CCR COMPLIANCE

LINER CERTIFICATION - FLY ASH AND BOTTOM ASH BASINS

Prepared for:



Louisiana Generating LLC, a subsidiary of NRG Big Cajun II 10431 Cajun II Road New Roads, LA 70760

Prepared by:



CB&I Environmental & Infrastructure, Inc. Baton Rouge, LA 70809

October 2016



Table of Contents_____

| Table of Contentsi |
|--------------------------------|
| List of Figures |
| List of Appendicesi |
| Acronyms and Abbreviationsii |
| CCR Regulatory Requirementsiii |

| NTRODUCTION | 1-1 |
|---|-----|
| REGULATORY OVERVIEW OF CCR LINER CERTIFICATION REQUIREMENTS | 2-1 |
| CR ASH BASIN OVERVIEW | |
| 3.1 Location, Topography, and Character | |
| 3.2 Existing Regulatory Permits | 3-1 |
| 3.3 Fly Ash Basin and Bottom Ash Basin Operation and Conditions | 3-1 |
| INER CERTIFICATION DOCUMENTATION | 4-1 |
| I.1 Liner Evaluation | 4-1 |
| 4.1.1 Previous Investigation Soil Boring Data | |
| 4.1.2 Geotechnical Testing and Evaluation Results | |
| RECORD KEEPING/NOTIFICATION REQUIREMENTS | 5-1 |
| 5.1 Notification Requirements | 5-1 |
| 5.2 Publically Accessible Internet Site Requirements | 5-1 |
| 2UALIFIED PROFESSIONAL ENGINEER CERTIFICATION | 6-1 |
| <pre>XEFERENCES</pre> | 7-1 |
| 4.1.2 Geotechnical Testing and Evaluation Results | |

List of Figures _____

| Figure 1 Site Locati | on |
|----------------------|----|
|----------------------|----|

- Figure 2 Site Layout
- Figure 3 Existing Site Topography
- Figure 4 Isopach Map of Clayey Zone
- Figure 5 Cross-Section Location Map
- Figure 6 Fly Ash Basin Cross-Section A-A'
- Figure 7 Bottom Ash Basin Cross-Section B-B'
- Figure 8 Fly Ash and Bottom Ash Basin Cross-Section C-C'

List of Appendices _____

Appendix A Boring Logs

Appendix B Geotechnical Laboratory Results

Appendix C Atterberg Limits Soil Classification Plot



List of Acronyms _____

| CB&I | CB&I Environmental and Infrastructure |
|-----------------|--|
| BC II | Big Cajun II Plant |
| CCR | Coal Combustion Residuals |
| CFR | Code of Federal Regulations |
| cm/sec | centimeters per second |
| EPA | U.S. Environmental Protection Agency |
| LAC | Louisiana Administrative Code |
| LaGen | Louisiana Generating, LLC |
| LDEQ | Louisiana Department of Environmental Quality |
| MSL | Mean Sea Level |
| NRG | NRG Energy, Inc. |
| RCRA | Resource Conservation and Recovery Act |
| LPDES | Louisiana Pollutant Discharge Elimination System |
| SWMU | Solid Waste Management Units |
| yd ³ | cubic yards |



CCR Regulatory Requirements

| USEPA CCR Rule Criteria 40 CFR 257.71 | NRG Big Cajun II Power Plant Liner Certification Document |
|--|--|
| §257.71(a)(1) stipulates: No later than October 17, 2016, the owner or operator of an existing CCR surface impoundment must document whether or not such unit was constructed with any one of the following: (i) A liner consisting of a minimum of two feet of compacted soil with a hydraulic conductivity of no more than 1x10-7 cm/sec; (ii) A composite liner that meets the requirements of §257.70(b); or (iii) An alternative composite liner that meets the requirements of §257.70(c). | Section 4.0 |
| §257.71(a)(2) stipulates: The hydraulic conductivity of the compacted soil must be determined using recognized and generally accepted methods. | Section 4.1.1 |
| §257.71(a)(3) stipulates: An existing CCR surface impoundment is considered to be an existing unlined CCR surface impoundment if either: (i) The owner or operator of the CCR unit determines that the CCR unit is not constructed with a liner that meets the requirements of paragraphs (a)(1)(i), (ii), or (iii) of this section; or (ii) The owner or operator of the CCR unit fails to document whether the CCR unit was constructed with a liner that meets the requirements of paragraphs (a)(1)(i), (ii), or (iii) of this section. | Section 4.1.2 |
| §257.71(a)(4) stipulates: All existing unlined CCR surface impoundments are subject to the requirements of §257.101(a). | Section 4.1.2 |



| USEPA CCR Rule Criteria 40 CFR 257.71 | NRG Big Cajun II Power Plant Liner Certification Document |
|--|--|
| §257.71(b) stipulates: | Section 6.0 |
| must obtain a certification from a qualified professional engineer attesting that the documentation as to whether a CCR unit meets the requirements of paragraph (a) of this section is accurate. | |
| §257.71(c) stipulates: The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in §257.105(f), the notification requirements specified in §257.106(f), and the Internet requirements specified in §257.107(f). | Section 5.0 |



1.0 INTRODUCTION

CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared the following Liner Certification document at the request of Louisiana Generating, LLC (LaGen) (a subsidiary of NRG Energy, Inc. [NRG]) for the Fly Ash Basin and Bottom Ash Basin (Ash Basins) located at its Big Cajun II Power Plant (BC II Plant) near New Roads, Pointe Coupee Parish, Louisiana (**Figure 1**). The BC II Plant is a coal-fired and natural gas fired power plant that has been in operation since 1980. The Ash Basins have been deemed to be regulated coal combustion residual (CCR) units by the U.S. Environmental Protection Agency (EPA), through the Disposal of Coal Combustion Residuals from Electric Utilities Final Rule (CCR Rule) 40 CFR §257 and §261.

There are five solid waste management units (SWMUs) at the BC II Plant that are operated as industrial surface impoundments in accordance with the Louisiana Department of Environmental Quality (LDEQ), Louisiana Solid Waste Regulations (Louisiana Administrative Code [LAC] Title 33: part VII) under Permit Number P-0108R1 for Facility Identification Number GD-077-0583. Two of the five SWMUs are required to comply with the requirements of the CCR Rule, which include the Fly Ash Basin and Bottom Ash Basin. The other three LDEQ-permitted surface impoundments at the BC II Plant that are not subject to the CCR Rule requirements include the Primary Louisiana Pollutant Discharge Elimination System (LPDES) Treatment Pond, Secondary LPDES Treatment Pond, and Rainfall Surge Pond (**Figure 2**).

The current document is presented to provide supporting documentation and professional judgement regarding the Fly Ash Basin and Bottom Ash Basin liners at LaGen's BC II Plant. The format of the Liner Certification report has been prepared in accordance with the CCR Rule requirements with specific citations of the applicable portions of the CCR Rule, which are further described in Section 2.0.



2.0 REGULATORY OVERVIEW OF CCR LINER CERTIFICATION REQUIREMENTS

On April 17, 2015, the EPA published the CCR Rule under Subtitle D of the Resource Conservation and Recovery Act (RCRA) as 40 CFR Parts 257 and 261. The purpose of the CCR Rule is to regulate the management of coal combustion residuals in regulated units for landfill and surface impoundments. Section 257.71 of the CCR Rule requires owners or operators of CCR Units to provide liner criteria for existing CCR surface impoundments.

The following citations from the Rule are applicable for the Fly Ash Basin and Bottom Ash Basin as discussed in this document:

§257.71(a)(1) stipulates:

No later than October 17, 2016, the owner or operator of an existing CCR surface impoundment must document whether or not their facility's CCR unit(s) have been constructed with any one of the following:

(i) A liner consisting of a minimum of 2 feet of compacted soil with a hydraulic conductivity of no more than $1 \times 10-7$ cm/sec;

(ii) A composite liner (geomembrane and 2-foot thick compacted soil with a hydraulic conductivity of no more than 1×10^{-7} cm/sec) that meets the requirements of § 257.70(b); or

(iii) An alternative composite liner that meets the requirements of § 257.70(c).

The requirements for a composite liner referenced in (ii) and (iii) above, are not applicable to the Fly Ash Basin and Bottom Ash Basin because these units are not equipped with composite liner systems.

§257.71(a)(2) stipulates:

The hydraulic conductivity of the compacted soil must be determined using recognized and generally accepted methods. This is in reference to the geotechnical testing methods for soils used to evaluate whether the liner meets the hydraulic conductivity of no more than 1×10^{-7} cm/sec.



§257.71(a)(3) stipulates:

An existing CCR surface impoundment is considered to be an existing unlined CCR surface impoundment if either: (i) The owner or operator of the CCR unit determines that the CCR unit is not constructed with a liner that meets the requirements of paragraphs (a)(1)(i), (ii), or (iii) of this section; or (ii) The owner or operator of the CCR unit fails to document whether the CCR unit was constructed with a liner that meets the requirements of paragraphs (a)(1)(i), (ii), or (iii) of this section.

§257.71(a)(4) stipulates:

All existing unlined CCR surface impoundments are subject to the requirements of §257.101(a).

The requirements for a composite liner referenced in (a)(4) above are not applicable for the Fly Ash Basin and Bottom Ash Basin because these units are considered to be lined in accordance with 257.71(a)(1)(i).

§257.71(b) stipulates:

Upon confirmation that the liner meets the CCR Rule requirements the owner or operator of the CCR unit must obtain a certification from a qualified professional engineer attesting that the documentation, as to whether a CCR unit meets the requirements of paragraph (a) of this section, is accurate.

§257.71(c) stipulates:

The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in § 257.105(f), the notification requirements specified in §257.106(f), and the Internet requirements specified in §257.107(f).



3.0 CCR ASH BASIN OVERVIEW

Pertinent site information and history related to the installation and operation of the Fly Ash Basin and Bottom Ash Basin is presented below to provide context for the Liner Certification documentation.

3.1 Location, Topography, and Character

The LaGen BC II Plant is located at 10431 Cajun II Road, New Roads, Pointe Coupee Parish, Louisiana. The BC II Plant is situated in Sections 4, 5, and 37 in Township 4 South and Range 11 East. The Fly Ash Basin and Bottom Ash Basin are located on the southwest end of the surface impoundments west of the BC II Plant and are bordered on the west by wooded property, a drainage ditch, and agricultural land; on the north by wooded property and agricultural land; and on the south by wooded property and grassy fields, as detailed on **Figures 1** and **2**.

Both the Fly Ash Basin and Bottom Ash Basin were constructed and became operational in 1980. The CCR units were constructed above natural grade with a base of approximately 30 feet Mean Sea Level (MSL). The Fly Ash Basin was constructed with a surrounding berm with a designed crest elevation of 40-feet MSL. The Bottom Ash Basin was constructed with a surrounding berm with a designed crest elevation of 48-feet MSL. The existing site topography is depicted on **Figure 3**. The Fly Ash Basin has a permitted total ash storage capacity of 3,905,000 cubic yards (yd³). The Bottom Ash Basin has a total permitted ash storage capacity of 2,585,000 yd³.

3.2 Existing Regulatory Permits

The Fly Ash Basin and Bottom Ash Basin have been granted and are currently operating under a Louisiana Department of Environmental Quality (LDEQ) Solid Waste Permit as industrial surface impoundments in accordance with the Louisiana Solid Waste Regulations (LAC 33:VII) under Permit Number P-0108R1 and Facility Identification Number GD-077-0583. The Solid Waste Permit renewal was issued by the LDEQ on February 24, 2011 and allows CCR materials generated on-site at the LaGen BC II Plant to be properly disposed of within the boundaries of the Fly Ash Basin and Bottom Ash Basin.

3.3 Fly Ash Basin and Bottom Ash Basin Operation and Conditions

The Fly Ash Basin is used to collect and store fly ash generated from the burning of finely pulverized coal in a high efficiency boiler. Fly ash is collected, stored in a silo and then transported by truck to the Fly Ash Basin for disposal.



The Bottom Ash Basin receives bottom ash from Units 1 and 3, as well as sediment from the clarifier beds associated with the cooling towers and boilers. Bottom ash is generated concurrently with fly ash during the combustion of coal. It is formed in the boiler when particles of ash fuse together. These fused particles become too large to remain entrained in the rising flue gas and fall to the bottom of the boiler. The bottom ash from Unit 1 is collected in hoppers at the base of the boiler of Unit 1 and then transported hydraulically (sluiced) through a pipe directly to the south part of the Bottom Ash Basin. Bottom ash from Unit 3 is collected in hoppers at the base of the boiler and trucked in a hydrated state to the southwest corner of the Bottom Ash Basin for disposal. The clarifier sediments are piped to the southeast corner of the Bottom Ash Basin.

The Fly Ash Basin surface water runoff is directed by an interior drainage swale to a pipe connection into the Bottom Ash Basin. The Bottom Ash Basin sluice water and surface water combined with surface water runoff from the Fly Ash Basin are directed by an interior swale to a weir located at the northeast corner of the Bottom Ash Basin. A 30-inch diameter pipe carries the combined water by gravity flow to the Rainfall Surge Pond. Water from the Rainfall Surge Pond is then pumped into the Primary Treatment Basin for further treatment. Water flows by gravity from the Primary Treatment Basin to the Secondary Treatment Basin. A pump station moves water from the Secondary Treatment Basin to the Mississippi River discharge point in accordance with the Plant's LPDES permit (Permit No. LA0054135).



4.0 LINER CERTIFICATION DOCUMENTATION

Supporting documentation for the liner evaluation and liner certification for the Fly Ash Basin and Bottom Ash Basin are presented below in accordance with the cited CCR Rule requirements.

4.1 Liner Evaluation

At the time the Fly Ash and Bottom Ash Basins were constructed, the design and installation of the Ash Basins met the requirements of the Louisiana Solid Waste Regulations. These regulations required that the permitted impoundments be constructed with a minimum of 3 feet of soils that would provide a barrier to prevent any penetration of surface spills into groundwater aquifers underlying the area or to an underlying sand or other permeable stratum that would provide a conduit to such aquifers. To meet that requirement, the impoundments were constructed over native clayey soils with some areas being supplemented with a 1-foot thick recompacted clay to ensure the combination of native clayey soil and recompacted clay had a minimum thickness of 3 feet everywhere across the bottom of the Basins.

The CCR Rule does not mention the use of native soil to meet the CCR Rule liner requirements. Accordingly, an evaluation of the site conditions and CCR Rule is necessary to determine if the subsurface conditions beneath the Ash Basins meet the intent of the CCR Rule liner certification requirements.

4.1.1 Previous Investigation Soil Boring Data

Prior to construction of the Ash Basins, a subsurface soil investigation was conducted in 1977 to evaluate the soils at the Site. The 1977 investigation included the installation and sampling of approximately 223 borings drilled to depths of 10 feet below ground surface (bgs) and an additional 37 borings advanced to depths of approximately 32 to 54 feet bgs, all on a 250-foot spaced grid pattern across the footprints of the Fly Ash Basin, Bottom Ash Basin, and other non-CCR impoundments at the BC II Plant site. The investigation included laboratory testing of soil samples from selected borings for various geotechnical parameters (Atterberg Limits Determination, dry density, moisture content, grain size analysis, and permeability). All geotechnical characterization and testing was performed by Louis J. Capozzoli and Associates, Inc. using laboratory procedures that conform to appropriate ASTM standards, which are recognized and generally accepted methods.

A copy of the boring logs from the 1977 investigation is presented in **Appendix A** and a copy of the geotechnical laboratory results is presented in **Appendix B**.



4.1.2 Geotechnical Testing and Evaluation Results

A review and evaluation of the lithologic and laboratory geotechnical testing data and results from the 1977 investigation indicate that the native soil lining the Fly Ash and Bottom Ash Basins consists of clavey soils ranging in thickness from 3 to more than 10 feet over 97 percent of the site. An isopach map depicting the thickness of the clavey soils underlying the Fly Ash and Bottom Ash Basins (and other surface impoundments) is presented on Figure 4. The clayey soils consist predominately of clay and silty clay, plus some clayey silt, meeting the required coefficient of permeability (no more than 1×10^{-7} cm/sec) with a maximum permeability of 6 x 10^{-8} cm/sec for a clayev silt. The laboratory permeability test results of less than 1 x 10^{-7} cm/sec are typical for high plasticity clays and clayey silts. Approximately 7 percent of the test borings indicated a clayey soil thickness of less than 3 feet. The areas of clayey soil that were less than 3 feet thick were resurfaced with additional recompacted clay during the construction of the impoundments to ensure a minimum clayey soil thickness of 3 feet below the impoundments. Cross sections from the original solid waste permit application for the Fly Ash and Bottom Ash Basins showing the thickness of the native and recompacted clay layer lining beneath the Fly Ash Basin and Bottom Ash Basin are shown on Figures 5 through 8. A plot showing the classification of the native fine-grained soil types within the uppermost 10 feet bgs, based on a determination of Atterberg Limits, is included in Appendix C.

The figure in **Appendix C** shows the native soil samples plotting in the high plasticity lean clay (CL) and fat clay (CH) areas in a line parallel to and above the A-Line which is anticipated for soils of similar geologic origin. These high plasticity soil sample results indicate that these soils would have permeabilities similar to the laboratory tests. The figure also shows a few samples plotting in the low plasticity silt and clayey silt area, indicating low plasticity. A review of the data indicates these samples to be mostly deeper than 3 feet and dispersed aerially over the basins. These samples would have a limited effect on the overall liner protectiveness.

Based on the information and evaluation provided above, the Ash Basins at the BC II Plant meet the protectiveness intent of the CCR Rule Liner Certification requirements.



5.0 RECORD KEEPING/NOTIFICATION REQUIREMENTS

As required in §257.105(f)(2), LaGen will maintain files of all information related to the liner certification of the Fly Ash Basin and Bottom Ash Basin in a written operating record at their facility as required by the CCR Rule. The files will be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, record, or study. The files for the liner certification will be maintained in one recordkeeping system with files separated by the name or identification number of each CCR unit. It is understood the files may be maintained on microfilm, on a computer, on computer disks, on a storage system accessible by a computer, on magnetic tape disks, or on microfiche.

5.1 Notification Requirements

Per §257.105(f)(3), the CCR Rule notifications required for liner certification of the Fly Ash Basin and Bottom Ash Basin will be sent to the relevant Administrative Authority/State Director within 30 days of placing them in the facility's operating record (and on LaGen's publicly accessible Internet site). The notifications for separate CCR units undergoing liner certification at the BC II Plant will be combined for record keeping purposes and identified by the name or identification number of each CCR unit.

5.2 Publically Accessible Internet Site Requirements

As required by §257.105(f)(3), LaGen will post the following information for the liner certification of the Fly Ash and Bottom Ash Basins to the CCR Web site within 30 days of placing the pertinent information in the facility's operating record. The files for separate CCR units undergoing liner certification at the BC II Plant will be maintained in one recordkeeping system with files separated by the name or identification number of each CCR unit. The files will be made available to the public for at least 5 years following the date on which the information was first posted to the CCR Web site.

5-1



6.0 QUALIFIED PROFESSIONAL ENGINEER CERTIFICATION

The undersigned registered professional engineer is familiar with the requirements of §257.71 and has visited and examined the LaGen Big Cajun II Plant or has supervised examination of the Big Cajun II Plant by appropriately qualified personnel. The undersigned registered professional engineer attests that this CCR Liner Certification has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and meets the intent of the requirements of §257.71, and that this Liner Certification is adequate for the Big Cajun II Plant. This certification was prepared as required by §257.71(b).

Name of Professional Engineer:

Company:

Signature:

Date:

PE Registration State:

PE Registration Number:

Professional Engineer Seal:

Glen K. Landr CBAT Environment outs iana

18931





7.0 REFERENCES

- Environmental Protection Agency; 2015; 40 CFR Parts 257 and 261 Rules and Regulations, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Volume 80, No. 74; Final Rule.
- Louis J. Capozzoli and Associates, Inc.; 1974; Preliminary Subsoil Investigation and Foundation Design Data, Big Cajun No. 2, Site C-2, New Roads, Louisiana; File No. 74-30.
- Louis J. Capozzoli and Associates, Inc.; 1977; Preliminary Subsurface Soil Investigation and Laboratory Testing, Ash Storage Area, CEPCO No. 2, Plant Site; New Roads, Louisiana.
- Louis J. Capozzoli and Associates, Inc.; 2005; Geotechnical Investigation, Bottom Ash Storage Pond Expansion, Big Cajun No. 2, Pointe Coupee Parish Plant Site, Louisiana; LJC&A File: 0558.
- Shaw Environmental & Infrastructure, Inc.; 2010; Type I Solid Waste Facility Permit, Renewal and Modification Application, Final Copies, Permit No. P-0108 (Volumes 1 of 2 and 2of 2), Louisiana Generating, LLC, Big Cajun II Power Plant, New Roads, Pointe Coupee Parish, Louisiana.

FIGURES





J:\Darlting\NRG\631215151\ArcView(GIS_Documents\Project_Maps\nrg_631215151_0015_site_location.mxd; Analyst: ben.holt; Date: 9/22/2016 1:17:25 PM





















APPENDIX A

| • | . | LOG OF BORING | |
|-------------|---------------------------------------|--|---------------|
| • | PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 74-30 | 7 |
| | FOR | Cajun Electric Power Cooperative, Inc. SATE 5 APT. 137 Bovay Engineers, Inc., Burns and Roe, Inc. Technician MJK | |
| • | DEPTH FEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEET | |
| | | Soft tan and gray clay with traces of silt and grass roots | |
| •. | ~ ~ | Soft tan and gray clay | |
| | 5 | Soft tan and gray slightly silty clay with silt pockets and one $\frac{1}{2}$ inch | |
| •. | - 10 | layer of silt Soft tan and gray silty clay with 2 inches of clayey silt layers Soft tan and gray silty clay with 2 inches of clayey silt layers Loose tan and gray clay with clay streaks | |
| | | Boring 101 | |
| | ······ | Boring Depth 10 feet | |
| | 0 | Soft top and gray clay with traces of silt and grass roots | |
| , , (| • | Medium tan and gray clay Medium tan and gray clay with silt pockets Loose tan and gray slightly clayey silt with clay pockets | |
| | · · · · · · · · · · · · · · · · · · · | Loose tan silt with clay traces | |
| | -10 - | Loose tan silt with clay traces | |
| \leq | | Boring To2 | |
| | · | | |
| | - 0 | Soft tan and gray clay with traces of grass roots | ۰. ۱ |
| C. | | Soft tan and gray slightly silty clay | |
| | _ 5 | * Very loose tan and gray clayey silt | |
| | | Loose tan silt with traces of sand and clay | · · |
| C | | Loose tan silt with clay pockets | |
| | | | |
| r | | | |
| L | | | |
| | | | |
| | | | - •16124 |
| ~ | | | · • • • • • • |

~

f

C

 $\left< \right>$

Ć

I OUIS J. CAPOZZOLI & ASSOCIATES, INC.

| | | LOG OF BORING |
|---------------------------------------|----------|--|
| PROJ | IECT | Cajun Electric Power Cooperative, Inc. 103 New Roads. Louisiana |
| FOR | | Cajun Electric Power Cooperative, Inc. TECHNICIAN MJK Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH FEET | SAMPLE'S | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING LEPTH 10 Feet |
| | | Soft tan and gray clay with 2 inch top layer of brown silt and grass roots |
| 5 | | Soft tan and gray clay with silt traces Soft tan and gray silty clay Soft tan and gray very silty clay with silt streaks |
| | | Soft tan and gray clay with silt traces |
| . 10 | | Soft tan and gray clay, with silt pockets, streaks and 1 inch layer |
| | | Boring <u>104</u> Boring Depth <u>10 feet</u> |
| | | |
| - | - | |
| | | Soft tan and gray clay with grass root traces |
| · · · · · · · · · · · · · · · · · · · | | Soft tan and gray clay |
| - 5 | 5 - | Medium tan and gray clay with silt traces |
| | | Soft tan and gray clay with 1 ¹ 2 inch of very silty clay layers |
| 10 | | Soft tan and gray clay with silt pockets |
| | | Boring <u>105</u> |
| • • | | . Boring Depth <u>10 feet</u> |
| · · · · | | |
| | | |
| · -··· | | |
| | | Soft tan and gray clay with traces of grass roots |
| | •••• | Soft tan and gray clay |
| | 5 | Soft tan and gray clay with silt pockets |
| | | Loose tan and gray silt |
| 1 | - | Loose tan and gray silt |
| L | - | 1 +c18125 |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Geotechnical Engineers

C

C

4

| | | IOPING 106 |
|---------|--|--|
| PRCJECT | Cajun Electric Power Cooperative, Inc. | 11E 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. | echnician MUK |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | |
| | | 10 feat |
| SAM 5 | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTI | IU TEEL |
| | Medium tan and gray-clay with traces of silt and grass root | S |
| 5 | Soft tan and gray slightly silty clay with silt pockets Top 4 inch soft tan and gray silty clay, middle 6 inches of and gray clayey silt, bottom 12 inches loose tan and g | loose tan and ray silt |
| | Soft tan and gray silty clay Loose tan silt with clay traces Loose tan silt with clay traces Soft tan and gray clay with silt traces | |
| 10 | | |
| | Boring 107 | |
| | Boring Oepth <u>10 reet</u> | |
| | | |
| - 0 | Medium tan and gray clay with traces of grass roots | |
| | Soft tan and gray clay with silt traces | |
| 5 | Soft tan and gray clay with silt traces | |
| | Loose tan and gray slightly clayey silt with clay streaks | |
| 10 | Very soft gray very silty clay | |
| | Boring <u>108</u> Boring Depth <u>10 feet</u> | |
| | | |
| | | an a |
| 0 | Soft tan and gray clay with traces of grass roots | |
| | Soft tan and gray clay | |
| - 5 - | Soft tan and gray clay | |
| | Loose tan and gray silt Loose tan and gray silt Loose tan and gray silt with sand traces | |

1

Ç

C

¢

| | LOG OF BORING |
|--------------------|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. BORING 109 |
| | New Roads, Louissand Caiun Electric Power Cooperative, Inc. |
| FOR | Bovay Engineers, Inc., Burns and Roe, Inc. FECHNICIAN GOR |
| et H Et PLES | - 10 foot |
| C FE | UNDISTURBED SAMPLE STANDARD FINETRATION TEST BORING DEPTH TUTERU |
| - | Soft tan and gray clay with-traces of grass roots |
| | Soft tan and gray clay |
| 5 | Soft tan and gray clay |
| : | Soft tan and gray clay |
| 10 | Loose tan silt with traces of sand and clay |
| 10 F | • |
| n n n | Bowing 110 |
| | Boring Depth 10 feet |
| | |
| na na | |
| ۰ D | soft tan and grav clay with traces of grass roots |
| | Soft tan and gray clay |
| 5 ·· | Solt tail and gray very clavey silt |
| | Loose tan and gray very clayey silt |
| | Loose tan and gray very clayey silt |
| 10 | Loose tan and gray very endyoy a |
| | |
| | |
| | |
| | |
| - 0 | |
| | |
| | |
| - 5 | |
| , | |
| 10 | |
| 10 | LOUIS & CAPOZZOLI & ASSOCIATES, INC. |

