516	0.000	2.516	54.2	34.9	121.56	0.84	0.00	5.2	85.7	42.0	2.084	642.6	-9999.0	-9999.0
41.994	300.18	300.22	2.56	0.85	3.99	5.0E-02	120.0	2.520	0.000	2.520	53.0	34.1	118.15	0.86	0.00	5.5	84.9	42.0	2.061	618.7	-9999.0	-9999.0
42.060	289.38	289.42	2.53	0.87	3.87	5.0E-02	120.0	2.524	0.000	2.524	51.5	33.1	113.68	0.88	0.00	5.9	83.8	42.0	2.049	592.9	-9999.0	-9999.0
42.125	277.31	277.35	2.49	0.90	3.66	5.0E-02	120.0	2.528	0.000	2.528	49.7	31.9	108.73	0.90	0.00	6.3	82.6	42.0	2.055	570.0	-9999.0	-9999.0
42.191	268.30	268.34	2.43	0.90	3.29	5.0E-02	120.0	2.532	0.000	2.532	48.3	31.0	105.00	0.91	0.00	6.5	81.6	42.0	2.071	555.8	-9999.0	-9999.0
42.257	262.56	262.59	2.37	0.90	3.33	5.0E-02	120.0	2.535	0.000	2.535	47.4	30.4	102.57	0.91	0.00	6.6	81.0	42.0	2.085	547.6	-9999.0	-9999.0
42.322	256.86	256.90	2.30	0.89	3.29	5.0E-02	120.0	2.539	0.000	2.539	46.4	29.8	100.17	0.90	0.00	6.7	80.3	42.0	2.102	539.9	-9999.0	-9999.0
42.388	251.76	251.80	2.25	0.89	3.31	5.0E-02	120.0	2.543	0.000	2.543	45.6	29.2	98.00	0.90	0.00	6.9	79.7	42.0	2.118	533.3	-9999.0	-9999.0
42.454	250.35	250.38	2.19	0.87	3.42	5.0E-02	120.0	2.547	0.000	2.547	45.3	29.0	97.30	0.88	0.00	6.8	79.6	42.0	2.123	531.7	-9999.0	-9999.0
42.519	253.09	253.13	2.16	0.85	3.50	5.0E-02	120.0	2.551	0.000	2.551	45.6	29.2	98.22	0.86	0.00	6.6	79.9	42.0	2.116	535.6	-9999.0	-9999.0
42.585	260.19	260.23	2.17	0.83	3.68	5.0E-02	120.0	2.555	0.000	2.555	46.6	29.8	100.85	0.84	0.00	6.3	80.6	42.0	2.096	545.5	-9999.0	-9999.0
42.650	271.88	271.92	2.20	0.81	3.70	5.0E-02	120.0	2.559	0.000	2.559	48.3	30.9	105.26	0.82	0.00	5.8	81.9	42.0	2.070	562.8	-9999.0	-9999.0
42.716	282.87	282.91	2.26	0.80	4.03	5.0E-02	120.0	2.563	0.000	2.563	50.0	31.9	109.38	0.80	0.00	5.5	83.0	42.0	2.055	581.4	-9999.0	-9999.0
42.782	284.53	284.57	2.31	0.81	4.03	5.0E-02	120.0	2.567	0.000	2.567	50.4	32.1	109.86	0.82	0.00	5.6	83.1	42.0	2.054	584.6	-9999.0	-9999.0
42.847	277.69	277.74	2.34	0.84	4.07	5.0E-02	120.0	2.571	0.000	2.571	49.5	31.5	107.03	0.85	0.00	5.9	82.4	42.0	2.062	572.8	-9999.0	-9999.0
42.913	264.66	264.71	2.36	0.89	4.05	5.0E-02	120.0	2.575	0.000	2.575	47.7	30.4	101.81	0.90	0.00	6.6	81.0	42.0	2.090	553.1	-9999.0	-9999.0
42.978	252.65	252.69	2.37	0.94	3.83	5.0E-02	120.0	2.579	0.000	2.579	46.0	29.3	96.99	0.95	0.00	7.2	79.7	42.0	2.125	537.0	-9999.0	-9999.0
43.044	244.85	244.89	2.36	0.96	3.78	5.0E-02	120.0	2.583	0.000	2.583	44.9	28.5	93.82	0.97	0.00	7.5	78.7	42.0	2.152	527.0	-9999.0	-9999.0
43.110	240.19	240.23	2.31	0.96	3.66	5.0E-02	120.0	2.587	0.000	2.587	44.1	28.0	91.87	0.97	0.00	7.7	78.2	42.0	2.170	521.2	-9999.0	-9999.0
43.175	240.45	240.49	2.26	0.94	3.76	5.0E-02	120.0	2.591	0.000	2.591	44.1	28.0	91.83	0.95	0.00	7.5	78.2	42.0	2.170	521.9	-9999.0	-9999.0
43.241	244.22	244.26	2.21	0.90	3.85	5.0E-02	120.0	2.595	0.000	2.595	44.5	28.2	93.15	0.91	0.00	7.2	78.6	42.0	2.158	527.1	-9999.0	-9999.0
43.307	245.76	245.80	2.16	0.88	3.91	5.0E-02	120.0	2.598	0.000	2.598	44.6	28.3	93.59	0.89	0.00	7.0	78.7	42.0	2.154	529.3	-9999.0	-9999.0
43.372	242.50	242.54	2.10	0.86	3.83	5.0E-02	120.0	2.602	0.000	2.602	44.0	27.9	92.20	0.87	0.00	7.0	78.3	42.0	2.166	525.4	-9999.0	-9999.0
43.438	238.03	238.07	2.09	0.88	3.72	5.0E-02	120.0	2.606	0.000	2.606	43.4	27.5	90.34	0.89	0.00	7.2	77.8	42.0	2.184	519.8	-9999.0	-9999.0
43.503	233.04	233.08	2.10	0.90	3.68	5.0E-02	120.0	2.610	0.000	2.610	42.7	27.0	88.29	0.91	0.00	7.5	77.2	42.0	2.203	513.5	-9999.0	-9999.0
43.569	231.89	231.93	2.14	0.92	3.78	5.0E-02	120.0	2.614	0.000	2.614	42.6	26.9	87.72	0.93	0.00	7.7	77.0	42.0	2.209	512.3	-9999.0	-9999.0
43.635	236.87	236.91	2.14	0.90	3.46	5.0E-02	120.0	2.618	0.000	2.618	43.3	27.4	89.49	0.91	0.00	7.4	77.6	42.0	2.191	519.2	-9999.0	-9999.0
43.700	243.01	243.04	2.11	0.87	3.12	5.0E-02	120.0	2.622	0.000	2.622	44.1	27.9	91.69	0.88	0.00	7.0	78.3	42.0	2.170	527.5	-9999.0	-9999.0
43.766	246.39	246.43	2.03	0.83	3.48	5.0E-02	120.0	2.626	0.000	2.626	44.5	28.0	92.84	0.83	0.00	6.7	78.7	42.0	2.160	532.2	-9999.0	-9999.0
43.831	243.83	243.87	1.96	0.81	3.58	5.0E-02	120.0	2.630	0.000	2.630	44.0	27.7	91.73	0.81	0.00	6.6	78.3	42.0	2.170	529.1	-9999.0	-9999.0
43.897	237.07	237.11	1.88	0.79	3.76	5.0E-02	120.0	2.634	0.000	2.634	42.8	27.0	89.02	0.80	0.00	6.7	77.5	42.0	2.196	520.6	-9999.0	-9999.0
43.963	225.25	225.29	1.77	0.79	3.66	5.0E-02	120.0	2.638	0.000	2.638	40.9	25.7	84.41	0.80	0.00	7.0	76.0	42.0	2.242	505.0	-9999.0	-9999.0
44.028	213.69	213.73	1.66	0.78	3.70	5.0E-02	120.0	2.642	0.000	2.642	39.0	24.5	79.90	0.79	0.00	7.3	74.5	42.0	2.289	489.1	-9999.0	-9999.0
44.094	206.34	206.38	1.58	0.77	3.62	5.0E-02	120.0	2.646	0.000	2.646	37.8	23.7	77.01	0.78	0.00	7.5	73.5	40.0	2.319	478.7	-9999.0	-9999.0
44.160	201.74	201.78	1.54	0.77	3.66	5.0E-02	120.0	2.650	0.000	2.650	37.0	23.2	75.15	0.78	0.00	7.6	72.8	40.0	2.339	472.1	-9999.0	-9999.0
44.225	199.12	199.16	1.50	0.75	3.60	5.0E-02	120.0	2.654	0.000	2.654	36.6	22.9	74.05	0.77	0.00	7.6	72.4	40.0	2.352	468.3	-9999.0	-9999.0
44.291	194.14	194.18	1.46	0.75	3.40	5.0E-02	120.0	2.658	0.000	2.658	35.8	22.4	72.07	0.76	0.00	7.8	71.7	40.0	2.374	460.9	-9999.0	-9999.0
44.356	190.11	190.15	1.37	0.72	3.48	5.0E-02	120.0	2.661	0.000	2.661	35.0	21.9	70.45	0.73	0.00	7.7	71.0	40.0	2.392	454.9	-9999.0	-9999.0
44.422	186.09	186.13	1.28	0.69	3.36	5.0E-02	120.0	2.665	0.000	2.665	34.2	21.4	68.83	0.70	0.00	7.6	70.4	40.0	2.411	448.8	-9999.0	-9999.0
44.488	184.43	184.46	1.22	0.66	3.33	5.0E-02	120.0	2.669	0.000	2.669	33.8	21.1	68.11	0.67	0.00	7.5	70.1	40.0	2.420	446.3	-9999.0	-9999.0
44.553	186.79	186.83	1.20	0.64	3.31	5.0E-02	120.0	2.673	0.000	2.673	34.1	21.3	68.89	0.65	0.00	7.3	70.5	40.0	2.411	450.4	-9999.0	-9999.0
44.619	191.84	191.87	1.23	0.64	3.44	5.0E-02	120.0	2.677	0.000	2.677	34.9	21.8	70.67	0.65	0.00	7.1	71.2	40.0	2.390	458.6	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
44.684	195.99	196.02	1.32	0.68	3.40	5.0E-02	120.0	2.681	0.000	2.681	35.7	22.3	72.11	0.68	0.00	7.2	71.8	40.0	2.374	465.3	-9999.0	-9999.0
44.750	199.75	199.79	1.20	0.60	3.40	5.0E-02	120.0	2.685	0.000	2.685	35.9	22.4	73.41	0.61	0.00	6.5	72.3	40.0	2.359	471.3	-9999.0	-9999.0
44.816	203.33	203.37	1.21	0.60	3.44	5.0E-02	120.0	2.689	0.000	2.689	36.5	22.7	74.63	0.60	0.00	6.3	72.8	40.0	2.346	477.0	-9999.0	-9999.0
44.881	204.30	204.33	1.28	0.63	3.56	5.0E-02	120.0	2.693	0.000	2.693	36.8	22.9	74.88	0.64	0.00	6.5	72.9	40.0	2.343	478.8	-9999.0	-9999.0
44.947	205.32	205.36	1.33	0.65	3.56	5.0E-02	120.0	2.697	0.000	2.697	37.1	23.1	75.15	0.66	0.00	6.7	73.1	40.0	2.340	480.5	-9999.0	-9999.0
45.013	212.27	212.32	1.37	0.65	3.78	5.0E-02	120.0	2.701	0.000	2.700	38.2	23.7	77.62	0.66	0.00	6.4	74.0	40.0	2.313	491.1	-9999.0	-9999.0
45.078	218.09	218.11	1.41	0.65	2.25	5.0E-02	120.0	2.705	0.002	2.702	39.1	24.3	79.71	0.66	0.00	6.3	74.8	42.0	2.290	499.6	-9999.0	-9999.0
45.144	224.09	224.11	1.48	0.66	1.84	5.0E-02	120.0	2.709	0.004	2.704	40.1	24.9	81.87	0.67	0.00	6.2	75.5	42.0	2.267	508.1	-9999.0	-9999.0
45.209	228.63	228.65	1.55	0.68	1.78	5.0E-02	120.0	2.713	0.007	2.706	40.9	25.4	83.49	0.69	0.00	6.2	76.1	42.0	2.250	514.5	-9999.0	-9999.0
45.275	233.68	233.69	1.58	0.68	1.64	5.0E-02	120.0	2.717	0.009	2.708	41.7	25.9	85.30	0.69	0.00	6.0	76.7	42.0	2.231	521.4	-9999.0	-9999.0
45.341	236.93	236.95	1.57	0.66	1.72	5.0E-02	120.0	2.720	0.011	2.710	42.1	26.2	86.44	0.67	0.00	5.9	77.1	42.0	2.220	525.9	-9999.0	-9999.0
45.406	236.74	236.76	1.53	0.65	1.72	5.0E-02	120.0	2.724	0.013	2.712	42.0	26.1	86.31	0.66	0.00	5.7	77.1	42.0	2.221	525.8	-9999.0	-9999.0
45.472	240.13	240.15	1.51	0.63	1.70	5.0E-02	120.0	2.728	0.015	2.714	42.4	26.3	87.49	0.64	0.00	5.5	77.5	42.0	2.209	530.4	-9999.0	-9999.0
45.538	251.31	251.33	1.49	0.59	1.68	5.0E-02	120.0	2.732	0.017	2.716	43.9	27.3	91.55	0.60	0.00	5.0	78.8	42.0	2.169	545.1	-9999.0	-9999.0
45.603	271.50	271.52	1.65	0.61	1.86	5.0E-02	120.0	2.736	0.019	2.717	47.2	29.2	98.91	0.62	0.00	4.6	81.0	42.0	2.107	572.1	-9999.0	-9999.0
45.669	291.88	291.90	1.71	0.59	1.98	5.0E+00	120.0	2.740	0.021	2.719	50.1	31.1	106.34	0.59	0.00	4.1	83.0	42.0	2.070	604.2	-9999.0	-9999.0
45.734	302.41	302.44	1.82	0.60	1.98	5.0E+00	120.0	2.744	0.023	2.721	51.9	32.1	110.13	0.61	0.00	4.0	84.0	42.0	2.067	625.2	-9999.0	-9999.0
45.800	305.74	305.77	1.83	0.60	2.31	5.0E+00	120.0	2.748	0.025	2.723	52.3	32.4	111.28	0.61	0.00	3.9	84.3	42.0	2.069	632.8	-9999.0	-9999.0
45.866	314.10	314.13	1.94	0.62	2.31	5.0E+00	120.0	2.752	0.027	2.725	53.8	33.3	114.27	0.62	0.00	3.9	85.1	42.0	2.082	654.0	-9999.0	-9999.0
45.931	320.37	320.39	2.00	0.63	2.57	5.0E+00	120.0	2.756	0.029	2.727	54.8	33.9	116.49	0.63	0.00	3.9	85.7	42.0	2.099	672.6	-9999.0	-9999.0
45.997	325.67	325.70	2.08	0.64	2.61	5.0E+00	120.0	2.760	0.031	2.729	55.7	34.4	118.35	0.64	0.00	3.9	86.1	42.0	2.120	690.3	-9999.0	-9999.0
46.062	322.03	322.06	2.12	0.66	2.72	5.0E+00	120.0	2.764	0.033	2.731	55.3	34.2	116.93	0.66	0.00	4.1	85.8	42.0	2.105	677.8	-9999.0	-9999.0
46.128	320.69	320.72	2.14	0.67	2.80	5.0E+00	120.0	2.768	0.035	2.733	55.2	34.1	116.36	0.67	0.00	4.1	85.7	42.0	2.100	673.4	-9999.0	-9999.0
46.194	324.27	324.30	2.16	0.66	2.66	5.0E+00	120.0	2.772	0.037	2.734	55.7	34.4	117.58	0.67	0.00	4.1	86.0	42.0	2.113	685.1	-9999.0	-9999.0
46.259	333.27	333.30	2.18	0.65	2.98	5.0E+00	120.0	2.776	0.039	2.736	57.0	35.2	120.79	0.66	0.00	3.9	86.7	42.0	2.158	719.2	-9999.0	-9999.0
46.325	346.88	346.92	2.21	0.64	3.18	5.0E+00	120.0	2.780	0.041	2.738	58.9	36.4	125.68	0.64	0.00	3.5	87.9	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.391	356.01	356.05	2.24	0.63	3.14	5.0E+00	120.0	2.783	0.043	2.740	60.2	37.2	128.93	0.63	0.00	3.4	88.6	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.456	357.93	357.96	2.29	0.64	3.38	5.0E+00	120.0	2.787	0.045	2.742	60.6	37.4	129.53	0.64	0.00	3.4	88.8	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.522	355.24	355.28	2.00	0.56	3.52	5.0E+00	120.0	2.791	0.048	2.744	59.5	36.7	128.46	0.57	0.00	2.9	88.5	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.587	351.54	351.58	1.98	0.56	3.54	5.0E+00	120.0	2.795	0.050	2.746	59.0	36.4	127.03	0.57	0.00	3.0	88.2	44.0	-9999.0	-9999.0	-9999.0	-9999.0
46.653	343.30	343.34	1.96	0.57	3.66	5.0E+00	120.0	2.799	0.052	2.748	57.8	35.6	123.94	0.58	0.00	3.1	87.5	42.0	-9999.0	-9999.0	-9999.0	-9999.0
46.719	328.10	328.14	1.91	0.58	3.66	5.0E+00	120.0	2.803	0.054	2.750	55.6	34.3	118.32	0.59	0.00	3.5	86.2	42.0	2.127	697.8	-9999.0	-9999.0
46.784	313.53	313.57	1.88	0.60	3.66	5.0E+00	120.0	2.807	0.056	2.751	53.6	33.0	112.95	0.61	0.00	3.8	84.9	42.0	2.080	652.3	-9999.0	-9999.0
46.850	282.62	282.64	1.83	0.65	2.04	5.0E-02	120.0	2.811	0.058	2.753	49.2	30.3	101.63	0.66	0.00	4.7	81.9	42.0	2.090	590.6	-9999.0	-9999.0
46.915	270.29	270.30	1.73	0.64	1.39	5.0E-02	120.0	2.815	0.060	2.755	47.2	29.1	97.08	0.65	0.00	4.9	80.6	42.0	2.120	572.9	-9999.0	-9999.0
46.981	262.43	262.46	1.64	0.63	2.66	5.0E-02	120.0	2.819	0.062	2.757	45.9	28.3	94.17	0.63	0.00	5.0	79.8	42.0	2.144	562.6	-9999.0	-9999.0
47.047	255.46	255.48	1.55	0.61	2.23	5.0E-02	120.0	2.823	0.064	2.759	44.7	27.5	91.58	0.61	0.00	5.0	79.0	42.0	2.167	553.7	-9999.0	-9999.0
47.112	249.26	249.29	1.50	0.60	2.13	5.0E-02	120.0	2.827	0.066	2.761	43.7	26.9	89.27	0.61	0.00	5.1	78.3	42.0	2.189	545.8	-9999.0	-9999.0
47.178	242.11	242.13	1.43	0.59	1.82	5.0E-02	120.0	2.831	0.068	2.763	42.6	26.2	86.62	0.60	0.00	5.2	77.4	42.0	2.216	536.6	-9999.0	-9999.0
47.244	234.89	234.91	1.36	0.58	1.41	5.0E-02	120.0	2.835	0.070	2.765	41.4	25.4	83.94	0.59	0.00	5.3	76.6	42.0	2.244	527.2	-9999.0	-9999.0
47.309	226.84	226.86	1.28	0.57	1.41	5.0E-02	120.0	2.839	0.072	2.767	40.0	24.6	80.97	0.57	0.00	5.4	75.6	42.0	2.276	516.4	-9999.0	-9999.0
47.375	219.69	219.71	1.21	0.55	1.43	5.0E-02	120.0	2.843	0.074	2.768	38.8	23.9	78.34	0.56	0.00	5.5	74.6	42.0	2.305	506.4	-9999.0	-9999.0
47.440	211.70	211.72	1.17	0.55	1.39	5.0E-02	120.0	2.846	0.076	2.770	37.6	23.1	75.40	0.56	0.00	5.8	73.6	40.0	2.338	494.9	-9999.0	-9999.0
47.506	205.25	205.26	1.12	0.55	1.41	5.0E-02	120.0	2.850	0.078	2.772	36.6	22.4	73.02	0.55	0.00	5.9	72.7	40.0	2.365	485.4	-9999.0	-9999.0
47.572	199.18	199.19	1.09	0.55	1.04	5.0E-02	120.0	2.854	0.080	2.774	35.6	21.9	70.78	0.56	0.00	6.2	71.8	40.0	2.390	476.2	-9999.0	-9999.0
47.637	195.28	195.30	1.06	0.54	1.08	5.0E-02	120.0	2.858	0.082	2.776	35.0	21.5	69.32	0.55	0.00	6.3	71.2	40.0	2.408	470.2	-9999.0	-9999.0
47.703	193.63	193.64	1.03	0.53	1.27	5.0E-02	120.0	2.862	0.084	2.778	34.7	21.3	68.68	0.54	0.00	6.2	71.0	40.0	2.415	467.7	-9999.0	-9999.0
47.768	191.97	191.98	0.99	0.52	1.19	5.0E-02	120.0	2.866	0.086	2.780	34.3	21.0	68.03	0.52	0.00	6.1	70.7	40.0	2.423	465.2	-9999.0	-9999.0
47.834	192.29	192.30	0.96	0.50	1.29	5.0E-02	120.0	2.870	0.088	2.782	34.3	21.0	68.10	0.51	0.00	6.0	70.7	40.0	2.422	465.8	-9999.0	-9999.0
47.900	193.24	193.25	0.97	0.50	1.37	5.0E-02	120.0	2.874	0.091	2.784	34.5	21.1	68.40	0.51	0.00	6.0	70.9	40.0	2.419	467.4	-9999.0	-9999.0
47.965	195.15	195.17	0.92	0.47	1.35	5.0E-02	120.0	2.878	0.093	2.785	34.6	21.2	69.04	0.48	0.00	5.0	71.1	40.0	2.411	470.6	-9999.0	-9999.0
48.031	198.03	198.05	0.91	0.46	1.54	5.0E-02	120.0	2.882	0.095	2.787	34.9	21.4	70.02	0.47	0.00	5.0	71.6	40.0	2.400	475.2	-9999.0	-9999.0
48.097	200.15	200.16	0.94	0.47	1.62	5.0E-02	120.0	2.886	0.097	2.789	35.3	21.6	70.73	0.48	0.00	5.0	71.8	40.0	2.391	478.6	-9999.0	-9999.0
48.162	201.48	201.49	1.01	0.50	1.41	5.0E-02	120.0	2.890	0.099	2.791	35.7	21.9	71.16	0.51	0.00	5.7	72.0	40.0	2.386	480.8	-9999.0	-9999.0
48.228	201.80	201.82	1.08	0.54	2.02	5.0E-02	120.0	2.894	0.101	2.793	36.0	22.0	71.22	0.54	0.00	6.0	72.1	40.0	2.386	481.5	-9999.0	-9999.0
48.293	208.26	208.28	1.18	0.57	1.84	5.0E-02	120.0	2.898	0.103	2.795	37.2	22.7	73.48	0.58	0.00	6.0	73.0	40.0	2.360	491.4	-9999.0	-9999.0
48.359	218.86	218.88	1.27	0.58	1.88	5.0E-02	120.0	2.902	0.105	2.797	38.9	23.8	77.23	0.59	0.00	5.8	74.4	40.0	2.317	507.2	-9999.0	-9999.0
48.425	231.89	231.91	1.33	0.57	1.94	5.0E-02	120.0	2.906	0.107	2.799	40.9	25.0	81.83	0.58	0.00	5.4	76.0	42.0	2.266	525.6	-9999.0	-9999.0
48.490	245.37	245.39	1.39	0.57	2.29	5.0E-02	120.0	2.909	0.109	2.801	42.9	26.2	86.58	0.57	0.00	5.0	77.6	42.0	2.216	543.7	-9999.0	-9999.0
48.556	257.25	257.28	1.44	0.56	2.21	5.0E-02	120.0	2.913	0.111	2.802	44.7	27.3	90.77	0.57	0.00	4.7	79.0	42.0	2.173	559.2	-9999.0	-9999.0
48.621	262.56	262.58	1.49	0.57	2.41	5.0E-02	120.0	2.917	0.113	2.804	45.6	27.8	92.60	0.58	0.00	4.6	79.5	42.0	2.156	566.2	-9999.0	-9999.0
48.687	267.60	267.62	1.56	0.58	2.29	5.0E-02	120.0	2.921	0.115	2.806	46.5	28.4	94.33	0.59	0.00	4.6	80.1	42.0	2.141	572.9	-9999.0	-9999.0
48.753	268.68	268.70	1.59	0.59	2.13	5.0E-02	120.0	2.925	0.117	2.808	46.7	28.5	94.65	0.60	0.00	4.7	80.2	42.0	2.138	574.5	-9999.0	-9999.0
48.818	265.30	265.33	1.59	0.60	2.11	5.0E-02	120.0	2.929	0.119	2.810	46.2	28.2	93.38	0.61	0.00	4.8	79.8	42.0	2.149	570.2	-9999.0	-9999.0
48.884	264.85	264.88	1.60	0.61	2.09	5.0E-02	120.0	2.933	0.121	2.812	46.2	28.2	93.16	0.61	0.00	4.9	79.8	42.0	2.151	569.7	-9999.0	-9999.0
48.950	264.21	264.23	1.56	0.59	2.02	5.0E-02	120.0	2.937	0.123	2.814	46.0	28.0	92.86	0.60	0.00	4.8	79.7	42.0	2.153	569.0	-9999.0	-9999.0
49.015	262.94	262.96	1.57	0.60	1.74	5.0E-02	120.0	2.941	0.125	2.816	45.9	27.9	92.35	0.61	0.00	4.8	79.5	42.0	2.158	567.5	-9999.0	-9999.0
49.081	261.02	261.04	1.67	0.64	1.10	5.0E-02	120.0	2.945	0.127	2.817	45.9	27.9	91.60	0.65	0.00	5.2	79.3	42.0	2.165	565.2	-9999.0	-9999.0

Col-02	Col-05	Col-06	Col-07	Col-08	Col-09	Col-14	Col-15	Col-16	Col-17	Col-18	Col-22	Col-23	Col-24	Col-25	Col-26	Col-28	Col-30	Col-31	Col-33	Col-34	Col-35	Col-36
Depth	qc	qt	fs	Rf	u	Perm-k	Unit Wt	T Stress	U Stress	E Stress	N(60)Ic	N1(60)Ic	Qt	Fr	Bq	FC	Dr	Phi	Es/qt	YoungE	Su	OCR
(ft)	(tsf)	(tsf)	(tsf)	(%)	(ft)	(cm/s)	(pcf)	(kPa)	(tsf)	(tsf)	(b/ft)	(b/ft)		(%)		(%)	(%)	(deg)		(tsf)	(tsf)	
49.146	256.10	256.12	1.66	0.65	1.62	5.0E-02	120.0	2.949	0.129	2.819	45.2	27.5	89.80	0.66	0.00	5.4	78.8	42.0	2.182	559.0	-9999.0	-9999.0
49.212	246.07	246.08	1.62	0.66	1.50	5.0E-02	120.0	2.953	0.132	2.821	43.7	26.6	86.18	0.67	0.00	5.7	77.6	42.0	2.219	546.1	-9999.0	-9999.0
49.278	235.91	235.93	1.70	0.72	1.54	5.0E-02	120.0	2.957	0.134	2.823	42.4	25.8	82.52	0.73	0.00	6.4	76.4	42.0	2.258	532.8	-9999.0	-9999.0
49.343	227.03	227.05	1.61	0.71	1.45	5.0E-02	120.0	2.961	0.136	2.825	40.9	24.9	79.32	0.72	0.00	6.6	75.3	42.0	2.294	520.8	-9999.0	-9999.0
49.409	219.43	219.45	1.53	0.70	2.04	5.0E-02	120.0	2.965	0.138	2.827	39.7	24.1	76.58	0.71	0.00	6.8	74.3	40.0	2.325	510.1	-9999.0	-9999.0
49.474	213.37	213.38	1.49	0.70	1.50	5.0E-02	120.0	2.969	0.140	2.829	38.7	23.5	74.38	0.71	0.00	7.0	73.5	40.0	2.350	501.4	-9999.0	-9999.0
49.540	212.67	212.68	1.59	0.75	1.37	5.0E-02	120.0	2.972	0.142	2.831	38.9	23.6	74.08	0.76	0.00	7.4	73.4	40.0	2.353	500.4	-9999.0	-9999.0
49.606	206.27	206.29	1.53	0.74	2.11	5.0E-02	120.0	2.976	0.144	2.833	37.8	23.0	71.78	0.75	0.00	7.5	72.5	40.0	2.380	490.9	-9999.0	-9999.0
49.671	205.32	205.34	1.59	0.78	1.78	5.0E-02	120.0	2.980	0.146	2.834	37.8	22.9	71.39	0.79	0.00	7.8	72.3	40.0	2.384	489.6	-9999.0	-9999.0
49.737	206.34	206.36	1.55	0.75	1.66	5.0E-02	120.0	2.984	0.148	2.836	37.9	23.0	71.70	0.76	0.00	7.6	72.5	40.0	2.381	491.3	-9999.0	-9999.0
49.803	211.70	211.72	0.01	0.00	1.78	5.0E+00	120.0	2.988	0.150	2.838	-9999.0	-9999.0	73.54	0.00	0.00	-9999.0	73.2	40.0	2.359	499.5	-9999.0	-9999.0
49.868	215.02	215.04	0.01	0.00	2.04	5.0E+00	120.0	2.992	0.152	2.840	-9999.0	-9999.0	74.66	0.00	0.00	-9999.0	73.6	40.0	2.346	504.6	-9999.0	-9999.0
49.934	214.32	214.34	0.01	0.00	2.11	5.0E+00	120.0	2.996	0.154	2.842	-9999.0	-9999.0	74.36	0.00	0.00	-9999.0	73.5	40.0	2.350	503.7	-9999.0	-9999.0
49.999	213.56	213.58	0.01	0.00	2.25	5.0E+00	120.0	3.000	0.156	2.844	-9999.0	-9999.0	74.05	0.00	0.00	-9999.0	73.4	40.0	2.354	502.7	-9999.0	-9999.0
50.065	215.28	215.31	0.01	0.00	2.11	5.0E+00	120.0	3.004	0.158	2.846	-9999.0	-9999.0	74.60	0.00	0.00	-9999.0	73.6	40.0	2.347	505.4	-9999.0	-9999.0

PORE PRESSURE DISSIPATION TEST PROCEDURES AND RESULTS

Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (u) with time is measured behind the tip of the cone and recorded by a computer system.

Pore pressure dissipation data can be interpreted to provide estimates of:

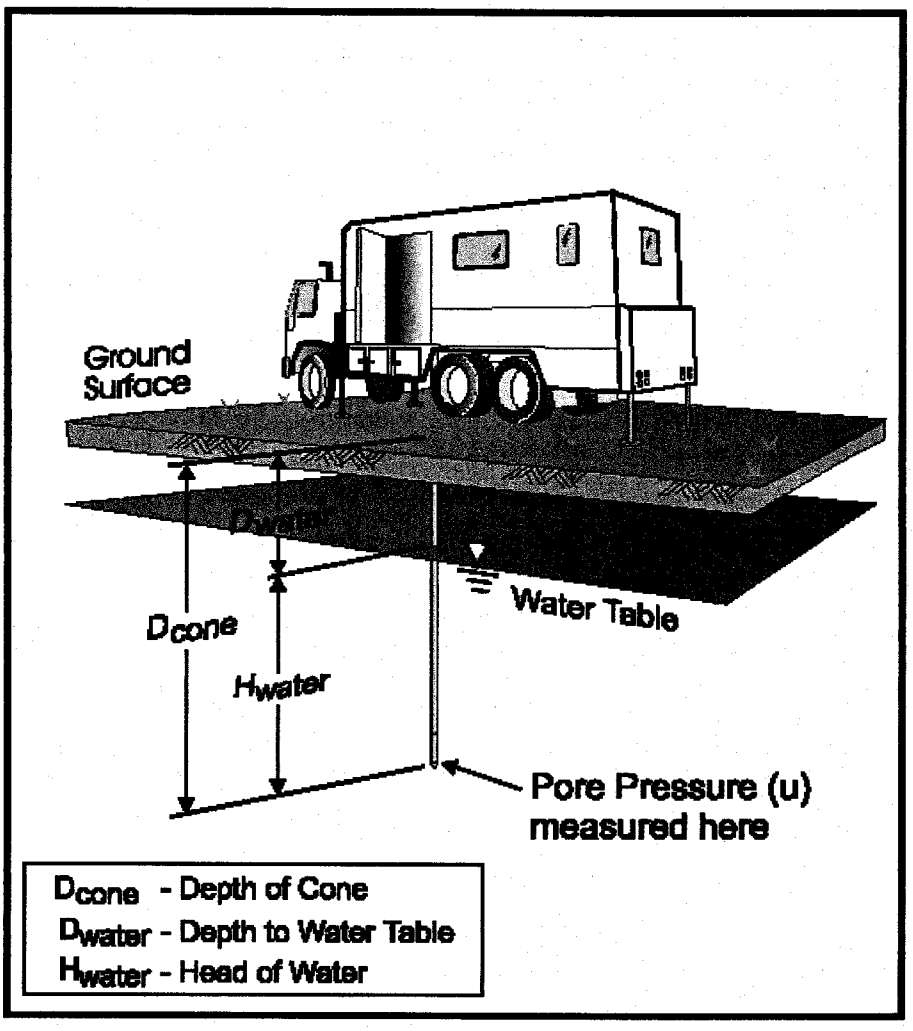
- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permability (k_h)

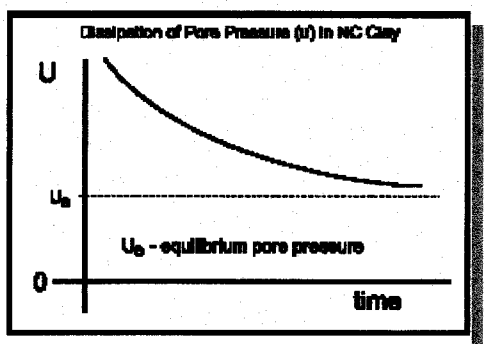
In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time (refer to Figure PPD). This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

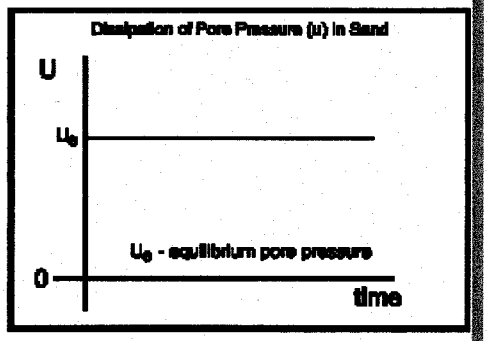
Interpretation of either c_h and k_h from dissipation results can be most easily achieved using either of two analytical approaches: cavity-expansion theory or the strain-path approach. Comparisons of the available solutions and results from field studies suggest that the cavity-expansion method of Torstensson (1977) and the strain-path approaches of Levadous (1980) and Teh (1987) all provide similar predications of consolidation parameters from CPTU dissipation data (Gillespie 1981; Kabir and Lutenegger 1990; Robertson et al. (1991). Robertson et al. (1991) have shown that these methods, although developed for normally consolidated soils, can be equally applied to overconsolidated soils. Furthermore, comparisons of field and laboratory data indicate that the trends in the measured (laboratory) and predicated (CPTU) data are consistent provided the micro fabric and nature of the soils being tested are taken into consideration. (Danziger 1990; Robertson et al. 1991).

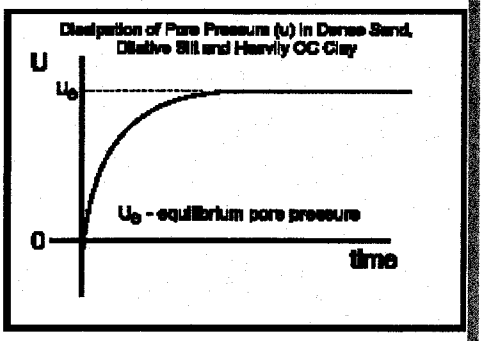
A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1991.

A summary of the pore pressure dissipation tests is summarized in Table PPD (Appendix PPD). Pore pressure dissipation data is presented in Appendix PPD.









Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors:

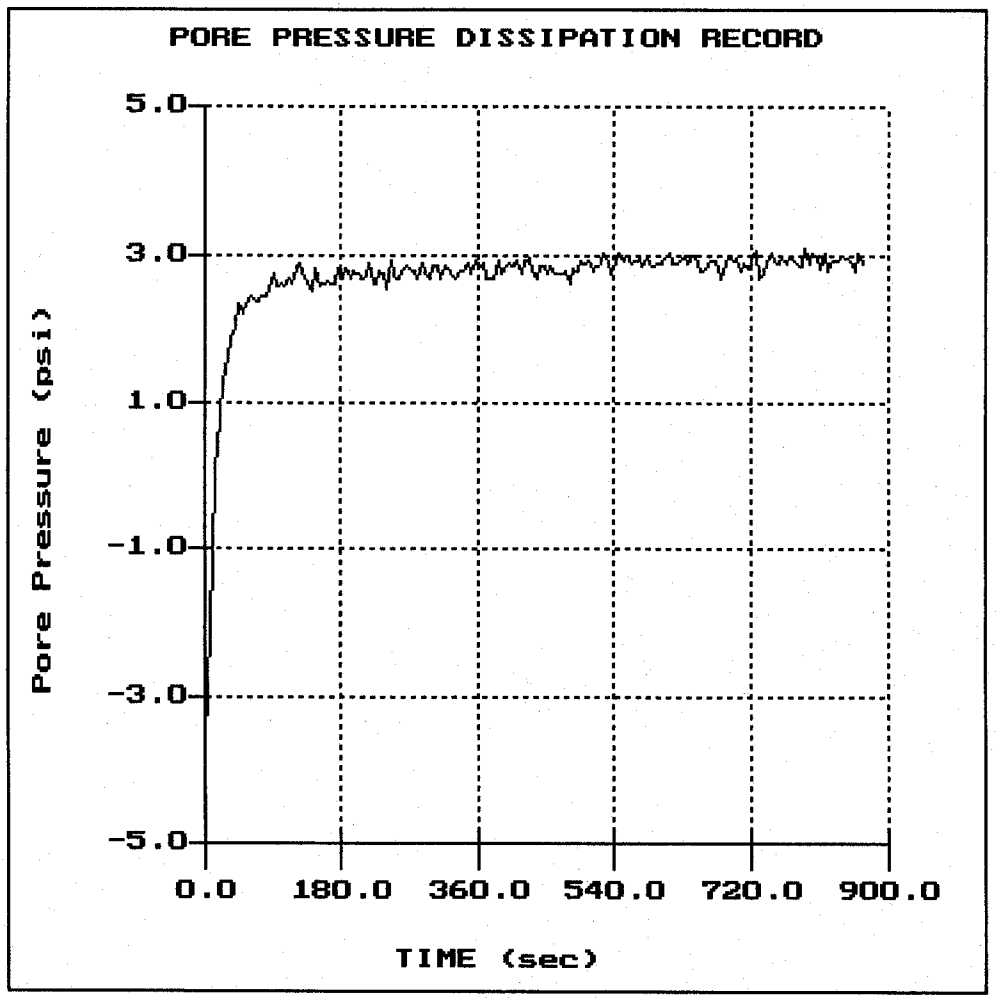
1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure PPD

MACTEC

Sounding:CPT-01
Location:Allen Plant

Oversight:H. Benkhay
Date:07:20:04 10:19

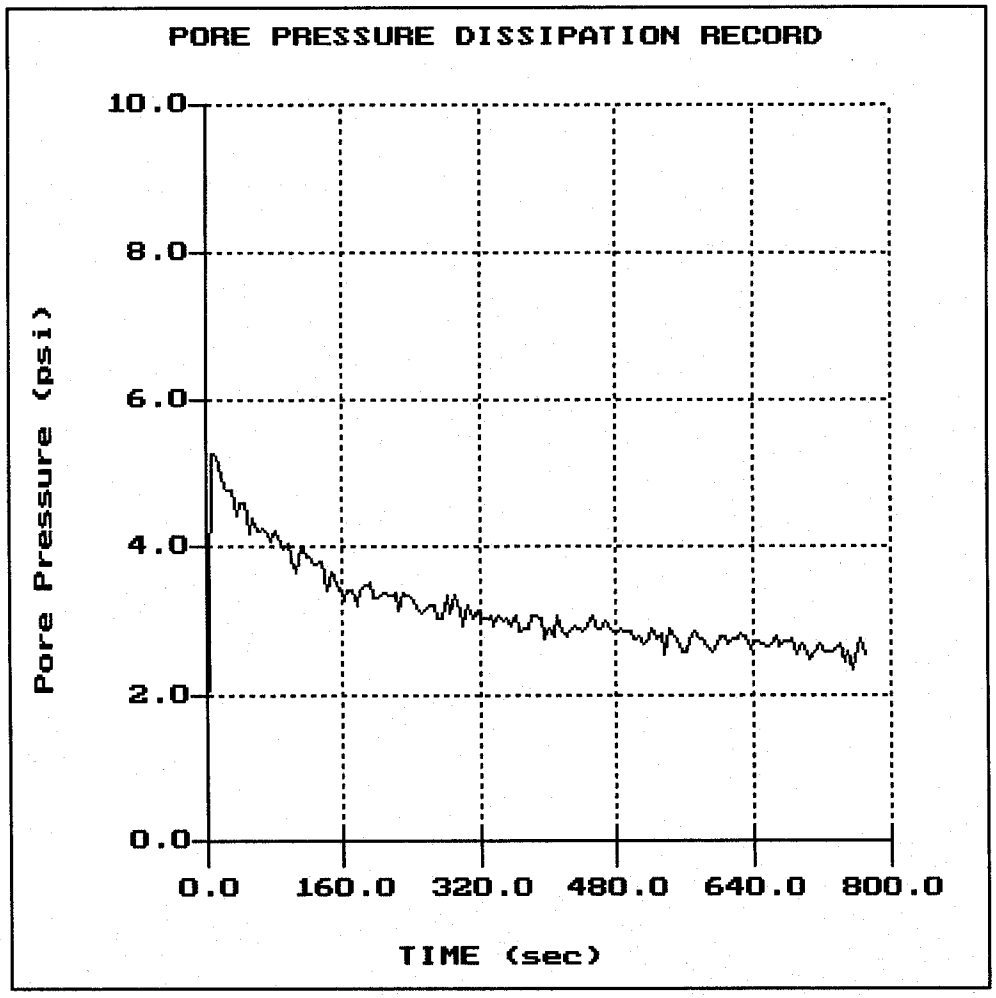


File: 130CP01.PPD
Depth (m): 12.48
(ft): 40.94
Duration : 865.0s
U-min: -3.64 0.0s
U-max: 3.09 790.0s

MACTEC

Sounding:CPT-02
Location:Allen Plant

Oversight:H. Benkhay
Date:07:20:04 11:13

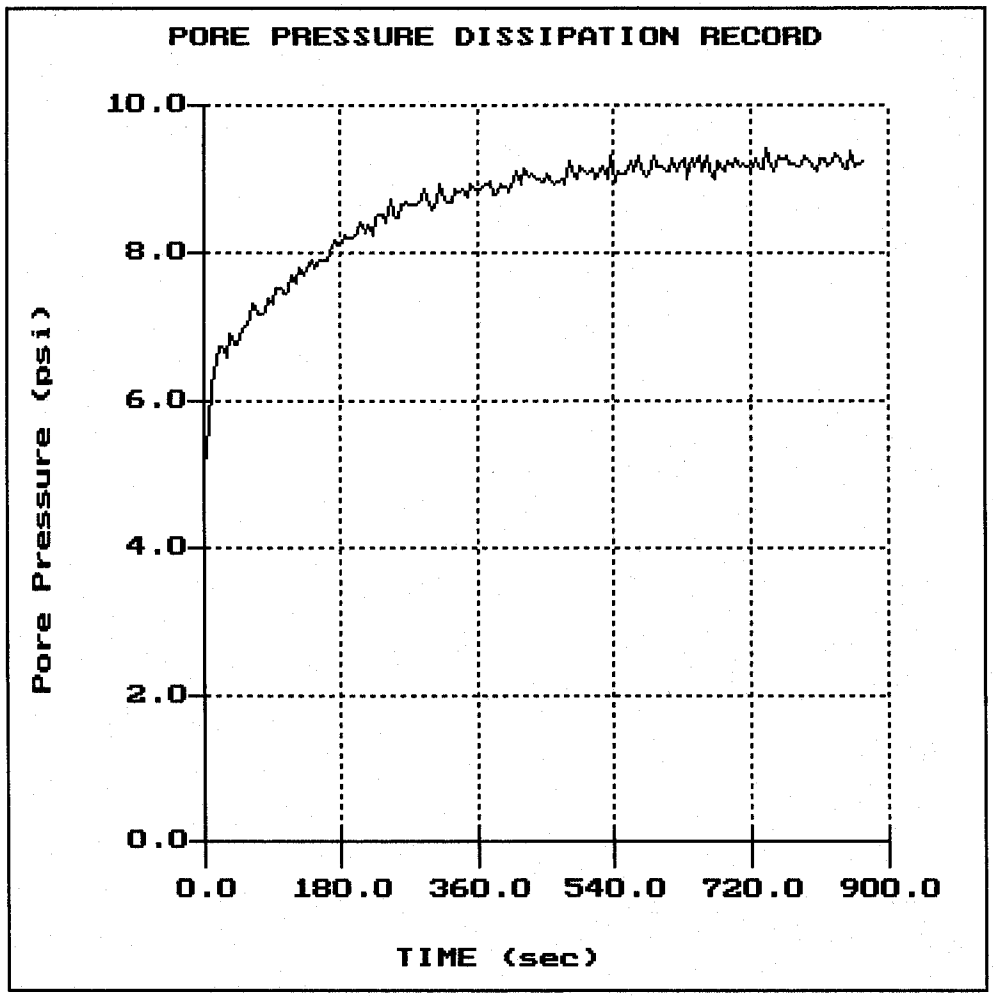


File: 130CP02.PPD
Depth (m): 11.68
(ft): 38.32
Duration : 770.0s
U-min: 0.94 0.0s
U-max: 5.23 10.0s

MACTEC

Sounding:CPT-03
Location:Allen Plant

Oversight:H. Benkhay
Date:07:20:04 12:06

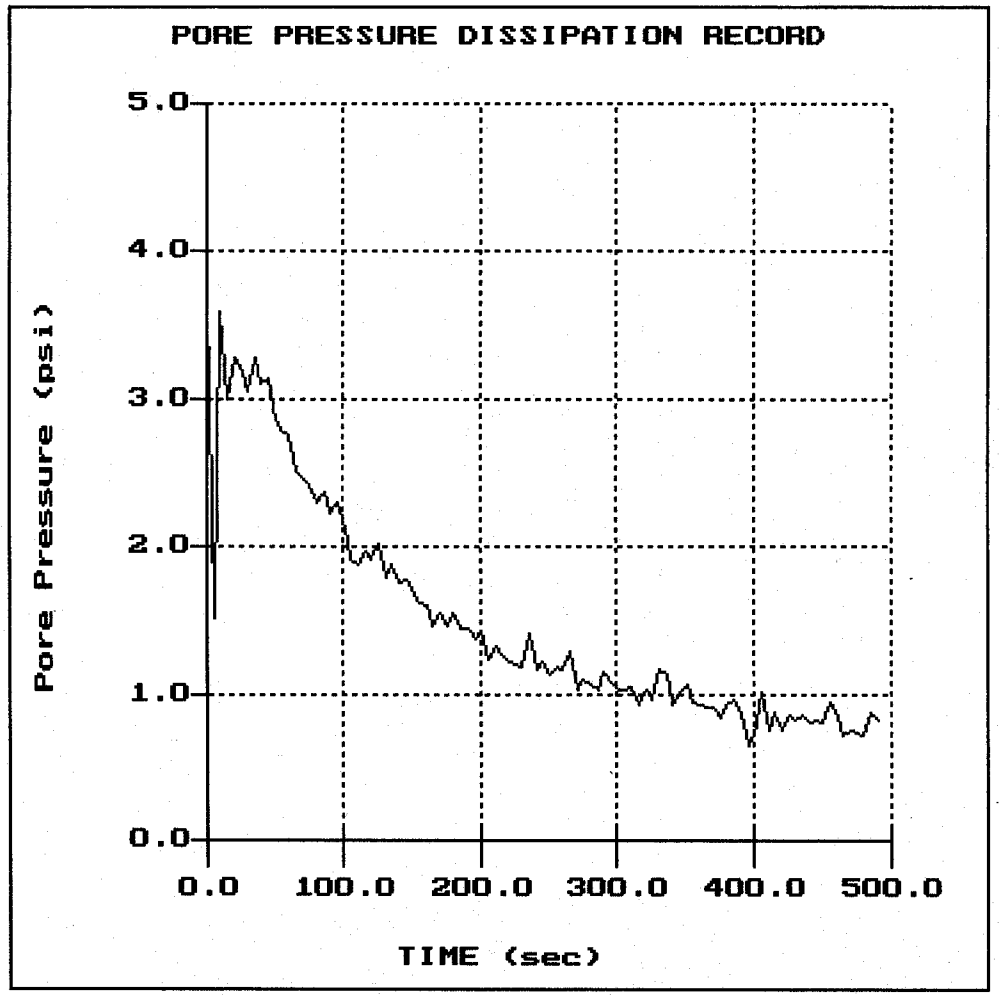


File: 130CP03.PPD
Depth (m): 18.44
(ft): 60.50
Duration : 865.0s
U-min: 5.07 0.0s
U-max: 9.40 740.0s

MACTEC

Sounding:CPT-05
Location:Allen Plant

Oversight:H. Benkhay
Date:07:20:04 14:24



File: 130CP05.PPD
Depth (m): 14.26
(ft): 46.78
Duration : 490.0s
U-min: 0.65 395.0s
U-max: 3.70 0.0s

SEISMIC CONE PENETROMETER TESTING PROCEDURES AND RESULTS

Seismic Cone Penetrometer Testing
(SCPTu)

Gregg In Situ, Inc. uses a modified CPT cone that contains a built in seismometer to measure compression and shear wave velocities in addition to the standard piezocone parameters (q_c, f_s, and u_2). Therefore, four independent readings are compiled with depth in a single sounding. The standard CPT parameters are recorded continuously while the seismic test is usually performed at every rod change (typically 1m intervals).

Shear waves are generated by striking a seismic beam coupled to the ground surface by a hydraulic cylinder under the CPT rig, *Figure SCPTu*. Compression waves are generated by striking an auger in the ground. The sledgehammer that strikes the beam/auger acts as a trigger, initiating the recording of the seismic wave trace. Before measurements are taken, the rods are decoupled from the CPT rig to prevent energy transmission down the rods.

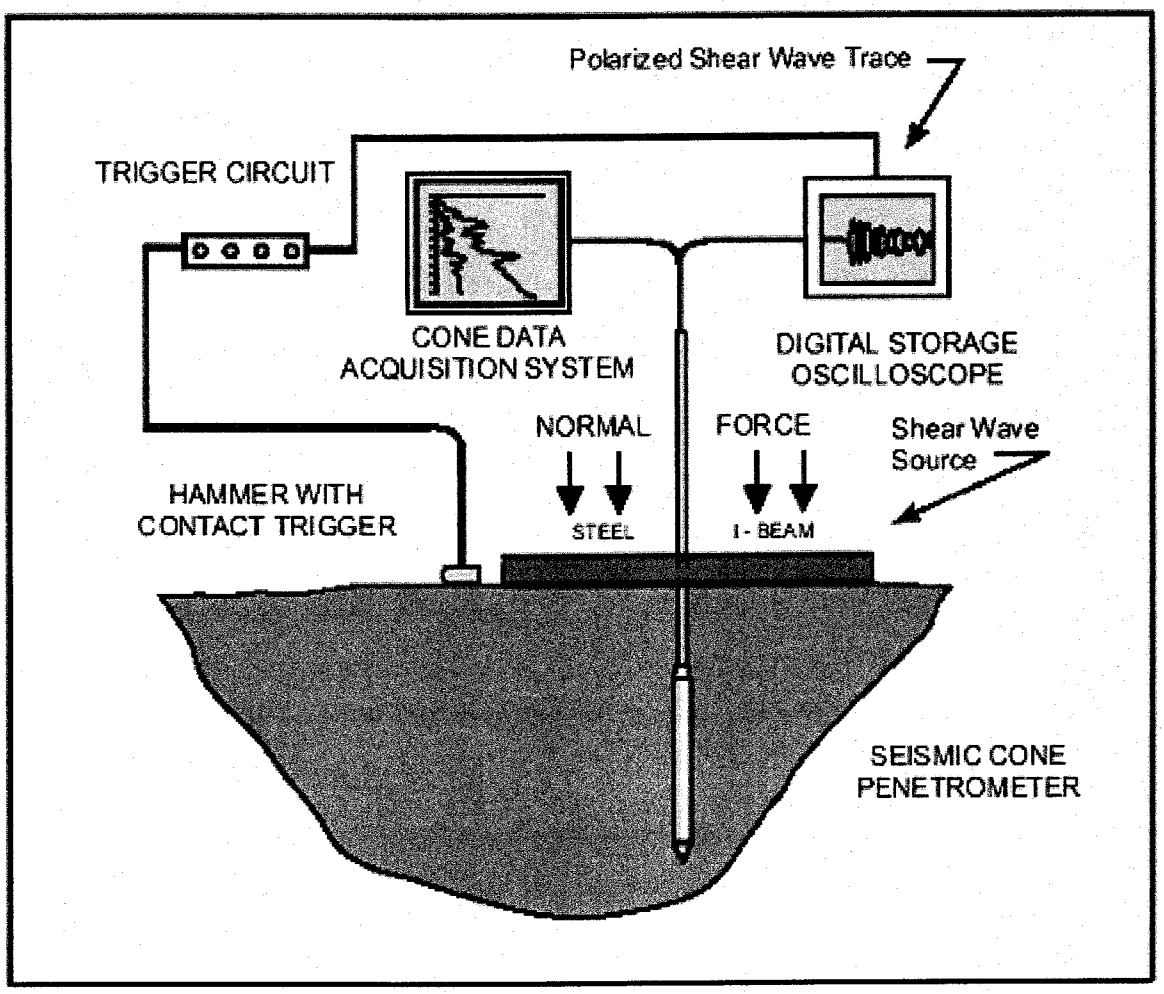


Figure SCPTu

Geophones in the body of the piezocone recognize the arriving waves generated at the ground surface, *Figure Seismic*. Any waves received by the geophones on the cone penetrometer are sent back up to the truck to be displayed on an oscilloscope. On site software then plots the wave amplitude versus time to calculate wave velocities.

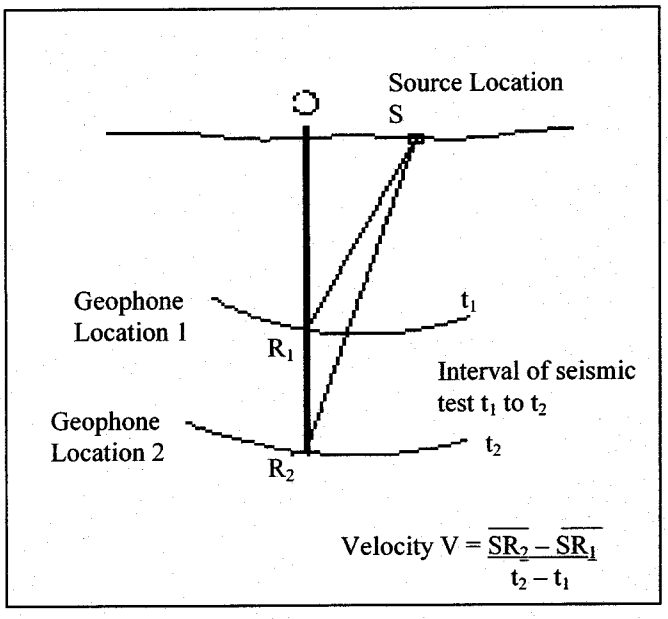


Figure Seismic

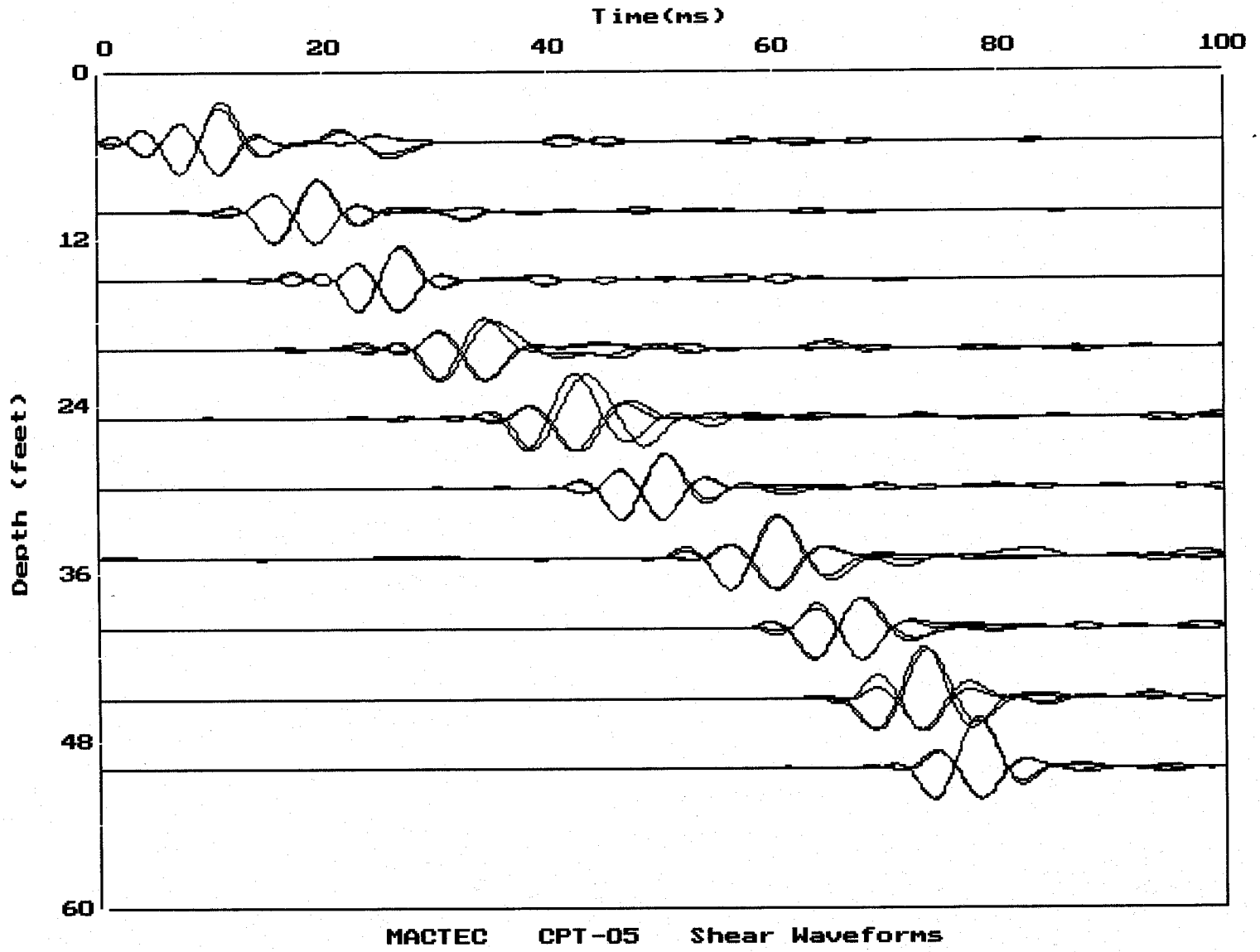
At least two waves are recorded for each test depth so the operator can check consistency of the waveforms. Data is sampled at a frequency of 20kHz (20,000 samples per second). To maintain a desired signal resolution, the input sensitivity (gain) is increased with depth.

Offset distances of the beam from the cone and the location of the geophone are all taken into account in calculations.

The shear wave velocity (V_s) provides information about small-strain stiffness while the penetration data provides information about large-strain failures. From interval shear wave velocity (V_s) and the mass density (ρ) of a soil layer, the dynamic shear modulus (G_o) of the soil can be calculated in a specific depth interval. The dynamic shear modulus (G_0) is a key parameter for the analysis of soil behavior in response to dynamic loading from earthquakes, ice, vibrating machine foundations, waves and wind.

A summary of the data collected including the depth and location identification is displayed in chart and graphical formats and can be found in Appendix: SCPTu.

For a detailed reference on seismic CPT, refer to Robertson et. al., 1986.