-

•

. •

•

.

| | LUG OF BORING | |
|------------------------------|--|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. BORING New Roads, Louisiana | 111 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. DATE Bovay Engineers, Inc., Burns and Roe, Inc. TECHNIC | т <u>арт</u> , тэл _{стан} "МЈК |
| DI PIH Di FEET SAMPLES | UNDISTURBED SAMPLE STANDARD FENETFATION TEST BORING DEPTH |) feet |
| | Medium tan and gray clay with traces of grass roots Soft tan and gray very silty clay Loose tan and gray silt with clay traces | - |
| 5 | Loose tan silt with traces of sand and clay | |
| | Loose tan silt with traces of sand and clay | |
| 10 | Loose tan silt with traces of sand and clay | |
| | | |
| | Boring 112 | • |
| | Boring Depth <u>10 feet</u> | |
| · · · · · · | 3 | |
| - 0 | Soft tan and gray clay with silt pockets and traces of grass ro | ots |
| | Soft tan and gray clay | |
| 5 | Soft tan and gray clay with silt traces | |
| - 10 | Soft tan and gray slightly silty clay with silt traces Loose gray slightly clayey silt Soft tan and gray slightly silty clay | |
| | Poring 113 | |
| | Boring Depth 10 feet | - |
| | | |
| | | |
| - 0 - | Medium tan and gray clay with traces of silt and grass roots | |
| | Loose tan and gray silt | • |
| - 5 | Loose tan and gray clayey silt with clay traces | |
| | Loose tan and gray clayey silt with clay traces | |
| | Loose tan silt with sand traces | |
| - 10 | LOUIS L CAPOZZOLI & ASSOCIATES, INC. | e 1 8830 |

•

4

* -

Ţ

5

 \boldsymbol{c}

Ç

| | LOG OF BORING |
|--------------------------|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana |
| FOR . | Cajun Electric Power Cooperative, Inc. DATEll April 197 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN MJK |
| UEPTH FFET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH . 10 Feet |
| | Soft tan and gray clay with silt traces and grass roots |
| → ·→ | Soft tan and gray clay |
| 5 | Soft tan and gray slightly silty clay with silt pockets |
| | Loose tan and gray slightly clayey silt with 1" clay layer |
| 10 | Loose tan and gray silt with clay streaks |
| | Boring 115 Boring Depth 10 feet |
| | |
| - 0 | Medium tan and gray clay with traces silt and grass roots |
| | Soft tan and gray slightly silty clay with silt pockets |
| | Loose tan silt with 4" top layer silty clay |
| | Loose tan and gray slightly clayey silt |
| | Loose tan silt with clay traces |
| - 10 | |
| | Boring 116 Reging Depth 10 feet |
| | · |
| | |
| 0 | Soft tan and gray clay with silt streaks and traces grass roots |
| | Soft tan and gray clay |
| - 5 | Loose tan silt with clay traces Soft tan and gray clay with silt pockets Soft tan and gray silty clay with 3" bottom layer silt |
| - 10 | Soft tan and gray clay with silt pockets |
| | 1 15125 INTO 11 15125 |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

a

.

| | LOG OF BORING |
|-----------|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana |
| FOR | Cajun Electric Power Cooperative, Inc. TECHNICAN MJK Bovay Engineers, Inc. Burns and Roe, Inc. TECHNICAN MJK |
| I. A | |
| DEPT | UNDISTURBED SAMPLE STANDARD PENETHATION TEST BORING DEPTH. 10 TOOT |
| | Medium tan and gray clay with traces grass roots |
| | Soft tan and gray slightly silty clay |
| - 5 | Loose tan and gray slightly clayey silt |
| | Loose tan and gray slightly clayey silt |
| 10 | Loose tan silt with traces sand Soft tan and gray very silty clay with silt pockets |
| | |
| - | Boring <u>118</u> Boring Depth 10 feet |
| | |
| - · - | in the second start with traces silt and grass roots |
| | Medium tan and gray clay with class |
| | Medium tan and gray clay with sill traces |
| - 5 - | Soft tan and gray clay |
| | Loose tan slightly clavey silt Soft tan and gray slightly silty clay with silt streaks |
| 10 | . Soft tan and gray slightly silty clay with silt stresks |
| · · · · · | |
| | * |
| | Boring 119 Boring Depth 10 feet |
| | |
| - 0 | Soft tan and gray clay with silt streaks and traces grass roots |
| | Surr rain and group clay |
| | Soft tan and gray uses |
| - 5 - | Soft tan and gray clay with silt streaks |
| | Soft tan and gray slightly silty clay with silt pockets |
| | Loose tan and gray slightly clayey silt with clay streaks |
| 10 | LOUIS L CAPOZZOLI & ASSOCIATES, INC. |

۰.

C

Ç

Contochnical Engineers

.

| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana File 74-30 | 197 |
|---------------------------------------|---|-----|
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc.,Burns and Roe, Inc. | IK |
| DLPTH FEFT SAMPLES | UNDISTURBED SAMPLE STANDARD FENETRATION TEST BORING DEPTH 10 FEET | L. |
| 0 | Soft tan and gray clay with traces silt and grass roots | |
| | Soft tan and gray clay with silt pockets | |
| - - | Loose tan and gray silt with traces sand and clay | |
| | Loose tan and gray silt with traces sand and clay | |
| 10 | Loose tan and gray silt with traces sand and clay | |
| | | |
| | | |
| | Boring 121 Boring Depth 10 fee | t |
| | | |
| | Soft tan and gray clay with traces silt and grass roots | |
| · · · · · · · · · · · · · · · · · · · | Soft tan and gray clay | |
| - 5 | Soft tan and gray clay with silt pockets | |
| | Loose tan and gray slightly clayey silt | • |
| - 10 | Loose tan and gray slightly clayey silt | |
| , , , , , , , , , , , , , , , , , , , | | |
| | | |
| | Boring 122 Boring Depth 10 fee | t |
| 0 | Soft tan and gray clay with traces silt and grass roots | |
| | Soft tan and gray clay with silt pockets | • |
| | Soft tan and gray slightly silty clay with silt pockets | |
| - 7 - | Soft tan and gray clay with silt pockets | |
| | Soft tan and gray clay with silt pockets | |

.

~

~

Ċ.

Ç

| | LOG OF BORING |
|---------------------------------|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Date 13 April 191 |
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. |
| UFPTH FEET SAMPLES | UNDISTURBED SAMPLE STANCARD PENETRATION TEST BORING DEPTH 10 FEEL |
| | Medium tan and gray clay with traces grass roots |
| | Soft tan and gray clay with silt pockets and traces organic matter |
| - 5 | Soft tan and gray slightly silty clay |
| 10 | Loose tan and gray clayey silt Soft tan and gray silty clay with silt streaks Loose tan silt with some sand |
| | |
| | Boring <u>124</u> |
| | Boring Depth 10 leet |
| uri () | Soft tan and gray clay with traces grass roots |
| | Soft tan and gray clay with traces organic matter |
| | Medium tan and gray clay |
| | Medium tan and gray clay |
| - 10 - | Soft tan and gray clay with silt pockets |
| · · · · · · · · · · · · · · · · | Poring 125 |
| • • • | Boring Depth 10 feet |
| - 0 - | sfiff tan and gray clay with traces grass roots |
| | Soft tan and gray clay |
| - 5 - | Soft tan and gray clay with silt pockets |
| | Soft tan and gray clay with silt pockets and streaks |
| _ 10 | Soft tan and gray clay with silt pockets and streaks |
| | I ASSOCIATES INC. |

C

LOUIS J. CAPOZZOLI & ASSOCIATES,

.....

÷

| | LOG OF BORING | |
|---------------------------------------|--|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. | DRING 126 LE 74-30 ATE 14 April 1977 MIK |
| FOR | Bovay Engineers, Inc., Burns and Roe, Inc. | CHNIC AN PIUN |
| UEPTH FEET SAMPLES | STANDARD PENETHATION TEST BORING DEFTH | 10 feet |
| | Medium tan and gray clay with traces grass roots | |
| | Soft tan and gray clay | |
| ана и развити И Б | Soft tan and gray clay with silt pockets and streaks | |
| - | Soft tan and gray clay with silt pockets and streaks | • |
| | Medium tan and gray clay with silt streaks and pockets | _ |
| 10 | | |
| | | |
| | | |
| · · · · · | Borin Boring Dept | g <u>12/</u> h <u>10 feet</u> |
| · · · | × | |
| - 0 | | |
| | Stiff gray clay | |
| | .Stiff gray clay | |
| 5 - | Stiff gray.clay | |
| | Stiff gray clay | |
| 10 | Stiff gray clay | - |
| · · · · · · · · · · · · · · · · · · · | | |
| | | - |
| | Boriu | ng <u>128</u> |
| | Boring Depi | |
| | | |
| | Stiff gray clay | |
| and a submitted for a | Stiff gray clay | · • |
| - 5 | Soft gray slightly silty clay | |
| anti-somerier die fan | Soft gray clay with silt traces | |
| a | Loose grav slightly clavey silt with ½ inch clay layer | |
| 10 | | re15125 |

4

•

2

-

 \mathcal{C}_{i}

C

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Carbonhains! Engineers

.

4

| | | LOG OF BORING | ~ . | | |
|---|--------------------------|--|--------------------|--|-----|
| ļ | PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. New Roads, Louisiana | 2 | 129 FILE 74-30 | 97 |
| | FOR . | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | | TECHNICIAN MUK | |
| | LEPTH FEET SAMPLES | - | BORING CEP | тн 10 feet | |
| | | Stiff gray clay | | | |
| | | Stiff gray clay | , | | |
| | 5 | Soft gray very silty clay with silt traces . | | | |
| | | Loose gray silt | | | |
| | 10 | Soft gray silty clay | | | |
| | | | .• | | |
| | | | | · • • | |
| | | | Bor Boring De | ing <u>130</u> pth 10 feet | |
| | | | * | | |
| | | · · · | | | |
| , | | Stiff gray clay | • | | |
| | | Stiff gray clay with silt traces | | | |
| | - 5 - | Soft gray very silty clay | | | |
| | | Very loose gray silt with clay traces | بر مانی مانی | - | |
| | 10 | Very loose gray silt with clay traces | · · | | |
| | | | | • • | |
| | - ~ ~ ~ | | • | | |
| | | • • | Bo Boring D | ring 131 epth 10 feet | |
| | | | | | |
| - | | | | an San San San San San San San San San S | |
| | · · · · | Stiff gray clay | . * | | |
| | | Stiff gray clay | - - | | |
| • | - 5 - | Stiff gray clay | • | | |
| | | Soft gray silty clay | | | |
| | 10 | Loose gray clayey silt | | | |
| | ~ 10 | | ES, INC. | P.V. | 191 |

. .

.
| PROJĚCT | Cajun Electric Power Cooperative, Inc. Plant No Now Poads, Louisiana | 2 BORING 132 |
|---------------------------------------|--|---|
| 50P | NEW ROUGS, LOOKE AND | 14 Mar 1077 |
| 700 | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | DATE LO LIDY 1977 TECHNICIAN CCN |
| - 0 | | • |
| DEPTH FFET SAMPLE | UNDISTURGED SAMPLE STANDARD PENETRATION TEST | BORING GEPTH 10 feet |
| | Medium gray clay | |
| | Medium gray clay | |
| 5 | Medium gray clay | |
| | Medium gray clay | · |
| - 10 | Medium gray clay | • |
| | | |
| - | • | |
| | | Boring Depth 10 feet |
| · · · · · · · · · · · · · · · · · · · | | |
| - 0 | Stiff gray clay | · · · · · |
| | Medium gray clay with silt traces | н Аларанан алар |
| 5 ·· | . Medium gray clay with silt traces | |
| | Medium gray clay with silt traces | - |
| ~ 10 | , Medium gray very silty clay with silt pockets | |
| | | |
| | • | Boring <u>134</u> |
| · · · ···· | | Boring Depth 10 feet |
| | | |
| - 0 | Medium gray clay | |
| | Medium gray clay | 2010 - 2010 - 2010 1997 - 2010 - 2010 1997 - 2010 - 2010 - 2010 |
| - 5 | . Medium gray very silty clay | • |
| · ••• | Medium gray slightly silty clay | |
| | Medium gray silty clay with silt streaks | |

.

()

Ç

C.

LOG OF BORING

| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana New Roads, Louisiana |
|--------------------------|--|
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH FLET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETHATION TEST BORING DEPTH 10 FEET |
| 0 7 | Stiff gray clay |
| | Stiff gray clay |
| 5 | Very loose gray clay with 6 inch clay layer |
| • | Very loose gray silt |
| | Very loose gray clayey silt with sand traces |
| 10 | |
| | Boring 136 |
| | Boring Depth 10 teet |
| | ► • |
| - 0 | Medium gray clay |
| | Medium gray clay |
| 5 | Very loose gray slightly clayey silt with sand traces |
| | Very loose gray slightly clayey sandy silt |
| 10 - | Very loose gray clayey silt |
| | |
| | • |
| | · Boring 137 |
| | Boring Depth 10 feet |
| - 0. : | Medium tan and gray clay with silt pockets and traces grass roots and |
| | Soft tan and gray slightly silty clay with silt traces |
| - 5 | Soft tan and gray very silty clay |
| | Loose tan silt with sand traces |
| 1 | Loose tan silt with sand traces |

C

C

Contorbaital Engineers

| - | | |
|---------------------------------------|---|-----------------------------------|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana | 138 2 4-30 Apr. 1977 |
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | AN MJK |
| LI FTH FFLT SAMPLES | IND STURBED SAMPLE STANDARD PENETHATION TEST BORING DEPTH | 0 feet |
| | Medium tan and gray clay with traces silt and grass roots | |
| | Loose tan and gray silt with clay pockets | |
| - 2- - | Loose tan silt with traces sand and clay | |
| | Loose tan silt with traces sand and clay | |
| 10 | Loose tan silt with traces sand and clay | - |
| · · · · | | |
| | | |
| | Boring <u>1</u> Boring Depth <u>1</u> | 39 O feet |
| · | | • • |
| - O | Soft tan and gray clay with traces grass roots and sill streak | 5 |
| | Soft tan and gray clay | |
| | Soft tan and gray silty clay | |
| | Loose tan and gray very clayey silt Soft tan and gray clay with silt traces Soft tan and gray slightly silty clay | · · · · |
| 10 | | |
| · · · · · · · · · · · · · · · · · · · | | |
| | Boring Boring Depth | 140 10 feet |
| | | |
| - 0 - | Medium tan and gray clay with traces grass roots, silt and or | ganic matte |
| | Soft tan and gray clay | |
| - 5 | Soft tan and gray slightly silty clay with silt streaks Soft tan and gray slightly silty clay with silt streaks Soft tan and gray silty clay with silt streaks Loose tan silt with some clay Loose tan and gray clayey silt | |
| - 10 - | | p016325 |

LOG OF BORING

| • | |
|--|--|
| -PPQJEC1 | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana New Roads, Louisiana |
| ЧСЧ | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc. Burns and Roe. Inc. |
| OEPTH FFET | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BOPING DEPTH 10 FEEL |
| | Medium tan and gray clay with traces grass roots |
| | Medium tan and gray clay with silt pockets |
| 5 | Loose tan and gray slightly clayey silt |
| | Loose tan and gray slightly clayey silt |
| - 10 | Soft tan and gray very silty clay Loose tan silt with sand traces |
| | · · · · · |
| · · · · · | Boring 142 |
| | Boring Depth <u>10 feet</u> |
| | 3- |
| | law with two oor grace poots |
| | Medium tan and gray clay with traces grass roots |
| | Soft tan and gray clay with silt pockets |
| - 5 - | Loose tan and gray slightly clayey silt |
| | Loose tan and gray slightly clayey silt |
| an a | Loose tan silt with sand and clay traces |
| - 10 - | • • • • • • • • • • • • • • • • • • • |
| ·· ···· | |
| | |
| | Boring 143 |
| | Boring Depth <u>To Teet</u> |
| - 0 - | Soft tan and gray clay with traces silt and grass roots |
| | Soft tan and gray clay |
| - 5 | Soft tan and gray silty clay with silt streaks |
| · | Soft tan and gray clay |
| ing carrier and contraction | Soft tan and gray silty clay with silt pockets |
| - 10 | |

(

(

LOUIS J. CAPOZZOLI & ASSO Ψ.

| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 BORIN | 74-30 |
|---------------------------------------|---|----------------------------------|
| FOR | Cajun Flectric Power Cooperative, Inc. | II April _{Nician} MJ |
| | Bovay Engineers, Inc. Burns and Roe, Inc. | ······ |
| RET. | BORING DEFTH | 10 fee |
| 0 | UNDISTURBED SAMPLE W STANDARD PEREAR OUT OF | and silt |
| · · · | Medium prown, can and right give sit | pockets |
| | Soft tan and gray clay with site is so a streaks | |
| 5 | Soft tan and gray slightly clayey sitt with der clayey silt laver | |
| | Soft tan and gray very silty clay with 4 charge and streaks | |
| . 10 - | Soft tan and gray silty clay with silt pockets and screaks | |
| | | |
| | | |
| | Boring | 145 |
| · ••• | Boring Depth | 10 feet |
| · | | • |
| - 0 | Soft tan and gray clay with traces grass roots | |
| | Soft tan and gray clay | |
| - 5 - | Soft tan and gray clay | |
| | Soft tan and gray clay with silt pockets and streaks | |
| | Soft tan and gray clay with silt pockets and streaks | • |
| - 10 | | |
| | | |
| · · · · · · · · · · · · · · · · · · · | Boring | 146 |
| | Boring Depth | 10 teet |
| | | · . |
| - 0 - | | • • |
| | Stiff gray clay | |
| | Soft gray silty clay | · · · · |
| - 5 - | Loose gray silt | |
| | Loose gray silt | |
| | | |

1. M. F. Emalmanne

4

ζ

Ç

Ç

Ç

| | LUG OF BORING | |
|--|---|--|
| PROJECT | Cajun Electric Power Cooperative. Inc. Plant No. New Roads, Louisiana | 2 BORING 147 FILE 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc.,Burns and Roe, Inc. | DATE 14 APT 11 137 TECHNICIAN MJK |
| UEPTH FEET BAMPLES | UNDISTURBED SAMPLE STANDARD PENETPATION TEST | I BORING DEPTH 10 feet |
| | Stiff gray clay | |
| | Stiff gray clay | |
| 5 | Soft gray very silty clay | |
| | Loose gray slightly clayey silt | |
| 10 | Loose gray silt with clay layers | |
| | | |
| : | | |
| | | Boring <u>148</u> Boring Depth <u>10 feet</u> |
| | | . |
| - 0 | | |
| •••••••••••••••••••••••••••••••••••••• | Stiff gray clay | |
| · · · · · · | Stiff gray clay | Υ |
| - 5 - | Soft gray clay with silt traces | |
| | Soft gray silty clay | |
| 10 - | Soft gray slightly silty clay with silt layers | . <u>.</u> . |
| | | |
| | | |
| | • | Boring <u>149</u> |
| | | Boring Depth <u>10 feet</u> |
| | | |
| | stiff pray clay with silt lenses | |
| | Soft grav silty clay | |
| - 5 - | Solt yray silty chuy | |
| | Loose gray site | |
| | Loose gray stit with 2 men ciay ruger | · · · · · · · · · · · · · · · · · · · |
| - 10 - | Loose gray silt with clay traces | |

.

*

•

•

ي ا

Ć

| | LOG OF BORING |
|--------------------------|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana |
| FOP | Cajun Electric Power Cooperative, Inc. Technician MJK - Bovaý Engineers, Inc., Burns and Roe, Inc. Technician MJK - |
| DEPTH FFET SAMPLES | INDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| 0 | Stiff brown and gray clay |
| - | Stiff brown and gray clay |
| 5 | Medium gray clay |
| | Loose gray slightly clayey silt |
| 10 | Loose gray silt with clay traces |
| | |
| | |
| | Boring <u>151</u> Boring Depth <u>10 feet</u> |
| - 0 | Medium gray clay Stiff gray clay |
| - 5 | Stiff gray clay |
| | Stiff gray clay |
| - 10 - | Stiff gray clay |
| | |
| | Boring 152 Boring Depth 10 feet |
| | |
| | Medium gray clay, |
| Ţ | Medium gray and tan clay |
| - 5 | . Medium gray clay |
| | . Very loose gray slightly clayey silt with 3 inches of clay layers |
| - 10 | Very loose gray very silty clay |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Genterbaical Engineers .

Ċ

Ċ



Geotochnical Engineers

| PRCJECT | Cajun Electric Power Cooperative, Inc. Plant No. New Roads, Louisiana | . 2 Боліма 156 File 74-30 Date 11 Apr. 191 |
|---------------------------------------|--|--|
| FOP | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | technician MJK |
| DEPTH FEET SAMPLES | INDISTURBED SAMPLE STANDARD PONETRATION TEST | BORING DEPTH 10 feet |
| | Medium tan and gray clay with silt pockets and | traces grass roots |
| 5 | Soft tan and gray slightly silty clay with silt Soft tan and gray silty clay Loose tan and gray slightly clayey silt | pockets |
| | Loose tan and gray slightly clayey silt | |
| 10 | Loose tan silt with clay and sand traces | |
| | · · · · | |
| | | Boring <u>157</u> Boring Depth <u>10 feet</u> |
| | ilt and or | ≥ · |
| | Soft tan and gray clay with traces sill and gr | |
| | Soft tan and gray clay | |
| - 5 - s | .Soft tan and gray clay with silt pockets | • |
| | Loose tan and gray slightly clayey silt | |
| - 10 - | Loose tan and gray silt with traces sand and c | lay |
| | | |
| | | |
| | • | Boring 158 Boring Depth <u>10 feet</u> |
| - 0 - | c.c. tan and gray clay with silt and grass ro | ot traces |
| | Soft tan and gray silty clay | |
| - 5 - | Loose tan slightly clayey silt with sand trac | es |
| | Loose tan slightly clayey silt with sand trac | ces |
| · · · · · · · · · · · · · · · · · · · | Loose tan slightly clayey silt with sand trac | es . |
| I - 10 - | | F3*3 |

C

ð

| | LOG OF BORING |
|---------------------------------------|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Power Engineers, Inc., Burns and Roe, Inc. Power Engineers, Inc., Burns and Roe, Inc. Power Engineers, Inc., Burns and Roe, Inc. |
| DEP1H FEET SAMPLES | UNDISTURBED SAMPLE STANGARD PENETRATION TEST BORING DEFTH 10 Feet |
| - 0 - | Medium tan and gray clay with silt and grass root traces |
| · · · · · · · · · · | Soft tan and gray clay with silt pockets |
| 5 | Soft tan and gray clay with silt pockets |
| | Loose tan and gray slightly clayey silt |
| | Soft tan and gray slightly silty clay with silt traces |
| - 10 | |
| ••• ••• | |
| | Devine 160 |
| | Boring Depth 10 feet |
| | |
| - 0 - | Medium tan and gray clay with traces silt and grass roots |
| | Soft tan and gray clay with silt traces |
| - 5 - | Soft tan and grav clav |
| | Soft tan and gray clay with silt pockets and streaks |
| | Soft tan and grav clay with silt pockets and streaks |
| - 10 - | |
| | |
| · · · · · · · · · · · · · · · · · · · | Boring 161 Boring Depth 10 feet |
| | |
| | |
| - 0 - | alou with traces grass roots |
| | Medium tan and gray Clay with traces grass foot |
| | Soft tan and gray clay with silt pockets |
| - 5 | Soft tan and gray stity clay with stit pockets |
| · · · · · · · · | Loose tan and gray very clayey sill |
| - 10 - | Loose tan and gray clayey silt |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Gentechnical Engineers

| | LOG OF BORING |
|---------------------------------------|--|
| PROJECT FOH | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. |
| LIETH FEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETHATION TEST BURING DEPTH 10 feet |
| 0 | Soft tan and gray clay with traces silt and grass roots |
| 5 5 | Soft tan and gray clay Loose tan and gray silt Soft tan and gray silty clay with silt pockets Loose tan and gray clayey silt |
| - 10 | Loose tan and gray clayey silt Soft tan and gray clay with silt streaks |
| | |
| · · · · · · · · · · · · · · · · · · · | Boring <u>163</u> Boring Depth <u>10 feet</u> |
| - 0 | Stiff tan and gray clay with silt streaks and traces grass roots |
| | Firm tan silt with clay and sand traces |
| 5 | Firm tan silt with clay and sand traces |
| | Firm tan silt with clay and sand traces |
| | Firm tan silt with clay and sand traces |
| | |
| | • |
| | Boring 164 |
| | Boring Depth <u>10 reet</u> |
| - 0 | Medium tan and gray clay with silt and grass root traces |
| | Soft tan and gray clay |
| - 5 | Soft tan and gray slightly silty clay with silt pockets and streaks |
| | Soft tan and gray clay |
| 10 | Soft tan and gray clay |
| | |

*

Ĉ

C

Ċ

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| | LOG OF BORING |
|--|---|
| PROJECT FOR | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Date 14 Apr. 1973 |
| rt.PEH F.F.ET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| - 0 | Soft tan and gray clay with traces silt and grass roots |
| · · · · · · · · · · · · · · · · · · · | Soft tan and gray clay |
| | Soft tan and gray slightly silty clay with silt pockets and streaks |
| | Loose tan and gray clayey silt |
| 2 A. 1 1 A. | Soft tan and gray clay with silt pockets and streaks |
| 10 | |
| | |
| | |
| • · • | Boring 166 Boring Depth 10 feet |
| | |
| - 0 | |
| | Stiff dark gray clay |
| | Stiff gray clay |
| - 5 | Stiff gray clay |
| | Medium gray clay with silt traces |
| - 10 - | Medium gray clay with silt traces |
| ····· | |
| | |
| - | Boring 167 |
| | Boring Depth <u>10 feet</u> |
| | |
| 0 | Stiff grav clay |
| | Stiff grav clav |
| - 5 | Medium gray clay with silt pockets |
| - and a second s | Medium gray clay with silt lenses and silt pockets |
| | Medium gray clay |
| · 10 - | |

LOUIS J. CAPOZZOLI & ASSOCIATES, I

| • | LOG OF BORING | |
|---------------------------|--|--|
| PROJECT FOR | Cajun Electric Power Cooperative. Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BORING 168 F LE 74-30 DATE 19 May 1977 TECHNICIAN CCN |
| LIFPTH FELT SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST | BORING DEFTH 10 feet |
| | -Stiff gray clay | - |
| | Stiff gray clay | |
| 5 | Stiff gray clay with silt traces | |
| | Stiff grav clay | |
| - | Medium gray clay with silt lenses | |
| 10 | | |
| | | |
| • | | Boring 169 Boring Depth 10 feet |
| | • • | ► |
| 0 | Case the and gray clay with traces grass root | and other organic matter |
| - | Soft tan and gray clay with traces organic ma | tter |
| | Soft tan and gray clay with cidees every | • |
| - 5 | Soft tan and gray clay with silt pockets | |
| | Soft tan and gray clay with site pockets and | traces sand |
| 10 | Loose tan and gray silt with clay pockets and | • |
| | | • |
| | | • |
| | | Boring <u>170</u> Boring Depth <u>10 feet</u> |
| | | |
| | Stiff gray clay | |
| | Medium gray clay with silt streaks and lenses | |
| - 5 | Soft gray slightly silty clay | |
| | Loose gray silt | |
| , | Soft gray silty clay | |
| - 10 | | ES; INC. |

Ċ

C

Ċ

ζ

C

Geotophical Engineers

.

| lectric Powe ds, Louisian lectric Powe ngineers, In meer samele ray clay ray clay ray clay ay clay with ay clay with | r Cooperative a r Cooperative c., Burns and silty clay silt traces silty clay | , Inc. Roe, Inc. | ST BORING | BORIN CILE DATE TECHN | 74-30 19 May 197 محمد CCN |
|---|--|--|---|--|---|
| Tay clay Tay clay Tay clay By slightly s By clay with By slightly s | STANGARD silty clay silt traces silty clay | PENETRATION TE | ST BORING | UEPTH | 10 feet |
| ray clay ray clay ay slightly s ay clay with ay slightly s | silty clay silt traces silty clay | | | | |
| ay clay ay slightly s ay clay with ay slightly s | silty clay silt traces silty clay | | | | |
| ay slightly s ay clay with ay slightly s | silty clay silt traces silty clay | | | | |
| ay clay with ay slightly : | silt traces silty clay | | | | |
| ay slightly : | silty clay | | | | |
| ———————————————————————————————————— | | | | | |
| • •••• | | | | | |
| | | | | | |
| | | | | | • |
| | | | B Boring | loring Depth | 172 10 feet |
| | • • | • | * | | |
| ray clay | | | | • | |
| ray clay | : | · · | · · · . | | |
| ray slightly | silty clay w | ith silt tra | aces | | |
| ay clay with | silt traces | ~ ` | under an | | |
| ay clay with | silt traces | 2 | | | • |
| | • | | | • | • |
| | | | | | • |
| | | | E | Boring | 173 |
| | | | Boring | Depth _ | <u>10 feet</u> |
| | an sa | | | | |
| ray clay | | | ۲ ^۰ ۰. • • • • • • • • • • • • • • • • • • • | stant. Stanting states | • |
| gray silty c | lay | _ · · | an shi an | | |
| gray clay wi | th silt trace | s and 1 inc | h clayey si | lt layer | rs |
| ose gray sil | t with clay t | races | | | |
| ose gray cla | yey silt | | | | |
| | ray clay ray clay ray slightly ay clay with ay clay with ay clay with gray silty c gray clay wi ose gray sil ose gray sil | ray clay ray slightly silty clay w ay clay with silt traces ay clay with silt traces ay clay with silt traces gray silty clay gray clay with silt trace ose gray silt with clay t ose gray clayey silt | ray clay ray slightly silty clay with silt tra ay clay with silt traces ay clay with silt traces ay clay with silt traces gray silty clay gray clay with silt traces and 1 inc ose gray silt with clay traces nose gray clayey silt | Page 1 Pa | Boring Depth ray clay ray slightly silty clay with silt traces ay clay with silt traces ay clay with silt traces ay clay with silt traces gray silty clay gray clay with silt traces and 1 inch clayey silt layer ose gray silt with clay traces mose gray clayey silt |

Gootechnical Engineer

| | LOG OF BORING | | |
|--------------------------|--|---|--|
| PHOJECT FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | 80) ド・コ ンA TEC | RING 174 E 74-30 TE14 April 19 CHANCIAN MJK |
| CIETH FLET SAMPLES | INDISTURBED SAMPLE STANDARD PENETRATION TEST | BCRING DEPTH | 10 feet |
| | Medium gray clay | | |
| - | Medium gray clay | | |
| 5 | Medium gray clay | | |
| | Medium gray clay | | |
| 10 | Medium gray clay with silt traces | | |
| | | | |
| | • | Boring Boring Depth | 175 10 feet |
| | · · · · · · · · · · · · · · · · · · · | | |
| | | • | • |
| 0 | | | |
| | , Medium gray clay | · · | • |
| | Medium gray clay | · | |
| 5 | Loose gray slightly clayey sand with clay tra | ices | - · · "• |
| | . Very loose gray clayey silt with clay traces | ار میں اور | |
| 10 | . Very loose gray clayey silt | · · · · · · · · · · · · · · · · · · · | |
| | | D = t = | 176 |
| | | Boring Depth | JO feet |
| | | · . | |
| | | | |
| 0 | Very stiff tan and gray clay with roots and a | organic traces | |
| | Stiff tan and gray slightly silty clay with (| organic traces | · |
| - <u> </u> | Loose tan and gray slightly clayey silt with | organic traces | ; · · · |
| | Loose tan and grav silt with clay traces | | • |
| | Loose tan silt with sand traces | | |
| 10 | | | |

Geotechnical Engineers

4

٤

С

Ċ

| | LUG OF BORING |
|---------------------------|---|
| PROJECT FOR | Cajun Electric Power Cooperative, Inc.177New Roads, Louisiana74-30Cajun Electric Power Cooperative, Inc.Date 16 June 197Bovay Engineers, Inc., Burns and Roe, Inc.Decension CCN |
| DF PTH FEFT SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| - 0 - | Stiff tan and gray clay with silt lenses and roots |
| | Loose tan and gray silt with roots |
| 5 Z | Loose tan and gray silt |
| | Medium tan and gray slightly silty clay with organic traces |
| - 10 - | Soft tan and gray silty clay with organic traces |
| | Boring 178 Boring Depth 10 feet |
| | • |
| - | |
| - 0 | Stiff tan and gray clay with traces silt and roots |
| | Soft tan and grav clay with traces silt |
| | Soft tan and gray slightly silty clay |
| - · · · | Jore tan and gray slightly clavey silt |
| | Louse can and gray stightly clayer clayer and traces clay |
| 10 | Loose tan sill with some sand and traces every |
| | |
| | Boring <u>179</u> Boring Depth <u>10 feet</u> |
| | Borning Depth |
| | |
| | |
| | Soft gray clay with traces of grass roots |
| ~~ · · | Soft tan and gray clay with silt pockets |
| - 5 - | Loose tan and gray silt with clay and sand traces |
| | Loose tan and gray silt with clay and sand traces |
| · · · · · · · · | Loose tan and gray silt with clay and sand traces |

2

Geotechnical Engineers

| | LOG OF BORING | |
|--------------------------|--|------------------------------|
| PROJEC* | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | 0 30 ril 1977 MJK _ |
| DEPTH FFFT SAMPLES | INDISTURBED SANPLE STANDARD PENETHATION TEST BORING CEPTH 10 FE | et |
| | Medium tan and gray clay with traces grass roots, silt and organic | matter |
| | Soft tan and gray clay with silt pockets | |
| - 5 | Soft tan and gray very silty clay with silt pockets | |
| | Loose tan and gray very clayey silt | |
| | Loose tan and gray silt with sand and clay traces | |
| ·· 10 - | | · |
| | • | |
| • | •••• •••• | ł |
| · · · · · · · · · · · | Boring 184 Boring Depths 10 | feet |
| | | • ' |
| - 0 | cost tan and gray clay with traces grass roots | |
| | Sort tan and gray clay | |
| ÷ | Sort tan and gray clay | |
| · · · · · · · · | Soft tan and gray clay with silt pockets | |
| | Soft tan and gray clay with sitt pockets | |
| 10 | Loose tan silt with 4" top clay layer | |
| | | |
| | | |
| • | | |
| | Boring 18 Boring Depth 10 |) feet |
| | | |
| U | Medium tan and gray clay with traces silt and grass roots | |
| | Soft tan and gray clay | |
| - 5 | Soft tan and gray slightly silty clay with silt streaks | |
| 1 | Soft tan and gray clay with silt pockets and streaks | |
| ··· •• • | Loose tan silt with clay pockets and traces of sand | |
| 10 | LOUNS & CAROTZOLL & ASSOCIATES INC. | Fp18125 |

2

Ć

0

Gentechnical Engineers

LOG OF BORING



С

C

| ROJECT | Caiun Electric Power Cooperative, Inc. | BORING _] 86 |
|---------|---|-------------------------------|
| | New Roads, Louisiana | FILE 74-30 |
| DR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc. Burns and Roe, Inc. | ECHNICIAN MJK |
| | | |
| SAMPI | UND STURBED SAMPLE STANDARD PENETRATION TEST BORING CEP | гн 10 feet |
|) | Medium tan and gray clay with traces grass roots | |
| | Soft tan and gray clay | |
| | Soft tan and gray clay | |
| | Loose tan silt with traces sand and 3" silty clay layer | |
| | Loose tan silt with traces sand and clay | |
| | | |
| - | | |
| | Boring Der | ing <u>187</u> oth 10 feet |
| | | |
| | | x . |
| | Medium tan and gray clay with traces grass roots and sill | pockets . |
| | Soft tan and gray clay with silt pockets | · · · |
| 5 | Soft tan and gray clay with silt streaks | • |
| | Loose tan silt with traces clay and sand | |
| | Loose tan silt with traces clay and sand | |
| | | |
| | | |
| - | | • |
| | Bor | ing 1 <u>88</u> |
| | Boring De | pth <u>10 feet</u> |
| <u></u> | Medium tan and gray slightly silty clay with silt streak | S |
| | Soft tan and gray clay with silt pockets and peat pocket | |
| 5 | Soft gray clay with wood | *.* / |
| | Loose tan and gray slightly clayey silt with sand traces | |
| | Loose tan and gray slightly clayey silt with sand traces | |

Gontoninal Engineers

| POJECT | Cajun Electric Power Cooperative, Inc. | BORING 189 74-30 |
|-----------|---|--|
|)F | New Roads, Louistana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc.,Burns and Roe, Inc. | DATE 14 April 1 TECHNICIAN MJK |
| FLET | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORIN | IG DEPTH 10 feet |
| | Soft gray clay with silt pockets and traces grass roo | ots |
| | Soft tan and gray clay with traces organic matter | |
| 5 | Soft tan and gray clay with silt pockets and $1\frac{1}{2}$ " cla | ayey silt layer |
| | Soft tan and gray clay with silt pockets | |
| ₹V ≂Et | Soft tan and gray very silty clay | • |
| | | |
| | | ÷. |
| | Borin | Boring 190 g Depth <u>10 fee</u> t |
| | • • | • • |
| 0 | Medium tan and gray clay with traces grass roots | |
| | Soft tan and gray clay | - |
| | Soft tan and gray slightly silty clay with silt pock | ets |
| | Soft tan and gray clay with silt pockets and streaks | 9 a |
| | Very soft tan and gray clay with silt pockets and st | reaks |
| 10 | | |
| | | |
| | Borin | Boring <u>191</u> ng Depth <u>10 feet</u> |
| 0 | | |
| anari na | Medium gray clay | |
| 5 | .Hedium gray clay | |
| | Medium gray clay with silt traces | |
| | Loose gray clayey silt | |
| 10 | Loose gray silt with clay traces | |

ć

к 1

APOZZOLI & ASSUCI

| LOG | OF | BORING |
|-----|----|--------|
|-----|----|--------|

| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative. Inc. Bovay Engineers, Inc., Burns and Roe, Inc. |
|---------------------------------------|--|
| DEP1H FEET | |
| - 0 - | Medium gray clay |
| | Medium gray clay |
| 5 | Medium gray very silty clay |
| | Very loose gray clayey silt |
| 10 | Very loose gray silt with clay layers |
| | |
| | Boring 196 |
| | Boring Depth <u>To rece</u> |
| | 8 |
| - 0 | |
| | Stiff gray clay with roots |
| | Stiff tan and gray clay with organic traces |
| - 5 | Soft tan and gray silty clay with terrous traces |
| | Very loose tan and gray slightly clayey silt with organic and refices |
| | Very loose tan and gray slightly clayey slit with remous traces |
| | |
| | Boring 197 |
| | Boring Depth <u>10 reeu</u> |
| · · · · · · · · · · · · · · · · · · · | |
| - 0 | Stiff tan and gray slightly silty clay with roots |
| | Loose tan and gray clayey silt with roots |
| - 5 | Very loose tan and gray clayey silt with organic traces |
| | Very loose tan silt |
| · · · · · · · | Very loose tan and gray silt with organic traces |
| - 10 | LOUIS L CAPOZZOLL & ASSOCIATES, INC. |

| | Caiun Flectric Power Cooperative, Inc. | ₆ 198 |
|---|--|--|
| PROJECT | New Roads, Louisiana | 74-30 |
| 508 | Cajun Electric Power Cooperative, Inc. DATE DATE | LO JUNE 1977 |
| FUF | Bovay Engineers, Inc., Com | |
| x_ · W | | |
| 1 FPT 5.5APE | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH | 10 feet |
| | Stiff tan and gray clay with organic traces and roots | |
| | Very loose tan and gray silt | |
| 5 | Very loose tan and gray clayey silt with organic traces | |
| | Very loose tan and gray silt | |
| 10 | Very loose tan and gray silt with clay and sand traces | |
| × =- | | |
| | | · . |
| | | |
| | Boring 199 | |
| | Boring Depth To leet | |
| | | · · · · |
| | Stiff tan and gray clay with roots | |
| | Medium tan and gray clay with silt lenses and organic traces | - |
| - · · · · · · · · · · · · · · · · · · · | Firm tan and gray slightly clayey silt with organic traces a | nd roots |
| ······································ | Very loose tan and gray silt | • |
| | Very loose tan and gray silt with clay and sand traces and r | oots |
| - 10 | | |
| | | |
| | | |
| | | |
| | Boring 200 Remine Popth 10 feet | _ ' |
| | Boring behrin <u>iv ree</u> | |
| | | 2010 - 100 - |
| | Medium gray clay with roots | |
| | Stiff tan and gray clay with silt and organic traces | |
| - 5 | Stiff tan and gray clay with silt and organic traces | formus traces |
| | Medium tan and gray clay with silt pockets and organic and | ICLINUS LIGUES |
| - · · • | Soft tan and gray slightly silty clay | |
| - 10 | | an 1, 5 m 5 7 J J |

LOG OF BORING

:

.

.

Ç

•

Ċ

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| | LOG OF BORING |
|---------------------------------------|--|
| PROJECT FOR | Cajun Electric Power Cooperative, Inc.ECRING 201New Roads, LouisianaFILE 74-30Cajun Electric Power Cooperative, Inc.DATE 9 June 1977Bovay Engineers, Inc., Burns and Roe, Inc.ECRING 201 |
| DEPTH | UNDISTURBED SAMFLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| | Stiff gray clay with ferrous traces |
| | Medium gray clay with 1 inch tan silt layer on bottom Loose gray clayey silt Stiff gray clay |
| | Loose gray very clayey silt with 2 inch silty clay layer on top |
| 10 | Loose gray clayey silt with 2 inch clay layer in middle |
| | Boring 202 Boring Depth 10 feet |
| | |
| 0 | Stiff gray clay with silt streaks |
| | Loose gray clayey silt |
| 5 | Stiff gray clay with silt lenses |
| | Soft aray clay with 4 inch loose sand layer |
| - 10 - | Loose gray clayey silt |
| · · · · · · · · · · · · · · · · · · · | Boring <u>203</u> Boring Depth <u>10 feet</u> |
| | |
| - D - | |
| | Medium gray clay |
| - 5 | Medium gray Clay |
| - 10 | Medium gray clay with silt traces Soft tan and gray slightly silly clay - Loose tan and gray slightly silty sand |

8

| • | | LOG OF BORING |
|---|---|--|
| | PROJECT FOR | Cajun Electric Power Cnoperative, Inc.BOBINE 204New Roads, LouisianaFile 74-30Cajun Electric Power Cooperative, Inc.Date 20 May 1977Bovay Engineers, Inc., Burns and Roe, Inc.TECHNICIAN CCN |
| | DEPTH FEET GAMPLES | NDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| | · · · · · | Medium gray clay with silt streaks |
| - | 5 | Soft gray slightly silty clay |
| | | Soft gray silty clay |
| | 10 10 11 11 11 11 11 11 11 11 11 11 11 1 | Boring 205 Boring Depth 10 feet |
| | | |
| | 0 | Medium gray clay |
| | | Medium gray clay Medium gray clay |
| : | | Medium gray clay Soft gray clay with silt traces |
| | - 10 - | Boring 206 |
| | | Boring Depth 10 feet |
| | | |
| • | | Stiff gray clay |
| | - 5 | Medium gray silty clay |
| | | .Soft gray slightly silty clay |
| | - 10- | LOOSE gray STIL WITH Sand LFACES |

.

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| | LOG OF BORING | |
|---|---|-------------------------|
| PROJECT | Cajun Electric Power Cooperative, Inc. | 207 1-30 May 1977 |
| FOR | Cajun Electric Power Coopérative, Inc. 5476 20 Bovay Engineers, Inc., Burns and Roe, Inc. Technicia: | |
| DFPTH FEET | NDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 F | eet |
| | Stiff gray clay | -, |
| | Medium gray clay | |
| ⁻ 5 | Nedium gray clay with silt traces | |
| | Soft gray clay with silt traces | |
| 10 | Medium gray clay with silt traces | |
| | | |
| | | |
| | Boring 208 Boring Depth <u>TO feet</u> | |
| · · · · · · · · · · · | | |
| - 0 - | | - |
| | Stiff gray clay | |
| the second se | Stiff gray clay with silt traces | |
| 5 | Soft gray slightly silty clay with 7 inch clay layer with silt po | ockets |
| ······ | Soft gray clay | |
| - 10 - | Soft gray slightly silty clay | |
| · · · · · · · · · · · · · · · · · · · | | |
| · · · · · · · · · · · · · · · · · · · | Boring 209 Boring Depth 10 feet | |
| Ale 10 | | |
| | Stiff gray clay | · |
| 4 · · · · · · · · · · · · · · · · · · · | •Stiff gray clay | |
| - 5 | Stiff gray clay with silt lenses | |
| · · · · · · · · · · | . Medium gray clay with silt traces | |
| - 10 - | Soft gray slightly silty clay | • |
| | | FE1812 |

2

4

. •

.

| PRÓJECT | Cajun Electric Power Cooperative, Inc. Boring 210 New Roads, Louisiana 31 May 1977 |
|---------------------------------------|--|
| FCP | Cajun Electric Power Cooperative, Inc. Date St May 1977 Bovay Engineers, Inc., Burns and Roe, Inc. Technician NLT |
| UEPTH FEET SAMPLES | INCISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| 0 | Stiff brown gray clay |
| · · · · · · · · | Stiff gray çlay |
| · 5 | Stiff gray clay with silt lenses and pockets |
| | Soft gray silty clay |
| - 10 | Soft gray slightly silty clay |
| | |
| 5. a | Boring 211 |
| - - | Boring Depth 10 feet |
| ••••• | |
| | |
| - | Soft gray clay with organic traces and wood traces |
| | . Soft gray clay with organic traces and wood traces |
| 5 - | Soft gray clay with organic and wood traces |
| | Soft gray clay with organic traces |
| - 10 - | Soft gray clay with organic traces |
| | |
| • • • • • • | Boring 212 Boring Depth 10 feet |
| | |
| | |
| | |
| | Medium gray clay with root traces |
| | Medium gray slightly silty clay with silt traces |
| 5 | Loose gray slightly clayey silt with root traces |
| · · · · · · · · · · · · · · · · · · · | Loose light gray silty sand |
| 10 - | Loose light gray very clayey silt |
| | LOUIS J. CAPOZZOLI & ASSOCIATES, INC. |

)

Ì

2

<u>, 1</u>

2

LOG OF BORING

| | LOG OF BORING | |
|---------------------------|---|------------------|
| PROJECT FOR | Cajun Electric Power Cooperative, Inc.BORING 213New Roads, LouisianaFILE 74-30Cajun Electric Power Cooperative, Inc.Cajun Electric Power Cooperative, Inc.Bovay Engineers, Inc., Burns and Roe, Inc.TECHNICIAN NL1 | 277 |
| DEPTH DEFTH SAMPLES | UND/STURBED SAMFLE: STANDARD PENETRATION TEST BORING DEFTH 10 Feet | |
| | UNCLOSTIPRED BARFLE It is the precisation tist BORING DEFTH TO TEEL Soft gray clay with roots Soft gray clay with organic and wood traces and roots Soft gray clay with silt traces Loose gray slightly clayey silty sand with organic traces Loose gray clayey silt Boring 214 Medium gray clay with organic traces and roots Boring 214 10 feet Medium gray clay with organic traces and roots Boring Depth 10 feet 10 feet Medium gray clay with organic traces and roots Boring Depth 10 feet 10 feet Medium gray clay clayey silt with organic traces Loose light gray clayey silt Boring Depth 10 feet Boring Depth gray clayey silt Boring Depth 10 feet 10 feet Medium gray clay with organic traces Loose light gray clayey silt Boring Depth 10 feet Boring Depth gray clayey silt Boring Depth 10 feet 10 feet | |
| - 5 - | Medium gray clay with ferrous traces Soft gray clay with ferrous traces Firm gray clayey silt with 3 inch layer of gray clay at 10 feet | , 1 512 2 |

مستعاد مائم ماتكا الأحيان والأحاد و

| PROJE | ст | Cajun Electric Power Cooperative, Inc New Roads, Louisiana | - | BORING 216 E.LE 74-30 DATE 1 June 1977 |
|---------------|----------|---|-------------------------------|--|
| FOR | | Bovay Engineers, Inc., Burns and Roe. | , Inc. | ECHNICIAN NLT |
| DLPTH FEET | SAMPL! 5 | INDISTURBED SAMPLE | RATION TEST HORING DEF | ты 10 feet |
| - 0 - | I | Medium gray clay with silt traces and | d roots | |
| * | | Medium gray clay with silt traces | | |
| - 5 | | Medium gray clay with silt traces | | |
| | | Soft gray silty clay | - | |
| ~ <u>1</u> 0 | | Firm gray silt with 2 inch silty clay | y layer | |
| | | • | | • |
| | | | Boring 217 | |
| | _ | | Boring Depth 10 1 | feet |
| | - | | | •• • |
| | | Stiff gray clay with silt traces and | roots | |
| | | Medium gray clay with silt traces an | d pockets | |
| - 5 | | Loose gray clayey silt with clay poc | kets | |
| | | Soft gray slightly silty clay | | a |
| - 10 | | Firm gray slightly clayey silt | | |
| | | | | • |
| | | | | |
| | | | Boring 218 Boring Depth 10 | 3 feet |
| | | | | |
| | | Stiff gray clay with silt traces and | i roots | |
| | - | Medium gray slightly silty clay with | h silt traces | • |
| - 5 | | Medium gray clay with % inch silty o | clay layer | |
| | | . Soft gray slightly silty clay 👼 | | |
| · - 10 | , | Medium gray clay | | |
| L | | LOUIS L CAPOZZOLI & | ASSOCIATES, INC. | 3 0 / 7 12 |

LOG OF BORING

Carl and the second

-

| 890 (6.07 | Cajun Electric Power Cooperative, Inc. | | 508ING 219 |
|------------------------|---|-------------------------------|----------------|
| PROJECT | New Roads, Louisiana | | File 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, | lnc. | TECHNICIAN NLT |
| ULPTH ULPTH FEET | UNDISTURBED SAMPLE STANDARD HENETH | ATION TEST BORING DE | PTH 10 feet |
| | Stiff gray clay with silt traces | | |
| | Medium gray silty clay with silt pock | ets and wood traces | |
| · 5 | Loose light gray clayey silt | | |
| - - | Loose light gray clayey silt | | |
| - 10 | Loose light gray silty sand | | |
| | | | |
| | | Boring 220 Boring Depth 10 | feet |
| | | | • • • |
| | Stiff gray clay with silt traces | | |
| | Stiff gray clay with silt traces | | |
| - 5 | Medium gray clay with silt traces | | |
| | Soft gray very silty clay | | |
| - 10 | Loose gray silt with clay traces | | |
| | | | |
| | | Boring 221 Boring Depth 10 | feet_ |
| - 0 - | | | |
| | Stiff gray clay with silt traces and | roots | |
| | Stiff gray clay with silt traces | | |
| - 5 - | Soft gray slightly silty clay | | |
| | Loose gray sandy silt | | - |
| | Loose gray sandy silt | | • • |

.