Time(ms)
0
20
40
60
80
100
Depth (feet)
0
12
24
36
48
60
MACTEC CPT-05 Shear Waveforms

GREGG

Shear Wave Velocity Calculations

Allen Fossil Plant

Memphis, Tennessee

CPT-05

Geophone Offset: 0.66 Feet

Source Offset: 1.67 Feet

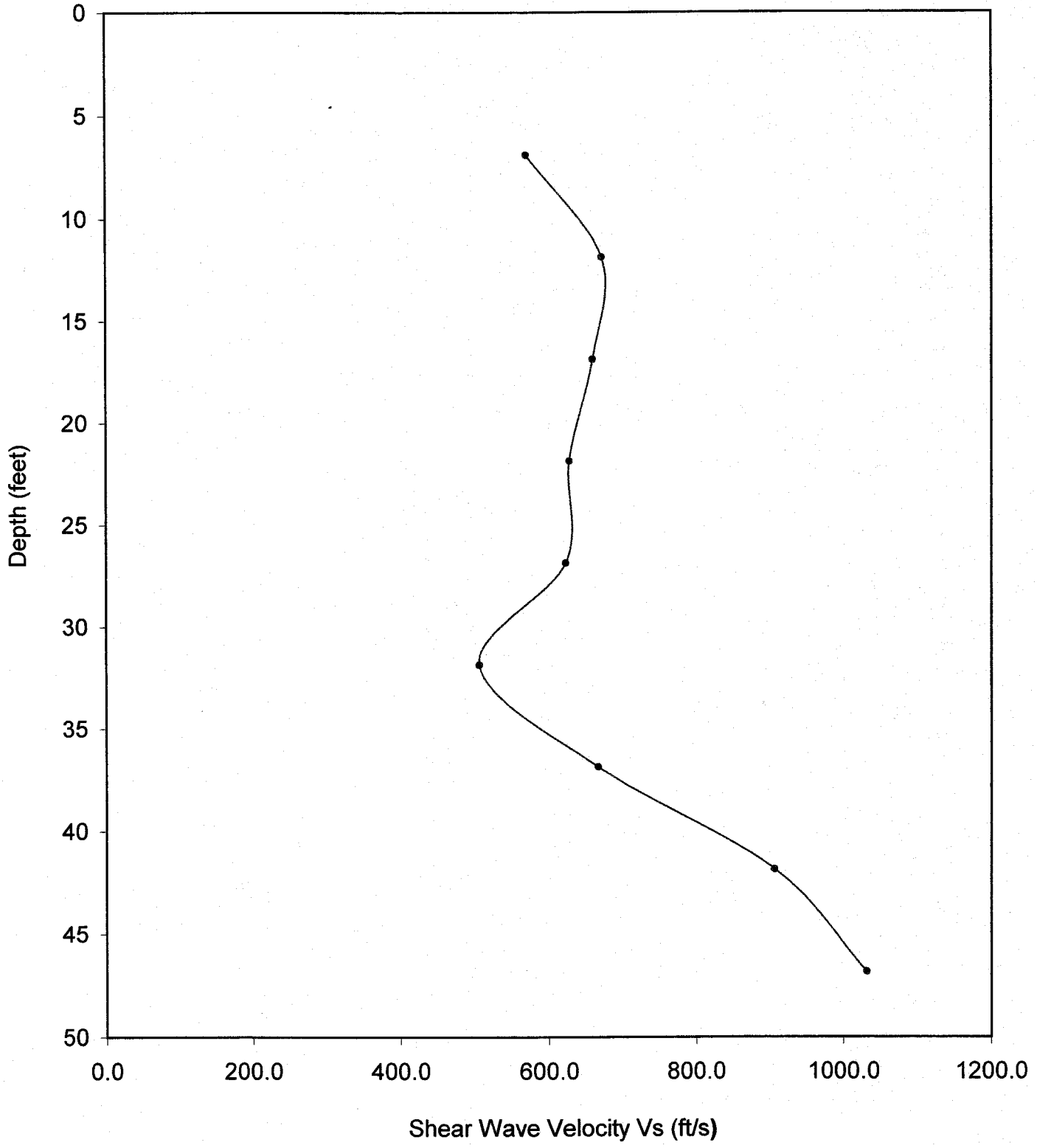
Test Depth (feet)	Geophone Depth (feet)	Waveform Ray Path (feet)	Incremental Distance (feet)	Characteristic Arrival Time (ms)	Incremental Time Interval (ms)	Interval Velocity (ft/s)	Interval Depth (feet)
5.05	4.39	4.70	4.70	9.02			
10.04	9.38	9.53	4.83	17.48	8.46	571.1	6.89
15.02	14.36	14.46	4.93	24.81	7.33	672.5	11.87
20.01	19.35	19.43	4.97	32.33	7.52	660.3	16.86
24.99	24.33	24.39	4.97	40.23	7.90	628.5	21.84
30.04	29.38	29.43	5.04	48.31	8.08	623.8	26.86
35.00	34.34	34.38	4.95	58.08	9.77	507.0	31.86
40.02	39.36	39.40	5.01	65.60	7.52	666.9	36.85
44.97	44.31	44.35	4.95	71.05	5.45	907.5	41.84
50.02	49.36	49.39	5.05	75.94	4.89	1032.1	46.84

GREGG

Shear Wave Velocity Profile

Allen Fossil Plant

CPT-05



APPENDIX D

LABORATORY TEST PROCEDURES

LABORATORY TEST RESULTS

LABORATORY TEST PROCEDURES

Moisture Content

The moisture content in a given mass of soil is the ratio, expressed as a percentage, of the weight of the water to the weight of the solid particles. This test was conducted in accordance with ASTM D-2216.

Atterberg Limits (Plasticity Index)

Originally, the Atterberg Limits consisted of seven "limits of consistency" of fine-grained soils. In current engineering usage, the term usually refers only to the liquid limit (LL) and plastic limit (PL). The LL (between the liquid and plastic states) is the water content at which a trapezoidal groove of specified shape, cut in moist soil held in a special cup, is closed after 25 taps on a hard rubber plate. The PL (between plastic and semi-solid states) is the water content at which the soil crumbles when rolled into threads of 1/8-inch in diameter.

The LL has been found to be proportional to the compressibility of the normally consolidated soil. The Plasticity Index (PI) is the calculated difference in water contents between the LL and PL. Together the LL and PI are used to classify silts and clays according to the Unified Soils Classification System (ASTM D 2487). The PI is used to predict the potential for volume changes in confined soils beneath foundations or grade slabs. The LL, PL, and PI are determined in accordance with ASTM D 4318.

Triaxial Shear Tests

Triaxial shear tests are used to determine the strength characteristics (cohesion and friction angle) of a given soil sample. Triaxial tests are also used to determine the elastic properties of the soil specimen.

Triaxial shear tests are performed on several sections of a relatively undisturbed sample extruded from the sampling tube or on remolded samples. The samples are trimmed into cylinders 1.4 to 2.8 inches in diameter and encased in rubber membranes. Each is then placed in a compression chamber and confined by all-around air pressure. The test results are presented in the form of

stress-strain curves and Mohr envelopes, or p-q plots on the accompanying Triaxial Shear Test Sheets.

One of three types of triaxial tests is normally performed, the most suitable type being determined by the loading conditions imposed on the soil in the field and the soil characteristics.

1. Consolidated-Undrained (Designated as a CU or R Test)
2. Consolidated-Drained (designated as a CD or S Test)
3. Unconsolidated-Undrained (designated as a UU or Q Test)

Grain Size Distribution

Grain size tests are performed to aid in determining the soil classification and the grain size distribution. The soil samples are prepared for testing according to ASTM D 421 (dry preparation) or ASTM D 2217 (wet preparation). If only the grain size distribution of soils coarser than a number 200 sieve (0.074-mm opening) is desired, the grain size distribution is determined by washing the sample over a number 200 sieve and, after drying, passing the samples through a standard set of nested sieves. If the grain size distribution of the soils finer than the number 200 sieve is also desired, the grain size distribution of the soils coarser than the number 10 sieve is determined by passing the sample through a set of nested sieves. Materials passing the number 10 sieve are dispersed with a dispersing agent and suspended in water, and the grain size distribution calculated from the measured settlement rate of the particles. These tests are conducted in accordance with ASTM D 422. The percentage of clay, silt, sand, and gravel which are given on the individual particle size analysis sheets presented later in this appendix, were obtained on particle size boundaries in accordance with AASHTO M145-94 (1995).

Specific Gravity

The specific gravity of soil solids is the ratio of the mass of a unit volume of a soil solids to the mass of the same volume of gas-free distilled water at 20C. The test method for determining the specific gravity of soil solids that passes the 4.75-mm (No. 4) sieve using a water pycnometer is described in ASTM D 854, Method B, "Test Methods for Specific Gravity of Soil Solids by Water Pycnometer".

TABLE D-1
Natural Moisture Content and Atterberg Limits Laboratory Test Results
TVA Allen East and West Ash Disposal Areas
MACTEC Project 3043041037/01

					Atterberg Limits		
Boring Number	Sample Number	Sample Type	Sample Depth (Feet)	Moisture Content (%)	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
EAD-1	S-1	SPT	1 - 2.5	101.5	Not Tested	Not Tested	Not Tested
EAD-1	S-2	SPT	4 - 5.5	139.3	Not Tested	Not Tested	Not Tested
EAD-1	S-3	SPT	7 - 8.5	24.7	Not Tested	Not Tested	Not Tested
EAD-1	S-4	SPT	10 - 11.5	24.8	Not Tested	Not Tested	Not Tested
EAD-1	S-5	SPT	13 - 14.5	135.7	Not Tested	Not Tested	Not Tested
EAD-1	S-6	SPT	16 - 17.5	65.2	Not Tested	Not Tested	Not Tested
EAD-1	S-7	SPT	20 - 21.5	19.8	Not Tested	Not Tested	Not Tested
EAD-1	S-8	SPT	25 - 26.5	12.8	Not Tested	Not Tested	Not Tested
EAD-1	S-9	SPT	28 - 29.5	23.8	Not Tested	Not Tested	Not Tested
EAD-1	S-10	SPT	34 - 35.5	36.8	Not Tested	Not Tested	Not Tested
EAD-1	S-11	SPT	40 - 41.5	29.2	Not Tested	Not Tested	Not Tested
EAD-1	S-12	SPT	45 - 46.5	26.9	Not Tested	Not Tested	Not Tested
EAD-1	S-13	SPT	50 - 51.5	20.1	Not Tested	Not Tested	Not Tested
EAD-1	S-14	SPT	55 - 56.5	21.6	Not Tested	Not Tested	Not Tested
EAD-3	S-1	SPT	1 - 2.5	2.9	Not Tested	Not Tested	Not Tested
EAD-3	S-2	SPT	4 - 5.5	3.8	Not Tested	Not Tested	Not Tested
EAD-3	S-3	SPT	10 - 11.5	19.3	Not Tested	Not Tested	Not Tested
EAD-3	S-5	SPT	19 - 20.5	16.2	Not Tested	Not Tested	Not Tested
EAD-3	S-6	SPT	22 - 23.5	14.4	Not Tested	Not Tested	Not Tested
EAD-3	S-8	SPT	32 - 33.5	36.9	Not Tested	Not Tested	Not Tested
EAD-3	S-9	SPT	35 - 36.5	34.7	Not Tested	Not Tested	Not Tested
EAD-3	S-10	SPT	40 - 41.5	25.2	Not Tested	Not Tested	Not Tested
EAD-3	S-11	SPT	45 - 46.5	28.6	Not Tested	Not Tested	Not Tested
EAD-3	S-12	SPT	50 - 51.5	35.3	Not Tested	Not Tested	Not Tested
WAD-3	S-1	SPT	1 - 2.5	6.4	Not Tested	Not Tested	Not Tested
WAD-3	S-2	SPT	4 - 5.5	31.8	Non-Plastic	Non-Plastic	Non-Plastic
WAD-3	S-3	SPT	7 - 8.5	29.4			
WAD-3	S-4	SPT	10 - 11.5	30.8	Not Tested	Not Tested	Not Tested
WAD-3	S-5	SPT	13 - 14.5	33.4	Not Tested	Not Tested	Not Tested
WAD-3	S-6	SPT	16 - 17.5	24.4	Not Tested	Not Tested	Not Tested
WAD-3	S-7	SPT	20 - 21.5	30.7	Not Tested	Not Tested	Not Tested
WAD-3	S-8	SPT	25 - 26.5	33.2	56	24	32
WAD-3	S-9	SPT	30 - 31.5	42.7			
WAD-3	S-10	SPT	35 - 36.5	38.0	Not Tested	Not Tested	Not Tested
WAD-3	S-11	SPT	40 - 41.5	13.9	Not Tested	Not Tested	Not Tested

Prepared/Date: REF 8/5/04
Checked/Date: HAB 8/5/04

TABLE D-2
Unit Weight and Natural Moisture Content Laboratory Test Results
TVA Allen East and West Ash Disposal Areas
MACTEC Project 3043041037/01

Boring Number	Depth (Feet)	Sample Type	Natural Moisture Content (%)	Dry Unit Weight (pcf)	Wet Unit Weight (pcf)
EAD-1	29.5 - 31.5	UD	37.4	80.8	111.0
EAD-3	15.0 - 17.0	UD	8.9	100.4	109.4
EAD-3	30.0 - 32.0	UD	39.1	81.9	113.9
WAD-2	6.0 - 8.0	UD	10.9	113.7	126.1
WAD-2	12.0 - 14.0	UD	12.8	113.5	128.0
WAD-2	33.0 - 35.0	UD	25.3	95.6	119.8

Prepared/Date: REF 8/5/04
Checked/Date: HAB 8/5/04

TABLE D-3
Triaxial Compression Laboratory Test Results
TVA Allen East and West Ash Disposal Areas
MACTEC Project 3043041037/01

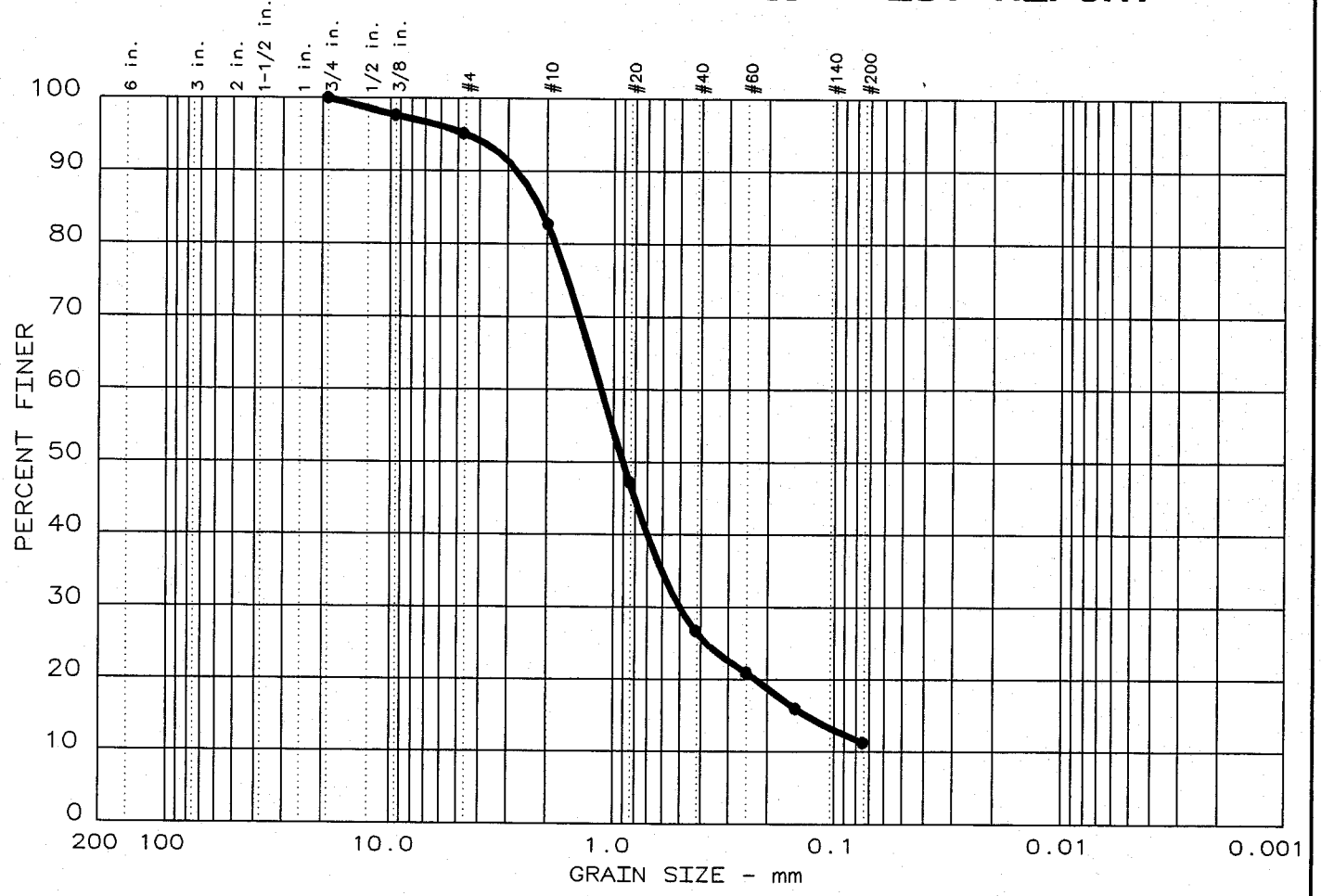
						CU Triaxial Test			
						Total		Effective	
Boring Number	Depth (Feet)	Sample Type	Material Type	Average Dry Density (pcf)	Average Moisture Content (%)	Cohesion, C (ksf)	Friction Angle, Φ (degrees)	Cohesion, C' (ksf)	Friction Angle, Φ' (degrees)
EAD-1	14 - 16	Undisturbed Sample	Ash	89.8	22.2	2.53	26.60	0.00	36.80
EAD-3	6 - 8	Undisturbed Sample	Ash	110.2	6.8	3.70	26.50	1.01	35.50
WAD-2	14 - 16	Undisturbed Sample	Ash and Coal	97.8	6.3	1.95	31.90	0.00	39.80
WAD-2	30 - 32	Undisturbed Sample	Alluvium	94.6	28.3	1.05	19.70	0.00	35.80

Prepared/Date: REF 8/16/04
Checked/Date: HAB 8/16/04

GRAIN SIZE ANALYSIS TEST RESULTS

EAST DISPOSAL AREA

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	1	0.0	4.8	83.9	11.3		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
0.75	100.0		
0.375	97.7		
	GRAIN SIZE		
D_{60}	1.14		
D_{30}			
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
4	95.2		
10	82.7		
20	47.2		
40	26.7		
60	21.0		
100	16.0		
200	11.3		

Sample information:
● EAD-1, SPT 7-8.5'
Black ash

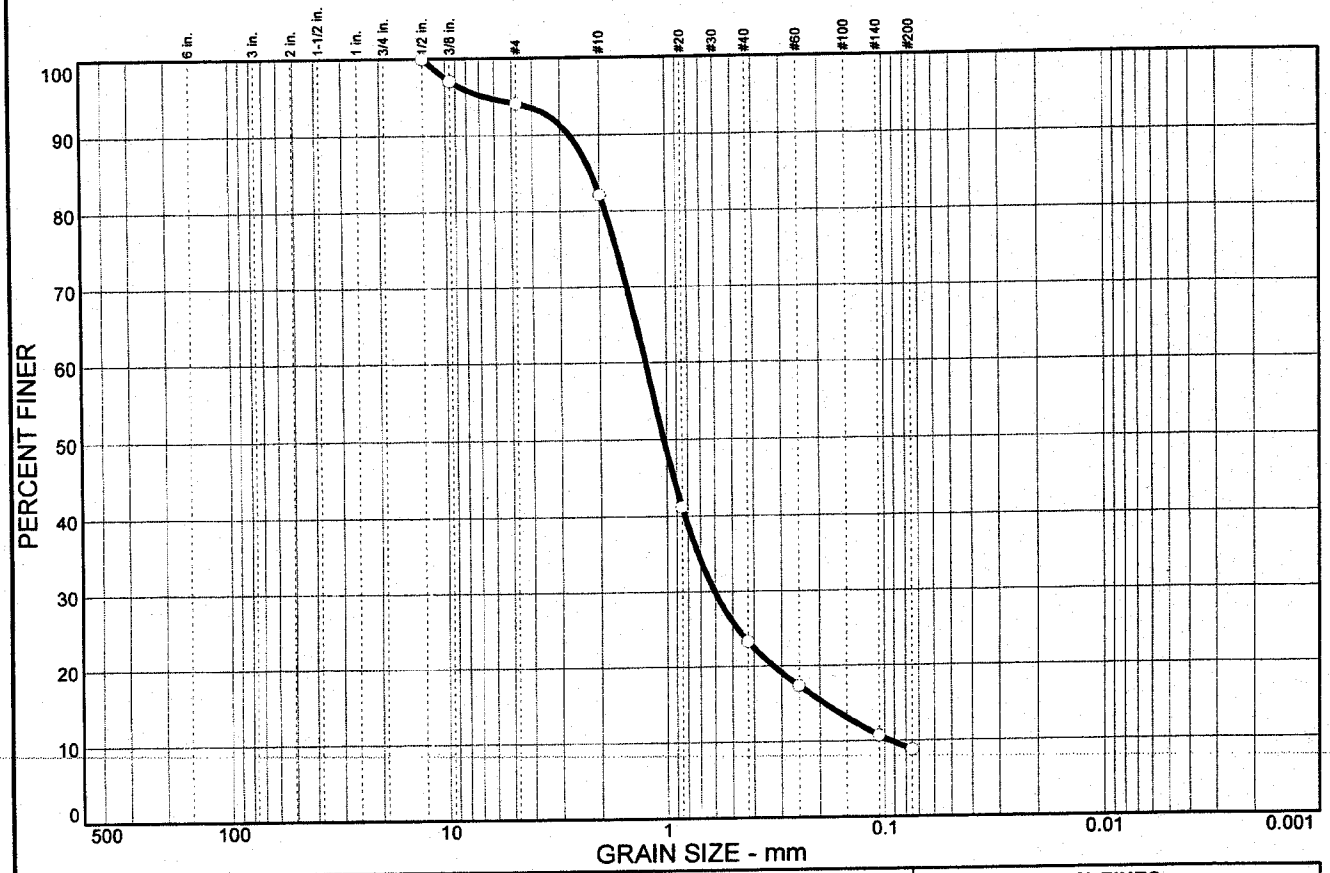
Remarks:
Methods: Particle Size:
ASTM D 422-63(2002);
%< No.200:ASTM D1140-00;
Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB Fig. No.: EAD

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	5.9	12.0	58.8	14.5	8.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5 in.	100.0		
0.375 in.	97.1		
#4	94.1		
#10	82.1		
#20	41.2		
#40	23.3		
#60	17.4		
#140	10.7		
#200	8.8		

* (no specification provided)

Soil Description

Gray Ash

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D_{85}= 2.19 D_{60}= 1.25 D_{50}= 1.03
D_{30}= 0.603 D_{15}= 0.190 D_{10}= 0.0940
C_u= 13.28 C_c= 3.10

Classification

USCS= AASHTO=

Remarks

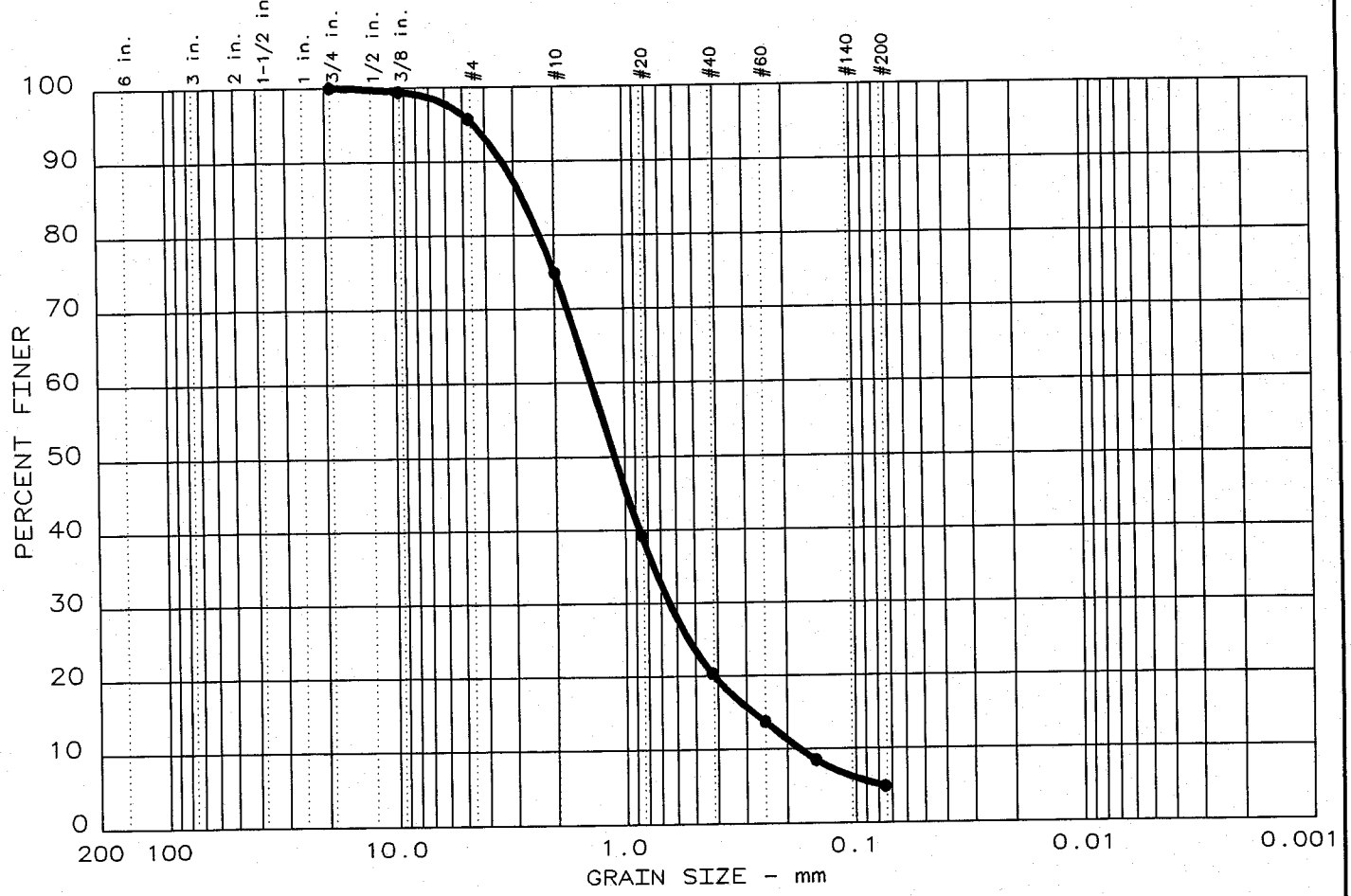
Sampled from top section of tube
Specific Gravity: 2.53

Sample No.: **Source of Sample:** **Date:** 08-12-04
Location: EAD-1 UD @ 14'-16' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAB **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	3	0.0	4.3	90.8	4.9		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
0.75	100.0		
0.375	99.4		
	GRAIN SIZE		
D_{60}	1.39		
D_{30}			
D_{10}	0.175		
	COEFFICIENTS		
C_c	1.70		
C_u	7.9		

SIEVE number size	PERCENT FINER ●		
4	95.7		
10	74.9		
20	39.2		
40	20.4		
60	13.7		
100	8.5		
200	4.9		

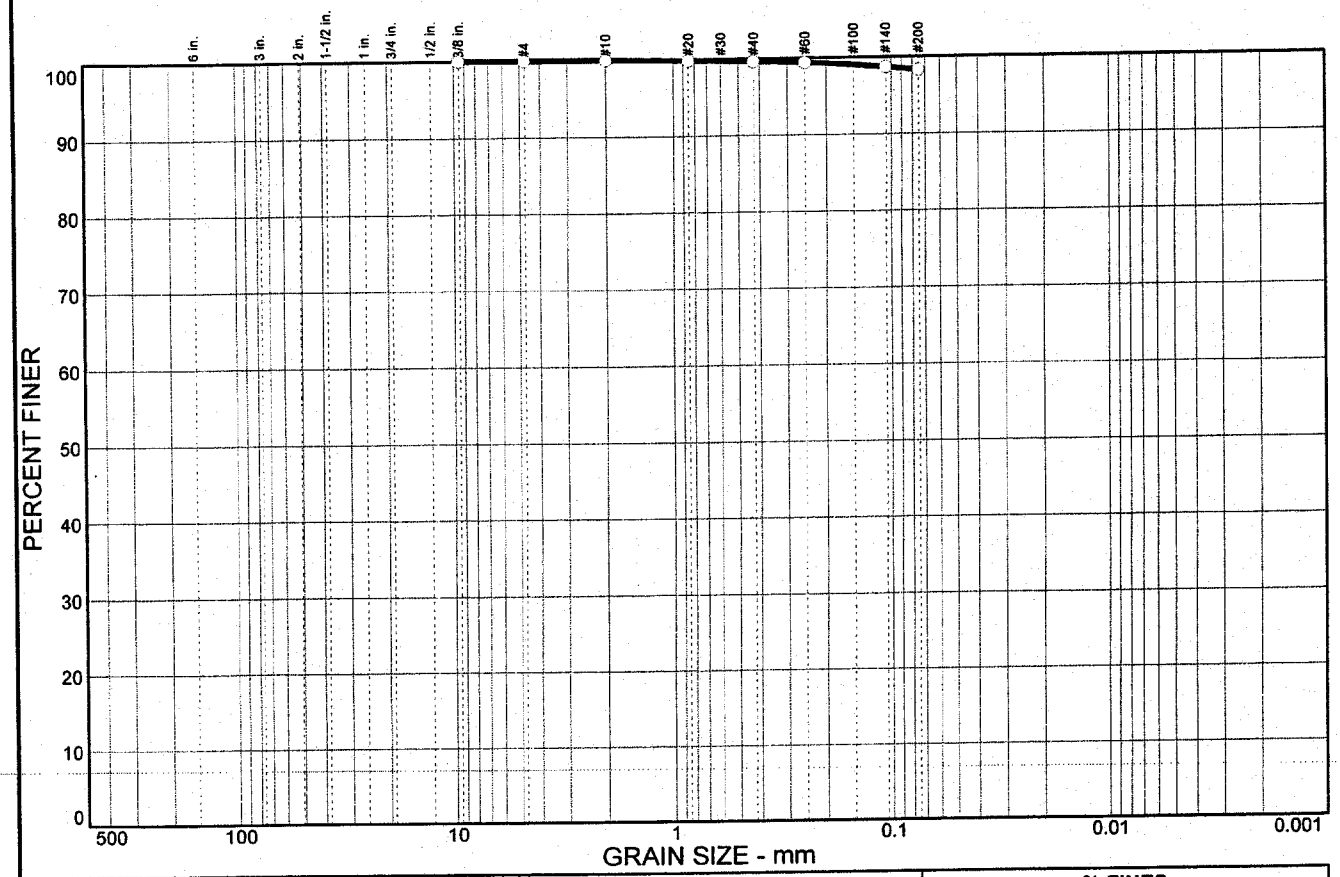
Sample information:
● EAD-1, SPT 25-26.5'
Black ash