Constant Registere

| | LOG OF BORING | |
|---------------|--|---|
| PROJEC | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | BORN, 222 FILE 74-30 |
| F09 | Cajun Electric Power Cooperative. Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNICIAN NLT |
| LEPTH LFET | UNE-STURBED SAMPLE STANDARD PENETRATION TEST BORING DE | ртн 10 feet |
| - 0 - | Stiff gray clay | |
| | . Medium gray very silty clay | |
| 5 | Medium gray clay | |
| | Loose gray silty sand | |
| - 10- | Loose gray clayey silt with 1 ¹ 2 inch very silty clay laye | r |
| | | |
| | | |
| | | |
| ··· •••• | Boring 223 Boring Depth 10 | feet |
| - 0 - | | |
| | Stiff gray clay with silt traces | |
| | Stiff gray clay.with silt traces | |
| 5 | Medium gray clay with silt traces | · |
| | Medium gray very silty clay | |
| 10 | Loose gray silt | |
| | | |
| | • | • |
| | | • |
| | Boring 22 Boring Depth 10 | feet |
| - 0 | catte many clay with silt traces | |
| | Stiff gray clay with silt traces | |
| - 5 | Stirr gray clayer silt | ۵۰ ۳۰ ۱۹۹۰ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ |
| | Firm gray clayey silt | · · · · · · |
| | Firm gray slightly clayey sile | |
| - 10 | Firm gray silt | \$#idi25 |

and the states of the second

| | LOG OF BORING |
|-------------------------|---|
| PROJECT | Cajun Electric Power Cooperative. Inc.225New Roads, LouisianaFileCajun Electric Power Cooperative. Inc.Date 2 June 1977Cajun Electric Power Cooperative. Inc.TECHNICIAN NLT |
| DEPIH FEET AMFLES | BOVAY ENGINEETS, THESE BORING DEPTH 10 Feet |
| | Stiff gray clay with silt traces and roots Stiff gray clay with silt traces and roots Stiff gray clay with silt traces and roots Medium gray clay with silt traces |
| | Medium gray Stightly Siley Boring 226 Boring Depth <u>10 feet</u> |
| | Stiff gray clay with silt traces Medium gray clay with silt pockets Firm gray silt with clay layers |
| - 10- | Loose gray clayey silt Firm gray sandy silt |
| | Boring <u>227</u> Boring Depth <u>10 feet</u> |
| - 0 | Stiff gray clay with silt traces and roots |
| - 5 | Stiff gray clay with silt traces and roots Soft gray silty clay |
| - 10 | Loose brown sandy silt Loose brown sandy silt |

Gentechnical Encineers

| LOG OF | BORING |
|--------|--------|
|--------|--------|

| PROJECT FOR | Cajun Electric Power Cooperative, Inc.BORING 228New Roads, LouisianaFile: 74-30Cajun Electric Power Cooperative, Inc.Date 2 June 1977Bovay Engineers, Inc., Burns and Roe, Inc.TECHNICIAN NLT |
|-------------------|---|
| DEPTH | UNDISTURBED SAMFLE STANDARD FENETRATION TEST BORING DEPTH 10 FEEL |
| - 0 - | Stiff gray clay with silt traces |
| * * * | Medium gray clay with silt traces |
| 5 | . Soft gray silty clay |
| | Firm gray silty sand |
| 10 | , Firm gray silty sand |
| | |
| | Boring 229 Boring Depth 10 feet |
| | |
| | Very stiff tan and gray clay with roots |
| · · · · · · · · · | Very stiff tan and gray clay with root traces |
| - 5 - | Medium gray silty clay with silt pockets |
| | Loose tan and gray silt with clay pockets |
| - 10 | Very loose tan silt |
| · · · · · | • |
| | Boring 230 Boring Depth 10 feet |
| _ 0 _ | |
| | Stiff gray clay |
| | Stiff tan and gray clay with wood and root traces |
| _ 5 | Stiff tan and gray clay with large amounts of wood |
| | Medium tan and gray clay with wood traces |
| : 10 | Loose gray and light gray clay silt with 2 inch clay layer in middle |
| <u> </u> | FPISI2S |

Gratocheles' Engineers

| | LOG OF BURING |
|--------------------------|--|
| PROJECT FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Echnician CCN |
| GFPTH TEET SAMPLES | UNDISTUREED SAMPLE STANDARD PENETRATION TEST BORING DEFTH 10 Feet |
| | Stiff gray clay with roots |
| - 5 | Very stiff tan and gray clay Medium tan and gray slightly silty clay with silt lenses and silt pocket and 1 inch silt layer in middle Medium tan and gray silty clay with silt lenses and pockets |
| | Medium tan and gray silty clay with silt pockets |
| 10 | |
| | Boring 232 Boring Depth 10 feet |
| | |
| | |
| 0 | Stiff gray clay with roots and ferrous traces and organic traces |
| | Stiff gray and tan clay with organic and ferrous traces and silt pockets |
| | Stiff tan and gray clay with organic and ferrous traces and silt traces |
| 5 | Loose tan and grav slightly clavey silt |
| | Soft tan and grav slightly silty clay with organic traces |
| - 10 | |
| | |
| ••• • | Boring 233 Boring Depth 10 feet |
| | |
| U | Stiff tan and gray clay with organic traces and roots |
| - | Stiff tan and gray clay with silt lenses and organic traces |
| - 5 | Medium tan and gray slightly slity clay |
| | Soft tan and gray slightly clayey slit with organic traces |
| | Soft tan and gray silty clay 🦉 |
| - 10 | |

| | LOG OF BORING |
|----------------|--|
| PHOJEC FCR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Cajun Electric Power Cooperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. Coperative, Inc. |
| огрін Степ | STANDARL PENETRATION TEST BORING DEPTH 10 feet |
| | Stiff tan and-gray clay with roots |
| | Stiff gray clay with silt lenses and roots |
| 5 | Loose tan and gray clayey silt with organic traces |
| | Very loose brown and gray slightly clayey silt |
| | Very loose brown silt with clay traces |
| | |
| | Boring 235 Boring Depth 10 feet |
| | |
| - 0 | |
| | Stiff gray clay with root traces |
| | Stiff tan and gray clay |
| 5 | Stiff tan and gray clay with silt traces |
| | Medium tan and gray clay |
| 10 | Medium tan and gray slightly silty clay with silt lenses and silt pockets |
| | |
| | |
| | Boring Depth 10 feet |
| a and an o | |
| - 0 | Very stiff gray clay with roots |
| | Very stiff tan and gray clay |
| | Loose tan and gray slightly clayey silt with 3 inch silt layer on bottom |
| م : | Medium tan and gray silty clay with silt pockets and lenses |
| 10 | Loose tan and gray slightly clayey silt with clay pockets and lenses and 2 ¹ 2 inch clay layer on bottom |
| | LUL LOUIS J. CAPOZZOLI & ASSOCIATES, INC. |

.

General Engineers

| | L | OG | OF | BORING |
|--|---|----|----|--------|
|--|---|----|----|--------|

, L

| PROJECT FOP | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative. Inc. Boyay Engineers, Inc., Burns and Roe, Inc. Technician DPS | |
|---|--|-----|
| PTH FEI PLES | " lD foot | |
| SAM 5 | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH TO THE C | |
| | Stiff tan and gray clay with root traces | |
| | Stiff tan and gray clay | |
| | Medium tan and gray silty clay with silt lenses and pockets | |
| | Soft tan and gray silty clay with silt lenses and pockets | |
| | Modium tan and grav silty clay with silt pockets | |
| 10 | | |
| · • · · · • | | |
| | · _ | |
| | Boring 238 | |
| | Boring Depth <u>10 feet</u> | |
| | | • • |
| ~ 0 | | |
| · • • • • • • • • • • • • • • • • • • • | Stiff tan and gray clay with root traces | |
| · · · · | Medium tan and gray slightly silty clay with silt traces | |
| - 5 - | Medium tan and gray slightly silty clay with silt pockets | |
| | Soft tan and gray slightly silty clay with silt pockets | |
| | Loose tan and grav clavey silt with clay pockets | |
| - 10 - | | |
| - | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| · | | - |
| | | |
| · | | |
| - | | |
| | • | |
| | LOUIS L CAPOZZOLI & ASSOCIATES, INC. | |

| LOG OF BORING | LOG | OF | BORING |
|---------------|-----|----|--------|
|---------------|-----|----|--------|

(

C

5

| | · · |
|---|--|
| PROJECT FOH | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Technician Con |
| Di FFET SAMPLAS | NOTATE REPORTANDER STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| | Stiff tan and gray clay |
| | Medium tan and gray silty clay with silt pockets |
| 5 | Medium tan and gray clay with silt pockets |
| 10 | Loose tan and gray slightly clayey silt with sand traces Loose tan clayey silt Medium tan and gray slightly silty clay |
| | Boring 240 Boring Depth <u>10 feet</u> |
| | |
| ···· | Stiff tan and grav clav |
| | Modium tan and grav clav with silt lenses and 2 inch silt laver |
| · | hear and many ailt |
| | Loose tan and gray silt |
| · · · · · · · · · · | Loose tan and gray silt with clay traces |
| 10 | Loost tan and gray sandy silt |
| - un | |
| | |
| | |
| a commune to a | |
| | |
| | |
| | |
| алан алан алан алан алан алан алан алан | |
| • • • | |
| | |
| | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.
| LOG OF BORING | | |
|---------------|--|--|
| PROJE | Cajun Electric Power Cooperative, Inc. 241 New Roads, Louisiana 74-30 | |
| FOH | Cajun Electric Power Cooperative, Inc. Date 29 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. Technician CCN | |
| DEPTH HIGT | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet | |
| | Stiff tan and gray clay | |
| | Medium tan and gray clay with wilt traces | |
| 5 | Loose tan and gray slightly clayey silt | |
| 10 | Loose tan and gray slightly clayey silt with sand traces Very loose tan silt Soft tan and gray very silty clay with silt pockets | |
| | | |
| | Boring 242 Boring Depth 10 feet | |
| | | |
| - 0 | Stiff tan and dark gray slightly silty clay with roots and organic matter | |
| | Loose tan and gray silt with organic matter and 3 inch dry crusty organic clay on top | |
| - 5 - | Medium tan and gray clay with silt pockets | |
| - 10- | Soft gray slightly silty clay with silt pockets and 2 inch layers in middle Very loose tan and gray silt Loose gray clayey silt with clay pockets | |
| | | |
| | Boring 243 | |
| | Boring Depth <u>10 feet</u> | |
| | | |
| | Soft gray clay with organic traces | |
| | Medium gray clay with organic traces | |
| - 5 | Medium gray clay with organic traces | |
| · | Medium gray clay | |
| - 10 | Medium gray clay | |

FE18127

LOG OF BORING

| PkOJEC1 F⊎P | Cajun Electric Power Cooperative, Inc. New Roads. Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Convician CQN |
|--|---|
| DEPTH C FFEF SAMPLES | INC STURBED SAMPLE STANDARD PENECHATION TEST BOUND DEPTH |
| - | Stiff tan'and gray clay with roots |
| - | Stiff gray clay with silt pockets |
| 5. | Loose tan and gray slightly clayey silt with clay pockets |
| | Loose tan and gray silt with sand traces |
| - 10 | Loose tan and gray silt with sand traces |
| | Boring <u>245</u> Boring Depth <u>10 feet</u> |
| · · · · · · · · · | |
| | |
| | Stiff tan and gray clay with roots |
| ······································ | Stiff tan and gray slightly silty clay with silt pockets |
| - 5 | Medium tan and gray very silty clay with silt pockets |
| | Loose tan and gray slightly clayey silt with clay pockets |
| 10 | Very loose tan and gray dry silt |
| · · · · · · · · · · · · · · | |
| | • |
| wa | Boring 246 Boring Depth 10 feet |
| | |
| - 0 - | Stiff gray clay with large roots |
| | Medium tan and gray silty clay with silt pockets |
| | Medium tan and gray clay |
| | Medium tan and gray slightly silty clay |
| 10 | Medium tan and gray clay |
| | |

| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | вояны 247 14-30 |
|--------------------------|--|------------------------------------|
| FCP | Cajun Electric Power Cooperative, Inc. Boyay Engineers, Inc., Burns and Roe, Inc. | TECHNICAN CON |
| UEFTH FF11 SAMPLES | STANDARD PLNETHATION TEST | BORING DEPTH 70 feet |
| - 0 - | Stiff tan and gray clay with roots | |
| | Loose tan and gray dry clayey silt | |
| 5 | Medium tan and gray silty clay with clay pockets | |
| | Loose tan and gray clayey silt with clay traces | • |
| - 10 | Loose tan and gray clayey silt with clay pockets | |
| | • | |
| - | | Boring 248 |
| | | Boring Depth <u>10 feet</u> |
| - · · | | . . |
| - 0 | Stiff gray silty clay with silt and sand layers a | nd streaks |
| · · · · · · | Stiff gray clay with silt pockets | |
| ····· | Loose gray silt with clay pockets | • |
| 5 | Loose gray silt with clay traces | |
| | Loose gray clayey silt with clay and sand traces | |
| 10 | | |
| | | |
| ·/ ••• | | Boring 249 Boring Depth 10 feet |
| | | |
| ····· | | |
| 0 | Stiff tan and gray clay with roots | |
| | Stiff tan and gray clay with silt traces and 1 i | nch silt layer on bottom |
| - 5 - | Medium tan and gray clay with silt pockets | • |
| | Soft silty clay with silt pockets | |
| · · · · · | Soft very silty clay with silt pockets | |
| 10 | · | ^ - <u>-</u> |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FF19125

LOG OF BORING

| PROJE FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Cajun Electric CON Economic CON |
|---|--|
| | LADISTURBEL SAMPLE STANGARE PENETHATION TEST BORINE DEPTH 10 feet |
| - | Stiff tan and gray clay with organic traces and roots |
| | Stiff tan and gray clay with organic traces |
| 5 | Stiff tan and gray silty clay with organic traces |
| | Loose tan and gray silt |
| . 10 | Loose tan and gray silt with clay and organic traces |
| | |
| | Boring 251 Boring Depth 10 feet |
| · ·· | |
| · | - · · · · · · · · · · · · · · · · · · · |
| - 0 | |
| | Stiff tan and gray clay with roots |
| 5 | Stiff tan and gray clay with organic and silt traces |
| | Loose tan and gray silt with organic traces |
| | Soft tan and gray slightly silty clay with ferrous traces |
| - 10 | Loose tan and gray silt |
| · •••• | |
| i na una | Boring 252 Boring Depth 10 feet |
| ••• •• ••• | boring beptin <u>to reet</u> |
| • · · · · · · · · · · · · · · · · · · · | |
| - 0 - | |
| · ···· ······························· | Stiff brown and gray clay with roots |
| ··· ••••••••• | Stiff tan and gray clay with silt pockets |
| - 5 | Stiff tan and gray clay with silt and organic traces |
| ····· | Medium tan and gray clay with silt, ferrous,and organic traces |
| : - 10 - | Soft tan and gray slightly silty clay with ferrous traces |

| PHOJEC FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Cajun Electric CON |
|---------------|--|
| | UNEISTURBED SAMPLE STANDARD PENETHATION TEST BOHIND DEPTH 10 Feet |
| | Stiff tan and gray clay with roots |
| | Stiff tan and gray clay with silt and sand traces and silt lenses and organic traces |
| 5 | Loose tan and grav slightly clayey silt |
| | Soft tan and gray silty clay |
| 10 | Soft tan and gray silty clay with organic traces |
| | |
| | |
| | Boring 254 Boring Depth 10 feet |
| | |
| | |
| U | Stiff tan and gray clay with roots |
| | Stiff tan and gray clay with organic traces and silt lenses |
| - 5 - | Medium tan and gray clay with silt pockets and organic traces |
| | Loose tan and gray silt with organic traces |
| . 10 | Loose tan and gray silt |
| 10 | • |
| | • |
| | Boring 255 |
| | Borind Depth 10 feet |
| | |
| | Stiff tan and gray clay with roots |
| - | Stiff tan and gray clay with organic traces |
| - 5 | Stiff tan and gray clay with silt and organic traces |
| | Stiff tan and gray clay with silt traces and organic traces |
| | Soft slightly silty clay with organic and ferrous traces |
| - 10. | • |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

1 15125

a,

| | LOG OF BOP | RING e |
|----------------|--|--|
| PROJEC | Cajun Electric Power Cooperative, Ir New Roads, Louisiana Cajun Electric Power Cooperative, Ir Bovay Engineers, Inc., Burns and Roe | ас. вс. 256 мые 74-30 мате 15 June 1 тернискам ССС |
| D DEPTH | A STANDARD PENET | HATION TEST BORING DEPTH 10 feet |
| | Stiff tan and gray clay with roots | |
| | Stiff tan and gray clay with organic | traces |
| 5 | Stiff tan and gray clay with silt po | ckets and organic traces |
| | Stiff tan and gray clay with organic | traces |
| 10 | Stiff tan and gray clay with silt le | nses and ferrous and organic traces |
| | | |
| · • | • | Boring 257 |
| | · · · · | Boring Depth <u>10 feet</u> |
| | | • |
| 0 | | |
| | Stiff tan and gray clay with organic | traces and roots . |
| · •• · · · · · | Stiff tan and gray clay with organic | traces |
| 5 | Stiff tan and gray clay with silt len | ses and organic traces |
| | Loose tan and gray clayey silt with o | rganic traces |
| 10 | Soft tan and gray slightly silty clay | with organic traces |
| ~ | • | |
| | | Boring 258 |
| | • | Boring Depth 10 feet |
| | | · - |
| ~ | | |
| | Stiff tan and gray clay with organic a | and root traces |
| | Stiff tan and gray clay with organic i | traces |
| 5 | Stiff tan and gray clay with silt lens | ses and organic traces |
| | Soft tan and gray slightly silty clay | with organic traces |
| | Very loose tan and gray silt with orga | inic and clay traces |
| 10 | | |

| | LOG OF BORING |
|------------------------------|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. ECHNICIAN CCN |
| O LEPTH C FFFT SAMPLES | UNDIST HEED SAMPLE STANDARD PENITRATION TEST BORING DEPTH 10 feet |
| | Stiff tan and gray clay with root traces |
| · · · · · · | Stiff tan and gray clay with root and organic traces and ferrous traces |
| 5 | Stiff tan and gray clay with silt lenses and ferrous traces |
| 10 | Medium tan and gray clay with silt and ferrous traces Soft tan and gray slightly clayey silt with ferrous traces Stiff tan and gray clay with organic traces |
| | Boring <u>260</u> Boring Depth <u>10 feet</u> |
| 0 | Stiff tan and gray clay with wood and root traces |
| - 5 | Stiff gray clay with silt pockets and traces and organic and ferrous traces Stiff gray slightly silty clay with organic traces |
| | Soft tan and gray clay with silt and organic traces |
| 10 | Loose tan and gray silt with organic traces Boring <u>261</u> Boring Depth <u>10 feet</u> |
| 0. | Stiff tan and gray clay with roots and organic traces |
| No. 1999 | Stiff tan and gray clay with ferrous traces |
| 5 | Medium tan and gray clay with silt and sand traces |
| | Soft tan and gray slightly silty clay with sand traces and organic traces |
| | Very loose tan silt |

| ILORG | CT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 262 74-30 |
|---------------------------------------|---------|--|
| 403 | | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN CCN |
| - O DEPTH | SAMFLES | UNCISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEFTH 10 FEET |
| · · · | | Stiff tan and gray clay with silt pockets and roots |
| | | Stiff tan and gray clay with ferrous traces and silt pockets and lenses |
| - | | Medium tan and gray clay with silt traces and ferrous traces and organic traces Firm tan and gray silt |
| - 10 | | Soft tan and gray silty clay with 4 inch clay layer and ferrous streaks and organic traces |
| | | |
| | | Boring <u>263</u> Boring Depth <u>10 feet</u> |
| • • • | | |
| - 0 | | Dense tan and gray clayey silt |
| · · · | £ | Stiff tan and gray clay with silt traces |
| | | Medium tan and gray clay with silt traces |
| · · · | | Soft tan and gray clay with silt traces |
| | | Medium tan and gray clay with silt traces |
| | | • |
| | | Boring 264 |
| | | Boring Depth 10 reet |
| · · · · · · · · · · · · · · · · · · · | | |
| - 0 - | | Stiff tan and gray clay |
| | | Stiff tan and gray clay |
| - 5 | | Medium tan and gray silty clay with roots |
| | | Medium tan and gray slightly silty clay |
| 10 | | Medium tan and gray slightly silty clay |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PE1A125

| PROJE | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 74-30 |
|--|--|
| FOR | Cajun Electric Power Cooperative, Inc. |
| | Bovay Engineers, Inc., Burns and Roe, Inc. recumucian CCN |
| 000000 | STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| | Very stiff tan and gray clay |
| | Stiff tan and gray clay |
| . 5 | Firm tan and gray slightly clayey silt |
| | Soft tan and gray clay with silt traces |
| . 10 | Medium tan and gray clay |
| | |
| | Boring 266 |
| | boring bepth <u>to reet</u> |
| | |
| - • _ | |
| · ··· | Very stiff tan and gray clay |
| | Medium tan and gray silty clay |
| | Loose tan and gray silt |
| - | Loose tan and gray silt with clay traces |
| - <u> </u> | Loose tan silt |
| • | |
| • •••• • | Boring <u>267</u> Boring Depth <u>10 feet</u> |
| | |
| | |
| | |
| | Stiff tan and gray clay with roots of the state of the st |
| | Stiff tan and gray clay with silt traces |
| - 5 | Medium tan and gray clay with silt pockets and lenses |
| ······································ | Firm tan and gray silt |
| 10 | Loose tan and gray silt with clay traces |
| <u> </u> | |

۰.

LOG OF BORING

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

a

5r18125

| PHC3H⊴ | eC7 | Cajun Electric Power Cooperative, Inc. 268 New Roads, Louisiana 74,20 |
|-----------------|---------|--|
| ۹لء | | Cajun Electric Power Cooperative, Inc. |
| | | Bovay Engineers, Inc., Burns and Roe, Inc. |
| DFPTH O FEET | SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEEL |
| | | Very stiff tan and gray clay |
| | | Stiff tan and gray slightly silty clay |
| - 5 | | Loose tan and gray slightly clayey silt |
| | | Soft tan and gray clay with silt traces |
| 10 | | Medium tan and gray clay |
| | | |
| - | | Boring 269 |
| - | | Boring Depth <u>10 feet</u> |
| | | ۵. ۲ |
| - 0 - | | |
| Ū. | | Very stiff tan and gray clay |
| | | Firm tan slightly clayey silt |
| - 5 | | Firm tan and gray slightly clayey silt |
| | | Stiff tan and gray clay |
| 10 | | Loose tan and gray slightly clayey silt |
| | | |
| · · · · · · · | | Boring 270 |
| | | Boring Depth 10 feet |
| | | |
| - 0 - | ľ | |
| | | Stiff tan and gray clay with root traces |
| | | Stiff tan and gray silty clay |
| - 5 | | Medium tan and gray slightly silty clay |
| | | Firm tan and gray clayey silt |
| 10 | | Loose tan and gray silt |

. ...

| PROJEC | CT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 74-30 |
|------------------|---------|--|
| FQR | | Cajun Electric Power Cooperative, Inc. Date 30 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. |
| Dreth C FEET | 5AMPLES | UNUISTURBEL SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEEL |
| - | | Very stiff tan and gray clay with organic traces |
| · _ | | Stiff tan and gray clay |
| - 5 | | Medium tan and gray slightly silty clay |
| | | Loose brown and gray silt |
| 10 | | Soft brown and gray silty clay |
| ~ 10 | | |
| | | Boring 272 - Boring Depth <u>10 feet</u> |
| | | |
| | | |
| - 0 | | Stiff tan and grav clav |
| | | Stiff tan and grav clay with organic traces |
| 5 | | Medium tan and grav clav with organic traces |
| | | Medium grav clav |
| | | Soft grav clav with silt |
| - 10 | | |
| | | Boring 273 |
| • • • | | Boring Depth <u>10 feet</u> |
| | | |
| 1997 Ban 197999, | | |
| | | |
| | | Very stiff tan and gray clay with silt lenses |
| | | Soft tan and gray very silty clay |
| - 5 | | Firm tan and gray silt |
| | Ī | Loose tan and gray silt with clay traces |
| - 10 | | Loose tan and gray silt with clay traces |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

##15125

| LOG OF BORING | | LOG OF BORING |
|---------------|-------------------------------|---|
| | FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Boyay Engineers Inc. CCN CCN CCN CCN CCN CCN CCN CC |
| | ر. ب | Sovay Engineers, Inc., Burns and Roe, Inc. |
| | LEPTH O ^{FEE} | UNEISTUREED SAMPLE STANDARL PERETRATION TEST BORING DEPTH 10 Feet |
| | | Stiff dark gray clay with roots |
| | | Very stiff tan and gray clay |
| | 5 | Stiff tan and gray clay |
| | | Stiff tan and gray clay |
| | | Medium grav clav with silt traces |
| | 10 | |
| | | Boring 275 Boring Depth <u>10 feet</u> |
| | | |
| | / A - | Medium gray clay Stiff gray clay with organic traces |
| | | Stiff gray clay • |
| | ··· · | Medium gray clay |
| | | Stiff gray clay |
| | 10 | |
| | | Boring 276 |
| ľ | ~ ~~~ | Boring Depth <u>10, feet</u> |
| | | |
| | | |
| ŀ | 0 | |
| - | | Stiff tan and gray clay |
| | · · · · · · · · · · · · · · · | Stiff gray clay |
| - | 5 | Soft gray clay with organic and silt traces |
| - | • • • • • | Loose gray silt |
| - | 10 | Soft gray silty clay |
| L | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

#e15125

| - | | LOG OF BORING |
|---|---------------------------|---|
| | PROJECT | Cajun Electric Power Cooperative, Inc.BORING 277New Roads, LouisianaFILE 74-30Cajun Electric Power Cooperative, Inc.DATE 30 June 1977Bovay Engineers, Inc., Burns and Roe, Inc.TECHNICIAN CCN |
| | DEPTH DEPTH SAMPLES | UNDISTURBED SAMPLE STANCARD PENETRATION TEET BORING DEPTH 10 FEET |
| | | Stiff tan and gray clay |
| | | Stiff tan and gray clay with silt traces |
| | . 5 | Soft tan and gray very silty clay |
| | | Loose tan and gray slightly clayey silt |
| | . 10 | Soft tan and gray silty clay |
| | - | |
| | | Boring 278 |
| | | Boring Depth <u>10 feet</u> |
| | | |
| | 0 | |
| | | Very stiff tan and gray clay |
| | | Stiff tan and gray clay with silt traces |
| | . 5 : | Stiff gray clay |
| | | Loose gray silt |
| | 10 | Soft gray clay with silt traces |
| | | Boring 279 Boring Depth <u>10 feet</u> |
| | - | |
| | 0 | |
| ļ | | Stiff tan and gray clay |
| | | Medium tan and gray clay with silt and wood traces |
| | - 5 | Firm tan and gray silt |
| | · · · · · · · · · · · · · | Soft tan and gray slightly silty clay |
| | 10 - | Loose tan and gray silt |
| | | |

.

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

1 116125

•

.

.