Remarks:
Methods: Particle Size: ASTM D 422-63(2002); %< No.200: ASTM D1140-00; Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas
Date: August 11, 2004 HAB Fig. No.: EAD

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.4	1.3	98.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.6		
#60	99.4		
#140	98.7		
#200	98.3		

* (no specification provided)

Soil Description

Grey-Brown Silty Clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= D_{60}= D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sample No.: **Source of Sample:** **Date:** 08-10-04

Location: EAD-1 UD @ 29.5'-31.5' **Elev./Depth:**

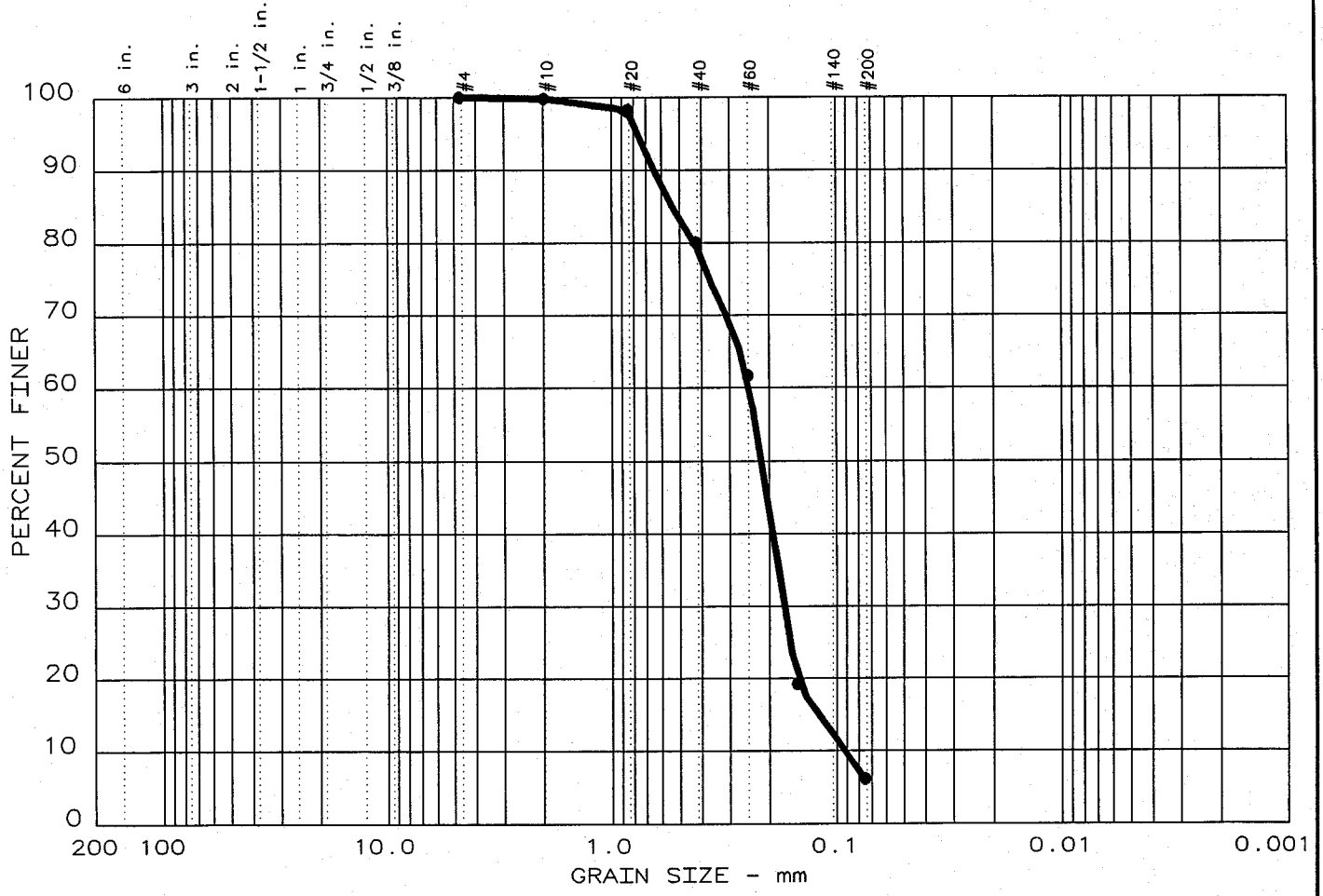
MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA

Project: Ash Disposal Area - TVA Allen Fossil Plant

Project No: 3043-04-1037 HAB **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	4	0.0	0.0	93.8	6.2		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.245		
D_{30}			
D_{10}	0.0915		
	COEFFICIENTS		
C_c	1.30		
C_u	2.7		

SIEVE number size	PERCENT FINER ●		
4	100.0		
10	99.8		
20	98.2		
40	80.1		
60	61.7		
100	19.2		
200	6.2		

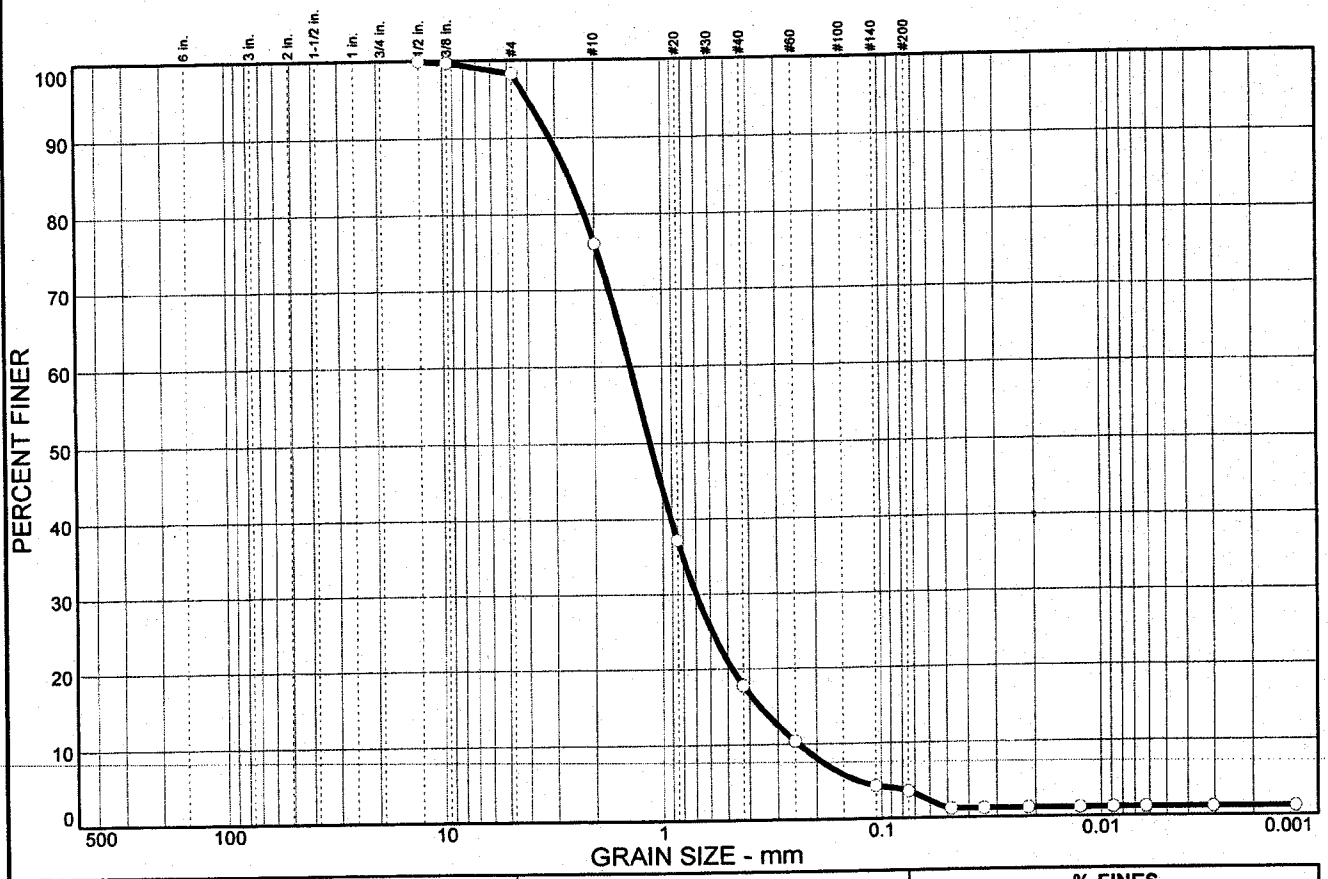
Sample information:
● EAD-1, SPT 50-51.5'
Gray sand

Remarks:
Methods: Particle Size:
ASTM D 422-63(2002);
%< No.200: ASTM D1140-00;
Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas
Date: August 11, 2004 HAB
Fig. No.: EAD

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.7	22.2	58.3	14.2	2.4	1.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5 in.	100.0		
0.375 in.	99.7		
#4	98.3		
#10	76.1		
#20	37.2		
#40	17.8		
#60	10.4		
#140	4.4		
#200	3.6		

* (no specification provided)

Soil Description

Black Ash

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D_{85}= 2.61 D_{60}= 1.39 D_{50}= 1.13
D_{30}= 0.696 D_{15}= 0.359 D_{10}= 0.241
C_u= 5.78 C_c= 1.45

Classification

USCS= AASHTO=

Remarks

Specific Gravity: 2.80

Sample No.: **Source of Sample:** **Date:** 08-10-04

Location: EAD-3 UD @ 6'-8' **Elev./Depth:**

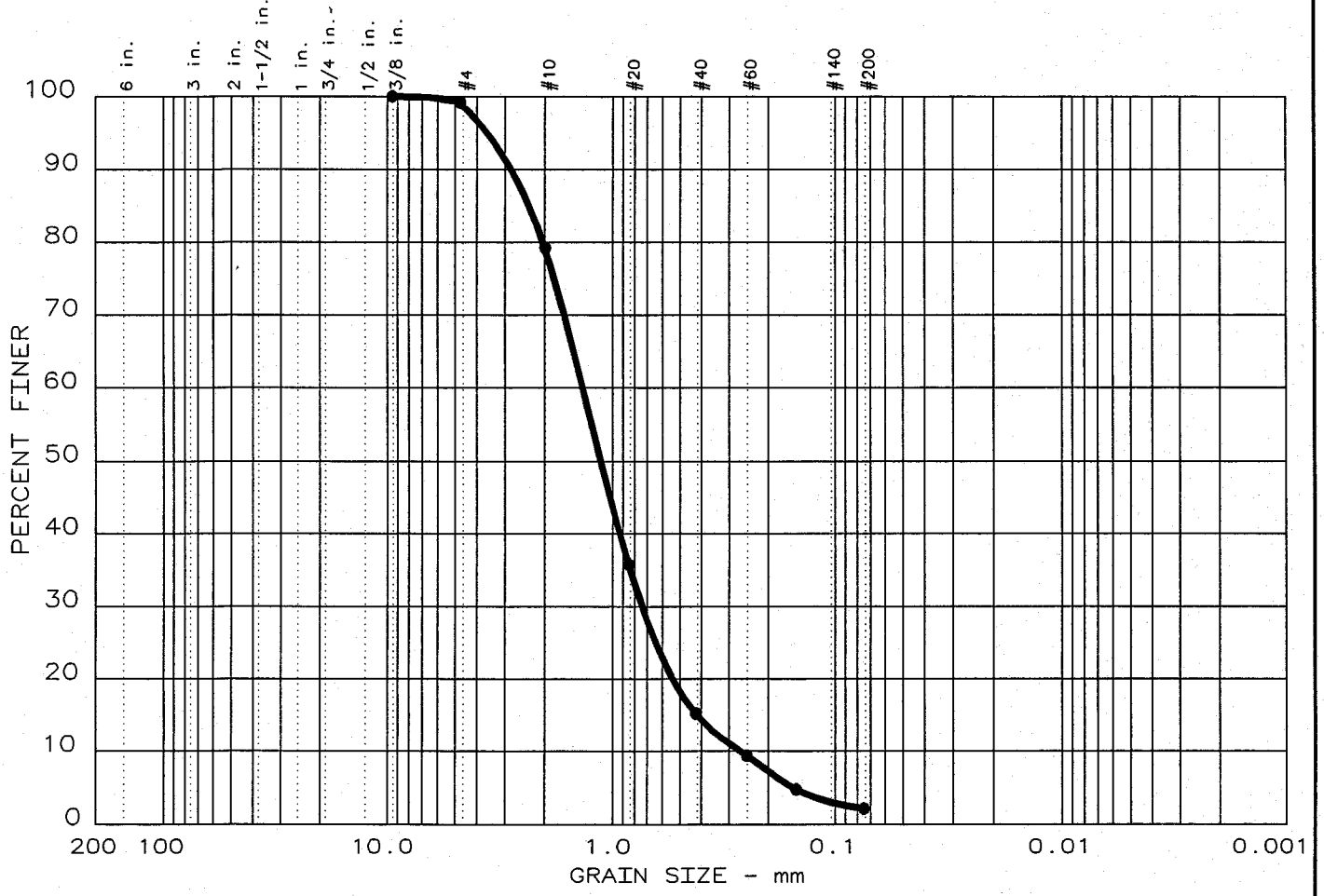
MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA

Project: Ash Disposal Area - TVA Allen Fossil Plant

Project No: 3043-04-1037 HAB **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	5	0.0	0.8	97.1	2.1		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
0.375	100.0		
	GRAIN SIZE		
D_{60}	1.36		
D_{30}			
D_{10}	0.262		
	COEFFICIENTS		
C_c	1.53		
C_u	5.2		

SIEVE number size	PERCENT FINER ●		
4	99.2		
10	79.3		
20	35.8		
40	15.2		
60	9.4		
100	4.8		
200	2.1		

Sample information:
● EAD-3, SPT 10-11.5'
Black ash

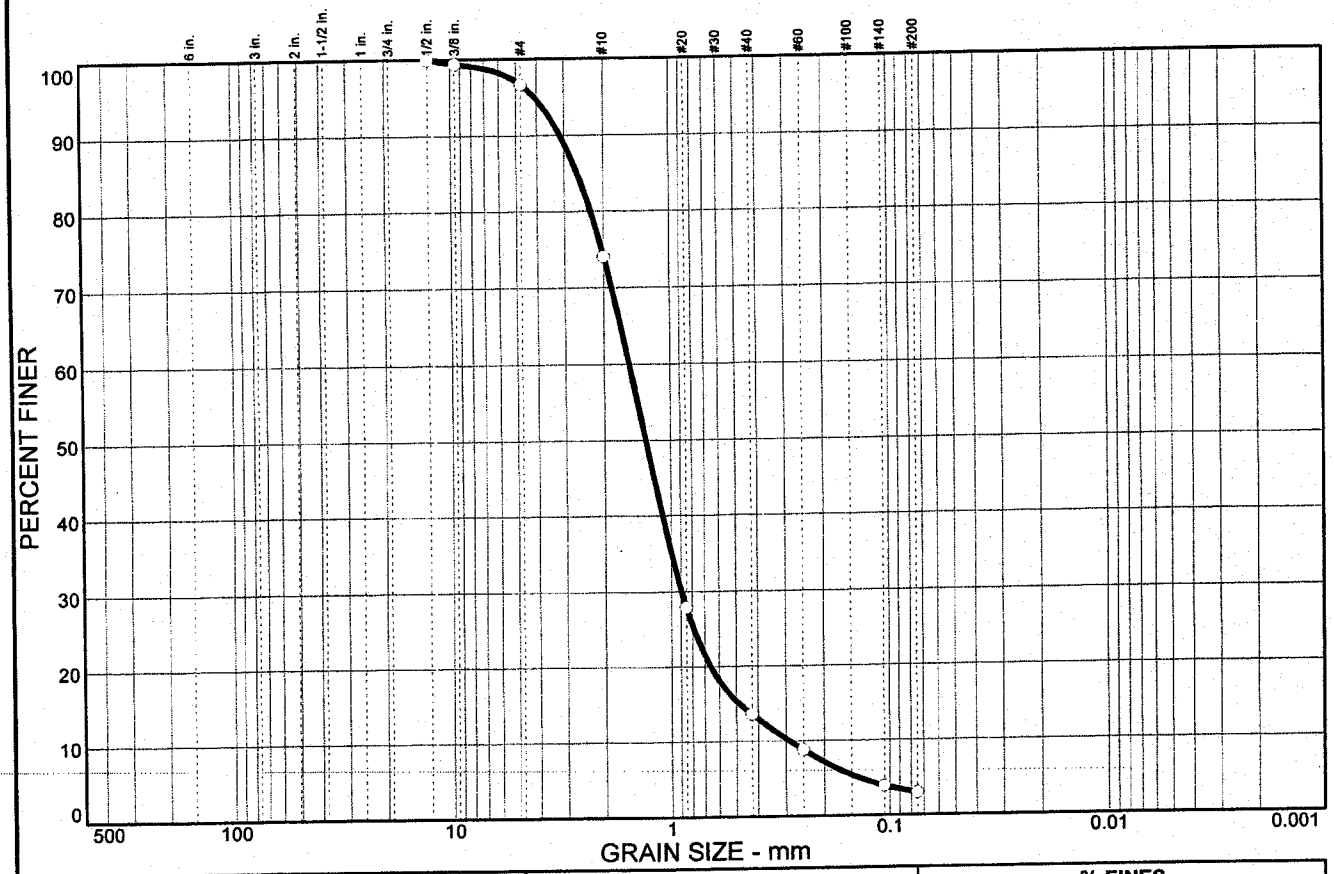
Remarks:
Methods: Particle Size:
ASTM D 422-63(2002);
%< No.200:ASTM D1140-00;
Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB Fig. No.: EAD

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	3.3	22.6	60.5	10.6	3.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.5 in.	100.0		
0.375 in.	99.4		
#4	96.7		
#10	74.1		
#20	27.9		
#40	13.6		
#60	8.8		
#140	3.9		
#200	3.0		

* (no specification provided)

Soil Description

Dark-Grey Bottom Ash

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D_{85}= 2.63 D_{60}= 1.54 D_{50}= 1.30
D_{30}= 0.894 D_{15}= 0.484 D_{10}= 0.289
C_u= 5.32 C_c= 1.79

Classification

USCS= AASHTO=

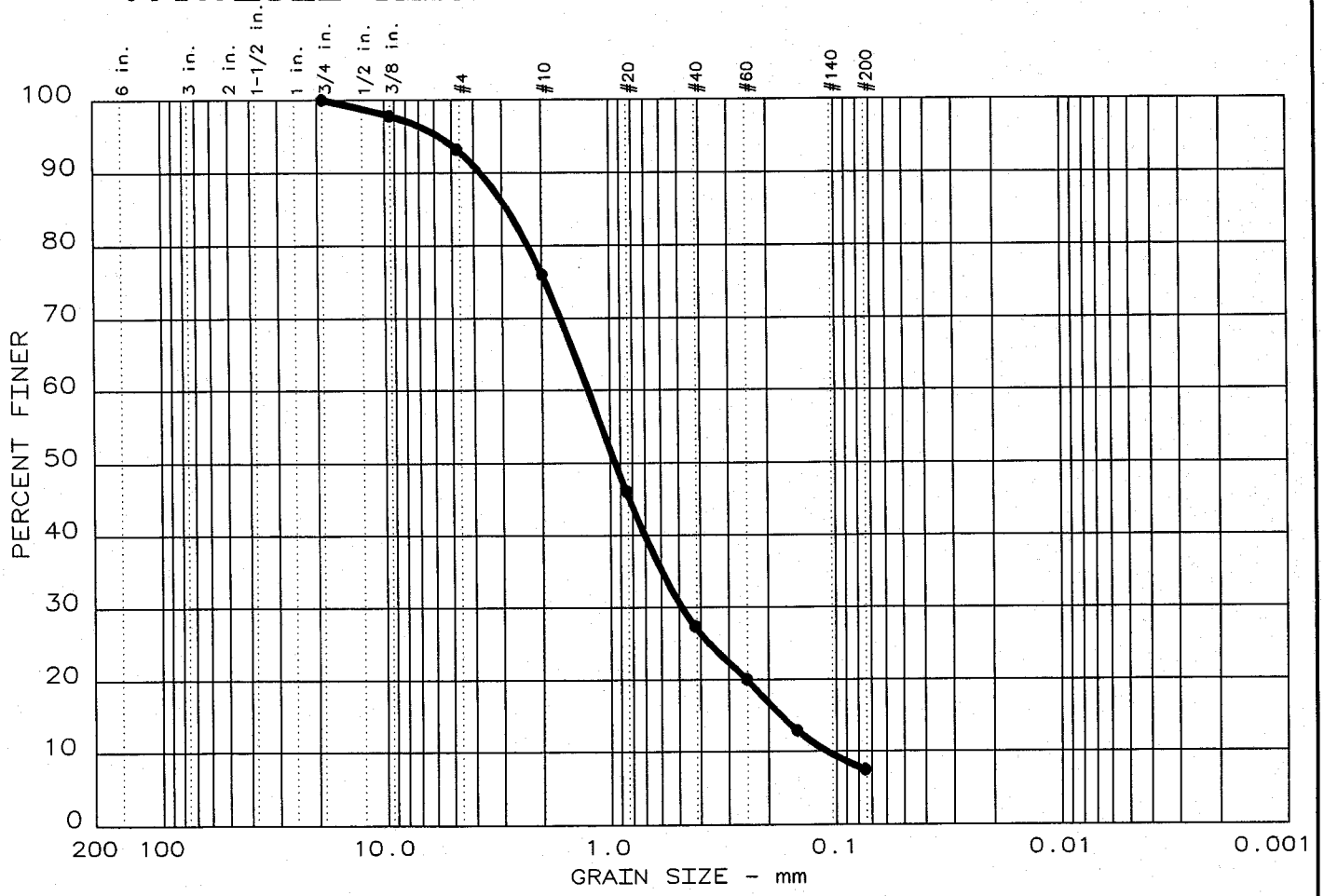
Remarks

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: EAD-3 UD @ 15'-17' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAS **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	6	0.0	6.8	85.7	7.5		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
0.75	100.0		
0.375	97.8		
GRAIN SIZE			
D_{60}	1.24		
D_{30}			
D_{10}	0.110		
COEFFICIENTS			
C_c	1.69		
C_u	11.3		

SIEVE number size	PERCENT FINER ●		
4	93.2		
10	76.0		
20	46.1		
40	27.4		
60	20.0		
100	12.9		
200	7.5		

Sample information:

● EAD-3, 19-20.5& 22-23.5' Black ash

Remarks:

Methods: Particle Size: ASTM D 422-63(2002); < No.10 Spec. Gr.: 2.83; Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

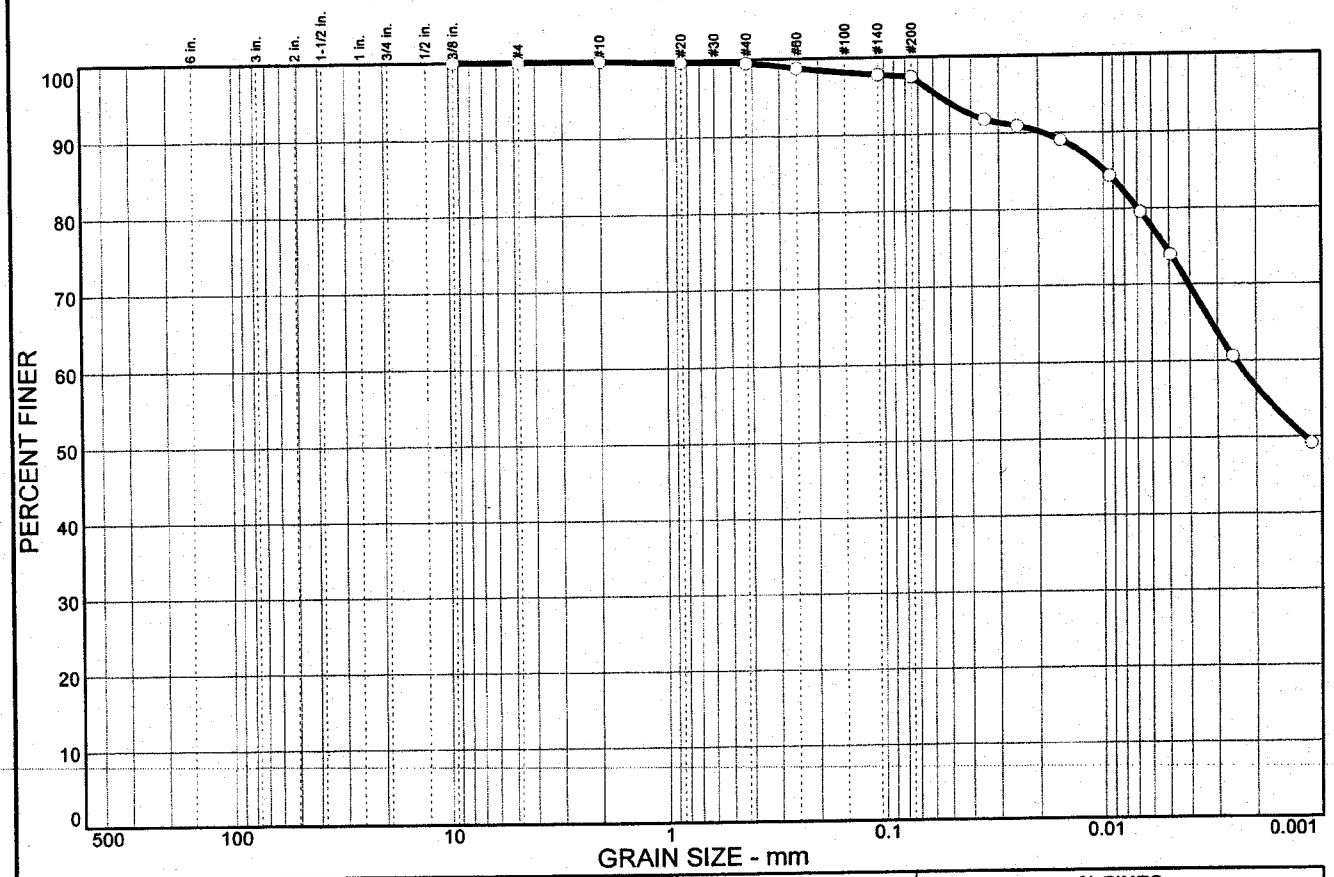
Project No.: 3043041037.0001

Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB

Fig. No.: EAD

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.5	2.0	23.3	74.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.7		
#40	99.5		
#60	98.8		
#140	97.8		
#200	97.5		

* (no specification provided)

Soil Description

Brown and Gray Silty Clay

Atterberg Limits

PL= 34 LL= 76 PI= 42

Coefficients

D_{85}= 0.0099 D_{60}= 0.0025 D_{50}= 0.0012
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= CH AASHTO=

Remarks

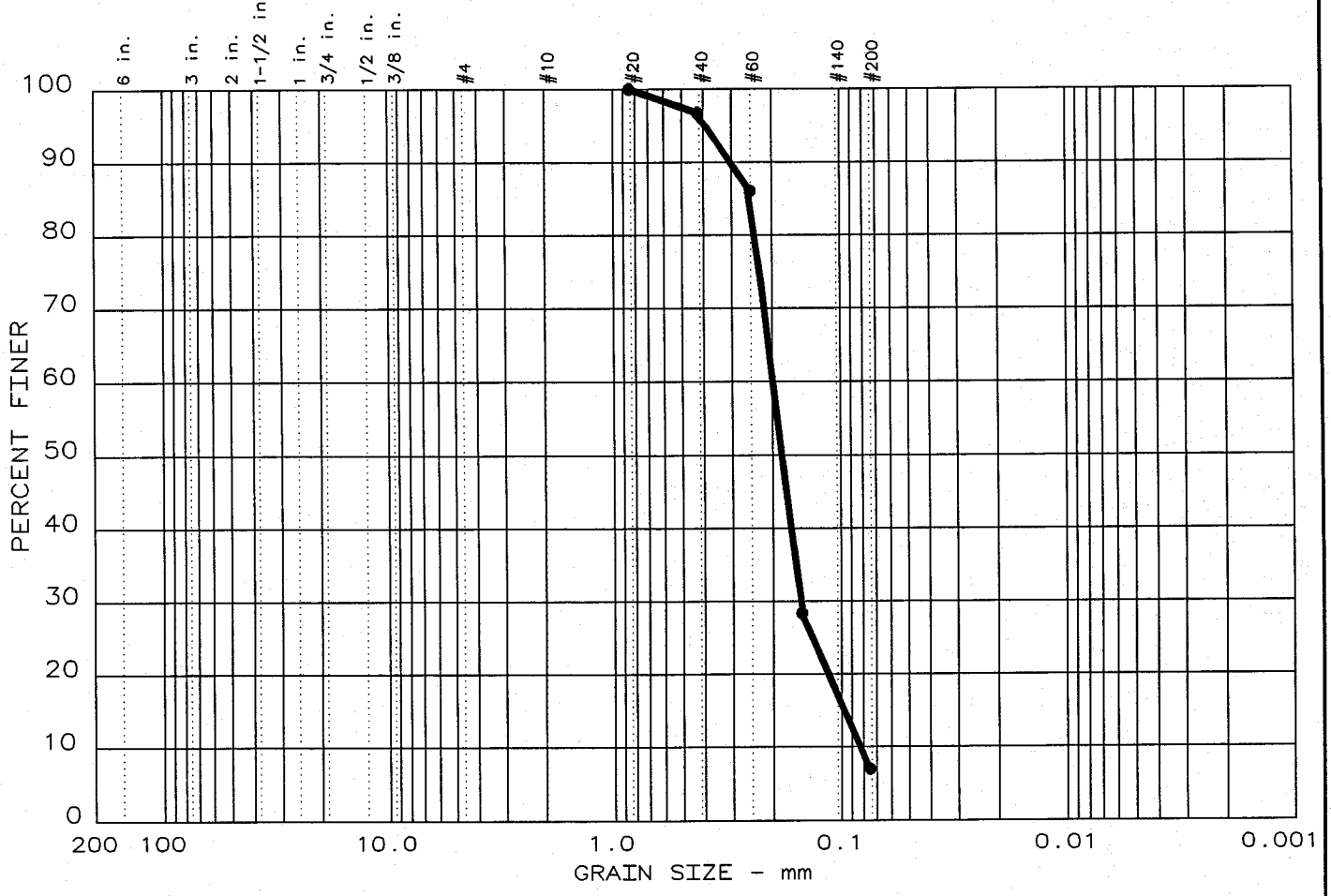
Specific Gravity: 2.71

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: EAD-3 UD @ 30'-32' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAB **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	7	0.0	0.0	93.0	7.0		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.198		
D_{30}			
D_{10}	0.0826		
	COEFFICIENTS		
C_c	1.41		
C_u	2.4		

SIEVE number size	PERCENT FINER ●		
20	100.0		
40	96.7		
60	86.1		
100	28.4		
200	7.0		

Sample information:

● EAD-3, SPT 40-41.5'
Gray to brown silty sand

Remarks:
Methods: Particle Size: ASTM D 422-63(2002);
%< No.200: ASTM D1140-00;
Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

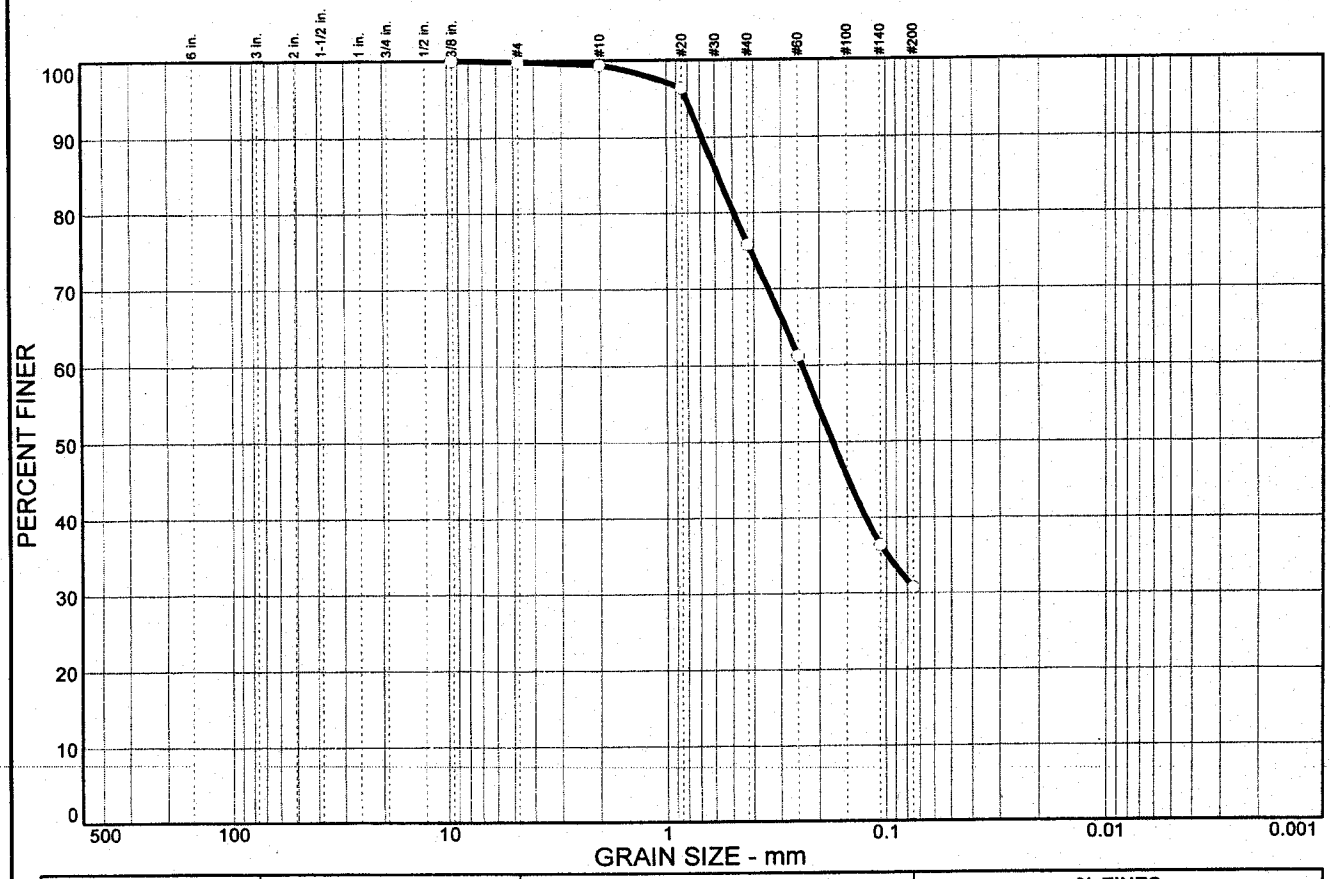
Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB Fig. No.: EAD

GRAIN SIZE ANALYSIS TEST RESULTS

WEST DISPOSAL AREA

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.4	23.6	45.1	30.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	99.8		
#10	99.4		
#20	96.4		
#40	75.8		
#60	61.2		
#140	36.4		
#200	30.7		

* (no specification provided)

Soil Description

Grey Silty Sand - Fly Ash

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.583 D_{60}= 0.240 D_{50}= 0.174
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

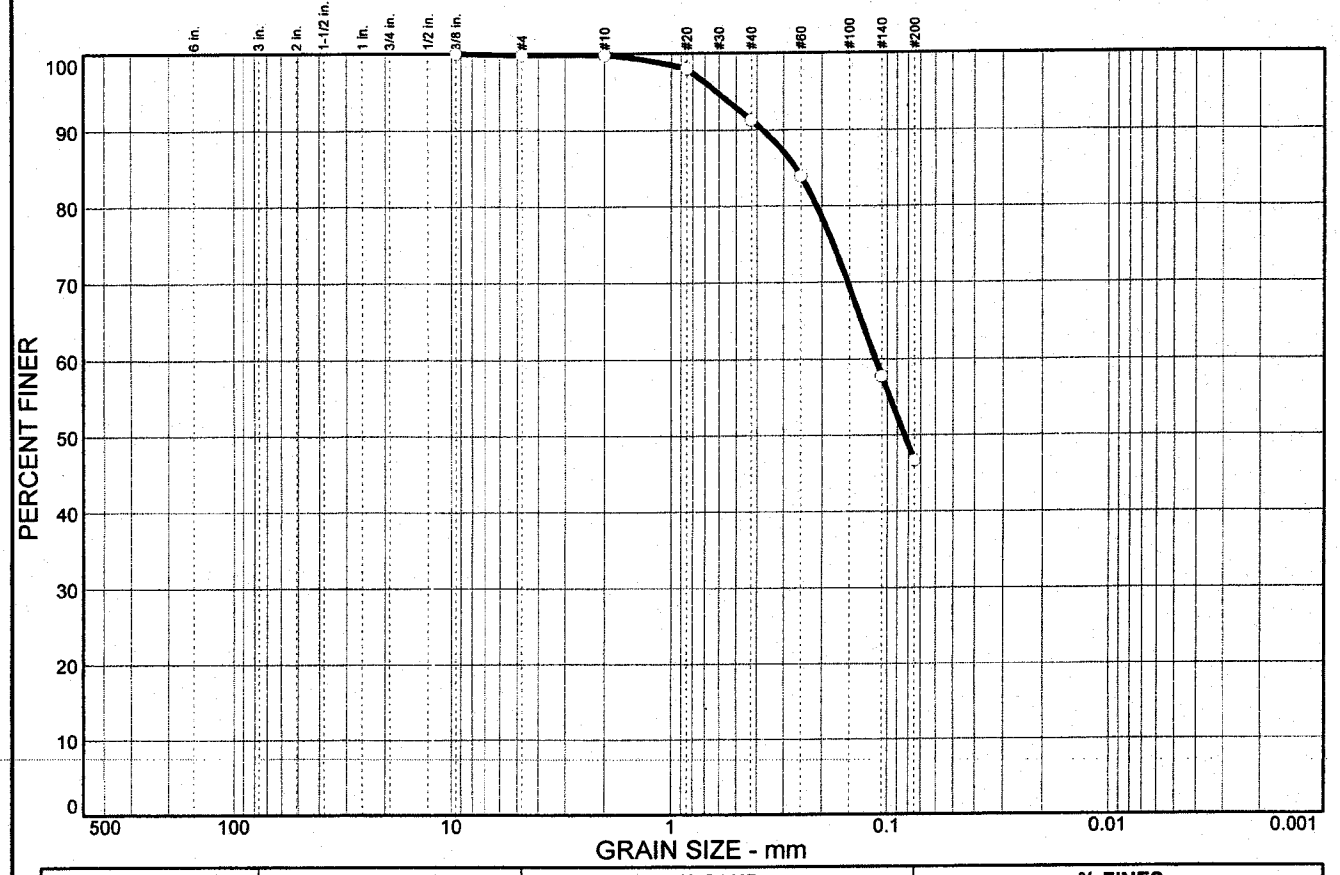
Remarks

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: WAD-2 UD @ 6'-8' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAB **Figure**

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.0	8.5	44.6	46.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	99.8		
#10	99.8		
#20	98.0		
#40	91.3		
#60	83.9		
#140	57.8		
#200	46.7		

* (no specification provided)

Soil Description

Black Fly Ash with Clay Seams

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.264 D_{60}= 0.113 D_{50}= 0.0833
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

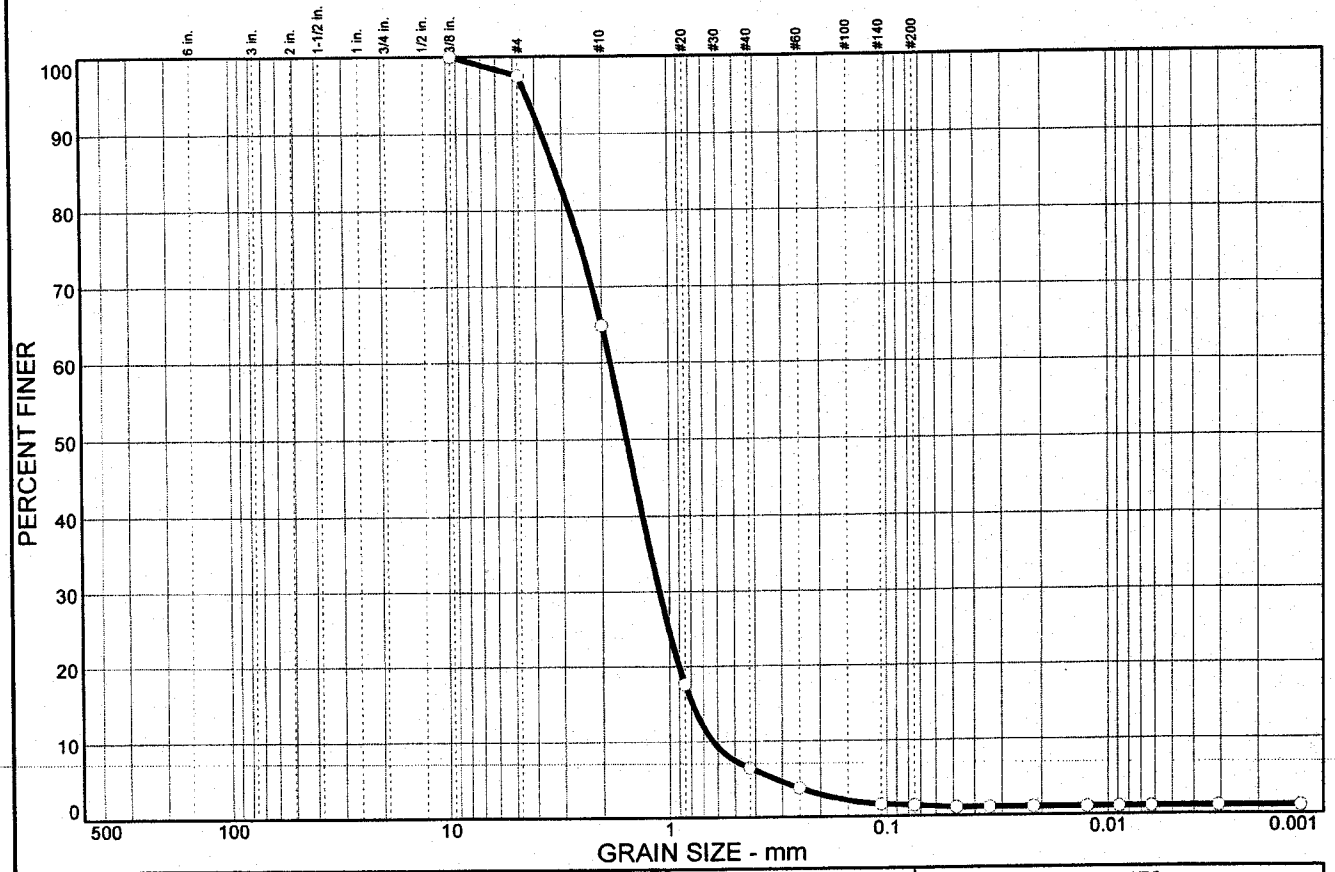
Remarks

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: WAD-2 UD @ 12'-14' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAR **Figure**

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.5	32.6	58.4	5.1	0.3	1.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	97.5		
#10	64.9		
#20	17.6		
#40	6.5		
#60	3.8		
#140	1.6		
#200	1.4		

* (no specification provided)

Soil Description

Black Ash Coal Fragments

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D_{85}= 3.20 D_{60}= 1.83 D_{50}= 1.55
D_{30}= 1.11 D_{15}= 0.787 D_{10}= 0.630
C_u= 2.91 C_c= 1.06

Classification

USCS= AASHTO=

Remarks

Specific Gravity: 2.78

Sample No.: **Source of Sample:** **Date:** 08-10-04

Location: WAD-2 UD @ 14'-16' **Elev./Depth:**

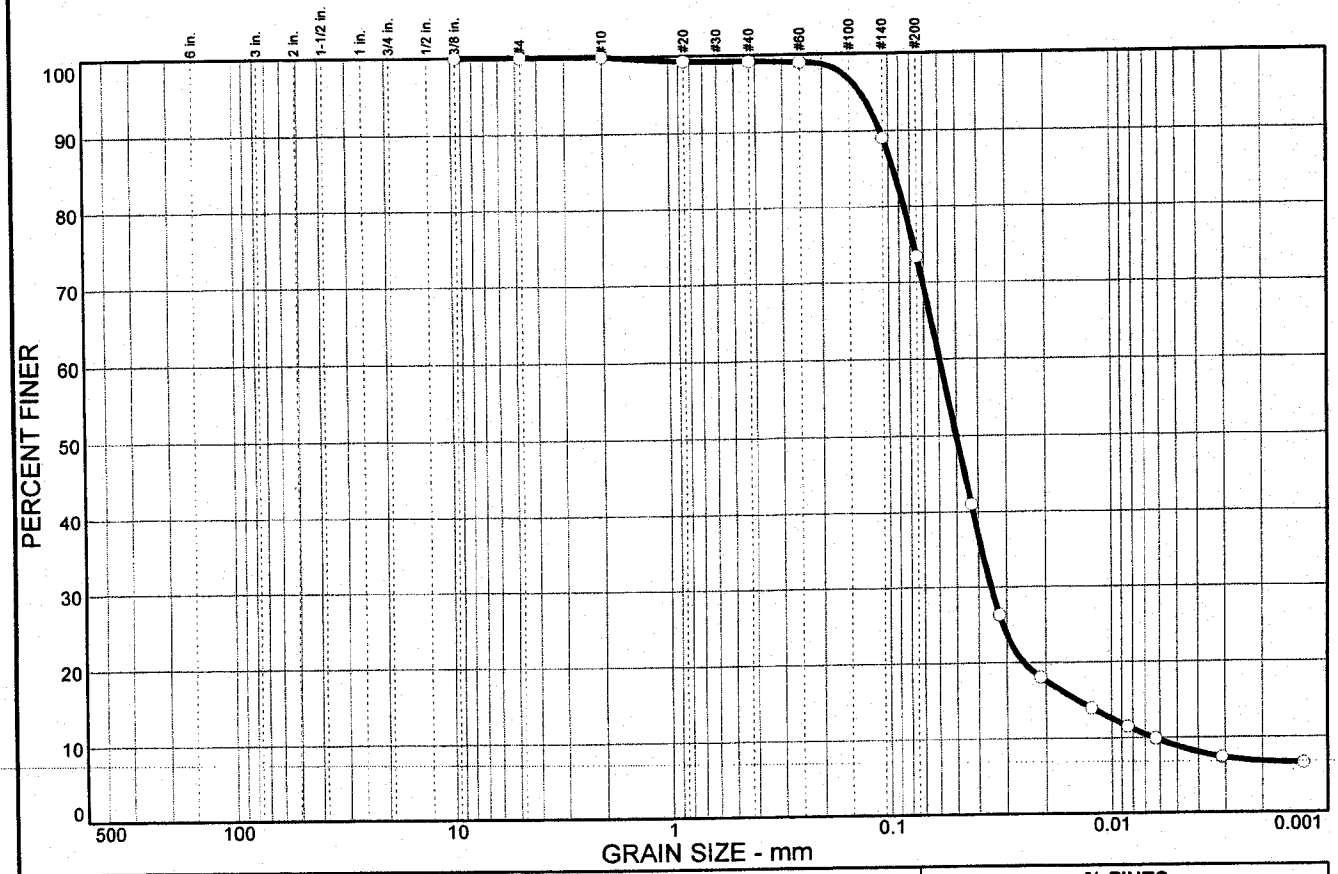
MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA

Project: Ash Disposal Area - TVA Allen Fossil Plant

Project No: 3043-04-1037 HAB **Figure**

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.8	25.8	64.5	8.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.3		
#40	99.2		
#60	99.0		
#140	89.0		
#200	73.4		

* (no specification provided)

Soil Description

Olive-Brown Silt with Sand

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D_{85}= 0.0954 D_{60}= 0.0592 D_{50}= 0.0501
D_{30}= 0.0353 D_{15}= 0.0143 D_{10}= 0.0064
C_u= 9.24 C_c= 3.28

Classification

USCS= ML AASHTO=

Remarks

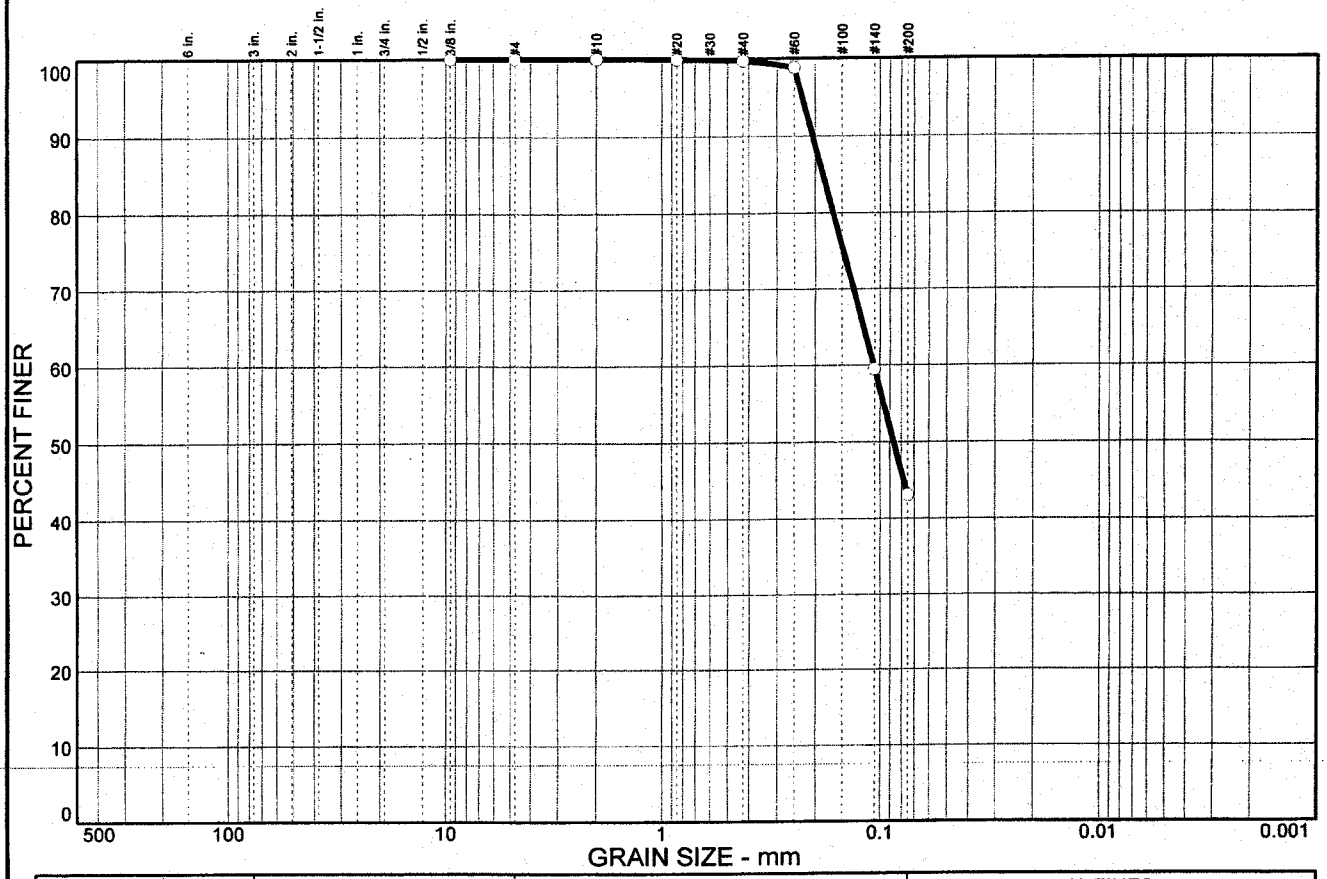
Specific Gravity: 2.69

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: WAD-2 UD @ 30'-32 **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAB **Figure**

Grain Size Analysis



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.3	56.6	43.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.375 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.7		
#60	98.8		
#140	59.5		
#200	43.1		

* (no specification provided)

Soil Description

Olive Brown Silty Sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.184 D_{60}= 0.107 D_{50}= 0.0867
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

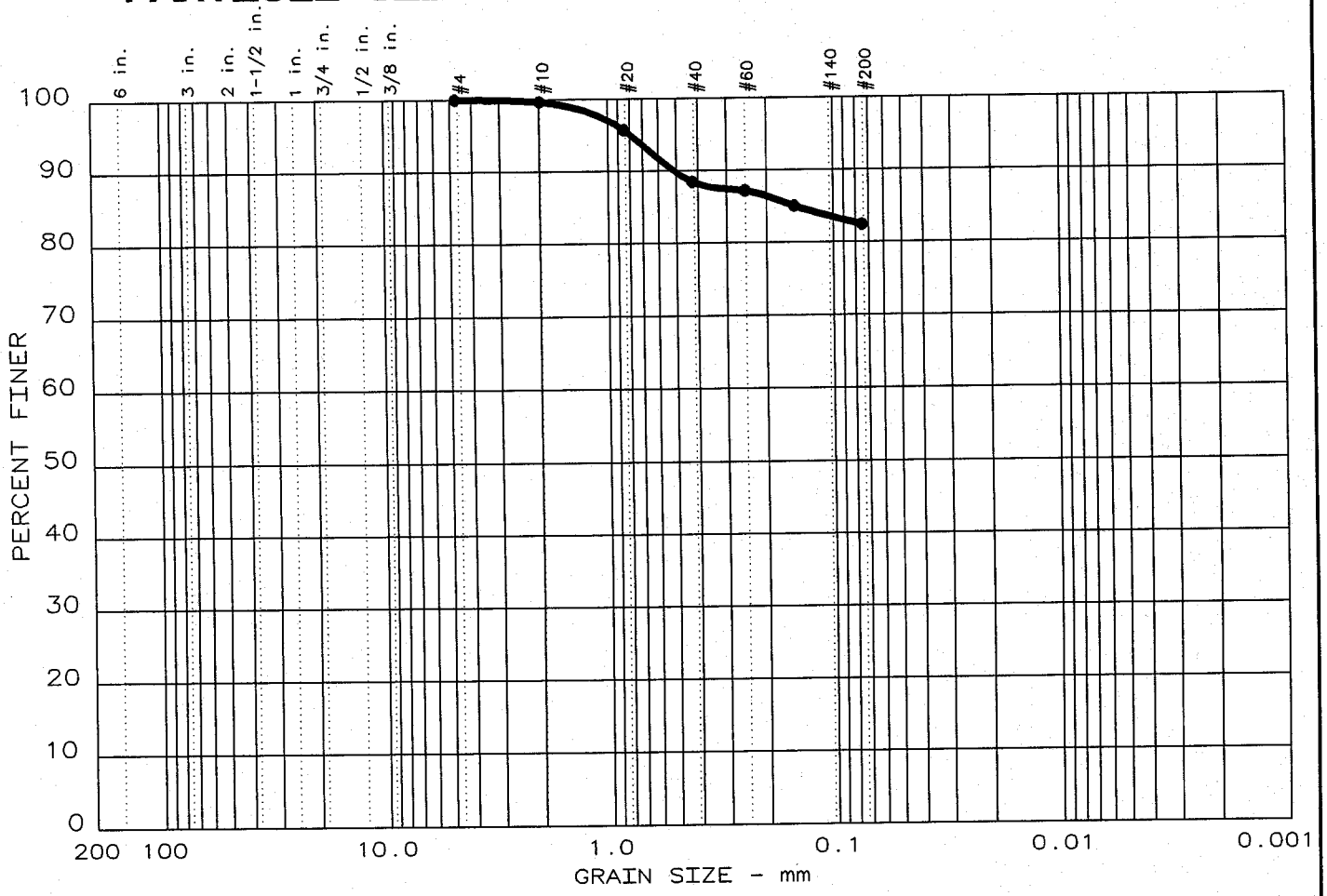
Remarks

Sample No.: **Source of Sample:** **Date:** 08-10-04
Location: WAD-2 UD @ 33'-35' **Elev./Depth:**

MACTEC ENGINEERING AND CONSULTING, INC.

Client: TVA
Project: Ash Disposal Area - TVA Allen Fossil Plant
Project No: 3043-04-1037 HAB **Figure**

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	8	0.0	0.0	17.6	82.4		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
GRAIN SIZE			
D_{60} D_{30} D_{10}			
COEFFICIENTS			
C_c C_u			

SIEVE number size	PERCENT FINER ●		
4	100.0		
10	99.6		
20	95.7		
40	88.4		
60	87.2		
100	85.0		
200	82.4		

Sample information:

● WAD-3, 4-5.5' & 7-8.5' Brown/black sandy clay/ soil and ash

Remarks:

Methods: Particle Size: ASTM D 422-63(2002); < No.40 Spec. Gr.: 2.64; Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

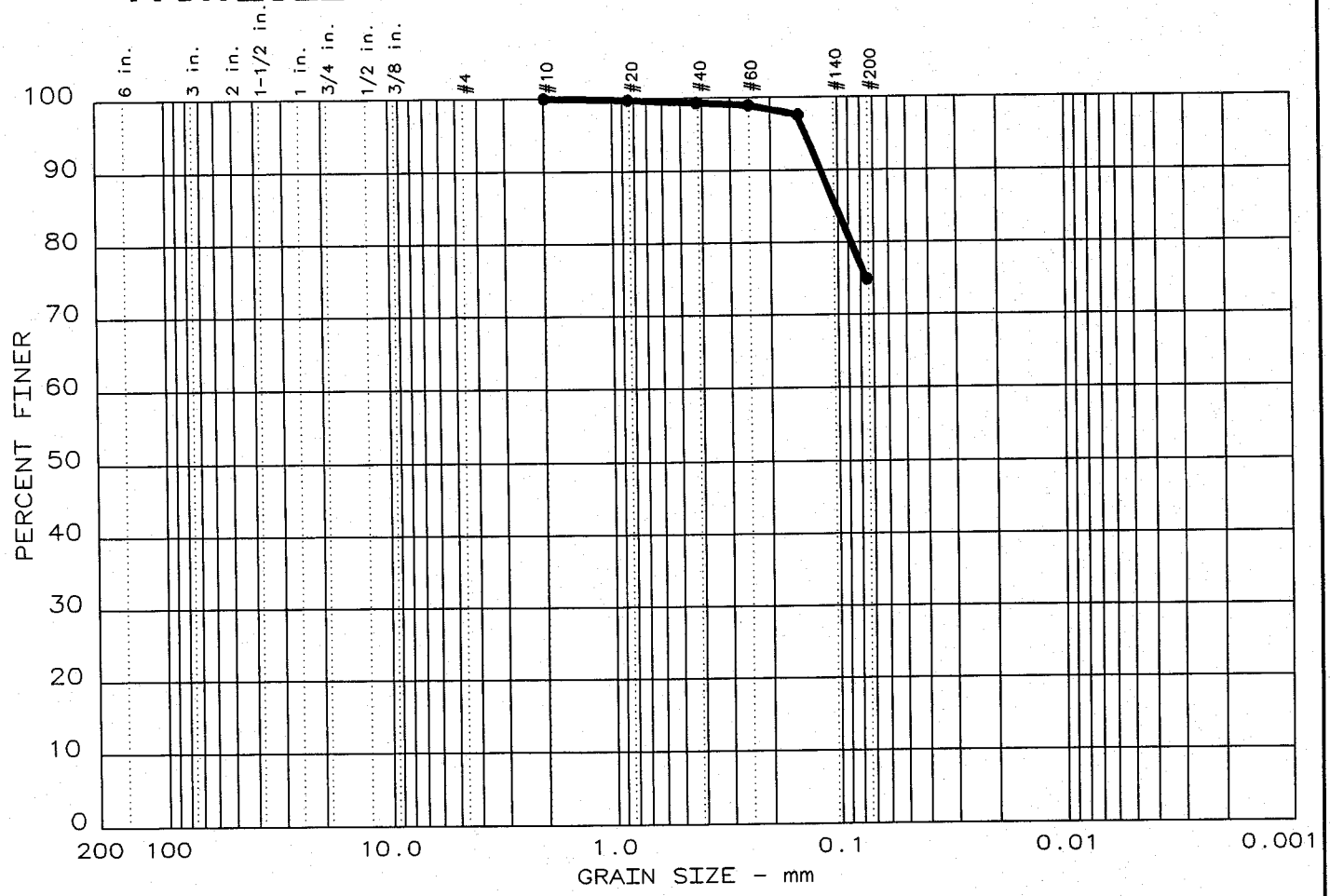
Project No.: 3043041037.0001

Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB

Fig. No.: WAD

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	9	0.0	0.0	25.1	74.9		NT	NT	NT

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60} D_{30} D_{10}			
	COEFFICIENTS		
C_c C_u			

SIEVE number size	PERCENT FINER ●		
10	100.0		
20	99.7		
40	99.3		
60	98.9		
100	97.5		
200	74.9		