.

| | LOG OF BORING | |
|----------------------------|---|--|
| PROJEC* | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BORNY, 280 FLE 74-30 HATE 5 JULY 197 TECHNIC AN CCN |
| ULPTH O rist SAMPLES | UNDISTURBED SAMFLE STANDARD PENETRATION TEST BORING DEPTI | - 10 feet |
| | Very stiff tan and gray clay | |
| | Stiff tan and gray clay | |
| 5 | Soft tan and gray clay with silt traces | |
| | Loose tan and gray silt | |
| | Soft tan and gray slightly silty clay | |
| | | |
| | Boring | |
| | Boring Depth 10 feet | |
| | | |
| | | |
| 0 | Medium brown and gray clay with root traces Medium tan and gray clay Medium gray clay Medium tan and gray clay Stiff tan and gray clay Stiff tan and gray clay | , |
| 10 | Soft gray clay Soft gray clay with silt traces Loose gray clayey silt Loose gray silt with clay traces | . · · |
| | Boring | |
| | Boring Depth 10 feet | |
| | | |
| | | |
| 0 | | |
| - / | Stiff tan and gray clay with organic and root traces | \$ |
| | Stiff tan and gray clay | 、 |
| 5 | Loose tan and gray silt | |
| | Loose tan and gray clayey silt | |
| | Soft tan and gray silty clay | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| LOG OF BOR | ING |
|------------|-----|
|------------|-----|

| PROJECT. | Cajun Electric Power Cooperative, Inc. 283 New Roads, Louisiana 74-30 |
|---|--|
| FOR | Cajun Electric Power Cooperative, Inc. Date 30 June 1977 Boyay Engineers, Inc., Burns and Roe, Inc. |
| D FEFT SAMPLES | UND STURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| | Stiff gray clay |
| . 5 | Stiff tan and gray clay |
| | Medium tan and gray clay with silt pockets |
| | Stiff tan and gray clay |
| 10 | Stiff tan and gray clay with silt layers |
| | Boring 284 Boring Depth 10 feet |
| 10 - 11 - 11 - 11 - 11 - 11 - 11 - 11 - | |
| | |
| | Very stiff tan and gray clay with roots |
| anni shanni | Very stiff tan and gray clay with silt traces |
| · 5 · | Firm tan and gray clayey silt |
| | Medium tan and gray silty clay |
| ······································ | Medium tan and gray silty clay |
| | Boring <u>285</u> Boring Depth 10 feet |
| ana an | |
| - 0 - | |
| | Stiff tan and gray clay |
| - 5 - | Stiff tan and gray clay |
| ····· | Medium tan and gray clay with silt traces |
| | Stiff tan and gray clay with silt traces |
| 10 | |

LOG OF BORING

| PROJE | Cajun Electric Power Cooperative, Inc. BORING 286 New Roads, Louisiana 515 74-30 |
|-------------------------------|---|
| FOR | Cajun Electric Power Cooperative, Inc. Care 29 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN CCN |
| иял 1651 ССГТ | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 Feet |
| - | Stiff tan and gray clay with silt traces |
| | Soft tan and gray slightly silty clay |
| 5 | Loose tan and gray silt |
| | Loose tan and gray silt with clay traces |
| . 10 | Soft tan and gray silty clay |
| | Boring |
| | Boring Depth <u>10 feet</u> |
| ••• ••• | |
| · / · · · · | |
| • 0 • | Stiff tan and gray clay with silt pockets and monts |
| | Stiff tan and gray slightly silty clay |
| - 5 - | Loose tan and gray clayey silt |
| · · · · · · · · · · · · | Loose tan and gray clayey silt |
| · · · · · · · | Medium tan and gray clay with silt traces |
| | Boring 288 |
| · · · · · · · · · · · · · · · | Boring Depth <u>10 feet</u> |
| • • • | |
| | |
| 0 | |
| · | Stiff tan and gray clay with silt pockets |
| | Stiff tan and gray very silty clay |
| - 5 - | Medium tan and gray silty clay |
| | Loose tan and gray clayey silt |
| 10 | Loose tan and gray slightly clayey silt |

1+18125

| | | LOG OF BORING |
|-----------------|------|---|
| рq | oj£C | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 74-30 |
| 60 | R | Cajun Electric Power Cooperative. Inc. Date 30 June 1977 |
| , | | Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH | | UNDISTURBED SAMPLE STANDARD PENETRALION TEST BORING DEPTH 10 Feet |
| | | ~ Stiff tan and gray clay • |
| | | Stiff tan and gray clay with silt lenses |
| Ę | | Stiff tan and gray clay with silt lenses |
| | | Stiff tan and gray clay |
| 10 | | Medium tan and gray slightly silty clay |
| | | |
| - | | Boring 290 |
| | | Boring Depth <u>10 feet</u> |
| | | |
| | | |
| | | Stiff tan and gray clay |
| | | Medium tan and gray very silty clay |
| - 5 | | Medium tan and gray clay with silt pockets |
| an anananan ita | | Loose tan and gray silt with sand traces |
| 10 | | Loose tan silt with sand traces |
| | | |
| - | | Boring 291 |
| | | Boring Depth 10 feet |
| | | |
| | | |
| - 0 | | Stiff tan and gray clay with silt traces and roots |
| ···· | | Stiff tan and gray silty clay |
| _ 5 | | Loose tan and gray slightly clayey silt |
| | | Loose tan and gray silt |
| - 10 | | Loose tan and gray clayey silt |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FE95105

| Image: Sector Construction Inc. | | | LOG OF BORING | |
|--|------|---------------|--|-------------|
| rew Cajun Electric Power Cooperative. Inc. and 29 June 1: Bovay Engineers, Inc., Burns and Roe, Inc. and 29 June 1: Image: State of the second se | | PPC. | Cajun Electric Power Cooperative, Inc. New Roads, Louisjana | |
| Industriated samul Industriate Indust | | FOR | Cajun Electric Power Cooperative, Inc | e 197 CN |
| Stiff tan and gray clay with roots Stiff tan and gray silt with clay traces Loose tan and gray silt with clay traces Loose tan and gray silt silty clay Boring 293 Boring Depth 10 feet 0 Stiff dark gray clay with roots Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray slightly clayey silt 10 0 Very stiff tan and gray clay with roots Stiff tan and gray clay with silt traces Loose tan and gray slit with clay traces Loose tan and gray silt with clay traces Loose tan and gray silt | | DEPTH DEFT | STANDARD PENETHAT ON TEST BORING DEPTH 10 Feet | |
| Stiff tan and gray clay 5 Loose tan and gray silt 10 10 10 10 10 10 10 10 10 10 10 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 15 16 17 18 19 10 10 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13 14 < | | - | Stiff tan and gray clay with roots | |
| Loose tan and gray silt with clay traces Loose tan and gray silt Soft tan and gray slightly silty clay Boring 293 Boring Depth 10 feet O Stiff dark gray clay with roots Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray slightly clayey silt Boring Oepth 10 feet Boring Oepth 10 feet O Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Loose tan and gray silt with clay traces Loose tan and gray silt | | | Stiff tan and gray clay | |
| Loose tan and gray silt Soft tan and gray slightly silty clay Boring 293 Boring Depth 10 feet 0 Stiff dark gray clay with roots Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray slightly clayey silt 10 Boring Depth 10 feet Boring Depth 10 feet 0 Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Soft tan and gray silt with clay traces Loose tan and gray silt | | 5 | Loose tan and gray silt with clay traces | |
| 10 Soft tan and gray slightly silty clay 0 Boring 293 Boring Depth 10 feet 0 Stiff dark gray clay with roots 5 Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray silt 10 0 0 Very stiff tan and gray clay with roots 5 Stiff tan and gray clay with roots 5 5 0 | | - | Loose tan and gray silt | |
| Boring 293 Boring Depth <u>10 feet</u> 0 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | - 10 | Soft tan and gray slightly silty clay | |
| Boring 293 Boring Depth <u>10 feet</u> 0 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | l. | ·· | | *- |
| Boring Depth 10 feet 0 Stiff dark gray clay with roots Stiff gray clay 5 Medium tan and gray clay with silt traces Loose tan and gray silt 10 Boring 294 Boring 0epth 10 feet 0 Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with roots 5 5 10 Very stiff tan and gray clay with roots 5 5 5 10 10 10 11 12 13 14 15 16 10 | | | Boring 293 | |
| 0 Stiff dark gray clay with roots 5 Medium tan and gray clay with silt traces Loose tan and gray silt Loose tan and gray slightly clayey silt 10 Boring 294 Boring Depth 10 feet 0 Very stiff tan and gray clay with roots 5 Soft tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | | Boring Depth 10 feet | |
| O Stiff dark gray clay with roots Stiff gray clay 5 Medium tan and gray clay with silt traces Loose tan and gray slightly clayey silt 10 Boring Depth <u>10 feet</u> O Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | · · · | | |
| Stiff dark gray clay with roots Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray silt Loose tan and gray slightly clayey silt Boring <u>294</u> Boring Oepth <u>10 feet</u> Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | - | | | |
| Stiff gray clay Medium tan and gray clay with silt traces Loose tan and gray silt Loose tan and gray slightly clayey silt Boring <u>294</u> Boring <u>0epth</u> <u>10 feet</u> Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | ~ | Stiff dark gray clay with roots | |
| Medium tan and gray clay with silt traces Loose tan and gray silt Loose tan and gray slightly clayey silt Boring Depth <u>10 feet</u> O Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | | Stiff gray clay | |
| Loose tan and gray silt Loose tan and gray slightly clayey silt Boring <u>294</u> Boring Oepth <u>10 feet</u> O Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | - | - 5 | Medium tan and grav clay with silt traces | |
| Loose tan and gray slightly clayey silt Boring 294 Boring Depth 10 feet 0 Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | - | Loose tan and grav silt | |
| Boring 294 Boring Depth 10 feet Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces | · _ | | LOOSE tan and gray slightly claver silt | . * |
| Boring 294 Boring Depth 10 feet Very stiff tan and gray clay with roots Stiff tan and gray clay with roots Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | 10 | Loose can and gray stranciy clayey stru | |
| Boring Depth <u>10 feet</u> O Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | · · · | Boring 294 | |
| Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | | Boring Depth 10 feet | |
| - 0 Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | E | | | |
| Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces Loose tan and gray silt | | | | |
| Very stiff tan and gray clay with roots Stiff tan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces 10 Loose tan and gray silt | - | 0 | | |
| Stiff fan and gray clay with roots 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces 10 Loose tan and gray silt | · | | Very stiff tan and gray clay with roots | |
| 5 Soft tan and gray clay with silt traces Loose tan and gray silt with clay traces | - | | Stiff tan and gray clay with roots | |
| Loose tan and gray silt with clay traces | | 5 | Soft tan and gray clay with silt traces | , ~ |
| Loose tan and gray silt | - | | Loose tan and gray silt with clay traces | |
| | | 10 | Loose tan and gray silt | |

.

| F ≈ c. , F | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | | esein 295 |
|-------------------|---|----------------------------|-------------------|
| Fig | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe. | Inc. | CATE 29 June 1977 |
| L DEPTH O FEET | UNDISTURBED SAMPLE | ATION TEST BORING DEP | -+ 10 feet |
| | . Stiff tan and gray clay with silt trad | ces | |
| • | Firm tan and gray clayey silt | | - |
| 5 | Loose tan and gray silt | | |
| | Soft tan and gray clay with silt trace | 25 | |
| 10 | Soft tan and gray slightly silty clay | | |
| | | | |
| | | Boring 295 | |
| | l | Boring Depth <u>10 fee</u> | t |
| · . | | • | |
| 0 | Very stiff tan and gray clay with root | | |
| - | Stiff tan and gray clay with silt trac | | |
| _ | Firm tan and gray clavey silt | | |
| ົ 5 | Loose tan and gray silt with clay trac | 65 | - |
| · • | Loose tan and gray silt with clay trac | es | |
| 10 | , , , , , , , , , , , , , , , , , , , | | |
| ···· ··· ··· | | Boring 207 | |
| ·· ··· | · • | Boring Depth 10 fee | t |
| | | 7 | · · · |
| | | | |
| - 0 | Very stiff gray clay with root traces | | - |
| | Very stiff tan and gray clay with silt | traces | |
| - 5 | Firm tan and gray silt | | |
| | Loose tan and gray silt with clay trace | 25 | |
| · · · · | Loose tan and gray silt | | |
| 10 | | • | |

.

LOG OF BORING

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FF18125

| | · . | LOG OF BORING |
|---|---|---|
| | PROJECT FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN CCN |
| | Digeth C C FET SAMPLES | NOIS: RBED SAMPLE STANDARC PENETRATION TEST BORING DEPTH 10 feet Stiff gray clay with roots Stiff tan and gray clay with silt pockets Medium tan and gray clay with silt traces Medium tan and gray clay with silt traces |
| | | Very loose tan and gray silt |
| | | Boring 299 Boring Depth 10 feet |
| | - · · · · · · · · · · · · · · · · · · · | |
| | • | Loose tan and gray clayey silt |
| | | Loose tan and gray silt |
| | | Loose tan and gray silt |
| | 10 | Loose tan and gray silt |
| | - IU | |
| • | · // mm · m · m | Boring 300 Boring Depth 10 feet |
| | 0 | |
| | | Stiff tan and gray clay |
| | · · · · · · · · · · · · · · · · · · · | Soft tan and gray very silty clay |
| ļ | - 5 - | Loose tan and gray silt with clay traces |
| | * | Loose tan and gray clayey silt |
| L | 10 | Loose tan and gray silt with clay traces |

PH18125

| PROJE | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana |
|---------------------------------------|--|
| FOR | Cajun Electric Power Cooperative, Inc. Date 28 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH O FEET | STANDARD PENETRATION TEST BOWING DEPTH 10 feet |
| • · • · · · | . Stiff tan and gray clay with silt and root traces |
| | Loose tan and gray silt with clay traces |
| 5 | Loose tan and gray silt with clay traces |
| - | Loose tan and gray silt |
| 10 | Loose tan and gray silt |
| | |
| · · · · · | Boring <u>302</u> Boring Depth <u>10 feet</u> |
| - " | |
| - | |
| - U - | Loose tan and gray slightly clayey silt with roots |
| | .Loose tan and gray silt with clay traces |
| - 5 - | Loose tan and gray silt |
| | Loose tan and gray silt with clay traces |
| - 10 - | Loose tan and gray silt |
| · · · · · · · · · · · · · · · · · · · | |
| | Boring <u>303</u> |
| | . Boring Depth <u>10 feet</u> |
| 0 | |
| | Stiff tan and gray clay |
| | Firm tan and gray clayey silt with root traces |
| - 5 | Loose tan and gray silt |
| | Loose tan and gray silt |

÷

10

Loose tan and gray silt

FE18125

| PROJECT | Cajun Electric Power Cooperative, Inc. 304 New Roads, Louisiana 74-30 |
|--------------------------|--|
| FOR | Cajun Electric Power Cooperative, Inc. Date 29 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. Technican CCN |
| DLPTH FEET SAMPLES | MENSIGNES SAMPLE STANDARD PENETRATION TEST BORING DEPTH' 10 Feet |
| | Very stiff tan and gray clay . |
| | Firm tan and gray slightly clayey silt |
| 5 | Medium tan and gray silty clay |
| | Medium tan and gray clay with silt traces |
| 10 | Soft tan and gray very silty clay |
| | |
| | Boring <u>305</u> |
| | |
| | |
| | |
| | Stiff tan and gray slightly silty clay with roots |
| | Loose tan and gray silt |
| · 5 · | Loose tan and gray silt |
| | Loose tan and gray silt with clay traces |
| - 10 - | Loose tan and gray silt |
| | |
| · · · | Boring <u>306</u> |
| | Boring Depth 10 feet |
| ···· | |
| 0 | |
| | Stiff tan and gray silty clay with wood traces |
| | Medium tan and gray slightly silty clay |
| 5 - | Firm tan and gray clayey silt |
| | Loose tan and gray silt with clay traces |
| 10 | Loose tan and gray silt - |
| | |

1216125

er historie

| PHOJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | 307 307 307 |
|--|--|----------------|
| FOR | Cajun Electric Power Cooperative, Inc. | 29 June |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNIC AN CC |
| IL W | | |
| DLPT DLPT SAMPL | NDISTURBED SAMPLE STANLARD PENFTRATION TEST BORIN | оренты 10 feet |
| | Very stiff tan and gray clay with silt lenses | |
| · · · · · · · · · · · · · · · · · · · | Stiff tan and gray slightly silty clay | |
| - 5 | Loose tan and gray slightly clayey silt | |
| | Loose tan and gray slightly clavey silt | |
| 10 | Loose tan and gray silt | |
| | | |
| | • | • |
| | | |
| ·· · · · | | |
| | | |
| • • • • • • | | • |
| | | |
| | | |
| - | | |
| | | |
| · · · · · | | |
| r. | | |
| | | |
| | | |
| - 1 | • . | |
| ······································ | | |
| | | |
| | | |
| · ···································· | | |
| · · · · · · · · · · · · · · · · · · · | | × |
| | | |
| | | |
| - | | |
| | | |

PP14125

| PROJECT | Cajun Electric Power Cooperative, Inc. | 8(| DRING 305 | <u>،</u> |
|-----------|--|---------------|----------------------------|-------------|
| FOR | Cajun Electric Power Cooperative, Inc. Boyay Engineers, Inc., Burns and Roe, Inc. | ، ۴ م ۲ | te 1 June. Rehnician II | 1977 ILT |
| | | | | |
| DEPTH | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORI | NG DEPTH | 10 feet | |
| | Stiff dark gray clay with silt traces and roots | | | |
| | Medium gray clay with silt traces | | | |
| 5 | Medium gray slightly silty clay | | · . | |
| | Medium gray clay with silt traces | | | |
| - 10 | Loose gray clayey silt | | | |
| | | | | |
| | Boring | 806 | | |
| | Soring Depth | <u>TU Tee</u> | <u>.</u> | - |
| | | | | |
| ····· | | • | • | • |
| - 0 | | | | ` q |
| | Stiff gray clay with silt traces | | | |
| | Stiff gray clay with silt traces | | | ~ |
| | Soft gray very silty clay | | | |
| | Soft gray very silty clay | | | |
| -10 | Loose gray silt with 2 inch silty clay layer | | | |
| | | | | |
| • · · · · | Boring Booth | <u>807</u> | | 1 |
| | bornig bepci | | | |
| | | | | |
| | | | | - |
| 0 | Stiff gray clay with silt traces and pockets | | | |
| · ····· | Still gray thay with site traces and pockets | • | | |
| · | Stiff gray very silty clay | · | | - |
| | Firm gray silty sand | | | |
| | Loose gray clayey silt | | | |
| - 10 - | Loose gray sandy silt with clay traces | | | |
| | | | | |

.

| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | BORING 308 | |
|---|--|------------|-------------|
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNICIAN | 1977 NLT |
| DEPTH O FEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPT | 1 10 feet | |
| | Stiff gray clay with silt traces | , | |
| | . Medium gray silty clay with silt pockets | | |
| 5 | Firm gray sandy silt . | | |
| | Firm gray sandy silt | 4 | |
| - 10 | Firm gray clayey silt | | ~- |
| | | | |
| | Boring 809 | | |
| | Boring Depth 10 feet | | |
| | | | |
| - 0 | | • | |
| | Stiff gray clay with root traces | | |
| | Stiff tan and gray slightly silty clay | · | |
| - 5 - | Loose gray silt | | |
| | Loose tan and gray slightly clayey silt | • | |
| -10 | Loose tan and gray slightly clayey silt | | |
| | | | |
| | Boring 810 | | |
| - • • • • • • • • • • • • • • • • • • • | Boring Depth 10 feet | - | |
| | | | |
| 0 | | • • | _ |
| | Stiff gray clay with ferrous and organic traces and roots | | |
| | Stiff tan and gray clay with ferrous and organic traces and | roots | |
| 5 | Stiff tan and gray clay with organic traces and roots | | |
| | Soft gray very silty clay with roots and ferrous traces | | |
| 10 | Soft gray silty clay with ferrous and organic traces | | |

1

 \bigcirc

0

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Pr 18125

| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | HEININ 811 |
|---------------------------------------|--|------------------|
| FOR | Cajun Electric Power Cooperative, Inc. | DATE 26 June 197 |
| ļ | Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNIC.AN UGIN |
| D DEPTH D FEET SAMPLES | INDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPT | H |
| | Medium gray clay with roots | • • |
| | Medium tan and gray clay | |
| | Medium tan and gray clay with silt traces | |
| - | Medium tan and gray clay with silt pockets | |
| _10 | Very loose gray clayey silt with clay traces | |
| | | |
| н | Boring 812 | |
| | Boring Depth 10 feet | • |
| | | |
| | | |
| | | |
| | | |
| • • • • • | Medium gray silty clay with silt traces and roots | |
| | Medium tan and gray clay with roots | <i>,</i> |
| 5 | Soft tan and gray clay with silt traces Loose tan and gray clayey silt with roots | |
| | Loose gray clayey silt | - |
| | Very loose gray clayey silt with clay pockets and 2^{I_2} inch m | edium gray 📫 |
| - 10 | clay layer on bottom | |
| | | |
| | | · |
| - F | | |
| | | |
| · · · · · · · · · · · · · · · · · · · | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PP18125

a

LOG OF BORING

Cajun Electric Power Cooperative, Inc. PROJECT BORING 814 New Roads, Louisiana FILE 74-30 Cajun Electric Power Cooperative, Inc. DATE 9. June 1977 FOR TECHNICIAN DPS Bovay Engineers, Inc., Burns and Roe, Inc. PEET P X UNDISTURGED SAMPLE STANDARD PENETRATION TEST 10 feet BORING DEPTH 0 Stiff gray clay with organic matter and roots Stiff gray clay Stiff gray clay 5 Loose gray silt Loose gray clayey silt Loose gray clayey silt with clay traces Medium gray slightly silty clay 10 Boring 3.15 Boring Depth 10 feet 0 Stiff gray clay with roots Very stiff gray slightly silty clay 5 Loose gray slightly clayey silt Loose gray clayey silt Loose gray sandy silt 10 Boring 816 Boring Depth 10 feet 0 Very stiff gray clay with roots Loose gray clayey silt 5 Loose gray clayey silt Loose gray clayey silt 10 Firm gray very silty clay FF18125

LOG OF BORING

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| PROJECT FOR: | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN | 617 0 une 1977 DPS |
|--|--|-----------------------------|
| D DEPTH D FEET RAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FE | et |
| | Stiff gray clay | ~ |
| | Stiff gray clay | |
| 5 | Medium gray slightly silty clay with organic traces | |
| анана) 1910 - Параланана 1910 - Параланананананананананана | Medium gray slightly silty clay | |
| 10 | Loose gray silt | - |
| | | |
| | | |
| ÷ | | - |
| | | |
| | | |
| - | | • |
| | | |
| | | |
| ······ | | |
| | , | • |
| · · · | | • |
| | | |
| | | |
| | | |
| ····· | | |
| | | - |
| | | |
| | • | |
| | | |
| | | |
| | • • • • | |
| | | **** |

| · | | | ~ |
|-------------|---|--|-----------------|
| PROJECT | Cajun Electric Power Cooperative, Ir New Roads, Louisiana | 1C. | BCRING 4819 |
| 608 | Cajún Electric Power Cooperative Ir | 1C | FILE 74-50 |
| FUR | Boyay Engineers, Inc., Burns and Roe | e. Inc. | FEGHNIC AN |
| · · | | •••••••••••••••••••••••••••••••••••••• | |
| EET FEET | | | |
| | MADISTURBED GAMPLE | ETRATION TEST BORING DE | ₩TH 35½ |
| | Stiff brown clay with roots | | |
| | Soft tan and gray silty clay | | |
| 5 | Firm tan and gray clayey silt | | |
| - | Firm tan and gray silt with clay tra | ces | |
| - 10 | Very loose tan clayey silt with clay | traces and 1 inch cla | ay layer |
| X | Penetration Resistance | 2 blows per foot (| (1/1/1) |
| | Loose tan and gray slightly clayey s | ilt. | . 1 / 1 / 1 / |
| | Loose tan and only silt with clay th | | |
| - 15 | silty clay layer | aces and 5 then sand i | ayer and 4 Inci |
| X | Loose tan sand with silt traces | | |
| | Penetration Resistance | 4 blows per foot (| 1/2/2) |
| - 20 | Firm, can slightly sandy slit with 1/, | clay layer » | · • |
| | Firm tan silt with clay traces | | |
| V | Firm tan sand | | |
| 4 | Penetration resistance | 11 blows per foot (| 2/4/7) |
| - 25 | Firm tan silt with sand and clay trac | es | |
| | Firm brown sand with 1/4 inch gray si | llt laver | |
| · · · · / M | Firm tan silty sand with clay traces | - , - | |
| 30 | Penetration resistance | 21 blows per foot (| 4/7/14) |
| X | Firm gray sand | 20 hla | c (22 (23 - 1) |
| M | Dense gray sand with organic traces | 28 blows per toot (| 6/11/17) |
| | Penetration Resistance | 44 blows per foot (| 13/20/24) |
| -35 - 1 | Very dense gray sand with organic tra Penetration Resistance | ces _25_blows_mer_6_inche | s (10/25) |
| | | | ********* |
| | | | |
| | | | |
| ··· · ··· | | | |
| | | | |
| | | | |
| | an an tha an | | |
| | | | |
| | | | |
| | en e | | |
| | · · · · · · · · · · · · · · · · · · · | | |

Geotechnical Engineers

| LOG OF BORING | | | |
|---|---|---|--|
| -Rüvett | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BOPING 819 FILE 74-30 DATE 3 JUNE 197 TECHNICIAN CCN | |
| LEPTH FEET | UNDISTURBED SAMPLE STANDARD-PENETRATION TEST BUREN | G Сертн 3] у | |
| | Stiff tan and light gray clay with silt pockets and tr | aces | |
| · · · · | Stiff tan and gray slightly silty clay | , | |
| 5 | Medium tan and grav silty clay with silt layers | | |
| | Lease the first of the interview of the | | |
| - | LOOSE tan fine sandy silt with 1/4 inch silty clay lay | er | |
| - 10 X | Loose tan slightly clayey silt Loose tan slightly clayey silt Penetration Resistance 4 blows per foot | (1/1/3) | |
| - <u>-</u> | Soft gray silty clay with silt layers | | |
| . 15 X | Loose tan silt with sand traces Firm tan sandy silt Penetration Resistance 15 blows per foo | t = (1/6/9) | |
| - 20 | Firm tan silt with ferrous traces and clay pockets | · · · · · | |
| X | Firm tan sandy silt with ferrous traces Firm tan sandy silt Penetration Resistance 14 blows per foot | t (4/6/8) | |
| - 25 | Firm tan and gray sandy silt | · · · · · · · · · · · · · · · · · · · | |
| | Firm gray sandy silt with organic traces | • | |
| 30 | Dense gray sand Penetration Resistance 40 blows per foot | t (11/21/19) * | |
| X | Dense gray sand Penetration Resistance 38 blows per foot | : (12/2 0/18) | |
| • · · · · · · · · · · · · · · · · · · · | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| L | | | |

| | LUG OF BORING |
|---------------------------------------|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Onio File Day Compating Law 107 |
| FOR | Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH DEPTH SAMPLES | STANDARD PENETRATION TEST BORING DEPTH 3712 |
| - U - | Medium gray clay with ferrous, wood and organic traces and roots |
| 5 | Stiff tan clay with ferrous and organic traces and silt pockets Medium tan and gray slightly silty clay with silt, ferrous and organic traces and silt pockets |
| | Medium tan clay with silt traces |
| - | Loose tan clayey silt with gray clay pockets |
| | Loose tan clayey silt with clay traces |
| | Soft tan silty clay with organic and ferrous traces and silt layers |
| 15 | Firm brown and gray slightly clayey silt with clay and organic traces |
| · · · · · · · · · · · · · · · · · · · | Firm tan and gray slightly sandy silt with 3 inch clay layer Firm tan slightly sandy silt Penetration Resistance 18 blows per foot (5/8/10) * |
| - 20 | Firm tan sandy silt 6 inch Push refusa] Firm gray sandy silt |
| - 25 | Penetration Resistance 15 blows per foot (4/7/8) Firm gray sand with 1/8 inch clay layer |
| | Firm gray sandy silt with clay traces |
| 30 X | Firm gray sandy silt with organic traces Penetration Resistance 15 blows per foot (4/5/10) |
| X | Loose gray sand Firm gray sand Penetration Resistance -19 blows per foot (5/8/11) |
| - 35 🔀 | Dense gray sand Penetration Resistance |
| X | Dense gray sand Pepetration Resistance 37 blows per foot (15/17/20) |
| | |
| - 40- | |
| · | |
| | |
| · · · · · · · | |
| · | |

,

C

r. 59

.

.

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FF18125

.

•

| | LOG OF BORING |
|--------------------------|--|
| PHOLECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. |
| | Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH DEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 4312 |
| · • • • • • • | Medium tan and gray clay with silt traces and pockets |
| | Stiff light gray clay with organic matter and roots |
| 5 | Stiff tan and gray clay with gray slightly silty clay layer |
| - | Soft brown slightly silty clay with silt traces and pockets |
| 10 - | Stiff tan clay with silt traces and 4 inch silt and sand layer on bottom |
| | Firm brown slightly clayey silt with 1 inch slightly silt layer |
| 15 | Loose tan and gray silt Loose tan silt with clay traces at top Penetration Resistance 4 blows per foot (1/2/2) |
| | Loose brown slightly clayey silt with sand traces |
| 20 | Loose tan and gray sandy clayey silt with sand traces and clay pockets loose tan and gray silt Penetration Resistance 9 blows per foot (3/3/6) |
| | Loose gray sand with silt traces |
| 25 | Loose tan and gray slightly silty sand |
| —М | Firm gray sand Penetration Resistance 15 blows per foot (2/6/9) |
| 30 | Very dense gray sand with 2 inch slightly sandy clay layer and organic * sand traces |
| | Firm gray sand |
| | Firm tan and gray sand Penetration Resistance 11 blows.per foot (4/5/6) |
| 35 | Very dense gray sand with 1 inch tan clay streak and 4 inch clay Tayer |
| <u>—</u> И | Firm gray sand Penetration Resistance 14 blows per foot (6/7/7) |
| | Firm gray sand with organic matter and gray clay in middle Penetration Resistance 28 blows per foot |
| <u><u></u></u> | Dense gray sand with organic matter Penetration Resistance 4 blows per foot (7/21/20) |
| Щ. | Dense gray sand with organic matter Fenetration Resistance 32 blows per foot (10/15/17) |
| | |
| | |
| 41 | |

<u>_</u>

Ċ

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP18125

•

Ċ

-0

Ċ

Ċ.

Ċ

Ċ

| | PROJFC* | Cajun Electric Power (New Roads, Louisiana | Cooperative, Inc. | BORING -822 |
|---------|-----------------------------------|--|---|--------------------------------|
| | EC# | Caiun Electric Power (| Cooperative. Inc. | оце — 74+30 Бытев June 1977 |
| | | Bovay Engineers, Inc. | , Burns and Roe, Inc. | FECHNICIAN DPS |
| G | DEPTH DEPTH FEET SAMPLES | J-DISTURBED SAMPLE | STANDARD PENETRATION TEST | BORING DEPTH 412 |
| - | | Stiff tan and gray clay | with root traces | |
| U . | · | Stiff tan and gray slig Loose tan and light gra pockets | htly silty clay y slightly clayey silt wit | th silt lenses and silt |
| Ċ | | sort tan and gray clay | with silt lenses and roots | |
| | - 10 | Loose tan silt | | |
| | | Loose tan and gray clay Loose tan clayey silt w Penetration Resistance | ey silt ith 1 inch sand layer and 2 blows per foot | ferrous traces (1/1/1) |
| Ú. | | Loose gray slightly cla | yey silt with clay traces | |
| | 20 | Firm gray silt Loose gray silt Pehetration Resistance | 10 blows per foot | (3/5/5) |
| - | · · · · | loose gray silt with l | inch clay layer and $\frac{1}{4}$ inch | silt layers and lenses |
| | - 25 | Loose gray slightly sand Loose gray silt Penetration Resistance | dy silt | (2/2/3) |
| - | | firm gray sand with l_2 | inch gray clay layer and c | lay pockets & inch silt |
| | 30 | Tenetration Resistance | 12 blows per foot | (1/4/8) |
| | · · · · · · · · | firm gray sand with ½ in | nch clay pockets and 3/4 in | nch gray silt layers |
| | F | irm gray sand with clay | races · | |
| | | irm tan and gray sand w irm gray sand with 2 ir Penetration Resistance | ith ¼ inch gray clay strea nch clay layer in middle 16 blows per foot | iks (5/6/10) |
| , | | ense gray sand enetration Resistance | 40 blows per foot | (12/19/21) |
| : | | ense gray sand enetration Resistance | 33 blows per foot | (6/16/17) |
| | | | | • |
| | 1 | | | |
| | v | | · · · · | |
| | ~~ | | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

**18125

| ₽¥0,25 ₹ | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | 50400 |
|--------------------------|--|-----------------|
| FOH | Cajun Electríc Power Cooperative, Inc. | JATE7 June 197 |
| | Bovav Engineers, Inc., Burns and Roe, Inc. | TECH: CIAN NL 1 |
| LEPTH LEFT SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING | DEPTH 4512 |
| | Stiff tan clay with root traces and silt traces | |
| на же на на на | Soft tan silty clay with silt pockets | • |
| 5 | Soft tan and gray slightly silty clay with silt pockets | |
| - | Loose tan clayey silt with clay pockets | |
| - 10 - | Very soft tan very silty clay | |
| ······ | Loose tan clayey silt | |
| | Medium tan and gray clay with $2\frac{1}{2}$ inches silt layer | |
| - 15 | Firm gray clayey silt with 12 inch layer of gray very si | lty clay |
| 20 | Firm gray silty clayey sand Very soft gray silty clay Penetration Resistance 2 blows per foot | (1/1/1) |
| | Firm gray slightly clayey silt | |
| 25 | Firm gray clayey silt Firm gray silty sand with 5 inch silty clay Penetration Resistance 12 blows per foot | • (1/3/9) |
| | Firm gray slightly clayey silt with 1 inch clay layer | • • • • • • • |
| | Soft gray clay with sand pockets and layers | |
| - <u>* A</u> | Light gray sand Penetration Resistance 7 blows per foot | (2/2/5) |
| | Firm gray sand with silt traces | |
| 35 | Firm gray sand Penetration Resistance 19 blows per foot | (5/9/10) • |
| | Medium gray clay with 3 inch silt layer and silt traces Firm gray sand with 2 inch clay layer in middle | (10/11/12) |
| 40 | Firm gray sand | |
| -H | Penetration Resistance 28 blows per foot Dense gray sand | (12/14/14) |
| | Penetration Resistance 33 blows per foot Dense gray sand | (9/+1/22) |
| - 45 | Penetration Resistance 32 blows per foot | (8/14/18) |
| · · · · · · | 15 | · |
| | ι». | • |

 \mathcal{C}

(

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP14126

w,

| PROJECT | Cajun Electric Power Cooperative, Inc. 824 |
|---------------------------|---|
| | New Roads, Louisiana 74-30 |
| FGR | Cajun Electric Power Cooperative, Inc. |
| | Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH DEPTH SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 412 |
| | Very stiff tan and gray clay with silt traces with roots |
| | Stiff tan and gray clay with silt traces |
| 5 | Medium tan and gray silty clay with silt pockets |
| | Firm tan and gray clayey silt with clay pockets |
| | Very soft tan very silty clay with 1 inch layer of tan and light gray clay |
| | Very soft tan very silty clay |
| | Loose brown slightly clayey silt |
| 15 | <pre>wLoose gray slightly clayey silt . Penetration Resistance</pre> |
| - 20 | Sample fell out of barrel Very loose gray silt Penetration Resistance - 5 blows per foot (1/3/2) |
| | Firm gray silt with 4 inch clay layer |
| - 25 | Firm gray sandy silt with clay pockets Firm gray slightly sandy silt Penetration Resistance 21 blows per foot (6/8/13) Medium gray silty clay with 4 inch silt layer |
| | Firm gray silt with 1 inch layer of soft gray slightly sandy clay |
| 30 | Soft gray slightly silty clay with 1/2 inch silt layer . |
| | Loose gray silt |
| 35 | Medium gray clay with silt pockets and very soft gray very silty clay . upper 8 inches of sample Stiff gray silty clay with 4 inch layer silt |
| | Penetration resistance 12 blows per foot (3/4/8) Very stiff gray sand |
| | Penetration Resistance 31 blows per foot (8/14/17) |
| <u>– А</u> | Cepetration_Besistance38_blows_per_foot_(16/17/21) |
| | |
| | |
| | |
| | • |
|] [] | |

r+11125

| | | LOG OF BORING | |
|------------|---------|--|--|
| ()) | PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | 60=825 File . 74-30 DATE 6 June 1977 TECHNICIAN ССР |
| 0 | DEPTH | JNDISTLABED SAMPLE STANDARD PENETRATION TEST BORING DEPTH | 4 41 ¹ 2 |
| :. | 0 | Stiff brown and gray clay with silt pockets and grass roots | |
| C | | Stiff tan and gray clay with silt traces and grass roots | |
| | 5 | Soft tan silty clay with 5 inches of very silty clay layer | |
| | | Soft tan clay with 4 inch silt layer | |
| C | - 10 - | Very loose brown silt with clay pockets | |
| | · X | Firm gray sand Penetration Resistance 2 blows per foot | (1/1/1) |
| | | Loose tan silt with 2 inch silty clay layer and 1/4 inch sandy | / layer |
| | 15 | Firm gray silt with clay lenses | |
| | | Loose gray clayey sand Penetration Resistance 2 blows per foot | (1/1/1) |
| 5 | - 20 | Soft gray very silty clay with silt pockets | |
| 1. | | Firm gray silt with clay traces | |
| | X | Firm gray clayey sand Penetration Resistance 10 blows per foot | (4/4/6) |
| | - 25 | Firm gray silt with clay traces and organic matter | |
| C | | Firm gray silt with organic and clay lenses | |
| | - 30 | Penetration Resistance 18 blows per foot | (5/10/8) - |
| | | Firm gray sand with 4 inch clay layer | |
| - | | Firm gray clayey sand with 4 inch sand clay layer | |
| | - 35 X | Penetration Resistance 23 blows per foot | (5/9/14) - |
| | | Medium gray clay with 1 inch silt layer and 4 inch sand laye | er |
| ~ | X | Dense gray sand Penetration Resistance 40 blows per foot | (11/18/22) |
| | - 40 X | Very dense gray sand Penetration Resistance41_blows_per_foot | |
| | | | |
| · . | | | - 100 |
| \bigcirc | | | |
| | | | |
| | | | |

L

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP19125
| | | and the second se |
|-------------------|---|---|
| PRCJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana | BCRINC 826 |
| FOR | Cajun Electric Power Cooperative, Inc. | DATE 2 June 197 |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNICIAN CE TO |
| D LEET SAMPLES | UNDISTURBED SAMPLE STANCARD PENETRATION TEST BORING DE | ртн 49 ¹ 2 |
| | Very stiff tan and gray clay with root traces | |
| | Stiff tan and light gray clay with organic traces | |
| 5 | Medium tan and gray silty clay with silt pockets | |
| | Firm tan and gray clayey silt with clay pockets | |
| - 10 | Firm brown and gray clayey silt | |
| | Ist 12 inches soft tan and gray slightly silty clay - 2n brown and gray clayey silt Soft tan clay with ferrous traces | d IZ inches 100 |
| 15 X | Medium gray slightly silty clay Penetration Resistance 4 blows per foot | (1/2/2) |
| | Firm gray silt with organic lenses | |
| 20 | Firm gray clayey silt-with organic traces Stiff gray clay with T/2 inch sand layer Penetration Resistance I4 blows per foot | (4/8/6) |
| | Medium gray clay with-sand traces | |
| - 25 | Firm gray silt with 8 inch sand layer and 1/8 inch clay Firm gray sand with 1 inch clay layer Penetration resistance: 15 blows per foot | layers (5/7/8) |
| | Firm gray sand with clay traces | |
| 30 X | Firm gray sand with clay layers Firm gray sand with 3 inch clay layer Penetration resistance 11, blows per foot | (4/3/8) |
| -35 - | Firm gray sand with clay traces | • |
| X | Firm gray sand with 4 inch clay layer Very stiff gray clay with 2 inch sand layer Penetration resistance 25 blows per foot | (5/8/17) |
| -40 | Stiff gray clay with 1/2 inch sand layer Penetration resistance 11 blows per foot | (5/4/7) |
| | Medium gray clay with silt layer and lenses | • |
| -45 | Firm gray sand with 2 inch organic sand and clay pockets | |
| X | Dense gray sand Repetration resistance 30 blows per foot (| 18/6/12/18) |

Geotechnical Engineers

| | LOG OF BORING |
|---------|---|
| PROJECT | Cajun Electric Power Cooperative, Inc. 827 New Roads, Louisiana 74-30 |
| FOR | Cajun Electric Power Cooperative, Inc. DATE June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. |
| DEPTH | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 41 |
| | Very stiff dark gray clay with root traces Medium gray and brown clay with organic traces |
| 5 | Medium tan and light gray clay with silt streaks and pockets |
| | Soft brown and gray clay with silt and organic traces |
| - 10 - | Soft tan and gray slightly silty clay |
| | traces Soft gray clay with silt traces |
| 15 | Soft gray clay Penetration resistance .2 blows per foot (1/1/1) |
| | Soft gray slightly silty clay with 4 inch gray silty sand layer |
| 20 | Loose gray clayey silt Penetration resistance 5 blows per foot (2/2/3) |
| | Soft gray clay with silt traces and 4 inch gray sand layer |
| 25 - X | Firm gray sand with organic traces Firm gray sand with clay and organic traces Penetration resistance 15 blows per foot (3/6/9) |
| 30 | Firm gray sand with 2 inch silt layer and clay traces Firm gray sand with 2 and 3 inch clay layers |
| X | Firm gray sand with 6 inch clay layer Penetration resistance 21 blows per foot (4/6/15) |
| 35 | 8 inch loose gray sand, 16 inch medium gray clay |
| 40 X | Dense gray sand Penetration resistance 35 blows per foot (3/16/19) Very dense gray sand Denetration resistance 50 blows per foot (10/25) |
| | |
| | |
| | |

5

...

() ...()

LOUIS J. CAPOZZOLI & ASSOCIATES, INC. Geotechnical Engineers

| PROJECT | Cajun Electric Power Cooperative, Inc. BORING - 820 New Roads, Louisiana |
|--------------------------|---|
| FOR | Cajun Electric Power Cooperative, Inc. DATE 1 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN CCN |
| UEPTH FEFT SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 451, feet |
| | Stiff dark tan and gray clay with organic traces and roots |
| | Medium tan and gray clay with silt traces |
| 5 | Medium brown and gray clay silt traces |
| | Very soft gray and tan clay with silt traces |
| . 10 | Loose tan and silt with clay traces |
| | Penetration resistance 3 blows per foot (1/1/2) |
| | Very loose tan and gray silt |
| 15 | Firm gray and clayey silt Soft gray silty clay |
| | Penetration resistance 3 blows per 1000 (1/2/1) |
| - 20 | Firm gray clayey silt with organic and silt traces |
| X | Loose gray silt with clay traces Very loose gray silt with organic traces Penetration resistance 2 blows per foot (1/1/1) |
| - 25 | Loose gray silt with clay traces |
| | Loose gray slightly clayey silt with organic traces |
| 30 | Loose gray silt with clay traces and 8 inch gray clay layer Penetration resistance 4 blows per foot (2/2/2) |
| - | Firm gray silt with clay traces |
| | Loose gray very clayey silt with 5 inch slightly sandy & silty clay layer |
| - 35 - | Penetration resistance 8 blows per foot (2/4/4) |
| | Soft gray slightly silty clay with 6 inch clay layer |
| - 40 | Firm gray clayey silt with 8 inch clay layer and clay traces |
| | Penetration resistance 25 blows per foot (10/13/12) Dense grav sand with 2 inch clay layer |
| AF | PeneTration resistance 35 blows per foot (12/19/16) Very dense gray sand with 5 inch clay layer |
| 45 14 | Penetration_resistance |
| | |
| | |

···(), · · ·

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| ſ | |
|-----------------|---|
| PROJEUT | Cajun Electric Power Cooperative, Inc. |
| | new Rudus, Luurstand File /4-30 |
| FOH | Lajun Electric Power Looperative, inc. |
| | Bovay Engineers, Inc., Burns and Roe, Inc. |
| EL S | |
| AMP FEE | M |
| | INDISTURBED SAMPLE VI STANDARD PENETRATION TEST CORING DEPTH 332 ICCL |
| • • • | 4 inch sample stiff brown clay with root traces |
| | |
| | Stiff tan and gray clay with slit lenses and streaks |
| ב | Medium brown and gray clay with organic and silt traces |
| | Soft brown and gray clay with organic traces and silt lenses |
| | |
| 10 | Loose brown and gray clayey silt |
| - 10 | Loose gray and brown silt with 12 inches soft brown and gray slightly |
| | silty clay with organic traces |
| | Penetration resistance 6 blows per foot (2/2/4) |
| 15 | |
| | Loose gray clayey silt with ferrous and organic traces |
| | Firm gray clayey silt |
| M | Loose gray silt |
| 20 | Penetration resistance 4 blows per foot (1/2/2) |
| ·· - | Loose grav slightly clavey silt " |
| - | |
| | Firm gray silt with clay layers |
| - 25 🕅 | Loose gray silt with sand traces Penetration resistance 7 blows per foot (2/3/4) |
| | Loose gray slightly rlayer silt with 1 inch clay layer |
| | Lusse gray strightly clayey still with i then clay layer |
| | Loose gray slightly clayey silt |
| ³⁰ M | Loose gray slightly clayey silt |
| | Penetration resistance 6 blows per toot (2/3/3) |
| • | Loose gray slightly clayey stilt with 2 inch clay layer |
| - 25 | |
| 30- | Loose gray clayey silt with sand traces |
| H | Penetration resistance 40 blows per foot (7/18/22) |
| | Very dense gray sand |
| 40 | Penetration resistance 25 blows per 6 inches (12/25) |
| - | |
| | |
| b | |
| | |
| | |
| | |
| | |

LOG OF BORING

0

| PROJECT | Cajun Electric Power Cooperative, Inc. BORING -330 |
|------------|---|
| | New Roads, Louisiana File 74-30 Cajun Electric Power Cooperative, Inc. JATE 31 May 1977 |
| FOR | Bovay Engineers, Inc., Burns and Roe, Inc. |
| HL R | • |
| | Indisturbed sample Standard Penetration test Boring DEPTH 39'2 feet |
| ····· | Medium tan and light gray clay with silt traces |
| | Medium brown and gray clay |
| 5 | Soft tan and light gray clay with silt traces |
| | Loose tan and gray slightly clayey silt |
| 10 | Soft tan and gray clay with 8 inch loose gray silty layers and clay pockets |
| | Firm gray slightly clayey silt and 8 inch loose gray slightly clayey silt |
| · | Soft gray clay with silt traces |
| 15 | Loose gray clayey silt with clay traces and sand traces |
| | Firm gray slightly clayey silt Very loose gray silt with 5 inches of slightly clayey silt layer Penetration Resistance 3 blows per foot (1/1/2) |
| | Medium gray silty clay |
| - | Medium gray clay with 1/8 inch silt layer |
| - 25 🗙 | Penetration Resistance 9 blows per foot (2/3/6) |
| | 2 inch firm gray clayey silt, 3 inch soft gray clay, 1 inch gray silty sand |
| - 30 | Firm gray clayey silt with silt traces Firm gray silt with 3 inch slightly clayey silt Penetration Resistance 10 blows per foot (2/3/7) |
| • · · | Medium gray clay with 3 inch sandy layer and sand lenses |
| 3 5 | Firm slightly silty sand with silt traces and clay streaks |
| <u> </u> | Dense gray sand with 4 inch clay layer Penetration Resistance 31 blows per foot (4/6/25) - |
| | Dense gray sand with 4 inch gray clay layer Penetration_Resistance33_blows_per_foot(12/18/15) |
| 4U | |
| | |
| ·/ | |
| · | |
| | |
| | |

| PROJECT | Cajun Electric Power Conderative, Inc. New Roads, Louisiana | BORIN (-33] |
|-------------|--|---|
| 1 00 | Cajun Electric Power Cooperative Inc | • DATE 31 May 197 |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNICIAN CCIN |
| | | |
| EAM PER | UNDISTURBED BAMPLE STANDARD PENETRATION TEST BORIN | G DEPTH 4112 feet |
| - U - | Stiff brown and gray clay | · · · · · · · · · · · · · · · · · · · |
| | Medium tan and gray clay with silt pockets and streaks | • |
| 5 | Medium brown and gray clay with silt traces | |
| | Medium tan and gray slightly silty clay | |
| - 10 | Loose tan and gray silt with clay traces | |
| | Loose tan and gray slightly clayey silt | : |
| · // • | Very loose tan and gray silt | |
| -15 | Very loose gray silt Penetration Resistance 2 blows per foot | (1/1/1) |
| · | Very loose gray silt | |
| 20 | Loose gray silt with clay traces | - |
| | Loose gray silt Penetration Resistance 6 blows per foot | (3/2/4) |
| | Firm gray silt with clay and organic traces | a e e e e e e e e e e e e e e e e e e e |
| - 25 | Loose gray silt with clay traces | |
| | Very stiff gray clay with silt traces Penetration Resistance 16 blows per foot | (2/7/9) . |
| - 30 | Loose gray silt with sand and clay traces and 4 inch gr | ay sand layer |
| | Firm gray sandy silt with clay traces | ૡ૽ |
| <u> </u> | Penetration Resistance 13 blows per foot | (3/6/7) |
| - 35 - | Loose gray silt with tan and gray silt and clay traces | |
| | Firm gray sand with clay traces | |
| 40 | Dense gray sand Penetration Resistance 39 blows per foot | (7/18/21) |
| X | Dense gray sand with 6 inch clay layer Penetration Resistance 32 blows per foot | (7/11/21) |
| | | |
| | | |
| | | |
| | · · · · · · · · · · · · · · · · · · · | |

| | | LOG OF BORING | |
|----|-------------------------------------|--|---|
| | PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | вояты. 832 File 74-30 Date12 May 1977 Technician CCN |
| 6 | DEPTH FEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING | DEPTH 415 feet |
| 5 | | Stiff tan and gray clay | |
| 9 | · · · · · · · · · · · · · · · · · · | Hedium tan and gray clay with silt traces | |
| | 5 | Loose tan and gray silt with clay pockets | |
| ۲. | 10 | Very loose tan and gray silt Loose tan and gray silt Penetration Resistance 5 blows per foot | (2/2/3) |
| | ···· | Firm tan and gray clayey silt | |
| С | · 15 | Loose gray silt Very loose gray silt Penetration Resistance 2 blows per foot | (1/1/1) |
| | ····· | Firm gray very clayey silt | |
| | - 20 | Firm gray slightly clayey sand Very loose gray silt Penetration Resistance 3 blows per foot | (1/1/2) |
| | | Loose gray slightly sandy silt | |
| | - 25 | Firm gray silty sand Loose gray silt with sand traces Penetration Resistance 6 blows per foot | (1/3/3) |
| | - 30 | Firm gray silty fine sand | - |
| | | Firm gray sandy silt with organic traces Firm gray silt with sand traces Penetration Resistance II blows per foot | (2/5/6) |
| | - 35 | Loose gray sand with silt traces | |
| | - 40 X | Loose gray slightly silty sand with 1 inch clay layer Very dense gray silty sand Penetration Resistance 25 blows per 6 inches Dense gray silty sand Penetration Besistance 36 blows per foot | (12/25) (7/15/21) |
| | | | |
| | | | |

| PROJEC FOR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BORING833 FILE74-30 DATE ¹ 2May1977 TECHNICIANCN |
|---------------|--|--|
| | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEI | лн 53½ feet |
| | Dense gray sand Penetration Resistance 30 blows per foot Hard gray clay with sand traces Pepetration_Besistance38_blows_per_foot | (9/12/18) |
| - 55 - | | |
| • • • • | | |
| | | |
| | | · · · · · · · · · · · · · · · · · · · |
| - 60 | | - |
| | | |
| | | |
| · | | |
| | | · · · · · · · · · · · · · · · · · · · |
| | | |
| | | |
| | | |
| - 1 | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
|] | | |
| | | |
| | | |
| | | |
| <u>`</u>] | | |
| [| | |
| | | |
| - | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | - |

,

| PROJE | ст | Cajun Electric Power Cooperative, Inc. | 824 |
|-----------|----|--|---|
| • | | New Roads, Louisiana | BORING 74-30 |
| FOR | | Cajun Electric Power Cooperative, Inc. Boyay Engineers, Inc., Burns and Roe, Inc. | DATE 10 May 1977 |
| · . | | | TECHNICIAN _ CCN |
| ŦĿ | 5 | • • | |
| 15E | Ā | | Ally foot |
| - 0 - | | | NG DEPTH TT 2 TCCC |
| | | Stiff tan and gray clay with silt and organic matter | |
| | | Nedium gray clay with silt traces | |
| - 5 | | Medium tan and gray clay with organic traces and silt | traces |
| • • • • • | | Firm brown clayey silt | |
| ~ 10 | | Firm gray sandy silt | |
| | | Loose tan and gray silt | |
| <u>.</u> | | Loose tan sandy silt with 2 inch clay layer and ferr | ous traces |
| - 15 | A | Very loose tan and gray silt Penetration Resistance 3 blows per foot | (1/2/1) |
| | | Loose gray slightly clayey silt | |
| | | Loose gray slightly sandy silt with 1 inch sand laver | |
| 20 | | Loose gray silt with sand traces Penetration Resistance 4 blows per foot | (1/1/3). |
| | | Firm gray silt with clay pockets | |
| - 25 - | | Firm grav clavev silt | |
| | ₫ | Loose gray silt with clay traces Penetration Resistance 7 blows per foot | (2)3/4) |
| | | Lonse grav slightly clavey silt | |
| - 30 - | | | |
| | 7 | Firm gray silt with sand lenses and streaks | |
| K | 7 | Penetration Resistance 17 blows per foot | (5/7/10) |
| - 35 - | • | Stiff gray silty clay with 3 inch clay layer | |
| | | Loose gray silt with sand traces | |
| D | 1 | Dense gray sand | leure une |
| 40 | đ | Dense gray sand | (6/10/22) |
| ¥ | ţ | LENETIGTION RESISTANCE - 31 DIOMS DEL TODE | UUUUUU |
| | | | |
| - | | | |
| | | | |
| | | | |
| | Ī | | |
| - 1 | 1 | | in the second |

LOUIS I CAPOTTOLI & ASSOCIATES INC

PP18125

7.7 7

27

ŝ

(

ŝ

्दः •

> . .

| | PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. ECHNICIAN CCN |
|------------|----------------------------|---|
| | DEFTH O FEET BAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 431/2 Feet |
| • • • • | | Stiff tan and gray clay |
| | - 5 | Medium tan and gray slightly silty clay |
| | | Very loose tan silt |
| | - 10 | Very loose tan and gray silt Very loose tan silt Penetration Resistance 2 blows per foot (1/1/1) |
| | | Loose tan slightly sandy silt |
| | - 15 X | Loose gray silt Very loose gray silt Penetration Resistance 3 blows per foot (1/1/2) |
| · . | - 20 - | Firm gray silt with sand traces |
| | X | Loose gray silt Medium gray slightly silty clay Penetration Resistance 4 blows per foot (1/2/2) |
| ļ | - 25 - | Firm gray sand with clay streaks |
| | 30 X | Medium gray silty clay with 4 inch clay layers Firm gray silt with clay traces Penetration Resistance 12 blows per foot (2/4/8) |
| • | | Loose gray silt with 2 inch clay layer |
| | - <u>35</u> .X | Loose gray sand with clay and silt traces Medium gray clay with sand traces Penetration Resistance 5 blows per foot |
| - | | Medium gray slightly silty clay |
| | 40 X | Dense gray sand with 2 inch clay layer Penetration Resistance 32 blows per foot (6/17/15) |
| | X | Penetration_Resistance35_blows_per_foot(10/18/17) |
| | 45 | |

LOUIS J. CAPOZZOLI & ASSOCIATES. INC.