Sample information:
● WAD-3, 16-17.5'
Black and brown ash

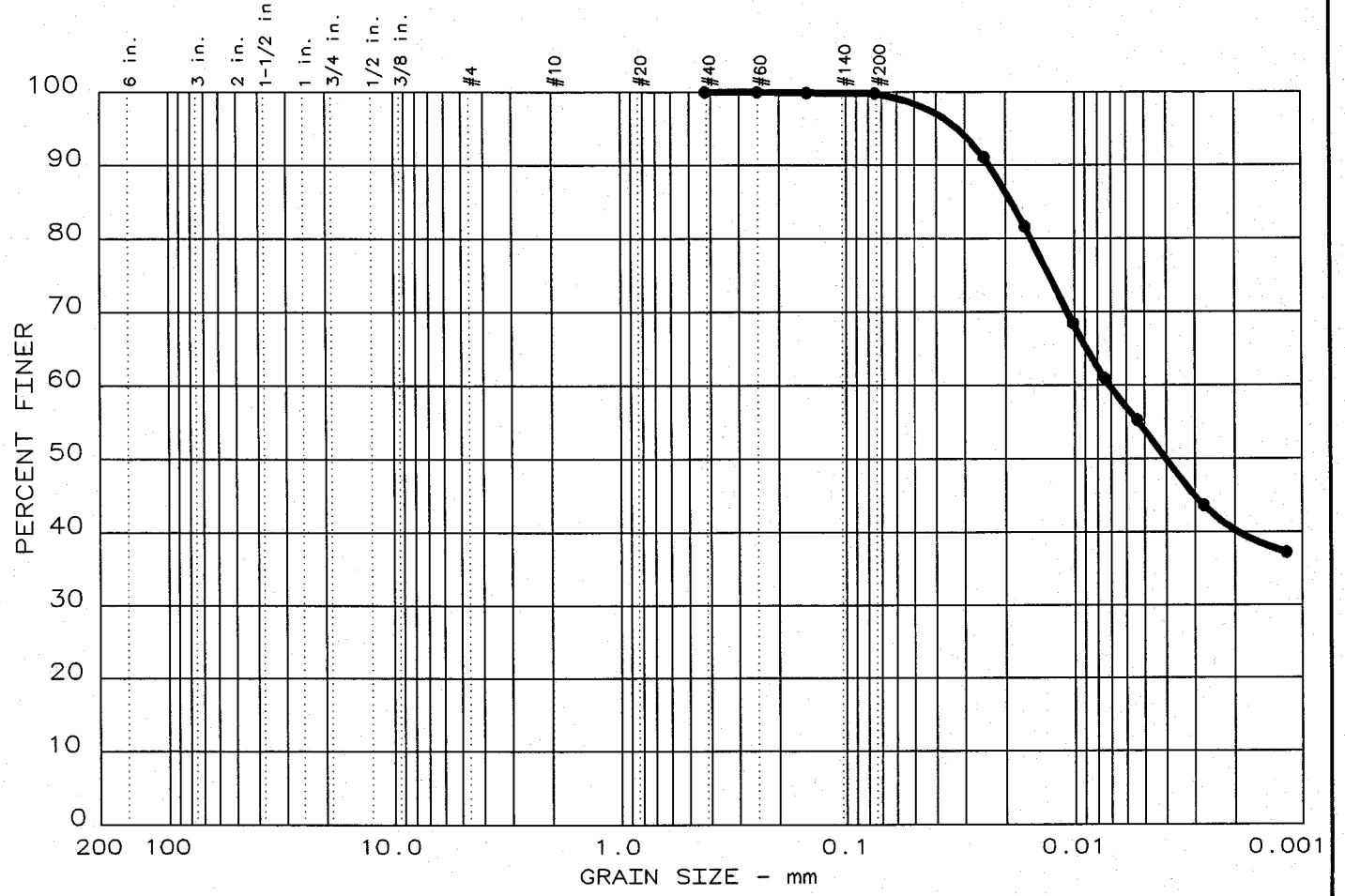
Remarks:
Methods: Particle Size:
ASTM D 422-63(2002);
%< No.200:ASTM D1140-00;
Sieve Analysis: T 29-99

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB Fig. No.: WAD

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	2	0.0	0.0	0.2	45.8	54.0	CH	52	32

SIEVE inches size	PERCENT FINER ●		
GRAIN SIZE			
D_{60}	0.0071		
D_{30}			
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
40	100.0		
60	100.0		
100	99.9		
200	99.8		

Sample information:
● WAD-3, SPT 30-31.5'
Gray and brown fat clay

Remarks:
Methods: Particle Size:
ASTM D 422-63(2002);
%< No.200:ASTM D1140-00;
Sieve Analysis: T 29-99

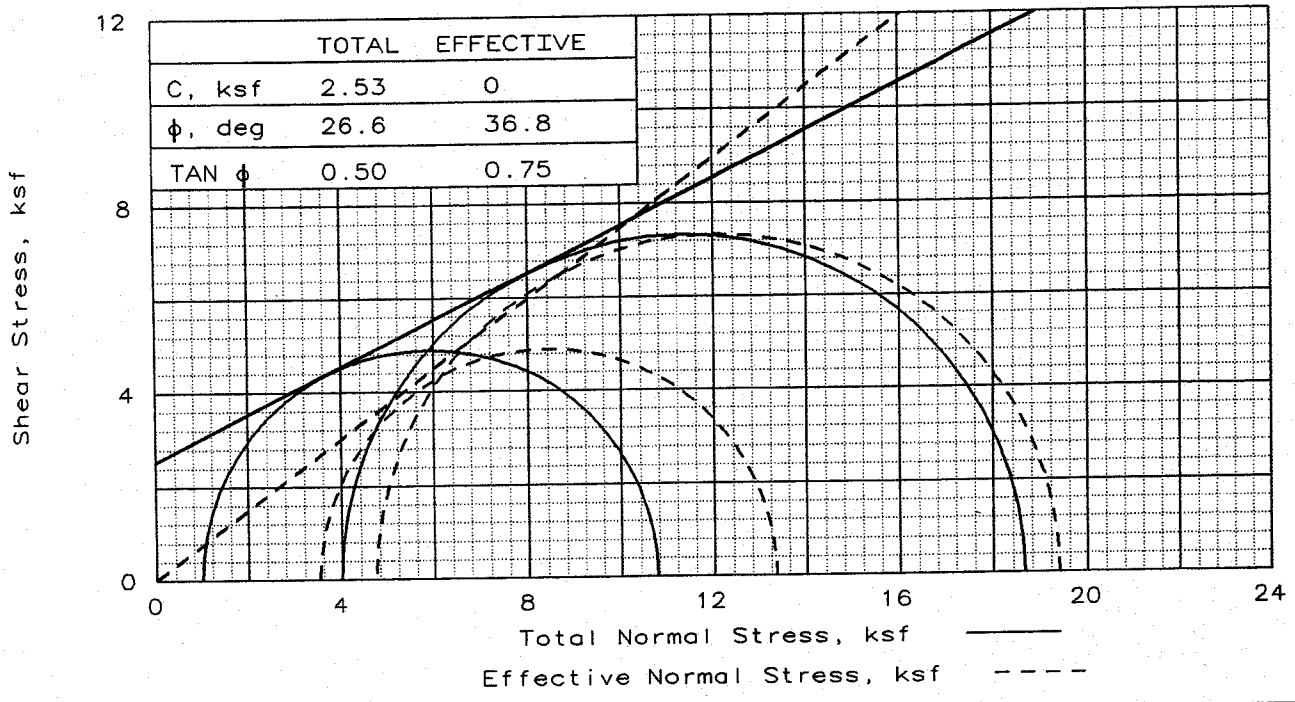
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

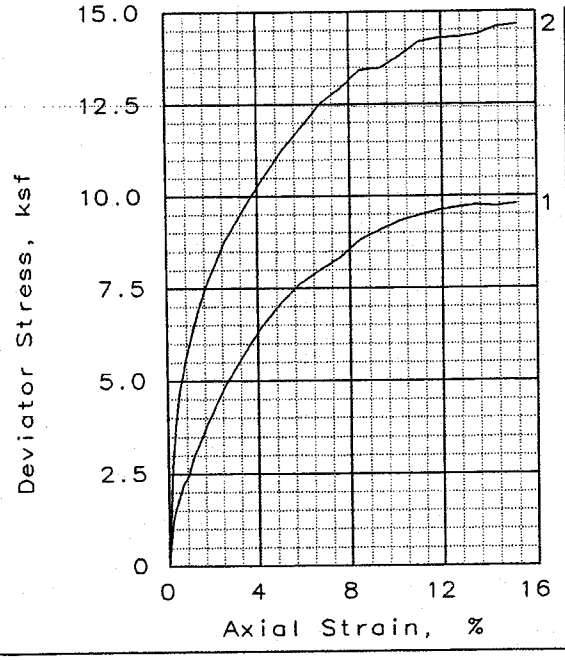
Project No.: 3043041037.0001
Project: TVA Allen Ash Disposal Areas

Date: August 11, 2004 HAB Fig. No.: WAD

TRIAXIAL COMPRESSION TEST RESULTS

EAST DISPOSAL AREA





SAMPLE NO.:		1	2
INITIAL	WATER CONTENT, %	25.9	18.4
	DRY DENSITY, pcf	88.6	91.0
	SATURATION, %	83.5	63.2
	VOID RATIO	0.783	0.735
	DIAMETER, in	2.88	2.88
	HEIGHT, in	5.98	5.93
AT TEST	WATER CONTENT, %	28.0	26.4
	DRY DENSITY, pcf	92.5	94.7
	SATURATION, %	100.0	100.0
	VOID RATIO	0.708	0.667
	DIAMETER, in	2.83	2.83
	HEIGHT, in	5.95	5.91
Strain rate, %/min		0.17	0.17
BACK PRESSURE, ksf		7.2	7.2
CELL PRESSURE, ksf		8.2	11.2
FAIL. STRESS, ksf		9.8	14.7
TOTAL PORE PR., ksf		4.7	6.5
ULT. STRESS, ksf			
TOTAL PORE PR., ksf			
$\bar{\sigma}_1$ FAILURE, ksf		13.3	19.4
$\bar{\sigma}_3$ FAILURE, ksf		3.5	4.7

TYPE OF TEST:
CU with Pore Pressures
SAMPLE TYPE: Shelby Tube Sample
DESCRIPTION: Gray Ash

SPECIFIC GRAVITY= 2.53
REMARKS: Specimen 3 was not plotted because it was a different material from samples 1 and 2

Fig. No.: _____ HAB

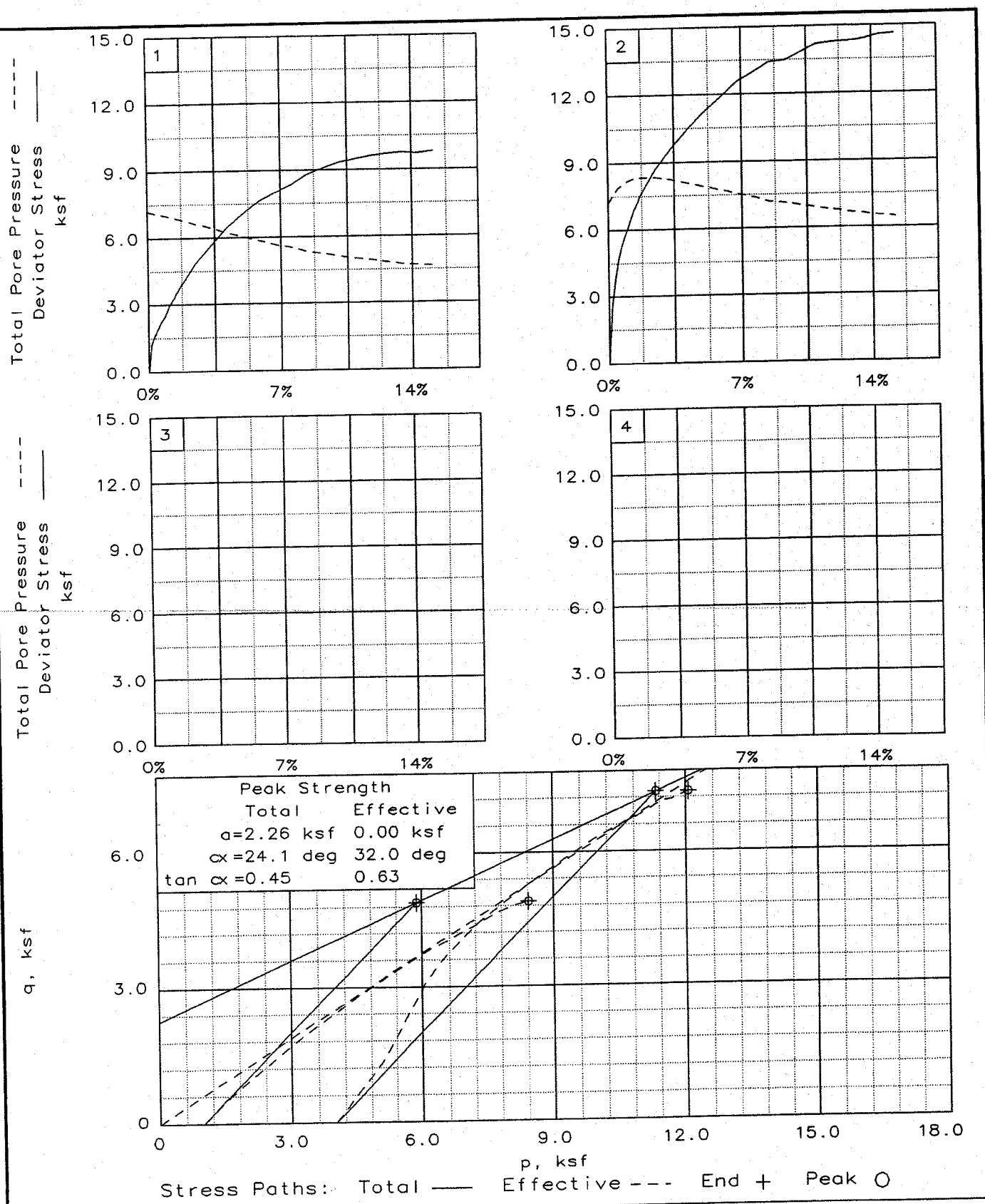
CLIENT: TVA

PROJECT: Ash Disposal Areas - TVA Allen Fossil Plant
SAMPLE LOCATION: EAD-1 UD @ 14'-16'

PROJ. NO.: 3043-04-1037.0001 DATE: 08-10-04

TRIAXIAL SHEAR TEST REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES



Client: TVA

Project: Ash Disposal Areas - TVA Allen Fossil Plant

Location: EAD-1 UD @ 14'-16'

File: ALLEN-4 Project No.: 3043-04-1037.0001 Fig. No.: ____

TRIAXIAL COMPRESSION TEST
CU with Pore Pressures

Project and Sample Data

Date: 08-10-04
Client: TVA
Project: Ash Disposal Areas - TVA Allen Fossil Plant
Sample location: EAD-1 UD @ 14'-16'
Sample description: Gray Ash
Remarks: Specimen 3 was not plotted because it was a different material from samples 1 and 2
Fig no.: 2nd page Fig no. (if applicable):
Type of sample: Shelby Tube Sample
Specific gravity= 2.53 LL= NV PL= NP PI=
Test method: Corps of Eng. - saturation assumed

Specimen Parameters for Specimen No. 1

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1143.350			1158.630
Wt. dry soil and tare:	908.410			908.410
Wt. of tare:	0.000			0.000
Weight, gms:	1143.4			
Diameter, in:	2.884	2.830	2.831	
Area, in²:	6.533	6.291	6.294	
Height, in:	5.981	5.981	5.946	
Net decrease in height, in:		0.000	0.035	
Net decrease in water volume, cc:		-22.600	3.300	
% Moisture:	25.9	28.4	28.0	27.5
Wet density, pcf:	111.5	118.0	118.3	
Dry density, pcf:	88.6	92.0	92.5	
Void ratio:	0.7832	0.7173	0.7081	
% Saturation:	83.5	100.0	100.0	

Test Readings Data for Specimen No. 1

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 56.90 psi = 8.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 0.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 9.79 ksf at reading no. 26
ULT. STRESS = not selected

Test Readings Data for Specimen No. 1

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	0.99	0.99	1.00	50.00	0.99	0.00
1	0.0100	0.010	19.00	53.2	0.2	1.22	1.02	2.24	2.19	49.80	1.63	0.61
2	0.0200	0.020	25.00	70.0	0.3	1.60	1.07	2.66	2.50	49.50	1.86	0.80
3	0.0300	0.030	30.00	84.0	0.5	1.91	1.09	3.01	2.75	49.30	2.05	0.96
4	0.0400	0.040	35.00	98.0	0.7	2.23	1.14	3.36	2.96	49.00	2.25	1.11
5	0.0500	0.050	38.00	106.4	0.8	2.41	1.17	3.58	3.07	48.80	2.37	1.21
6	0.0600	0.060	43.00	120.4	1.0	2.73	1.21	3.94	3.25	48.50	2.57	1.36
7	0.0700	0.070	48.00	134.4	1.2	3.04	1.25	4.29	3.43	48.20	2.77	1.52
8	0.0800	0.080	52.00	145.6	1.3	3.29	1.28	4.57	3.56	48.00	2.92	1.64
9	0.0900	0.090	56.00	156.8	1.5	3.53	1.32	4.86	3.67	47.70	3.09	1.77
10	0.1000	0.100	60.00	168.0	1.7	3.78	1.35	5.13	3.79	47.50	3.24	1.89
11	0.1500	0.150	78.00	218.4	2.5	4.87	1.57	6.44	4.10	46.00	4.00	2.44
12	0.2000	0.200	92.00	257.6	3.4	5.70	1.74	7.44	4.27	44.80	4.59	2.85
13	0.2500	0.250	106.00	296.8	4.2	6.50	1.99	8.49	4.27	43.10	5.24	3.25
14	0.3000	0.300	117.00	327.6	5.0	7.12	2.17	9.29	4.27	41.80	5.73	3.56
15	0.3500	0.350	127.00	355.6	5.9	7.66	2.35	10.00	4.26	40.60	6.18	3.83
16	0.4000	0.400	134.00	375.2	6.7	8.01	2.53	10.54	4.16	39.30	6.54	4.00
17	0.4500	0.450	141.00	394.8	7.6	8.35	2.66	11.01	4.13	38.40	6.84	4.17
18	0.5000	0.500	150.00	420.0	8.4	8.80	2.87	11.67	4.07	37.00	7.27	4.40
19	0.5500	0.550	156.00	436.8	9.2	9.07	2.97	12.04	4.06	36.30	7.50	4.53
20	0.6000	0.600	162.00	453.6	10.1	9.33	3.10	12.43	4.01	35.40	7.76	4.67
21	0.6500	0.650	166.00	464.8	10.9	9.47	3.20	12.67	3.96	34.70	7.93	4.74
22	0.7000	0.700	170.00	476.0	11.8	9.61	3.27	12.88	3.94	34.20	8.07	4.80
23	0.7500	0.750	173.00	484.4	12.6	9.68	3.37	13.05	3.87	33.50	8.21	4.84
24	0.8000	0.800	176.00	492.8	13.5	9.76	3.46	13.21	3.82	32.90	8.33	4.88
25	0.8500	0.850	177.00	495.6	14.3	9.72	3.50	13.22	3.78	32.60	8.36	4.86
26	0.9000	0.900	180.00	504.0	15.1	9.79	3.54	13.33	3.76	32.30	8.44	4.89

Specimen Parameters for Specimen No. 2

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1096.040			1139.350
Wt. dry soil and tare:	925.920			925.920
Wt. of tare:	0.000			0.000
Weight, gms:	1096.0			
Diameter, in:	2.884	2.845	2.831	
Area, in²:	6.533	6.358	6.296	
Height, in:	5.933	5.933	5.914	
Net decrease in height, in:		0.000	0.019	
Net decrease in water volume, cc:		-82.100	8.000	
% Moisture:	18.4	27.2	26.4	23.1
Wet density, pcf:	107.7	119.0	119.7	
Dry density, pcf:	91.0	93.5	94.7	
Void ratio:	0.7354	0.6892	0.6673	
% Saturation:	63.2	100.0	100.0	

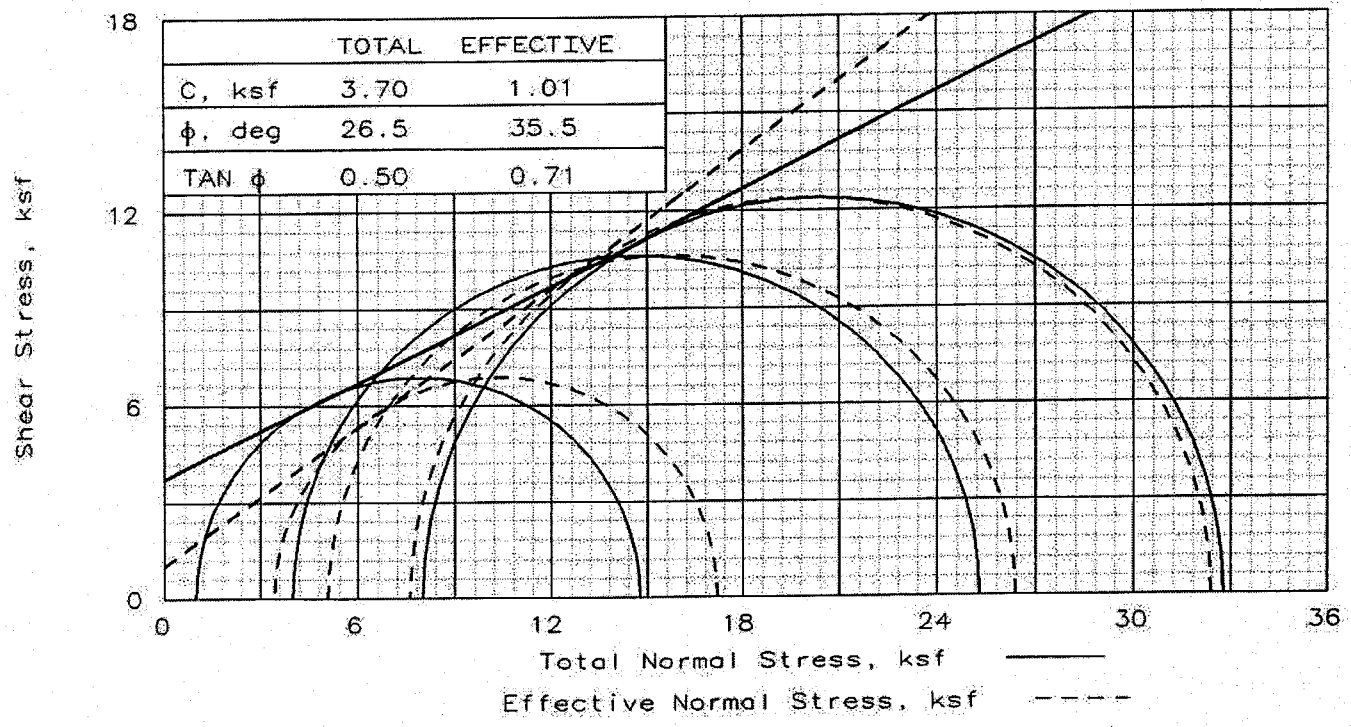
Test Readings Data for Specimen No. 2

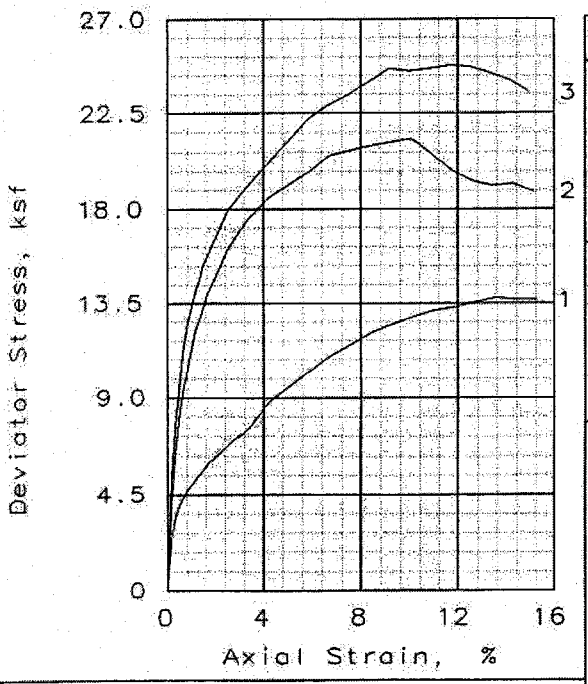
Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 77.80 psi = 11.20 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 4.00 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 14.66 ksf at reading no. 26
ULT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	4.00	4.00	1.00	50.00	4.00	0.00
1	0.0100	0.010	42.00	117.6	0.2	2.69	3.74	6.43	1.72	51.80	5.09	1.34
2	0.0200	0.020	59.00	165.2	0.3	3.77	3.54	7.31	2.06	53.20	5.43	1.88
3	0.0300	0.030	73.00	204.4	0.5	4.65	3.33	7.98	2.40	54.70	5.65	2.33
4	0.0400	0.040	82.00	229.6	0.7	5.22	3.21	8.43	2.62	55.50	5.82	2.61
5	0.0500	0.050	90.00	252.0	0.8	5.71	3.11	8.83	2.84	56.20	5.97	2.86
6	0.0600	0.060	96.00	268.8	1.0	6.09	3.01	9.09	3.02	56.90	6.05	3.04
7	0.0700	0.070	103.00	288.4	1.2	6.52	2.95	9.47	3.21	57.30	6.21	3.26
8	0.0800	0.080	109.00	305.2	1.4	6.89	2.89	9.78	3.38	57.70	6.34	3.44
9	0.0900	0.090	114.00	319.2	1.5	7.19	2.87	10.05	3.51	57.90	6.46	3.59
10	0.1000	0.100	120.00	336.0	1.7	7.55	2.85	10.41	3.65	58.00	6.63	3.78
11	0.1500	0.150	140.00	392.0	2.5	8.74	2.85	11.59	4.06	58.00	7.22	4.37
12	0.2000	0.200	156.00	436.8	3.4	9.65	2.98	12.63	4.24	57.10	7.81	4.83
13	0.2500	0.250	171.00	478.8	4.2	10.49	3.14	13.63	4.34	56.00	8.38	5.24
14	0.3000	0.300	185.00	518.0	5.1	11.25	3.31	14.56	4.40	54.80	8.93	5.62
15	0.3500	0.350	197.00	551.6	5.9	11.87	3.47	15.34	4.42	53.70	9.40	5.93
16	0.4000	0.400	210.00	588.0	6.8	12.54	3.64	16.18	4.44	52.50	9.91	6.27
17	0.4500	0.450	219.00	613.2	7.6	12.96	3.80	16.76	4.41	51.40	10.28	6.48
18	0.5000	0.500	229.00	641.2	8.5	13.42	4.00	17.43	4.35	50.00	10.72	6.71
19	0.5500	0.550	232.00	649.6	9.3	13.48	4.08	17.55	4.31	49.50	10.81	6.74
20	0.6000	0.600	240.00	672.0	10.1	13.81	4.19	18.00	4.30	48.70	11.10	6.90

Test Readings Data for Specimen No. 2

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
21	0.6500	0.650	249.00	697.2	11.0	14.19	4.32	18.51	4.29	47.80	11.42	7.10
22	0.7000	0.700	253.00	708.4	11.8	14.28	4.41	18.69	4.24	47.20	11.55	7.14
23	0.7500	0.750	256.00	716.8	12.7	14.31	4.52	18.84	4.17	46.40	11.68	7.16
24	0.8000	0.800	260.00	728.0	13.5	14.40	4.59	18.99	4.13	45.90	11.79	7.20
25	0.8500	0.850	266.00	744.8	14.4	14.59	4.68	19.27	4.12	45.30	11.97	7.29
26	0.9000	0.900	270.00	756.0	15.2	14.66	4.74	19.40	4.09	44.90	12.07	7.33





SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	5.5	5.6	9.4
	DRY DENSITY, pcf	106.3	111.3	113.1
	SATURATION, %	24.1	27.2	48.1
	VOID RATIO	0.644	0.571	0.545
	DIAMETER, in	2.84	2.84	2.84
	HEIGHT, in	5.98	5.96	6.02
AT TEST	WATER CONTENT, %	19.5	19.1	20.2
	DRY DENSITY, pcf	113.0	113.8	111.6
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	0.547	0.536	0.567
	DIAMETER, in	2.78	2.81	2.86
	HEIGHT, in	5.89	5.96	6.02
Strain rate, %/min		0.17	0.17	0.17
BACK PRESSURE, ksf		7.2	7.2	7.2
CELL PRESSURE, ksf		8.2	11.2	15.2
FAIL. STRESS, ksf		13.8	21.3	24.8
TOTAL PORE PR., ksf		4.8	6.1	7.6
ULT. STRESS, ksf				
TOTAL PORE PR., ksf				
$\bar{\sigma}_1$ FAILURE, ksf		17.2	26.4	32.4
$\bar{\sigma}_3$ FAILURE, ksf		3.4	5.1	7.6

TYPE OF TEST:
CU with Pore Pressures
SAMPLE TYPE: Shelby Tube
DESCRIPTION: Black Ash

SPECIFIC GRAVITY= 2.8
REMARKS:

Fig. No.: _____ HAB

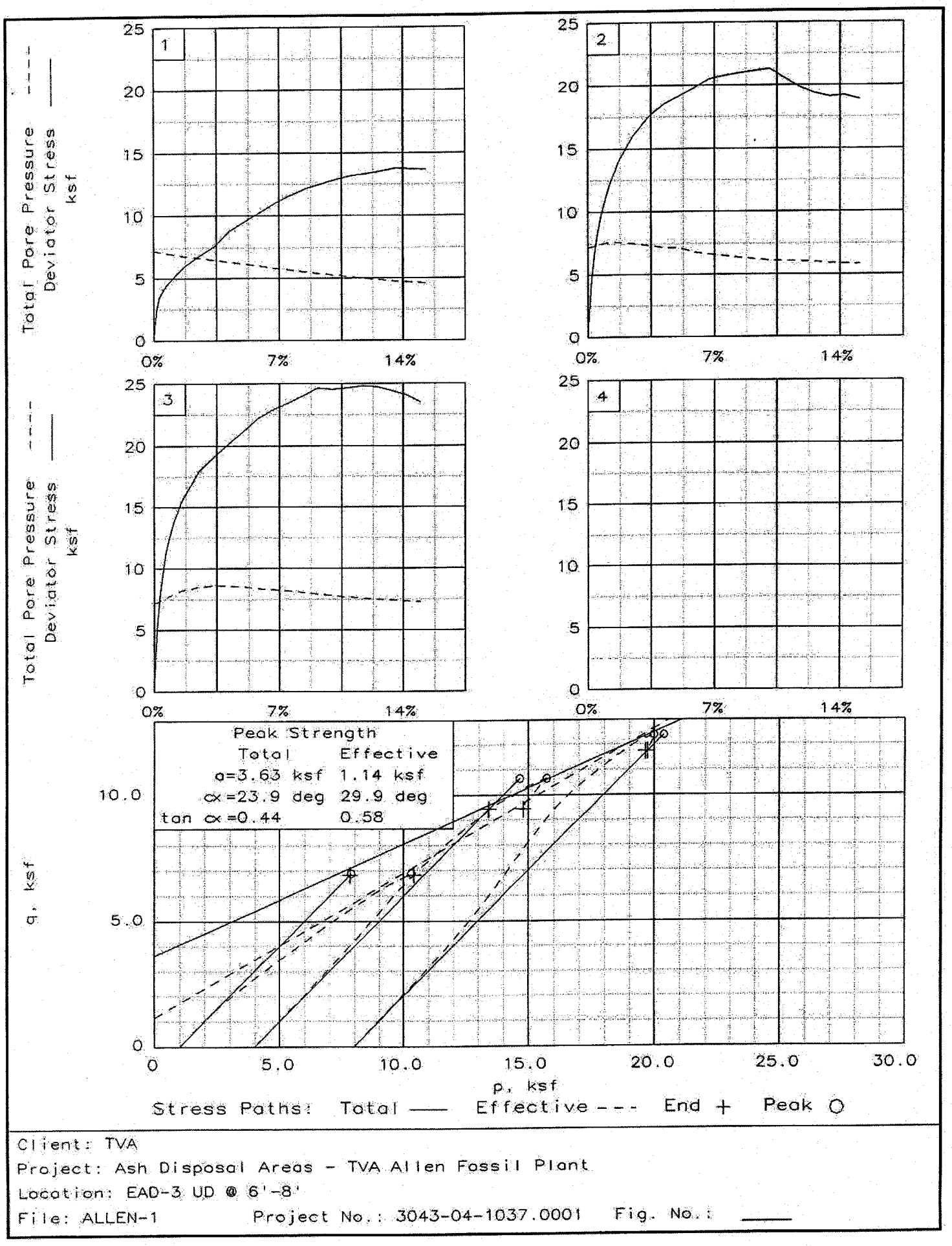
CLIENT: TVA

PROJECT: Ash Disposal Areas - TVA Allen Fossil Plant
SAMPLE LOCATION: EAD-3 UD @ 6'-8'

PROJ. NO.: 3043-04-1037.0001 DATE: 08-10-04

TRIAXIAL SHEAR TEST REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES



Client: TVA

Project: Ash Disposal Areas - TVA Allen Fossil Plant

Location: EAD-3 UD @ 6'-8'

File: ALLEN-1 Project No.: 3043-04-1037.0001 Fig. No.: ____

TRIAXIAL COMPRESSION TEST
CU with Pore Pressures

8-11-2004
4:51 pm

Project and Sample Data

Date: 08-10-04
Client: TVA
Project: Ash Disposal Areas - TVA Allen Fossil Plant
Sample location: EAD-3 UD @ 6'-8'
Sample description: Black Ash
Remarks:

Fig no.: 2nd page Fig no. (if applicable):
Type of sample: Shelby Tube
Specific gravity= 2.80 LL= NV PL= NP PI=
Test method: Corps of Eng. - saturation assumed

Specimen Parameters for Specimen No. 1

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1114.990			1155.170
Wt. dry soil and tare:	1056.380			1056.380
Wt. of tare:	0.000			0.000
Weight, gms:	1115.0			
Diameter, in:	2.840	2.763	2.775	
Area, in²:	6.335	5.997	6.048	
Height, in:	5.975	5.975	5.887	
Net decrease in height, in:		0.000	0.088	
Net decrease in water volume, cc:		-151.300	3.700	
% Moisture:	5.5	19.9	19.5	9.4
Wet density, pcf:	112.2	134.6	135.1	
Dry density, pcf:	106.3	112.3	113.0	
Void ratio:	0.6440	0.5564	0.5466	
% Saturation:	24.1	100.0	100.0	

Test Readings Data for Specimen No. 1

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 56.90 psi = 8.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 0.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 13.77 ksf at reading no. 24
ULT. STRESS = not selected

Test Readings Data for Specimen No. 1

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	0.99	0.99	1.00	50.00	0.99	0.00
1	0.0100	0.010	37.00	103.6	0.2	2.46	0.99	3.46	3.48	50.00	2.22	1.23
2	0.0200	0.020	53.00	148.4	0.3	3.52	1.07	4.59	4.30	49.50	2.83	1.76
3	0.0300	0.030	60.00	168.0	0.5	3.98	1.11	5.09	4.59	49.20	3.10	1.99
4	0.0400	0.040	66.00	184.8	0.7	4.37	1.17	5.54	4.75	48.80	3.35	2.18
5	0.0500	0.050	71.00	198.8	0.8	4.69	1.21	5.90	4.88	48.50	3.56	2.35
6	0.0600	0.060	75.00	210.0	1.0	4.95	1.24	6.19	5.00	48.30	3.71	2.47
7	0.0700	0.070	79.00	221.2	1.2	5.20	1.28	6.49	5.06	48.00	3.88	2.60
8	0.0800	0.080	83.00	232.4	1.4	5.46	1.31	6.77	5.17	47.80	4.04	2.73
9	0.0900	0.090	87.00	243.6	1.5	5.71	1.35	7.06	5.22	47.50	4.21	2.86
10	0.1000	0.100	91.00	254.8	1.7	5.96	1.40	7.36	5.27	47.20	4.38	2.98
11	0.1500	0.150	105.00	294.0	2.5	6.82	1.54	8.36	5.43	46.20	4.95	3.41
12	0.2000	0.200	118.00	330.4	3.4	7.60	1.70	9.30	5.47	45.10	5.50	3.80
13	0.2500	0.250	138.00	386.4	4.2	8.81	1.90	10.71	5.63	43.70	6.31	4.40
14	0.3000	0.300	151.00	422.8	5.1	9.55	2.04	11.60	5.67	42.70	6.82	4.78
15	0.3500	0.350	164.00	459.2	5.9	10.28	2.20	12.49	5.67	41.60	7.34	5.14
16	0.4000	0.400	177.00	495.6	6.8	11.00	2.39	13.39	5.60	40.30	7.89	5.50
17	0.4500	0.450	188.00	526.4	7.6	11.57	2.53	14.11	5.57	39.30	8.32	5.79
18	0.5000	0.500	199.00	557.2	8.5	12.14	2.69	14.83	5.51	38.20	8.76	6.07
19	0.5500	0.550	207.00	579.6	9.3	12.51	2.82	15.33	5.43	37.30	9.08	6.26
20	0.6000	0.600	215.00	602.0	10.2	12.87	2.97	15.84	5.34	36.30	9.40	6.44
21	0.6500	0.650	222.00	621.6	11.0	13.17	3.11	16.28	5.23	35.30	9.69	6.58
22	0.7000	0.700	227.00	635.6	11.9	13.33	3.23	16.56	5.13	34.50	9.89	6.67
23	0.7500	0.750	233.00	652.4	12.7	13.55	3.33	16.88	5.07	33.80	10.10	6.78
24	0.8000	0.800	239.00	669.2	13.6	13.77	3.44	17.21	5.00	33.00	10.33	6.88
25	0.8500	0.850	240.00	672.0	14.4	13.69	3.53	17.22	4.88	32.40	10.37	6.84
26	0.9000	0.900	242.00	677.6	15.3	13.67	3.59	17.25	4.81	32.00	10.42	6.83

Specimen Parameters for Specimen No. 2

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1163.620			1221.690
Wt. dry soil and tare:	1102.410			1102.410
Wt. of tare:	0.000			0.000
Weight, gms:	1163.6			
Diameter, in:	2.840	2.831	2.808	
Area, in²:	6.335	6.293	6.193	
Height, in:	5.958	5.958	5.958	
Net decrease in height, in:		0.000	0.000	
Net decrease in water volume, cc:		-159.500	9.800	
Moisture:	5.6	20.0	19.1	10.8
Wet density, pcf:	117.5	134.4	135.6	
Dry density, pcf:	111.3	112.0	113.8	
Void ratio:	0.5709	0.5606	0.5357	
% Saturation:	27.2	100.0	100.0	

Test Readings Data for Specimen No. 2

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 77.80 psi = 11.20 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 4.00 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 21.31 ksf at reading no. 20
ULT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	4.00	4.00	1.00	50.00	4.00	0.00
1	0.0100	0.010	64.00	179.2	0.2	4.16	3.96	8.12	2.05	50.30	6.04	2.08
2	0.0200	0.020	100.00	280.0	0.3	6.49	3.87	10.36	2.68	50.90	7.12	3.24
3	0.0300	0.030	125.00	350.0	0.5	8.10	3.80	11.90	3.13	51.40	7.85	4.05
4	0.0400	0.040	144.00	403.2	0.7	9.31	3.73	13.04	3.50	51.90	8.39	4.66
5	0.0500	0.050	160.00	448.0	0.8	10.33	3.69	14.02	3.80	52.20	8.85	5.16
6	0.0600	0.060	175.00	490.0	1.0	11.28	3.63	14.91	4.11	52.60	9.27	5.64
7	0.0700	0.070	189.00	529.2	1.2	12.16	3.60	15.76	4.38	52.80	9.68	6.08
8	0.0800	0.080	199.00	557.2	1.3	12.78	3.59	16.37	4.56	52.90	9.98	6.39
9	0.0900	0.090	208.00	582.4	1.5	13.34	3.57	16.91	4.73	53.00	10.24	6.67
10	0.1000	0.100	218.00	610.4	1.7	13.96	3.59	17.54	4.89	52.90	10.56	6.98
11	0.1500	0.150	254.00	711.2	2.5	16.12	3.69	19.81	5.37	52.20	11.75	8.06
12	0.2000	0.200	279.00	781.2	3.4	17.56	3.84	21.40	5.57	51.10	12.62	8.78
13	0.2500	0.250	297.00	831.6	4.2	18.53	4.03	22.56	5.59	49.80	13.29	9.26
14	0.3000	0.300	310.00	868.0	5.0	19.17	4.06	23.23	5.72	49.60	13.64	9.58
15	0.3500	0.350	323.00	904.4	5.9	19.79	4.39	24.19	5.51	47.30	14.29	9.90
16	0.4000	0.400	338.00	946.4	6.7	20.53	4.56	25.09	5.50	46.10	14.83	10.26
17	0.4500	0.450	345.00	966.0	7.6	20.77	4.69	25.46	5.42	45.20	15.08	10.38
18	0.5000	0.500	352.00	985.6	8.4	20.99	4.85	25.85	5.33	44.10	15.35	10.50
19	0.5500	0.550	358.00	1002.4	9.2	21.16	4.97	26.13	5.26	43.30	15.55	10.58
20	0.6000	0.600	364.00	1019.2	10.1	21.31	5.08	26.40	5.19	42.50	15.74	10.66

Test Readings Data for Specimen No. 2

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
21	0.6500	0.650	355.00	994.0	10.9	20.59	5.11	25.70	5.03	42.30	15.41	10.30
22	0.7000	0.700	345.00	966.0	11.7	19.82	5.16	24.98	4.85	42.00	15.07	9.91
23	0.7500	0.750	340.00	952.0	12.6	19.35	5.20	24.55	4.72	41.70	14.87	9.68
24	0.8000	0.800	339.00	949.2	13.4	19.11	5.30	24.41	4.61	41.00	14.85	9.55
25	0.8500	0.850	344.00	963.2	14.3	19.20	5.34	24.54	4.59	40.70	14.94	9.60
26	0.9000	0.900	341.00	954.8	15.1	18.85	5.37	24.22	4.51	40.50	14.80	9.42

Specimen Parameters for Specimen No. 3

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1238.180			1289.430
Wt. dry soil and tare:	1132.060			1132.060
Wt. of tare:	0.000			0.000
Weight, gms:	1238.2			
Diameter, in:	2.840	2.771	2.860	
Area, in²:	6.335	6.029	6.426	
Height, in:	6.019	6.019	6.016	
Net decrease in height, in:		0.000	0.003	
Net decrease in water volume, cc:		-84.200	-38.900	
% Moisture:	9.4	16.8	20.2	13.9
Wet density, pcf:	123.7	138.8	134.1	
Dry density, pcf:	113.1	118.9	111.6	
Void ratio:	0.5454	0.4707	0.5669	
% Saturation:	48.1	100.0	100.0	

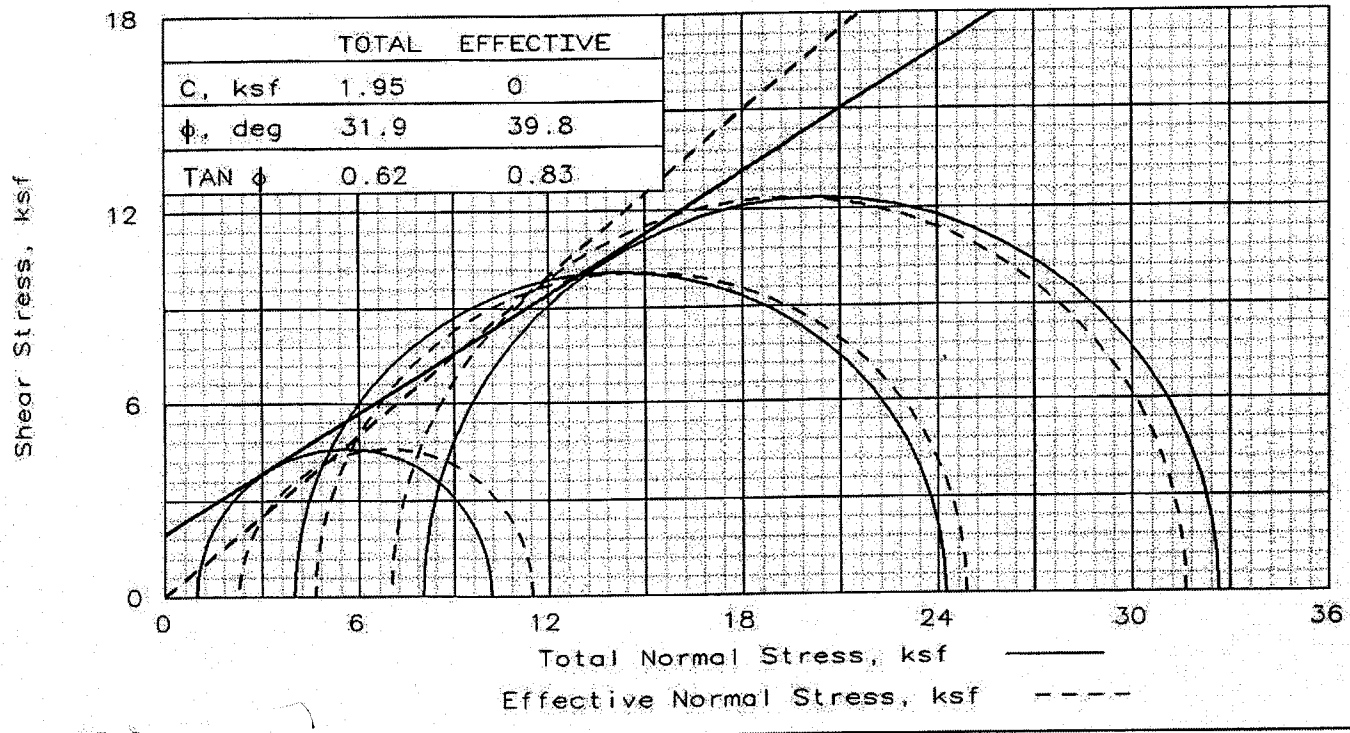
Test Readings Data for Specimen No. 3

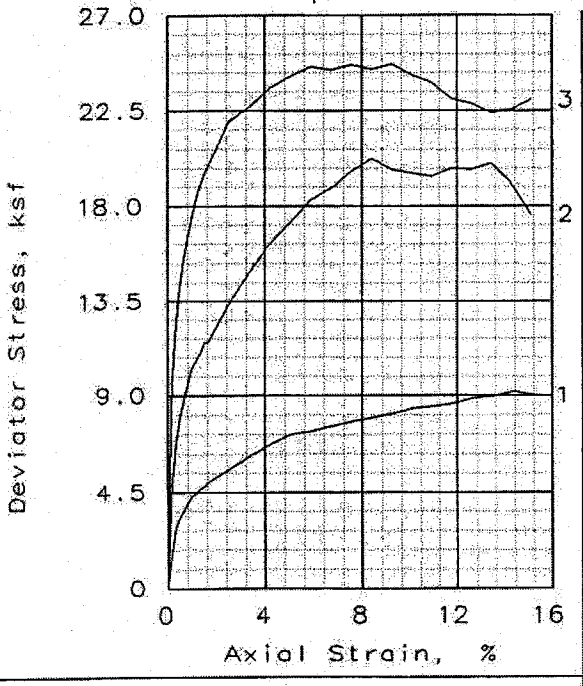
Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 105.50 psi = 15.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 7.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 24.78 ksf at reading no. 22
PLT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	7.99	7.99	1.00	50.00	7.99	0.00
1	0.0100	0.010	81.00	226.8	0.2	5.07	7.92	12.99	1.64	50.50	10.46	2.54
2	0.0200	0.020	125.00	350.0	0.3	7.82	7.80	15.62	2.00	51.30	11.71	3.91
3	0.0300	0.030	153.00	428.4	0.5	9.55	7.68	17.23	2.24	52.20	12.45	4.78
4	0.0400	0.040	180.00	504.0	0.7	11.22	7.53	18.75	2.49	53.20	13.14	5.61
5	0.0500	0.050	199.00	557.2	0.8	12.38	7.42	19.80	2.67	54.00	13.61	6.19
6	0.0600	0.060	214.00	599.2	1.0	13.29	7.29	20.58	2.82	54.90	13.93	6.65
7	0.0700	0.070	226.00	632.8	1.2	14.01	7.19	21.20	2.95	55.60	14.19	7.01
8	0.0800	0.080	236.00	660.8	1.3	14.61	7.10	21.71	3.06	56.20	14.40	7.31
9	0.0900	0.090	248.00	694.4	1.5	15.33	7.01	22.34	3.19	56.80	14.68	7.66
10	0.1000	0.100	256.00	716.8	1.7	15.80	6.94	22.74	3.28	57.30	14.84	7.90
11	0.1500	0.150	293.00	820.4	2.5	17.93	6.70	24.62	3.68	59.00	15.66	8.96
12	0.2000	0.200	315.00	882.0	3.3	19.11	6.60	25.70	3.90	59.70	16.15	9.55
13	0.2500	0.250	335.00	938.0	4.2	20.15	6.61	26.76	4.05	59.60	16.68	10.07
14	0.3000	0.300	355.00	994.0	5.0	21.16	6.68	27.84	4.17	59.10	17.26	10.58
15	0.3500	0.350	376.00	1052.8	5.8	22.22	6.83	29.04	4.26	58.10	17.94	11.11
16	0.4000	0.400	391.00	1094.8	6.6	22.90	6.91	29.81	4.31	57.50	18.36	11.45
17	0.4500	0.450	403.00	1128.4	7.5	23.39	7.01	30.41	4.34	56.80	18.71	11.70
18	0.5000	0.500	417.00	1167.6	8.3	23.99	7.14	31.13	4.36	55.90	19.14	11.99
19	0.5500	0.550	432.00	1209.6	9.1	24.63	7.27	31.90	4.39	55.00	19.59	12.31
20	0.6000	0.600	434.00	1215.2	10.0	24.51	7.39	31.90	4.32	54.20	19.64	12.26

Test Readings Data for Specimen No. 3

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
1	0.6500	0.650	440.00	1232.0	10.8	24.62	7.52	32.14	4.28	53.30	19.83	12.31
22	0.7000	0.700	447.00	1251.6	11.6	24.78	7.60	32.39	4.26	52.70	19.99	12.39
23	0.7500	0.750	450.00	1260.0	12.5	24.71	7.69	32.40	4.21	52.10	20.05	12.36
[illegible]	0.8000	0.800	449.00	1257.2	13.3	24.43	7.76	32.19	4.15	51.60	19.97	12.21
[illegible]	0.8500	0.850	447.00	1251.6	14.1	24.08	7.83	31.92	4.07	51.10	19.88	12.04
26	0.9000	0.900	440.00	1232.0	15.0	23.48	7.91	31.38	3.97	50.60	19.64	11.74





SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	3.4	2.7	12.7
	DRY DENSITY, pcf	95.4	101.6	96.5
	SATURATION, %	11.6	10.7	44.2
	VOID RATIO	0.819	0.708	0.798
	DIAMETER, in	2.88	2.88	2.88
	HEIGHT, in	5.96	5.96	5.96
AT TEST	WATER CONTENT, %	21.5	18.1	20.1
	DRY DENSITY, pcf	108.6	115.4	111.3
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	0.598	0.504	0.560
	DIAMETER, in	2.71	2.71	2.69
	HEIGHT, in	5.91	5.96	5.96
Strain rate, %/min		0.17	0.17	0.17
BACK PRESSURE, ksf		7.2	7.2	7.2
CELL PRESSURE, ksf		8.2	11.2	15.2
FAIL. STRESS, ksf		9.2	20.2	24.7
TOTAL PORE PR., ksf		5.9	6.6	8.2
ULT. STRESS, ksf				
TOTAL PORE PR., ksf				
$\bar{\sigma}_1$ FAILURE, ksf		11.5	24.9	31.7
$\bar{\sigma}_3$ FAILURE, ksf		2.3	4.7	7.0

TYPE OF TEST:
CU with Pore Pressures
SAMPLE TYPE: Shelby Tube
DESCRIPTION: Black Ash Coal Fragments

SPECIFIC GRAVITY= 2.78
REMARKS:

Fig. No.: _____

HAB

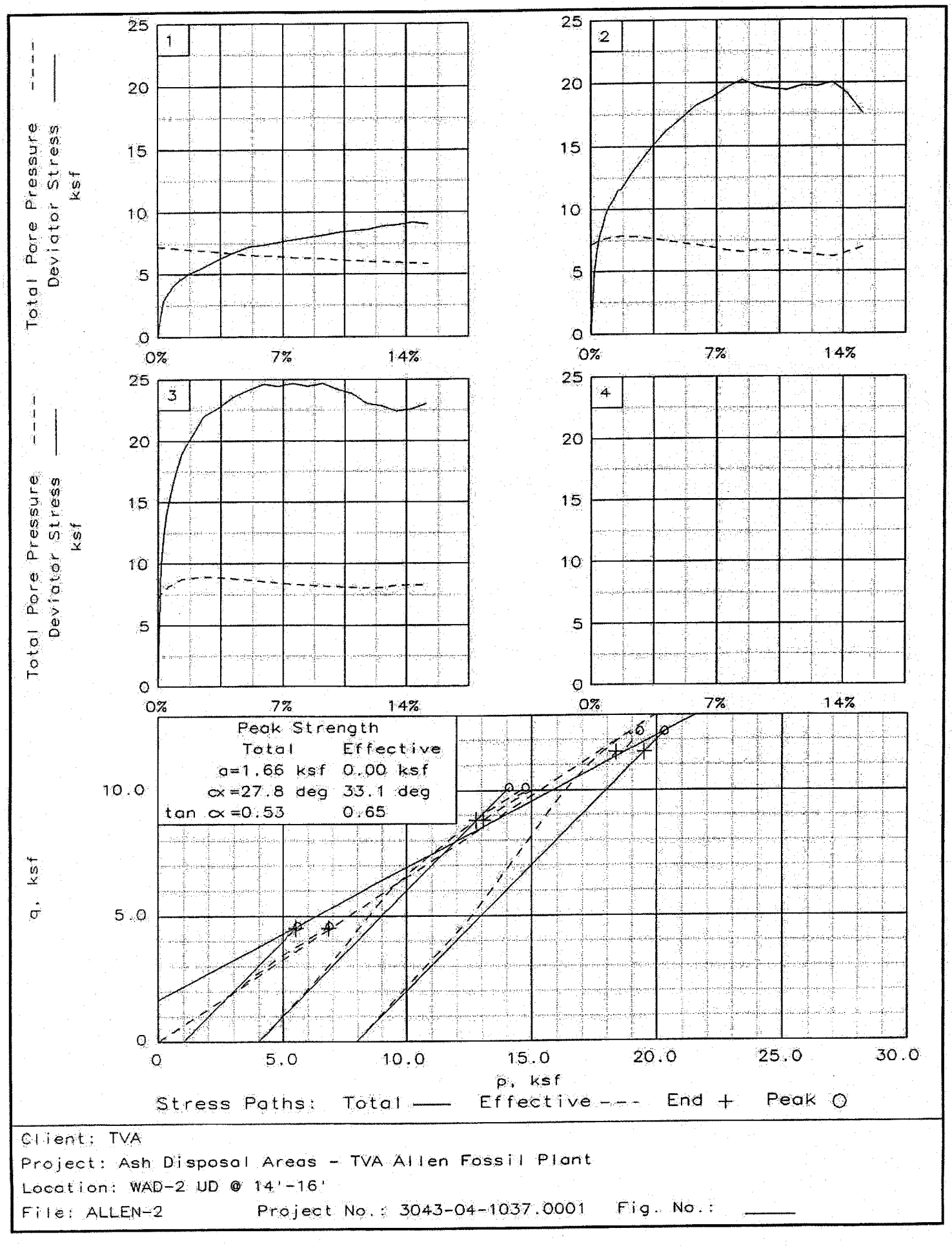
CLIENT: TVA

PROJECT: Ash Disposal Areas - TVA Allen Fossil Plant
SAMPLE LOCATION: WAD-2 UD @ 14'-16'

PROJ. NO.: 3043-04-1037.0001 DATE: 08-10-04

TRIAXIAL SHEAR TEST REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES



Client: TVA

Project: Ash Disposal Areas - TVA Allen Fossil Plant

Location: WAD-2 UD @ 14'-16'

File: ALLEN-2 Project No.: 3043-04-1037.0001 Fig. No.: ____

Project and Sample Data

Date: 08-10-04
Client: TVA
Project: Ash Disposal Areas - TVA Allen Fossil Plant
Sample location: WAD-2 UD @ 14'-16'
Sample description: Black Ash Coal Fragments
Remarks:

Fig no.: 2nd page Fig no. (if applicable):
Type of sample: Shelby Tube
Specific gravity= 2.78 LL= NV PL= NP PI=
Test method: Corps of Eng. - saturation assumed

Specimen Parameters for Specimen No. 1

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1008.960			1075.850
Wt. dry soil and tare:	975.570			975.570
Wt. of tare:	0.000			0.000
Weight, gms:	1009.0			
Diameter, in:	2.884	2.711	2.714	
Area, in²:	6.533	5.773	5.785	
Height, in:	5.962	5.962	5.914	
Net decrease in height, in:		0.000	0.048	
Net decrease in water volume, cc:		-179.700	3.400	
% Moisture:	3.4	21.8	21.5	10.3
Wet density, pcf:	98.7	131.6	132.0	
Dry density, pcf:	95.4	108.0	108.6	
Void ratio:	0.8187	0.6072	0.5975	
% Saturation:	11.6	100.0	100.0	

Test Readings Data for Specimen No. 1

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 56.90 psi = 8.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 0.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 9.19 ksf at reading no. 25
ULT. STRESS = not selected

Test Readings Data for Specimen No. 1

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	0.99	0.99	1.00	50.00	0.99	0.00
1	0.0100	0.010	24.00	67.2	0.2	1.67	0.99	2.66	2.68	50.00	1.83	0.83
2	0.0200	0.020	41.00	114.8	0.3	2.85	0.99	3.84	3.87	50.00	2.42	1.42
3	0.0300	0.030	48.00	134.4	0.5	3.33	1.02	4.35	4.26	49.80	2.69	1.66
4	0.0400	0.040	53.00	148.4	0.7	3.67	1.05	4.72	4.49	49.60	2.89	1.83
5	0.0500	0.050	58.00	162.4	0.8	4.01	1.08	5.09	4.71	49.40	3.08	2.00
6	0.0600	0.060	62.00	173.6	1.0	4.28	1.09	5.37	4.91	49.30	3.23	2.14
7	0.0700	0.070	65.00	182.0	1.2	4.48	1.12	5.60	4.99	49.10	3.36	2.24
8	0.0800	0.080	68.00	190.4	1.4	4.68	1.15	5.83	5.06	48.90	3.49	2.34
9	0.0900	0.090	70.00	196.0	1.5	4.80	1.17	5.97	5.12	48.80	3.57	2.40
10	0.1000	0.100	73.00	204.4	1.7	5.00	1.20	6.20	5.19	48.60	3.70	2.50
11	0.1500	0.150	82.00	229.6	2.5	5.57	1.30	6.87	5.30	47.90	4.08	2.79
12	0.2000	0.200	92.00	257.6	3.4	6.20	1.41	7.61	5.39	47.10	4.51	3.10
13	0.2500	0.250	101.00	282.8	4.2	6.74	1.53	8.27	5.42	46.30	4.90	3.37
14	0.3000	0.300	109.00	305.2	5.1	7.21	1.64	8.85	5.39	45.50	5.25	3.61
15	0.3500	0.350	112.00	313.6	5.9	7.34	1.71	9.06	5.29	45.00	5.39	3.67
16	0.4000	0.400	117.00	327.6	6.8	7.60	1.77	9.37	5.29	44.60	5.57	3.80
17	0.4500	0.450	121.00	338.8	7.6	7.79	1.86	9.65	5.19	44.00	5.75	3.90
18	0.5000	0.500	125.00	350.0	8.5	7.98	1.90	9.88	5.20	43.70	5.89	3.99
19	0.5500	0.550	129.00	361.2	9.3	8.16	1.94	10.10	5.20	43.40	6.02	4.08
20	0.6000	0.600	134.00	375.2	10.1	8.39	2.03	10.42	5.13	42.80	6.23	4.20
21	0.6500	0.650	137.00	383.6	11.0	8.50	2.09	10.59	5.07	42.40	6.34	4.25
22	0.7000	0.700	140.00	392.0	11.8	8.60	2.16	10.76	4.98	41.90	6.46	4.30
23	0.7500	0.750	146.00	408.8	12.7	8.89	2.20	11.09	5.03	41.60	6.65	4.44
24	0.8000	0.800	149.00	417.2	13.5	8.98	2.23	11.21	5.02	41.40	6.72	4.49
25	0.8500	0.850	154.00	431.2	14.4	9.19	2.29	11.48	5.01	41.00	6.89	4.60
26	0.9000	0.900	153.00	428.4	15.2	9.04	2.33	11.37	4.88	40.70	6.85	4.52

Specimen Parameters for Specimen No. 2

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1066.980			1197.060
Wt. dry soil and tare:	1038.570			1038.570
Wt. of tare:	0.000			0.000
Weight, gms:	1067.0			
Diameter, in:	2.884	2.726	2.706	
Area, in²:	6.533	5.837	5.753	
Height, in:	5.959	5.959	5.959	
Net decrease in height, in:		0.000	0.000	
Net decrease in water volume, cc:		-168.000	8.200	
% Moisture:	2.7	18.9	18.1	15.3
Wet density, pcf:	104.4	135.3	136.3	
Dry density, pcf:	101.6	113.7	115.4	
Void ratio:	0.7075	0.5257	0.5038	
% Saturation:	10.7	100.0	100.0	