**14125

| | LOG OF BORING | |
|-----------|--|--|
| PROJECT | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BORING 836 FILE 74-30 DATE 9 May 197 TECHNICIAN CCN |
| | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BO | DRING DEFTH 4132 feet |
| | Stiff brown and gray clay with root traces | |
| | Stiff tan and gray clay | • |
| - 5 | Medium brown and gray clay with organic, ferrous an | d silt traces |
| | Loose tan and oray silt | •• • |
| | Loose gunu cilt | |
| 10 | Loose gray silt with 2 inch clay layer | |
| | | (1/1/1) |
| 16 | Loose gray silt | · · · · · · · · · · · · · · · · · · · |
| - 15 Y | Loose gray silt Very loose gray silt | ſ |
| | Penetration Resistance 3 blows per foot | (1/1/2) |
| -20 | Loose gray silt with sand traces and 1 inch clay lay | yer |
| | Very Toose gray silt | |
| X | Penetration Resistance 10 blows per foot | (1/4/6) |
| -25 - | Loose gray silt with sand traces and clay traces | • • • • • • • • • • • • • • • • • • • |
| | Loose gray silt | |
| X | Firm gray sand and silt Penetration Resistance 22 blows per foot | (2/8/14) |
| -30 | loose array clayer silt with cand streaks | |
| | Loose gray crayey stitl with sand streaks | · · · · |
| -35 -X | Loose gray sand with silt traces Loose gray sandy silt | · 40 (2 (A) |
| | reneuration Resistance / blows per root | (2/3/4) |
| X | Loose gray silty sand with 4 inch clay layer | |
| 40 | Penetration Resistance 30 blows per foot | (6/11/19) |
| <u> </u> | Penetration Resistance 32 blows per foot | (7/13/19) |
| | | |
| | | |
| | | |
| | | |
| | | |

| Bovay Engineers, Inc., Burns and Koe, Inc. Bovay Engineers, Inc., Burns and Koe, Inc. UNDISTURBED BAMPLE Stiff tan and gray clay Stiff tan and gray clay Stiff tan and gray clay Loose tan and gray silt Loose tan and gray silt Penetration Resistance Very loose tan silt | <u>2</u> t |
|--|------------|
| Stiff tan and gray clay Stiff tan clay with silt and ferrous traces Soft tan and gray clay Loose tan and silt with clay traces Loose tan and gray silt Loose tan and gray silt Penetration Resistance 5 blows per foot (1/2/3) Very loose tan silt | |
| 5 Soft tan and gray clay Loose tan and silt with clay traces 10 Loose tan and gray silt Very loose tan silt Very loose tan silt | |
| Loose tan and gray silt Loose tan and gray silt Loose tan and gray silt Penetration Resistance 5 blows per foot (1/2/3) Very loose tan silt | |
| Very loose tan silt Very loose tan silt | _ |
| Very loose tan si t | •· - |
| Loose gray silt | _ |
| Penetration Resistance 2 blows per foot (1/1/1) | |
| Medium gray stilty clay Soft gray slightly silty clay | |
| -25 Medium gray silty clay with silt pockets | |
| Loose gray silt with clay traces Firm gray clayey silt Penetration Resistance 21 blows per foot (7/9/12) | • |
| Firm gray silty sand with clay streaks | |
| -35 Stiff gray clay with silt traces Penetration Resistance 21 blows per foot • (7/10/11) | |
| Firm gray silty sand with 5 inch clay layer and silt traces | - |
| 40 Dense gray sand Penetration Resistance 30 blows per foot (10/10/20) Y Dense gray sand | - |
| Penetration Resistance 45 blows per Boot (10/20/25) | |
| | |

ç

Ļ.

PP L8126

| | · | |
|---------------------------------|--|-----------------------------------|
| PROJECT | Cajun Electric Power Cooperative, Inc., Plant No. 2 New Roads, Louisiana | BORING 838 |
| FOR | Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | DATE 6 May 1977 TECHNICIAN CCN |
| DEPTH DEFTH BAMPLEN | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEP | 7H 3912 Feet |
| | Medium brown and gray clay with silt pocket | |
| | Stiff tan and gray clay | |
| 5 | Soft brown and gray clay with silt traces | |
| · · · · · · · · | Medium brown and gray clay | |
| | Soft gray clay with silt pockets and streaks | - |
| | Loose gray slightly clayey silt with 3 inch clay layer | |
| · · · · · · · | Very loose gray stit | |
| 15 | Very loose gray silt with ½ inch clay layer Penetration resistance 3 blows per foot | (1/2/1) |
| | Loose gray clayey silt | |
| | Medium gray silty clay | |
| _ 20 X | Loose gray clayey silt Penetration resistance 4 blows per foot | (1/2/2) |
| | Firm gray sandy silt with 4 inch clay layer and clay lenses | |
| _ 25 | Loose gray silt with 3 inch clay layer | |
| | Firm gray clayey sand | |
| | Penetration resistance 13 blows per foot | (4/4/9) |
| - 30 | Loose gray sand | |
| | Louse gray sand | |
| | Penetration resistance 11 blows per foot | (3/4/7) |
| 35 | Firm gray-sand with 1 inch clay layer | |
| | Very dense grav sand | |
| | Penetration resistance 52 blows per foot | (9/22/30) |
| 40 | Penetration resistance 42 blows per foot | (17/22/20) - |
| | | |
| ┣ ── ── ─┤ ┃: | | |
| | | |
| | | _ |
| · · · · · · · · · · · · · · · | | |
| | | · · · · · |
| I 1 t | | · • |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP19125

٠.

| PROJECT Cajun Electric Power Cooperative. In New Roads, Louisiana | c. Plant No. 2 | BORING 839 |
|---|---|----------------------|
| FOR Cajun Electric Power Cooperative, In | с. | DATE 5 May 1977 |
| Bovay Engineers, Inc., Burns and Roe | , Inc. | TECHNICIAN : UUN |
| UNDISTURBED BAMPLE | TRATION TEST BORING DEPT | - H 51½ Feet |
| Stiff brown and gray clay | 1 | |
| Very stiff gray clay with silt pocket | 1944 - 1949 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 5 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 19 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 | |
| 5 Medium tan and gray clay with silt tr | aces | • |
| Soft tan slightly silty clay | | - |
| Stiff tan and gray clay with silt trad | :es | |
| Loose tan and gray clayey silt with 5 | inch clay layer | |
| Loose brown sandy silt | | |
| 15 Loose tan silt with clay traces Penetration resistance | lows per foot | (1/2/2) |
| Loose tan and gray silt | | |
| Loose tan and gray silt with sand trac | :es | |
| Very loose gray silt Penetration resistance | ows per foot | (2/1/2) |
| Loose gray silt. | an an Chairtean Anna Anna Anna Anna Anna Anna Anna A | |
| 25 Loose gray silt | | . – |
| Loose gray silt with 1 inch clay layer Penetration resistance 6 bl | ows per foot | (1/3/3) |
| Loose tan and gray slightly clayey sil | | • |
| - 30 | r with silt lenses and | pockets |
| Loose gray silt Penetration resistance 6 bl | ows per foot | (3/3/3) |
| - 35 Medium gray clay with sand traces and | inch clay layers | |
| Loose gray silt with 8 inch clay Tayer | | |
| Firm gray sand with 2 Inch clay Tayer | Tour non foot | (E/11/15) |
| 40 Firm gray sand | JUWS PET TUOL | (5/11/15) |
| Penetration resistance 19.6 | Tows per foot | (6/10/9) |
| Penetration resistance 30 b | lows per foot | . (10/14/16) |
| 45 A Penetration resistance 26 h | lows per foot | (8/11/15) |
| Firm gray sand with 7 Inch clay Tayer | | (0/11/20) |
| Dense gray sand | | - |
| 50 Penetration resistance 38 b | lows per foot | (11/18/20) |

| PPOJI | ECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana |
|-------------------|----------------------------|---|
| FOR | | Cajun Electric Power Cooperative, Inc. DATE 5 May 1977 |
| | | Bovay Engineers, Inc., Burns and Roe, Inc. |
| HL332 50 | SAMPLES | JINDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH SIT FEEL |
| | X | Penetration resistance 48 blows per foot (18/22/26) |
| | | |
| - 56 | | |
| . 55 | | |
| Ĩ | | |
| - | | |
| . . | | |
| | | |
| | | |
| I | | |
| | | |
| . . | | |
| <u> </u> −− −-, | | |
| | | |
| | | |
| | | |
| · • • • • • • • • | | |
| | | |
| <u> </u> | | |
| | | |
| | | |
| | | |
| | | |
| ļ | | |
| −−− | $\left\{ \right\ $ | |
| | | n en |
| J | | |
| <u> </u> | $\left\{ \right. \right\}$ | |
| · · · | 1 | 에는 것은 것은 이번에 가장되었다. 이번에 가장 가장 가장 것 같은 것은 가장 가장 가장 있는 것을 가장 가장 가장 있는 것을 가장 |
| ┣ | | |
| | | |
| | | |
| I | | |
| <u>⊢</u> . | | |
| | | |
| | | |
| | | |
| - | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

CP18125

a

| PROJECT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana File 74-30 |
|---------------------------------------|---|
| FOR. | Cajun Electric Power Cooperative, Inc. Date 4 May 1977 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN <u>C</u> CN |
| DEPTH FEET O SAMPLES | UNDISTURGED EAMPLE STANDARD PENETRATION TEST BORING DEPTH 393; Feet |
| | Stiff brown and gray clay with roots and silt traces |
| 2011 - Andrean . | Loose tan and gray clayey silt |
| 5 | Loose tan and gray silt with 14 inch silty clay layer |
| - X | Penetration resistance 4 blows per foot (1/2/2) |
| - 10 | Loose tan silt with sand traces |
| | Loose tan silt with sand traces |
| | Penetration resistance 4 blows per foot (2/2/2) |
| _ 15 | Loose tan silt with sand traces |
| · · · · · · | Loose tan and gray silt with 3 inch clay layer |
| - 20 | Loose gray silt Penetration resistance 4 blows per foot (2/2/2) |
| | Loose gray sandy silt with clay traces |
| | Loose gray sandy silt |
| - 25 | Penetration resistance 15 blows per foot (2/5/10) |
| | Loose gray slightly sandy silt |
| 30 | Loose gray slightly sandy silt |
| X | Firm gray silt Penetration resistance 12 blows per foot (4/5/7) |
| | Firm gray sand with clay lenses |
| - 35- | Firm gray silty sand |
| | Dense gray slightly silty sand Penetration resistance 32 blows per foot (5/15/17) |
| | Dense gray slightly silty sand Penetration resistance 35 blows per foot (5/13/22) |
| | |
| · · · · · · · · · · · · · · · · · · · | |
| | |
| | |
| | |
| | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

**10125

| PROJECT | Cajun Electric Power Cooperative. Inc. Plant No. 2 | /041 |
|---------|--|------------------|
| | New Roads, Louisiana | DORING - 041 |
| FOR | Cajun Electric Power Cooperative, Inc. | DATE 4 May 1977 |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | TECHNICIAN - CON |
| EL: | | |
| LEE DEF | | 871. East |
| | Modium ton alay with | H 432 FEEL |
| | meurum lan clay with root traces | |
| | Stiff tan clay | |
| 5 | Medium brown and gray clay with silt pockets | |
| | Medium tan and gray clay with silt traces | |
| _ 10 | Stiff brown and gray slightly silty clay | |
| | Very loose tan silt with clay traces | |
| | Very loose tan and gray silt | ~ |
| 15 | Very loose tan and gray silt | |
| | Firm tan very silty fine sand with 6 dash clay laws | (1/1/1) |
| | con tery strey time sand with o then clay layer | |
| 20 | Loose tan and gray silty sand | • |
| | Loose gray sandy silt | |
| | renetration resistance 4 blows per foot | (2/2/2) |
| | cose gray sandy stit with 3 inch clay layer | |
| _25 _ / | Medium gray very silty clay and sandy silt with 2 inch clay 1 | ayers and |
| XI | oose gray slightly sandy silt | |
| | enetration resistance 6 blows per foot | (2/3/3) |
| . 30 | ouse gray slightly sandy silt with & inch clay layers | |
| | oose gray slightly sandy silt | |
| | irm gray silty sand | |
| 25 | onse may silty and | (7/8/9) |
| | ouse gray Sirly Sang and the second s | |
| F | Irm gray sand with 1 inch clay layer | |
| | o recovery | |
| 49 H | enetration resistance 24 blows per foot | (10/14/10) |
| | enetration resistance and and 30 blows per foot | (5(12/17) |
| - | ense gray silty sand | Yo(13/1/) |
| F | eneuration resistance 32 blows per foot | (9/13/18) |
| | | |
| | | |
| | | |
| | | |

LOUIS J. CAPOZZOLI & ASSOCIATES. INC.

7+14125

| (| | LUG OF BORING | |
|-------------|--|--|--|
| • | FROJEC | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Boyay Engineers, Inc., Burns and Roe, Inc. | BORING 842 FILE 74-30 DATE 3 May 1977 TECHNICIAN CCN |
| C | D FEETH | SUNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPT | ** 375 Feet |
| • | | Medium yellow and gray clay with root traces | |
| | | Medium tan and gray slightly silty tlay | |
| | 5 | Very soft tan and gray silty clay | |
| • | ی است میں در مسلم | Loose tan and gray silt with 2 inch clay layer | |
| | - 10 | Loose tan and gray silt Very loose tan and gray clayey silt with ½ inch clay layer Penetration resistance 2 blow per foot | (1/1/1) |
| • | - | Loose gray silt | |
| ~ | - 15 | Loose brown silt with clay pockets | |
| • | | Very loose gray silt with sand and clay traces Penetration resistance 3 blows per foot | (1/1/2) |
| - | - 20 | Loose gray clayey silt | |
| | 2 | Loose gray sandy silt Penetration resistance 9 blows per foot | (1/3/6) |
| | - 25 | Loose gray silty sand | |
| | | Firm gray sandy silt with clay lenses | |
| | - 30 | Firm gray sand Penetration resistance 26 blows per foot | (7/9/10) |
| | | Firm gray sand | |
| | ······································ | LOOSE gray STIT WITH & INCH SAND layer and tenses | |
| 4 4 7 | - 35 | Dense gray silty sand Penetration resistance 32 blows per foot Dense gray silty sand | (13/15/16) |
| | 2 | Penetration resistance 35 blows per foot | (10/18/17) |
| · | n in statistica. Anno 1 anno 1 | | |
| | 40. | | |
| | | | |
| | я | | |
| - | | | terretaria de la constante de la c |
| | | | |

LOUIS I CAPOTTOLLE ASSOCIATES INC

PP18328

•

. . Ę

2

د معر میر مربع

•. •

| | • PROJE | (CT | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Technician CCN |
|-----|---------|----------------|--|
| | D FEET | SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 394 Feet |
| | | | Medium brown and gray clay with silt traces |
| | | | Stiff tan and gray clay |
| - | - 5 - | | Medium brown and gray clay with silt pockets |
| | | | Very soft tan and gray slightly silty clay |
| | | | Loose gray and tan silt with is inch silty clay layer |
| | - 10 | | Loose tan and gray silt |
| | 15 | X | Very loose tan and gray clayey silt Penetration resistance 2 blows per foot (1/1/1) Very loose tan and gray silt |
| | | | oose tan slightly clayey silt with 1½ inch silty sand layer |
| - | -20 | X | Loose gray silt Penetration resistance 5 blows per foot (1/2/3) |
| | | | LOOSE gray sand |
| · · | - 25 | X | Loose gray slightly silty sand Penetration resistnace 4 blows per foot (2/2/2) |
| • | | | oose gray sand with 6 inch clay layer |
| | -30 - | | Firm gray sand with 1 inch gray clay layer |
| | | 삭 | Penetration resistance 20 blows per foot , (4/9/11) |
| | | | irm gray sand |
| _ | - 35 - | | inf gray slightly silty sand with clay pockets |
| | | Å | Penetration resistance 30 blows per foot (6/13/17) |
| | -40 | Å | enetration resistance 32 blows per foot (10/15/17) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 1 | | | |

ee18125

2

2

)

ີ. ນີ້ 1

ц.,

| New Roads, Louisiana | BORING 844 |
|---|---------------|
| FOR Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | ECHNICIAN CCN |
| O BTANDARD PENETRATION TEST BORING DEPTH | 474 Feet |
| Medium gray and tan clay with root traces | |
| Medium gray and tan clay with silt pockets | |
| - Loose tan slit with & inch clay layer | |
| Loose tan and gray sandy silt | |
| 10 Penetration resistance I blow per foot | (1/1/1) |
| Vom long the and stated at the state of the | |
| Myery loose tan and gray slightly clayey silt | |
| Penetration resistance 3 blows per foot | (1/1/2) |
| Loose gray silt | |
| - 20 Loose brown silt | |
| Penetration resistance - 4 blows per foot | (1/2/2) |
| Loose gray sandy silt | • • |
| - 25 Loose gray silt with & inch clay layers | - |
| Penetration resistance 11 blows per foot | (2/3/8) |
| Firm gray sand with ½ inch clay layer | |
| Firm gray sand | |
| Firm gray sand | |
| - 35 Firm gray sand | (6/6/9) |
| Firm gray sand | |
| XFirm gray sand | |
| 40, Penetration resistance 14 blows per foot | (4/4/10) - |
| Penetration resistance 28 blows per foot | (4/6/12) |
| Penetration resistance 24 blows per foot | (6/10/14) |
| Penetration resistance 37 blows per foot | (8/13/24) |
| Penetration resistance 30 blows per foot | (10/14/16) |
| | |

PP 18125

| | LOG OF BORING |
|---------------------------------------|---|
| PROJEC" | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana 74-30 |
| * FOR | Cajun Electric Power Cooperative, Inc. Date 24 Apr.1977 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN GLP |
| DEPTH J FEET SAMPLES | JINDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 4312 Feet |
| | Medium tan and gray clay with root traces |
| | Medium tan and brown clay with silt traces and root traces |
| - 5 | Soft very silty clay |
| | Loose tan and gray slightly clayey silt with clay lumps and sand traces |
| 10 | Loose tan clayey silt |
| X | Very loose tan clayey silt with 1 inch clay Penetration resistance 2 blows per foot (1/1/1) Very loose tan sandy silt with some clay |
| • • • • • | Firm the and end of the set of the state of the set of |
| ,15 | Firm can and gray silty sand with 1% inch silty clay layer and clay pockets |
| X | Penetration resistance 2 blows per foot (1/1/1) |
| - 20 | Very loose gray slightly silt on 1/2 inch clay at bottom |
| · · · · · · · · · · · · · · · · · · · | Loose gray fine sand 7 inch sample bag |
| X | Penetration resistance 22 blows per foot (1/5/6) |
| | Firm gray fine sand with k Inch clay layer at bottom |
| Y | Firm gray fine sand |
| - 30 | Penetration resistance 20 blows per foot (1/4/6) |
| ····· | No recover |
| - 35 X | Firm gray fine sand |
| | Penetration resistance 15 blows per foot (1/3/12) |
| · · · · · · | Firm tan and only fire and idth 1 tach altohalu -1 |
| - 40 M | Dense gray fine sand |
| | Penetnation resistance 34 blows per foot (13/17/17) Dense gray fine sand |
| | Penetration resistance 30 blows per foot (7/13/17) |
| - 43 | |
| | |
| | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PT 16135

| | | | | • |
|--------------|--|---|--|-------------------------------------|
| | PROJECT | Cajun Electric Power Cooperat New Roads, Louisiana | ive, Inc. Plant No. 2 | BORING 846 |
| | FOP | Cajun Electric Power Cooperat Bovay Engineers, Inc., Burns | ive, Inc. and Roe, Inc: | DATE 29 Apr. 1977 TECHNICIAN GLP |
| | w I | | | |
| | L L L | | | |
| | | JNDISTURBED SAMPLE | | |
| | ┝╸╵╅╈ | Medium tan and gray clay with d | traces of wood | |
| ~ | · • • • | | LFACES OF WOOD | |
| | · • | Very soft tan and gray clay wit | th silt streaks | |
| | 5 | Soft tan very silty clay | • • • | |
| | | Loose tan and gray silt with cl | ay traces | • |
| | | Loose brown very clayey silt wi | th 2 inch silty clay laver a | t ton |
| | - 10 | Loose tan slightly clavey silt | wtih rlav | - |
| | | Penetration resistance | 2 blows per foot | (1/1/1) |
| | | oose tan slightly sandy silt w | ith some clay | |
| | 15 | oose tan slightly sandy silt | | ·· - |
| | · · · · · · · · · · · · · · · · · · · | OOSE tan fine sand with 3 inch | slightly clay | |
| | | Penetration resistance | 10 blows per foot | (1/5/5) |
| | 20 | irm gray siltyfine sand and si | lty clay layer | |
| 1 | | irm tan and light gray sandy s | ilt with $\frac{1}{2}$ inch and $\frac{1}{2}$ inch 1 | ayer |
| ŀ | —————————————————————————————————————— | ODSE TAN TINE SAND PENEtration resistance | 7 blows pay fact | 10,0,0 |
| ŧ | 25 | ODEA gray silty find and with | 7 blows per toot | (2/2/5) |
| ľ | | ouse gray sirty fine sand with | 2 Inch clay layer at bottom | |
| . - | F | irm gray fine sand.with clay po | ockets | |
| • | Μ. | oose gray fine sand with 3 incl | a laver clav | |
| L. | 30 P | enetration resistance | 7 blows per foot | (4/3/4) |
| . | F | irm gray fine sand | | |
| | | | | |
| . | | 1rm gray fine sand 4 | | |
| | - 35 -X F | irm gray fine sand | | |
| . - | P | enetration resistance | 16 blows per foot | (6/5/11) |
| ŀ | F | im gray fine sand to the same same same same same same same sam | | |
| ľ | F | Im may fine sand with clay la | | and the second second |
| - + | - 40 n | | ISES and pockets as | |
| <u> </u> | X P | enetration recistance | Al hime non Broth | |
| | | Inse grav Sant | TT UIUWS PER TOOT | (9/19/22) |
| '? [| <u>A</u> P | netration resistance | 32 blows per font | • (10/14/18) |
| - | 45 | e de la contener de la come | | |
| | | | | |
| - | | | | |
| ·]- | | | | |
| | | * . | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP18185

Ţ,

LOG OF BORING PROJECT Cajun Electric Power Cooperative, Inc. Plant No. 2 847 BORING New Roads, Louisiana 74-30 FILE Cajun Electric Power Cooperative, Inc. 🗐 🐇 DATE 28 Apr. 1977 FOR Bovay Engineers, Inc., Burns and Roe, Inc. GLP TECHNICIAN $\left(\right)$ ۲ EFF. X STANDARD PENETRATION TEST. 1 UNDISTURBED SAMPLE SORING DEPTH n 43¹₅ Feet Medium tan and gray clay $c \in \mathbb{C}$ Medium tan and gray clay 5 Soft gray and tan silty clay Loose tan and gray sandy silt 6 Loose tan slightly clayey silt with some clay 10 Very loose tan silt with 3 inch slightly silty clay Penetration resistance 1 blow for 18 inches Soft tan clay with silt pockets 15 Very soft gray very silty clayey silt C Loose gray silt with 3 inch clay in center Loose gray sandy silt with 3 inch clay layer Penetration resistance 20. 5 blows per foot (2/2/3)10 Loose gray slightly sandy silt with some clay Θ Firm gray silty fine sand with clay pocket Sample fell out of barrel Penetration resistance 1 blow for 18 inches 25 \odot Firm gray fine sand Firm gray fine sand Loose gray fine sand - 30 Penetration resistance 11 blows per foot (1/3/8) Dense gray fine sand with clay pockets 35 Firm gray fine sand with & Inch clay layer in center firm gray fine sand enetration resistance 20 blows per fast. *`*≆ {**5**∕8/12} […] Penetration resistance 21 blows per foot Penetration resistance 21 blows per foot 40 (6/9/12) Dense gray fine sand Penetration resistance 36 blows per foot (9/14/17) S (11/16/20) ∃ 45.