Test Readings Data for Specimen No. 2

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 77.80 psi = 11.20 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 4.00 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 20.22 ksf at reading no. 18
ULT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	4.00	4.00	1.00	50.00	4.00	0.00
1	0.0100	0.010	69.00	193.2	0.2	4.83	3.90	8.73	2.24	50.70	6.32	2.41
2	0.0200	0.020	96.00	268.8	0.3	6.71	3.79	10.49	2.77	51.50	7.14	3.35
3	0.0300	0.030	114.00	319.2	0.5	7.95	3.69	11.64	3.16	52.20	7.66	3.97
4	0.0400	0.040	125.00	350.0	0.7	8.70	3.59	12.29	3.43	52.90	7.94	4.35
5	0.0500	0.050	138.00	386.4	0.8	9.59	3.53	13.12	3.72	53.30	8.32	4.80
6	0.0600	0.060	148.00	414.4	1.0	10.27	3.48	13.75	3.95	53.60	8.62	5.13
7	0.0700	0.070	153.00	428.4	1.2	10.60	3.44	14.04	4.08	53.90	8.74	5.30
8	0.0800	0.080	159.00	445.2	1.3	10.99	3.40	14.39	4.23	54.20	8.90	5.50
9	0.0900	0.090	167.00	467.6	1.5	11.53	3.37	14.90	4.42	54.40	9.13	5.76
10	0.1000	0.100	168.00	470.4	1.7	11.58	3.33	14.90	4.48	54.70	9.11	5.79
11	0.1500	0.150	196.00	548.8	2.5	13.39	3.40	16.79	4.94	54.20	10.09	6.70
12	0.2000	0.200	220.00	616.0	3.4	14.90	3.54	18.44	5.21	53.20	10.99	7.45
13	0.2500	0.250	242.00	677.6	4.2	16.25	3.73	19.98	5.36	51.90	11.85	8.12
14	0.3000	0.300	259.00	725.2	5.0	17.24	3.89	21.13	5.43	50.80	12.51	8.62
15	0.3500	0.350	277.00	775.6	5.9	18.27	4.09	22.36	5.47	49.40	13.23	9.14
16	0.4000	0.400	288.00	806.4	6.7	18.83	4.26	23.09	5.42	48.20	13.68	9.41
17	0.4500	0.450	303.00	848.4	7.6	19.63	4.49	24.12	5.37	46.60	14.31	9.82
18	0.5000	0.500	315.00	882.0	8.4	20.22	4.65	24.88	5.35	45.50	14.76	10.11
19	0.5500	0.550	310.00	868.0	9.2	19.72	4.49	24.21	5.39	46.60	14.35	9.86
20	0.6000	0.600	310.00	868.0	10.1	19.54	4.54	24.07	5.31	46.30	14.31	9.77

Test Readings Data for Specimen No. 2

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
1	0.6500	0.650	311.00	870.8	10.9	19.42	4.58	24.00	5.24	46.00	14.29	9.71
2	0.7000	0.700	320.00	896.0	11.7	19.79	4.80	24.59	5.13	44.50	14.69	9.90
23	0.7500	0.750	322.00	901.6	12.6	19.73	4.90	24.62	5.03	43.80	14.76	9.86
24	0.8000	0.800	330.00	924.0	13.4	20.02	5.04	25.06	4.97	42.80	15.05	10.01
5	0.8500	0.850	318.00	890.4	14.3	19.11	4.68	23.79	5.08	45.30	14.23	9.55
26	0.9000	0.900	296.00	828.8	15.1	17.61	4.28	21.89	5.12	48.10	13.08	8.81

Specimen Parameters for Specimen No. 3

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1111.430			1122.020
Wt. dry soil and tare:	986.380			986.380
Wt. of tare:	0.000			0.000
Weight, gms:	1111.4			
Diameter, in:	2.884	2.711	2.686	
Area, in²:	6.533	5.772	5.668	
Height, in:	5.958	5.958	5.958	
Net decrease in height, in:		0.000	0.000	
Net decrease in water volume, cc:		-83.700	10.200	
% Moisture:	12.7	21.2	20.1	13.8
Wet density, pcf:	108.8	132.4	133.7	
Dry density, pcf:	96.5	109.3	111.3	
Void ratio:	0.7976	0.5883	0.5596	
% Saturation:	44.2	100.0	100.0	

Test Readings Data for Specimen No. 3

Deformation dial constant= 1 in per input unit
Primary load ring constant= 2.8 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 105.50 psi = 15.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 7.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 24.67 ksf at reading no. 19
ULT. STRESS = not selected

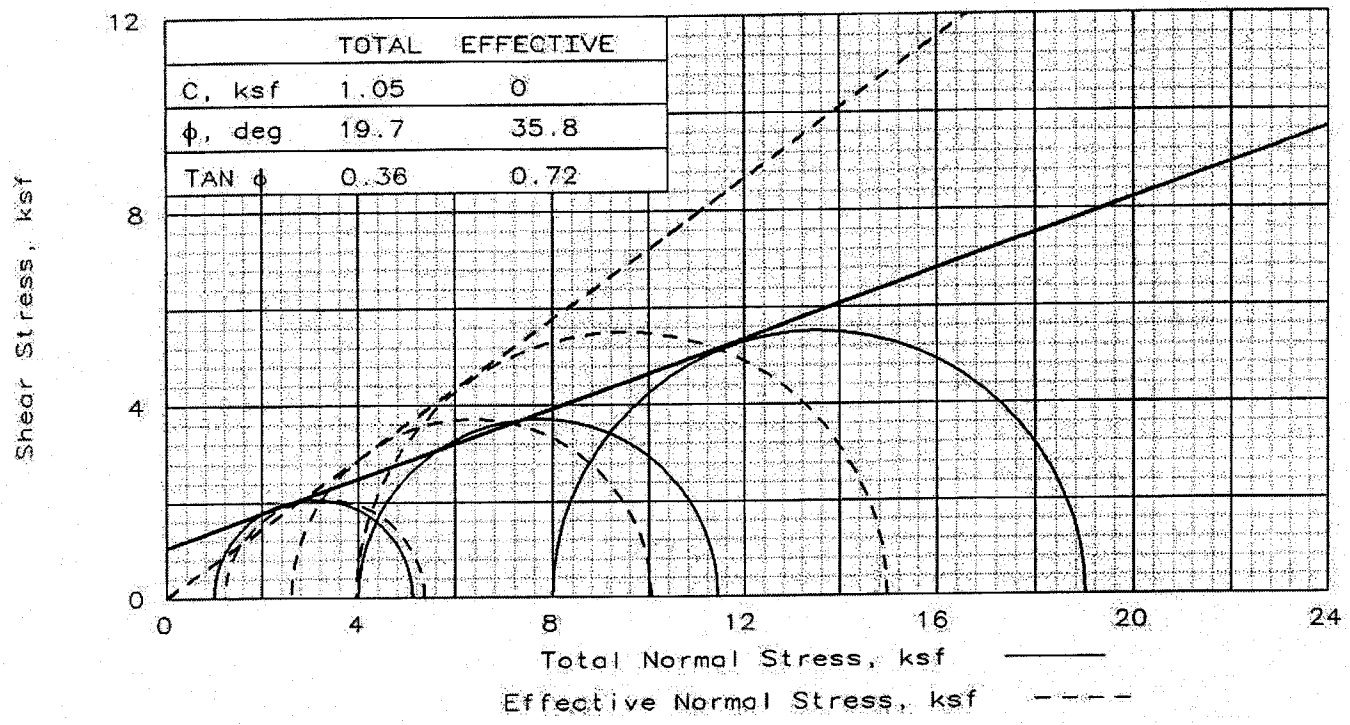
No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.00	0.0	0.0	0.00	7.99	7.99	1.00	50.00	7.99	0.00
1	0.0100	0.010	136.00	380.8	0.2	9.66	7.65	17.31	2.26	52.40	12.48	4.83
2	0.0200	0.020	174.00	487.2	0.3	12.34	7.36	19.70	2.68	54.40	13.53	6.17
3	0.0300	0.030	200.00	560.0	0.5	14.16	7.11	21.27	2.99	56.10	14.19	7.08
4	0.0400	0.040	219.00	613.2	0.7	15.48	6.93	22.40	3.23	57.40	14.66	7.74
5	0.0500	0.050	235.00	658.0	0.8	16.58	6.80	23.37	3.44	58.30	15.09	8.29
6	0.0600	0.060	248.00	694.4	1.0	17.47	6.67	24.13	3.62	59.20	15.40	8.73
7	0.0700	0.070	260.00	728.0	1.2	18.28	6.55	24.83	3.79	60.00	15.69	9.14
8	0.0800	0.080	271.00	758.8	1.3	19.02	6.45	25.47	3.95	60.70	15.96	9.51
9	0.0900	0.090	279.00	781.2	1.5	19.55	6.41	25.96	4.05	61.00	16.18	9.77
10	0.1000	0.100	285.00	798.0	1.7	19.93	6.36	26.30	4.13	61.30	16.33	9.97
11	0.1500	0.150	317.00	887.6	2.5	21.98	6.28	28.26	4.50	61.90	17.27	10.99
12	0.2000	0.200	330.00	924.0	3.4	22.69	6.29	28.98	4.61	61.80	17.64	11.34
13	0.2500	0.250	346.00	968.8	4.2	23.58	6.41	29.99	4.68	61.00	18.20	11.79
14	0.3000	0.300	357.00	999.6	5.0	24.12	6.49	30.61	4.71	60.40	18.55	12.06
15	0.3500	0.350	367.00	1027.6	5.9	24.57	6.62	31.20	4.71	59.50	18.91	12.29
16	0.4000	0.400	368.00	1030.4	6.7	24.42	6.75	31.18	4.62	58.60	18.96	12.21
17	0.4500	0.450	375.00	1050.0	7.6	24.66	6.84	31.50	4.61	58.00	19.17	12.33
18	0.5000	0.500	375.00	1050.0	8.4	24.44	6.91	31.35	4.54	57.50	19.13	12.22
19	0.5500	0.550	382.00	1069.6	9.2	24.67	7.00	31.67	4.52	56.90	19.33	12.33
20	0.6000	0.600	378.00	1058.4	10.1	24.18	7.04	31.22	4.43	56.60	19.13	12.09

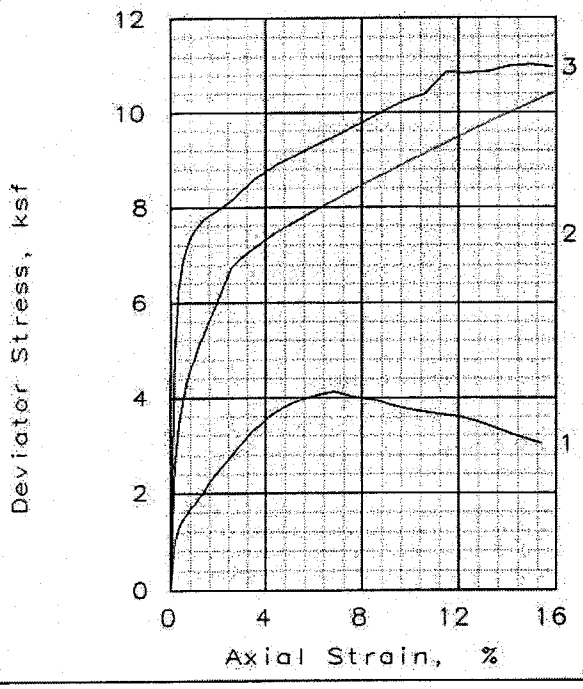
Test Readings Data for Specimen No. 3

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
21	0.6500	0.650	376.00	1052.8	10.9	23.83	7.10	30.93	4.36	56.20	19.01	11.92
22	0.7000	0.700	367.00	1027.6	11.7	23.04	7.13	30.17	4.23	56.00	18.65	11.52
23	0.7500	0.750	367.00	1027.6	12.6	22.82	7.13	29.95	4.20	56.00	18.54	11.41
24	0.8000	0.800	364.00	1019.2	13.4	22.42	6.94	29.36	4.23	57.30	18.15	11.21
25	0.8500	0.850	370.00	1036.0	14.3	22.57	6.91	29.48	4.26	57.50	18.20	11.28
26	0.9000	0.900	381.00	1066.8	15.1	23.01	6.88	29.89	4.34	57.70	18.39	11.51

TRIAXIAL COMPRESSION TEST RESULTS

WEST DISPOSAL AREA





SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	24.2	28.7	32.0
	DRY DENSITY, pcf	98.7	94.8	90.2
	SATURATION, %	92.6	100.0	100.0
	VOID RATIO	0.702	0.771	0.862
	DIAMETER, in	2.83	2.82	2.86
	HEIGHT, in	5.86	5.83	5.89
AT TEST	WATER CONTENT, %	22.8	27.1	28.5
	DRY DENSITY, pcf	104.0	97.1	95.1
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	0.614	0.729	0.766
	DIAMETER, in	2.75	2.79	2.84
	HEIGHT, in	5.85	5.81	5.68
Strain rate, %/min		0.17	0.17	0.17
BACK PRESSURE, ksf		7.2	7.2	7.2
CELL PRESSURE, ksf		8.2	11.2	15.2
FAIL. STRESS, ksf		4.1	7.4	11.0
TOTAL PORE PR., ksf		7.0	8.6	11.2
ULT. STRESS, ksf				
TOTAL PORE PR., ksf				
$\bar{\sigma}_1$ FAILURE, ksf		5.4	10.1	15.0
$\bar{\sigma}_3$ FAILURE, ksf		1.2	2.6	4.0

TYPE OF TEST:
CU with Pore Pressures
SAMPLE TYPE: Shelby Tube
DESCRIPTION: Olive-Brown Silt with Sand

SPECIFIC GRAVITY= 2.69
REMARKS:

Fig. No.: _____ HAB

CLIENT: TVA

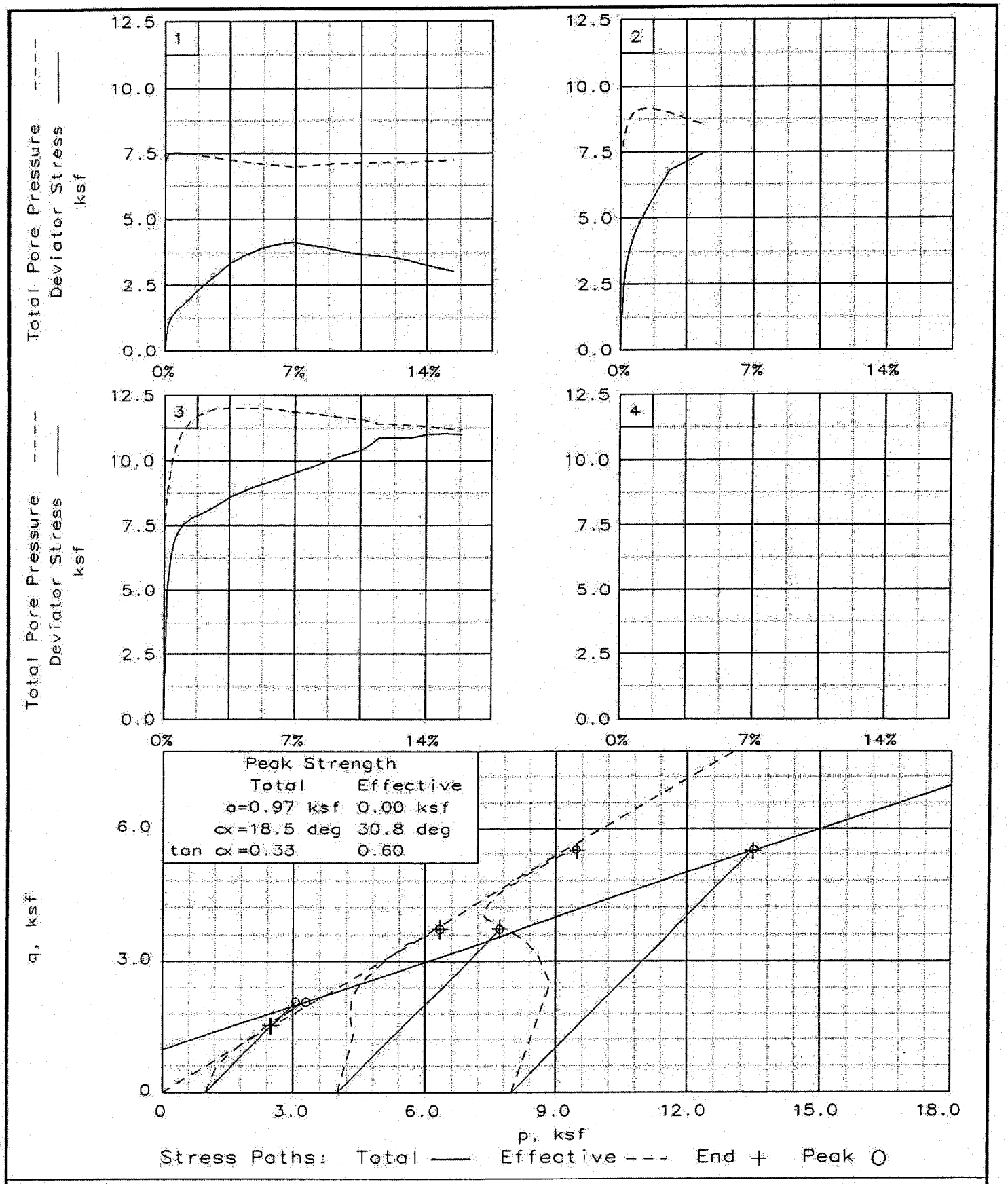
PROJECT: TVA Allen Fossil Plant

SAMPLE LOCATION: WAD-2 UD @ 30'-32'

PROJ. NO.: 3043-04-1037.0001 DATE: 08-10-04

TRIAXIAL SHEAR TEST REPORT

LAW ENGINEERING AND ENVIRONMENTAL SERVICES



Client: TVA

Project: TVA Allen Fossil Plant

Location: WAD-2 UD @ 30'-32'

File: ALLEN-3 Project No.: 3043-04-1037.0001 Fig. No.: _____

Project and Sample Data

Date: 08-10-04
Client: TVA
Project: TVA Allen Fossil Plant
Sample location: WAD-2 UD @ 30'-32'
Sample description: Olive-Brown Silt with Sand
Remarks:

Fig no.: 2nd page Fig no. (if applicable):
Type of sample: Shelby Tube
Specific gravity= 2.69 LL= NV PL= NP PI=
Test method: Corps of Eng. - saturation assumed

Specimen Parameters for Specimen No. 1

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1180.670			1199.900
Wt. dry soil and tare:	950.960			950.960
Wt. of tare:	0.000			0.000
Weight, gms:	1180.7			
Diameter, in:	2.825	2.781	2.753	
Area, in²:	6.268	6.076	5.955	
Height, in:	5.858	5.858	5.849	
Net decrease in height, in:		0.000	0.009	
Net decrease in water volume, cc:		0.000	12.500	
Moisture:	24.2	24.2	22.8	26.2
Wet density, pcf:	122.5	126.4	127.8	
Dry density, pcf:	98.7	101.8	104.0	
Void ratio:	0.7020	0.6498	0.6144	
% Saturation:	92.6	100.0	100.0	

Test Readings Data for Specimen No. 1

Deformation dial constant= 1 in per input unit
Primary load ring constant= 0.72 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 56.90 psi = 8.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 0.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 4.14 ksf at reading no. 16
ULT. STRESS = not selected

Test Readings Data for Specimen No. 1

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.0	0.0	0.0	0.00	0.99	0.99	1.00	50.00	0.99	0.00
1	0.0100	0.010	58.0	41.8	0.2	1.01	0.71	1.71	2.43	52.00	1.21	0.50
2	0.0200	0.020	74.0	53.3	0.3	1.28	0.68	1.96	2.90	52.20	1.32	0.64
3	0.0300	0.030	83.0	59.8	0.5	1.44	0.66	2.10	3.17	52.30	1.38	0.72
4	0.0400	0.040	91.0	65.5	0.7	1.57	0.66	2.24	3.38	52.30	1.45	0.79
5	0.0500	0.050	98.0	70.6	0.9	1.69	0.68	2.37	3.50	52.20	1.52	0.85
6	0.0600	0.060	104.0	74.9	1.0	1.79	0.69	2.48	3.59	52.10	1.59	0.90
7	0.0700	0.070	110.0	79.2	1.2	1.89	0.71	2.60	3.68	52.00	1.65	0.95
8	0.0800	0.080	118.0	85.0	1.4	2.03	0.72	2.75	3.81	51.90	1.73	1.01
9	0.0900	0.090	126.0	90.7	1.5	2.16	0.73	2.89	3.94	51.80	1.81	1.08
10	0.1000	0.100	133.0	95.8	1.7	2.28	0.76	3.04	3.98	51.60	1.90	1.14
11	0.1500	0.150	164.0	118.1	2.6	2.78	0.85	3.63	4.27	51.00	2.24	1.39
12	0.2000	0.200	195.0	140.4	3.4	3.28	0.94	4.22	4.50	50.40	2.58	1.64
13	0.2500	0.250	219.0	157.7	4.3	3.65	1.02	4.67	4.57	49.80	2.85	1.83
14	0.3000	0.300	236.0	169.9	5.1	3.90	1.11	5.01	4.52	49.20	3.06	1.95
15	0.3500	0.350	247.0	177.8	6.0	4.04	1.17	5.21	4.47	48.80	3.19	2.02
16	0.4000	0.400	255.0	183.6	6.8	4.14	1.22	5.36	4.38	48.40	3.29	2.07
17	0.4500	0.450	250.0	180.0	7.7	4.02	1.18	5.20	4.40	48.70	3.19	2.01
18	0.5000	0.500	248.0	178.6	8.5	3.95	1.12	5.07	4.52	49.10	3.10	1.97
19	0.5500	0.550	242.0	174.2	9.4	3.82	1.09	4.91	4.49	49.30	3.00	1.91
20	0.6000	0.600	238.0	171.4	10.3	3.72	1.08	4.80	4.44	49.40	2.94	1.86
21	0.6500	0.650	236.0	169.9	11.1	3.65	1.07	4.72	4.43	49.50	2.89	1.83
22	0.7000	0.700	235.0	169.2	12.0	3.60	1.05	4.65	4.43	49.60	2.85	1.80
23	0.7500	0.750	229.0	164.9	12.8	3.48	1.05	4.53	4.31	49.60	2.79	1.74
24	0.8000	0.800	221.0	159.1	13.7	3.32	1.02	4.34	4.25	49.80	2.68	1.66
25	0.8500	0.850	213.0	153.4	14.5	3.17	0.99	4.16	4.19	50.00	2.58	1.58
26	0.9000	0.900	206.0	148.3	15.4	3.03	0.96	4.00	4.15	50.20	2.48	1.52

Specimen Parameters for Specimen No. 2

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1165.370			1151.340
Wt. dry soil and tare:	905.790			905.790
Wt. of tare:	0.000			0.000
Weight, gms:	1165.4			
Diameter, in:	2.820	2.820	2.790	
Area, in²:	6.246	6.246	6.113	
Height, in:	5.826	5.826	5.812	
Net decrease in height, in:		0.000	0.014	
Net decrease in water volume, cc:		0.000	14.100	
% Moisture:	28.7	28.7	27.1	27.1
Wet density, pcf:	122.0	122.0	123.4	
Dry density, pcf:	94.8	94.8	97.1	
Void ratio:	0.7709	0.7709	0.7290	
% Saturation:	100.0	100.0	100.0	

Test Readings Data for Specimen No. 2

Deformation dial constant= 1 in per input unit
Primary load ring constant= 0.72 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 77.80 psi = 11.20 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 4.00 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 7.43 ksf at reading no. 13
ULT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Major ksf	1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.0	0.0	0.0	0.00	4.00	4.00	1.00	50.00	4.00	0.00
1	0.0100	0.010	151.0	108.7	0.2	2.56	3.10	5.65	1.83	56.30	4.37	1.28
2	0.0200	0.020	202.0	145.4	0.3	3.41	2.61	6.02	2.31	59.70	4.31	1.71
3	0.0300	0.030	233.0	167.8	0.5	3.93	2.36	6.29	2.66	61.40	4.33	1.97
4	0.0400	0.040	257.0	185.0	0.7	4.33	2.17	6.50	2.99	62.70	4.34	2.16
5	0.0500	0.050	274.0	197.3	0.9	4.61	2.12	6.72	3.18	63.10	4.42	2.30
6	0.0600	0.060	289.0	208.1	1.0	4.85	2.07	6.92	3.34	63.40	4.50	2.43
7	0.0700	0.070	304.0	218.9	1.2	5.09	2.06	7.15	3.47	63.50	4.61	2.55
8	0.0800	0.080	318.0	229.0	1.4	5.32	2.04	7.36	3.60	63.60	4.70	2.66
9	0.0900	0.090	332.0	239.0	1.5	5.54	2.06	7.60	3.69	63.50	4.83	2.77
10	0.1000	0.100	344.0	247.7	1.7	5.73	2.06	7.79	3.78	63.50	4.93	2.87
11	0.1500	0.150	410.0	295.2	2.6	6.77	2.20	8.98	4.07	62.50	5.59	3.39
12	0.2000	0.200	435.0	313.2	3.4	7.12	2.45	9.57	3.91	60.80	6.01	3.56
13	0.2500	0.250	458.0	329.8	4.3	7.43	2.62	10.05	3.84	59.60	6.34	3.72

Specimen Parameters for Specimen No. 3

Specimen Parameter	Initial	Saturated	Consolidated	Final
Wt. moist soil and tare:	1182.470			1146.920
Wt. dry soil and tare:	895.480			895.480
Wt. of tare:	0.000			0.000
Weight, gms:	1182.5			
Diameter, in:	2.860	2.860	2.837	
Area, in²:	6.424	6.423	6.322	
Height, in:	5.889	5.889	5.676	
Net decrease in height, in:		0.000	0.213	
Net decrease in water volume, cc:		0.000	31.900	
% Moisture:	32.0	32.0	28.5	28.1
Wet density, pcf:	119.1	119.1	122.2	
Dry density, pcf:	90.2	90.2	95.1	
Void ratio:	0.8623	0.8621	0.7663	
% Saturation:	100.0	100.0	100.0	

Test Readings Data for Specimen No. 3

Deformation dial constant= 1 in per input unit
Primary load ring constant= 0.72 lbs per input unit
Secondary load ring constant= 0 lbs per input unit
Crossover reading for secondary load ring= 0 input units
Membrane modulus = 0.14000 kN/cm²
Membrane thickness = 0.012 cm
Consolidation cell pressure = 105.50 psi = 15.19 ksf
Consolidation back pressure = 50.00 psi = 7.20 ksf
Consolidation effective confining stress = 7.99 ksf
Strain rate, %/min = 0.17
FAIL. STRESS = 11.02 ksf at reading no. 25
ULT. STRESS = not selected

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
0	0.0000	0.000	0.0	0.0	0.0	0.00	7.99	7.99	1.00	50.00	7.99	0.00
1	0.0100	0.010	304.0	218.9	0.2	4.98	6.39	11.37	1.78	61.10	8.88	2.49
2	0.0200	0.020	384.0	276.5	0.4	6.28	5.47	11.75	2.15	67.50	8.61	3.14
3	0.0300	0.030	421.0	303.1	0.5	6.87	4.91	11.78	2.40	71.40	8.34	3.43
4	0.0400	0.040	441.0	317.5	0.7	7.18	4.51	11.69	2.59	74.20	8.10	3.59
5	0.0500	0.050	455.0	327.6	0.9	7.40	4.22	11.62	2.75	76.20	7.92	3.70
6	0.0600	0.060	465.0	334.8	1.1	7.55	3.97	11.52	2.90	77.90	7.75	3.77
7	0.0700	0.070	472.0	339.8	1.2	7.65	3.84	11.49	2.99	78.80	7.67	3.82
8	0.0800	0.080	479.0	344.9	1.4	7.75	3.66	11.40	3.12	80.10	7.53	3.87
9	0.0900	0.090	485.0	349.2	1.6	7.83	3.57	11.40	3.19	80.70	7.49	3.91
10	0.1000	0.100	488.0	351.4	1.8	7.86	3.48	11.35	3.26	81.30	7.42	3.93
11	0.1500	0.150	512.0	368.6	2.6	8.18	3.24	11.42	3.52	83.00	7.33	4.09
12	0.2000	0.200	543.0	391.0	3.5	8.59	3.18	11.77	3.70	83.40	7.48	4.30
13	0.2500	0.250	566.0	407.5	4.4	8.87	3.20	12.07	3.78	83.30	7.63	4.44
14	0.3000	0.300	586.0	421.9	5.3	9.10	3.20	12.30	3.85	83.30	7.75	4.55
15	0.3500	0.350	606.0	436.3	6.2	9.33	3.25	12.58	3.87	82.90	7.92	4.66
16	0.4000	0.400	626.0	450.7	7.0	9.54	3.34	12.88	3.86	82.30	8.11	4.77
17	0.4500	0.450	647.0	465.8	7.9	9.77	3.40	13.17	3.87	81.90	8.28	4.89
18	0.5000	0.500	670.0	482.4	8.8	10.02	3.48	13.51	3.88	81.30	8.50	5.01
19	0.5500	0.550	691.0	497.5	9.7	10.24	3.56	13.79	3.88	80.80	8.67	5.12
20	0.6000	0.600	709.0	510.5	10.6	10.40	3.61	14.01	3.88	80.40	8.81	5.20

Test Readings Data for Specimen No. 3

No.	Def. Dial Units	Def. in	Load Dial Units	Load lbs	Strain %	Deviator Stress ksf	Effective Stresses Minor ksf	Effective Stresses Major ksf	Effective Stresses 1:3 Ratio	Pore Pres. psi	P ksf	Q ksf
21	0.6500	0.650	748.0	538.6	11.5	10.86	3.79	14.65	3.87	79.20	9.22	5.43
22	0.7000	0.700	755.0	543.6	12.3	10.86	3.80	14.66	3.86	79.10	9.23	5.43
23	0.7500	0.750	764.0	550.1	13.2	10.87	3.84	14.72	3.83	78.80	9.28	5.44
24	0.8000	0.800	780.0	561.6	14.1	10.99	3.89	14.88	3.83	78.50	9.38	5.49
25	0.8500	0.850	790.0	568.8	15.0	11.02	3.96	14.98	3.78	78.00	9.47	5.51
26	0.9000	0.900	795.0	572.4	15.9	10.97	4.00	14.97	3.74	77.70	9.49	5.49