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

Pr 18125

| PROJEC | Cajun Electric Power Cooperative, Ind New Roads, Louisiana Cajun Electric Power Cooperative, Ind Bovay Engineers, Inc., Burns and Roe | Inc. | BORING 848 FILE 74-30 DATE 26 Apr. 197 TECHNICIAN GLP |
|---------------|--|------------------|--|
| DEPTH FEET | UNDISTURBED SAMPLE STANDARD PENET | RATION TEST BOR | ING DEPTH 4512 |
| | Medium tan gray clay with root traces | | |
| | Stiff gray clay | | |
| - 5 - | . Soft gray silty clay | | |
| | . Very loose brown clayey silt | | |
| _ 10 _ | . Soft tan and gray silty clay with clay | / pockets | |
| | Very loose tan silt with clay traces Very loose brown clayey silt Penetration Resistance 2 blow | vs per foot | (1/1/1) |
| - 15 | Samples fell out of barrel | | |
| - 20 | Loose gray slightly clayey silt Firm gray fine sand Penetration Resistance 13 blo | ows per foot | (6/4/9) |
| | Samples fell out of barrel | | |
| | Firm tan and gray fine silty sand with | n clay pockets | |
| - 25 - | Loose gray fine sand Penetration Resistance 5 blow | vs per foot | (6/3/2) |
| | . Soft gray clay with 3 inch sand layer | | |
| - 30 - | Firm gray fine sand with ½ inch clay 1 | ayer | |
| 2 | Firm gray fine sand Penetration Resistance 8 blow | s per foot | (4/4/4) |
| | Firm tan and gray clayey silt with 3 t | co 2 inch clay 1 | ayers |
| - 35 - | Firm gray fine sand | | |
| 2 | Firm gray fine sand Penetration Resistance 11 blo | ws per foot | (2/5/6) |
| _ 40 _ | Firm gray fine sand with traces of org | anic matter | |
| | Firm gray sand | | |
| 2 | Dense gray sand Penetration Resistance 32 blo | ws per foot | (11/13/19) |
| -45 -2 | Dense gray sand Penetration Resistance 36 blo | ws per foot | (7/14/22) |
| | | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FP18125

| PROJECT: | Cajun Electric Power Coope New Roads, Louisiana Cajun Electric Power Coope Bovay Engineers, Inc., Bur | erative, Inc. erative, Inc. rns and Roe, Inc. | BORING 849 FILE 74-30 DATE 27 Apr. 1 TECHNICIAN GLP |
|--------------------------|--|---|--|
| DEPTH FEET SAMPLES | | STANDARD PENETRATION TEST BO | DRING DEPTH 48 feet |
| | Medium tan and gray clay | | |
| | Medium tan and gray clay | | |
| 5 - | Very soft light gray and b | rown very silty clay | |
| 10 | Very soft gray silty clay | with silt pockets | |
| 10 | Loose tan and gray clayey | silt with clay pockets and | 1 layers |
| X | Very loose brown silt with Penetration Resistance | some clay 2 blows per foot | (1/1/1) |
| | Loose tan silt with some c | lay | |
| 15 | Loose brown silt | | |
| | Very loose brown silt Penetration Resistance | 2 blows per foot | (1/1/1) |
| 20 . | Loose gray silt with clay | lenses and pockets | |
| | Loose gray silt with clay | lenses and pockets | |
| | Loose gray fine sandy silt Penetration Resistance | with some clay 5 blows per foot | (1/2/3) |
| 25 - | Loose gray very clayey sil | tyfine sand with 1 inch cl | ay layer |
| _ | Firm gray silt with 1/2 inch | clay layer | |
| 30 🛛 | Firm gray fine sand Penetration Resistance | 19 blows per foot | (8/10/9) |
| | Firm gray fine sand | | |
| | Dense gray sand with silt | traces | |
| 35 - X | Firm gray fine sand Penetration Resistance | 19 blows per foot | (9/8/11) |
| | Firm gray fine sand | | |
| 40 | Firm gray fine sand | | |
| X | Firm gray fine sand Penetration Resistance | 28 blows per foot | (9/13/15) |
| X | Dense gray fine sand Penetration Resistance | 30 blows per foot | (10/12/18) |
| AF | Firm gray fine sand Penetration Resistance | 23 blows per foot | (10/10/13) |
| 45 X | Dense gray fine sand Penetration Resistance | 30 blows per foot | (8/13/17) |
| X | Dense gray fine sand Penetration Resistance | 32 blows per foot | (9/19/13) |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FP18125

| LINCHISTURBED EAMPLE STANDARD PENETRATION TEST DORING DEFIN 431s Feet Stiff tan and gray clay with traces of silt and grass roots Medium gray clay with silt pockets Isose tan silt with 3 inch top layer very clayey silty clay pockets Loose tan slightly clayey silt with clay streaks and 1 inch clay layer Loose tan slightly clayey silt with 3 inch center layer silty clay Penetration resistance 6 blows per foot (3/3/3) Very loose tan and gray clayey silt with 4 inch bottom layer of silty clay Loose gray clayey silt with 4 inch bottom layer of silty clay 15 Soft gray clay with silt pockets and 6 inch bottom layer very silty fine sand Soft gray clayey silt with 5 inch top layer of silty clay 20 Firm gray clayey silt with 1 inch clay layer Loose gray slightly clayey silt with 6 inch bottom layer of clay 20 Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty fine sand 30 Firm gray silty fine sand with clay pockets 11 blows per foot (2/5/6) 31 Firm gray silty sand with clay pockets 11 blows per foot (7/10/10) 30 Firm gray silty sint fine sand 11 blows per foot (7/10/10) Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty fin | PROJEC | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | RING 850 74-30 e 26 May 1977 HNICIAN MJK |
|--|--------------------------|--|---|
| Stiff tan d gray clay with traces of silt and grass rootsMedium gray clay with silt pockets5Loose tan silt with 3 inch top layer very clayey silty clay pocketsLoose tan slightly clayey silt with clay streaks and 1 inch clay layerLoose tan slightly clayey silt with 3 inch center layer silty clayLoose tan slightly clayey silt with 3 inch center layer silty clayLoose tan and gray clayey silt with 2 inch center layer silty clayLoose gray clayey silt with 4 inch bottom layer of (3/3/3)Very loose tan and gray clayey silt with clay pockets and 3/4 inch claylayer on topLoose gray clayey silt with 4 inch bottom layer of silty clay15Soft gray clay with silt pockets and 6 inch bottom layer very silty finesandVery loose gray slightly clayey silt with 5 inch top layer of silty clay20Penetration resistance3 blows per foot(1/1/2)Loose gray slightly clayey silt with 6 inch bottom layer of clayPenetration resistance4 blows per foot(1/2/2)25Firm gray silty sand with clay pockets and 4 inch center layer very silty30Penetration resistance31Jows per foot40Firm gray slightly silty fine sandPenetration resistance35AFirm gray slightly silty fine sand with clay pocketsFirm gray slightly silty fine sand with clay pocketsFirm gray slightly silty sandPenetration resistance35AFirm gray sl | O FEET | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH | 43½ Feet |
| Medium gray clay with silt pockets5Loose tan slightly clayey silt with clay streaks and 1 inch clay layerLoose tan slightly clayey silt with clay streaks and 1 inch clay layerLoose tan slightly clayey silt with 3 inch center layer silty clayPenetration resistance6 blows per foot(3/3/3)Very loose tan and gray clayey silt with clay pockets and 3/4 inch clayLoose gray clayey silt with 4 inch bottom layer of silty clayLoose gray clayey silt with 4 inch bottom layer very silty finesandVery loose gray slightly clayey silt with 5 inch top layer of silty clayPenetration resistance3 blows per foot(1/1/2)Loose gray slightly clayey silt with 6 inch bottom layer of clayPenetration resistance4 blows per foot(1/2/2)Firm gray slightly sand with 1 inch clay layerLoose gray slightly sand with 3 inch soft gray clay layerFirm gray silty sand with clay pockets and 4 inch center layer very siltyclayFirm gray silty fine sand30Penetration resistance1123Firm gray silty sand with clay pockets5555767788899999999999999999 <t< td=""><td></td><td>Stiff tan and gray clay with traces of silt and grass roots</td><td></td></t<> | | Stiff tan and gray clay with traces of silt and grass roots | |
| 5Loose tan silt with 3 inch top layer very clayey silty clay pocketsLoose tan slightly clayey silt with clay streaks and 1 inch clay layerLoose tan slightly clayey silt with 3 inch center layer silty clayPenetration resistance6 blows per foot(3/3/3)Very loose tan and gray clayey silt with clay pockets and 3/4 inch claylayer on topLoose gray clayey silt with 4 inch bottom layer of silty clay15Soft gray clay with silt pockets and 6 inch bottom layer very silty finesandVery loose gray slightly clayey silt with 5 inch top layer of silty clayPenetration resistance3 blows per foot(1/1/2)Penetration resistance4 blows per foot(1/2/2)20Firm gray clayey silt with 1 inch clay layerLoose gray slightly clayey silt with 6 inch bottom layer of clayPenetration resistance4 blows per foot(1/2/2)25Firm gray silty sand with clay pockets and 4 inch center layer very siltyclay30Firm gray silty fine sand31Apenetration resistance3233Firm gray slightly silty fine sandApenetration resistance3435Firm gray slightly silty fine sandPenetration resistance3132Firm gray slightly silty fine sandPenetration resistance32Firm gray slightly silty sandPenetration resistance31Penetration | | Medium gray clay with silt pockets | |
| Loose tan slightly clayey silt with clay streaks and 1 inch clay layer Loose tan slightly clayey silt with 3 inch center layer silty clay Penetration resistance 6 blows per foot (3/3/3) Very loose tan and gray clayey silt with Clay pockets and 3/4 inch clay layer on top Loose gray clayey silt with 4 inch bottom layer of silty clay Soft gray clay with silt pockets and 6 inch bottom layer very silty fine sand Very loose gray slightly clayey silt with 5 inch top layer of silty clay Penetration resistance 3 blows per foot (1/1/2) Loose gray clayey silt with 1 inch clay layer Firm gray clayey silt with 1 inch clay layer Loose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance 4 blows per foot (1/2/2) Firm gray silty sand with 3 inch soft gray clay layer Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty fine sand Penetration resistance 11 blows per foot (2/5/6) Firm gray slightly silty fine sand Penetration resistance 20 blows per foot (7/10/10) Firm gray slightly silty fine sand Penetration resistance 20 blows per foot (1/1/2/6) Firm gray slightly silty fine sand with clay pockets 40 Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) | - 5 - | Loose tan silt with 3 inch top layer very clayey silty clay po | ckets |
| Loose tan slightly clayey silt with 3 inch center layer silty clay Penetration resistance 6 blows per foot (3/3/3) Very loose tan and gray clayey silt with clay pockets and 3/4 inch clay layer on top Loose gray clayey silt with 4 inch bottom layer of silty clay 15 Soft gray clay with silt pockets and 6 inch bottom layer very silty fine sand Very loose gray slightly clayey silt with 5 inch top layer of silty clay Penetration resistance 3 blows per foot (1/1/2) Loose gray clayey silt with 5 inch bottom layer of clay Penetration resistance 4 blows per foot (1/2/2) 20 Firm gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance 11 blows per foot (1/2/2) 25 Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty sand with clay pockets 30 Penetration resistance 11 blows per foot (2/5/6) Firm gray silty silty fine sand Penetration resistance 20 blows per foot (7/10/10) Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty silty sand with clay pockets 40 Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) | and the second residence | Loose tan slightly clayey silt with clay streaks and 1 inch cl | ay layer |
| Performs for the form of t | _10, _ | Loose tan slightly clayey silt with 3 inch center layer silty Penetration resistance 6 blows per foot | clay (3/3/3) |
| 15Soft gray clay with silt pockets and 6 inch bottom layer very silty fine sand15Very loose gray slightly clayey silt with 5 inch top layer of silty clay Penetration resistance 2 blows per foot 2 loose gray clayey silt with 5 inch bottom layer slightly silty clay 2020Firm gray clayey silt with 5 inch bottom layer slightly silty clay Penetration resistance 4 blows per foot 2 (1/2/2)20Firm gray clayey silt with 1 inch clay layer Penetration resistance 4 blows per foot 2 (1/2/2)25Firm gray silty sand with 3 inch soft gray clay layer26Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty fine sand Penetration resistance Firm gray silty fine sand with clay pockets30Penetration resistance Firm gray silty fine sand with clay pockets35Yerm gray slightly silty fine sand Penetration resistance Firm gray slightly silty fine sand with clay pockets40Yerm gray slightly silty fine sand Penetration resistance Firm gray slightly silty sand Penetration | | layer on top Loose gray clayey silt with 4 inch bottom layer of silty clay | пісні стау |
| Very loose gray slightly clayey silt with 5 inch top layer of silty clay 20Penetration resistance3 blows per foot(1/1/2)20Loose gray clayey silt with 5 inch bottom layer slightly silty clay20Firm gray clayey silt with 1 inch clay layer20Loose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance21Loose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance25Firm gray silty sand with 3 inch soft gray clay layer26Firm gray silty sand with clay pockets and 4 inch center layer very silty clay25Firm gray silty fine sand Penetration resistance30Penetration resistance30Penetration resistance30Firm gray silty fine sand Penetration resistance31blows per foot32Firm gray silty silty fine sand Penetration resistance35Firm gray slightly silty fine sand with clay pockets40Firm gray slightly silty fine sand with clay pockets40Firm gray slightly silty sand Penetration resistance40After gray slightly silty sand Penetration resistance40 | _15 | Soft gray clay with silt pockets and 6 inch bottom layer very sand | silty fine |
| 20Loose gray clayey silt with 5 inch bottom layer slightly silty clay20Firm gray clayey silt with 1 inch clay layer21Loose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance25Firm gray silty sand with 3 inch soft gray clay layer26Firm gray silty sand with clay pockets and 4 inch center layer very silty clay26Firm gray silty fine sand Penetration resistance2711 blows per foot28(2/5/6)29Firm gray silty fine sand Penetration resistance20Penetration resistance2011 blows per foot21(2/5/6)23Firm gray silty sand with clay traces24Firm gray slightly silty fine sand Penetration resistance252026Firm gray slightly silty fine sand Penetration resistance20Solows per foot23724Firm gray slightly silty fine sand Penetration resistance20Solows per foot20Firm gray slightly silty fine sand with clay pockets240Firm gray slightly silty sand Penetration resistance240Firm gray slightly silty sand Penetration resistance241Solows per foot242Solows per foot243Firm gray slightly silty sand Penetration resistance244Solows per foot245Solows per foot246Solows per foot247Solows per foot247Solows per foot248Solows per foot | | Very loose gray slightly clayey silt with 5 inch top layer of Penetration resistance 3 blows per foot | silty clay (1/1/2) |
| Firm gray clayey silt with 1 inch clay layerLoose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance25Firm gray silty sand with 3 inch soft gray clay layerFirm gray silty sand with clay pockets and 4 inch center layer very silty clay30Firm gray silty fine sand Penetration resistance30Firm gray silty fine sand Penetration resistance3132Firm gray silty fine sand Penetration resistance33Firm gray silty fine sand with clay pocketsFirm gray silty sand with clay traces35AFirm gray slightly silty fine sand Penetration resistance35AFirm gray slightly silty fine sand with clay pocketsFirm gray slightly silty fine sand with clay pocketsFirm gray slightly silty fine sand with clay pocketsFirm gray slightly silty sand | _20 . | Loose gray clayey silt with 5 inch bottom layer slightly silty | clay |
| Loose gray slightly clayey silt with 6 inch bottom layer of clay Penetration resistance4 blows per foot(1/2/2)25Firm gray silty sand with 3 inch soft gray clay layer26Firm gray silty sand with clay pockets and 4 inch center layer very silty clay30Firm gray silty fine sand Penetration resistance11 blows per foot(2/5/6)30Firm gray silty fine sand Penetration resistance11 blows per foot(2/5/6)30Firm gray silty sand with clay pockets30Firm gray silty fine sand Penetration resistance12 blows per foot(7/10/10)31Firm gray slightly silty fine sand Penetration resistance20 blows per foot(7/10/10)35Firm gray slightly silty fine sand Penetration resistance21 blows per foot(11/15/16)36Firm gray slightly silty sand Penetration resistance31 blows per foot(11/15/16)37Firm gray slightly silty sand Penetration resistance37 blows per foot(13/16/21) | | Firm gray clayey silt with 1 inch clay layer | |
| Firm gray silty sand with 3 inch soft gray clay layer Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty fine sand Penetration resistance 11 blows per foot (2/5/6) Firm gray silty fine sand with clay pockets Firm gray silty sand with clay traces Firm gray slightly silty fine sand Penetration resistance 20 blows per foot (7/10/10) Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty sand with clay pockets Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | 05 | Loose gray slightly clayey silt with 6 inch bottom layer of cl Penetration resistance 4 blows per foot | ay (1/2/2) |
| Firm gray silty sand with clay pockets and 4 inch center layer very silty clay Firm gray silty fine sand Penetration resistance 11 blows per foot (2/5/6) Firm gray silty fine sand with clay pockets Firm gray slightly silty fine sand Penetration resistance 20 blows per foot (7/10/10) Firm gray slightly silty fine sand with clay pockets Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | | Firm gray silty sand with 3 inch soft gray clay layer | |
| AFirm gray silty fine sand Penetration resistance11 blows per foot(2/5/6)30Penetration resistance11 blows per foot(2/5/6)Firm gray silty fine sand with clay pocketsFirm gray silty sand with clay traces-35AFirm gray slightly silty fine sand Penetration resistance20 blows per foot(7/10/10)Firm gray slightly silty fine sand with clay pocketsFirm gray slightly silty fine sand with clay pockets4040AFirm gray slightly silty sand Penetration resistance31 blows per foot(11/15/16)AFirm gray slightly silty sand Penetration resistance37 blows per foot(13/16/21) | | Firm gray silty sand with clay pockets and 4 inch center layer clay | very silty |
| Firm gray silty sand with clay traces -35 - X Firm gray slightly silty fine sand Penetration resistance 20 blows per foot (7/10/10) Firm gray slightly silty fine sand with clay pockets -40 Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | _30 | Firm gray silty fine sand Penetration resistance 11 blows per foot Firm gray silty fine sand with clay pockets | (2/5/6) |
| 35Firm gray slightly silty fine sand Penetration resistance20 blows per foot(7/10/10)Firm gray slightly silty fine sand with clay pockets40Firm gray sand with clay pockets40Firm gray slightly silty sand Penetration resistance31 blows per footFirm gray slightly silty sand Penetration resistance37 blows per foot(11/15/16)Firm gray slightly silty sand Penetration resistance37 blows per foot(13/16/21) | | Firm gray silty sand with clay traces | |
| Firm gray slightly silty fine sand with clay pockets Firm gray sand with clay pockets Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | -35 - | Firm gray slightly silty fine sand Penetration resistance 20 blows per foot | (7/10/10) |
| Firm gray sand with clay pockets 40 Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | | Firm gray slightly silty fine sand with clay pockets | |
| Firm gray slightly silty sand Penetration resistance 31 blows per foot (11/15/16) Firm gray slightly silty sand Penetration resistance 37 blows per foot (13/16/21) | 10 | Firm gray sand with clay pockets | |
| Penetration resistance 37 blows per foot (13/16/21) | 40 | Firm gray slightly silty sand Penetration resistance 31 blows per foot | (11/15/16) |
| | | Penetration resistance 37 blows per foot | (13/16/21) |
| | | | |
| | | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FP18125

| PROJEC | Cajun Electric Power Cooperative, Inc. Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | RING 851 E 74-30 TE 25 Apr. CHNICIAN MJK | 1977 |
|--------|---|---|------|
| DEPTH | Medium tan and light gray clay with traces of grass roots | 435 Feet | |
| 5 - | Medium tan and gray clay with silt pockets Medium gray clay with silt pockets and streaks | | |
| 10 | Loose tan and gray silt with traces of sand and clay Loose tan and gray clayey silt with sand traces Very loose tan and gray slightly clayey silt with sand traces | | |
| 15 | Penetration resistance 2 blows per 18 inches Very loose tan sandy silt with clay traces Very loose tan and gray silt with clay and sand traces | (1/for 9") | |
| . 20 . | Very loose gray fine sandy silt Penetration resistance 3 blows per foot Firm gray fine sandy silt with clay traces Firm gray fine sandy silt with clay traces | (3/2/1) | |
| _ 25 _ | Loose gray fine sandy silt with 3 inch clay layer Penetration resistance 7 blows per foot Soft gray silty clay with 1 inch bottom layer silty fine sand | (3/2/5) | |
| 30 | Firm gray silty fine sand Firm gray silty fine sand with clay pockets and 4 inch bottom Penetration resistance 20 blows per foot Firm gray silty fine sand with clay streaks and pockets | clay layer (6/9/11) | |
| _ 35 _ | Firm gray slightly silty sand Firm gray silty sand Penetration resistance 23 blows per foot | (7/11/12) | |
| 40 - | Dense gray sand with clay traces and silt layers Very dense gray silty sand Penetration resistance | (12/25 for | 6" |
| - \\\ | Dense gray silty sand Penetration resistance 37 blows per foot | (12/18/19) | 0 |
| | | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| PROJE | CT: Cajun Electric Power Cooper New Roads, Louisiana Cajun Electric Power Cooper Bovay Engineers, Inc., Burn | rative, Inc. Plant No. 2 rative, Inc. ns and Roe, Inc. | BORING 852 FILE 74-30 DATE 19 Apr. 19 TECHNICIAN MN |
|-----------------------|---|--|--|
| DEPTH | SAMPLE INDISTURBED SAMPLE | TANDARD PENETRATION TEST BORI | NG DEPTH 44 Feet |
| | Medium tan and gray clay wit | ch roots | |
| | Medium tan and light gray cl | ay | |
| 5 - | Medium tan and gray clay wit | h silt pockets | |
| | Medium tan and light gray cl bottom of sample Firm tan and light gray slig | ay with silt pockets and t htly clayey slightly sandy | wo ½ inch layers on silt |
| 10 - | Soft tan slightly silty clay Soft tan silty clay with sil silt streaks and pockets | with large silt streak an t lenses and ½" to 1" silt | d silt pockets layer on bottom an |
| 15 | Soft tan and light gray very 1 3/4" silt layer on botto Firm tan silty sand with cla | silty clay with silt lens m y traces | es, pockets and |
| | Loose tan slightly sandy sil | t | |
| 20 | Penetration resistance | 7 blows per foot | (3/3/4) |
| 2 | Loose tan silty sand | | |
| | Very loose tan and gray silt | y sand | |
| 25 | Loose tan very silty sand Penetration resistance | 5 blows per foot | (2/2/3) |
| 481/2 10/2 10/10/0000 | Firm gray silty sand with al | au packate and langes | |
| 30 - | Vloose gray silty sand with ch | ay pockets and renses | |
| | Penetration resistance | 8 blows per foot | (2/2/6) |
| | Loose gray silty sand | | |
| 35 - | Firm gray silty sand with cl | ay pockets | |
| | Penetration resistance Refusal | 11 blows per foot | (2/3/8) |
| 40 - | Penetration resistance | 12 blows per foot | . (2/4/8) |
| | Penetration resistance | 31 blows per foot | (9/13/18) |
| | Penetration resistance | 31 blows per foot | (11/14/17) |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| | LOG OF BORING | |
|-----------|--|---|
| PROJECT | Cajun Electric Power Cooperative, Inc., Plant No. 2 New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Boway Engineers, Inc. Burns and Roe, Inc. | BORING (853) FILE 74-30 DATE 18 Apr. 197 TECHNICIAN MN |
| H LE L | | |
| | UNDISTURBED SAMPLE IS STANDARD PENETRATION TEST BORING D | EPTH 4312 Feet |
| · •·· | Stiff tan and gray clay with roots and sill traces | |
| | Medium tan and gray clay with silt pockets | |
| 5 | Very soft tan and gray very silty clay with silt pockets | |
| | Soft tan and gray silty clay with 4 inch silt layer on bot | ttom |
| ··· | Firm tan sandy silt with clay traces | |
| 10 | Very loose tan silt with clay pockets and sand traces | |
| 📈 | Loose tan sandy silt with clay traces | |
| | Penetration resistance & blows per foot | (2/3/5) |
| 15 | Soft gray very silty clay with silt lenses and 1" | silt layer on |
| · · · | Firm brown and gray sandy silt with clay pockets, lenses a | and ½" clay layer |
| | Firm brown silty sand | • |
| _ 20 X | Firm brown silty sand | (2/5/7) |
| | Medium gray clay with silt traces and silt lenses | (3/5//) |
| | | • • • |
| 25 - | Firm gray saily sand with glay pockets and shit streaks | |
| | Firm gray silty sand | |
| <u> </u> | Loose gray silty sand | (2/286) |
| | Firm gray silty sand | (2/3/0) |
| | Firm pray silty sand | |
| 25 . M | Firm grav silty sand | - |
| A | Penetration resistance 15 blows per foot | (2/6/9) |
| | Firm gray silty sand | |
| 40 | Firm gray silty said with clay streaks | |
| | Dense gray silty sand | 49/14/181 |
| | Dense gray silty sand | |
| | renetration resistance 31 blows per foot | [//13/18] |
| | | |
| | | |
| | 가 가 있는 것은 | |
| | | |

• • •

FF10125

| PROJECT | Cajun Electric Po New Roads, Louisi | wer Cooperative, Inc ana | . Plant No. 2 | BORING V 854 File 74-30 |
|--------------|---|--|--|-----------------------------------|
| FOR | Cajun Electric Po Bovay Engineers, | wer Cooperative, Inc Inc., Burns and Roe, | Inc. | DATE 18 Apr. 197 TECHNICIAN MN |
| I | | | · · · · · · · · · · · · · · · · · · · | |
| MPL FEET | - | a | | |
| | UNDISTURBED GAMPLE | STANDARD PENETRA | TION TEST BORIN | G DEPTH 41 ¹ 2 Feet |
| | Medium tan and gray | clay with roots | | |
| | Medium tan and gray | clay with silt trace | S | |
| - 5 | 1edium tan and gray | clay with silt pocke | ts in bottom of | sample |
| | oose tan and gray c | layey silt with 3 in | ch medium clay 1 | layer on bottom |
| | Soft tan and gray si | lty clay with two 1 | inch silt layers | 5 |
| - 10 - | Medium tan slightly | silty clay with silt | pockets and ler | ises |
| F | irm tan and gray sl | ightly sandy slightl | y clayey silt | |
| - | lery loose tan and q | ray slightly sandy s | lightly clayey s | ilt |
| _ 15 🔀 F | ery loose tan and a 'enetration resistan | ray very clayey silt ce | with 3 inch ver | y silty clayey (1/1/2) |
| · | oose tan and pray s | lightly sandy silt w | ith 15 inch and | 3% inch clay |
| | layer on bottom | nadu atla stratu y | -h -1 1 | |
| - 20 - | pose gray stagning : | Sanuy Stit with & in | ch clay layer on | DOTTOM |
| | layer on bottom | clay with silt lens | es, sand lenses | and 2 inch sand |
| | enetration resistant off oray slightly e | Ce 6 blows | per foot | (2/2/4) |
| F | in dray slightly s | ilty sand with 1 incl | i clav laver | Streaks and sand |
| - 25 - V | ery loose gray silty | sand with clay poch | ets a charle | |
| L | oose gray silty sam | | | |
| | enetration resistant | e 8 blows | per foot | (2/3/5) |
| F | irm gray silty sand | | | |
| - 30 - | oose grav silty sand | with silt streaks | pockets and cl | a Calendary |
| | layers | | pockers, and er | |
| | enetration resistance | e 4 hlows | ner foot | 1/2/2) |
| - 35 F | irm grav silty sand | | | |
| , | | | | |
| F | irm gray silty sand | with organic traces | | |
| - XD | ense gray silty send | | | |
| 40 | enerration resistance ense pravisilty sand | 43 DIOWS | per foot | (12/21/22) |
| ΔP | enetration resistanc | e 34 blows | per foot | (10/17/17) |
| | | | | |
| | | | | |
| | | | | |
| | | | Contraction of the second | |
| | | | | |
| | | | and a state of the | |
| | <u> </u> | | | |

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

4

FP18375

· . ,

-

LUG UP BURING

0

1

(

È

| Prover Cajun Electric Power Cooperative, Inc. Plant No. 2 Source - 855 Prom Cajun Electric Power Cooperative, Inc. Description Description Boyay Engineers, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Roe, Inc. Description Description Cajun Electric Power Cooperative, Inc. Burns and Power Electric Power Electr | | | UF BURING | -, |
|--|---------------------------------------|--|-----------------------------|---|
| Cajun Electric Power Cooperative, Inc. Date 15 Apr. 19 Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Bovay Engineers, Inc Burns and Roe, Inc. TECHNICIAN _ NUK. Very stiff tan and gray clay with silt pockets and traces of grass roots Stiff tan and gray clay with silt pockets and traces Loose tan silt with traces of clay and sand Loose tan sandy silt with clay streaks (3/6/7) Firm tan sandy silt with clay traces Loose tan silty fine sand with clay traces Loose tan silty fine sand with clay lumps Loose tan silty fine sand with clay traces Loose tan silty fine sand with clay traces Loose tan silty fine sand Cose gray silty fine sand with clay traces Loose gray silty fine sand Elever foot (3/4/5) Z5 Loose tan silty fine sand Dows per foot (3/4/5) Cose gray silty fine sand Cose gray silty fine sand Dows per foot (3/4/5) Cose gray silty fine sand Cose gray silty fine sand Cose gray fine sand Dows per | PROJECT | Cajun Electric Power Coope New Roads, Louisiana | rative, Inc. Plant No. 2 | BORING 855 |
| Image: Construction of the second of the | FOR | Cajun Electric Power Cooper Bovay Engineers, Inc., Burn | rative, Inc. | DATE 15 APP. 19 TECHNICIAN MUK |
| 0 S Output nets sample With sample provide provide same beam of the same of the sa | DEPTH FEET MPLES | | | . <u>.</u> |
| Very stiff tan and gray clay with silt pockets and traces of grass roots Stiff tan and gray clay with silt traces. Loose tan silt with traces of clay and sand Loose tan slightly clayey silt with sand traces Loose tan slightly clayey silt with sand traces Loose tan slightly clayey silt with sand traces Firm tan sandy silt Penetration resistance Loose tan fine sandy silt Loose tan fine sandy silt Penetration resistance Blows per foot (2/3/5) Firm tan silty fine sand with clay traces Loose gray silty fine sand Loose gray silty fine sand Loose gray silty fine sand Soft gray clay with silt lenses and 4 inch bottom layer tery silty fine sand Penetration resistance Jouws per foot (1/14/13) Coff gray clay with silt lenses and 4 inch bottom layer tery silty fine sand Penetration resistance Jouws per foot (1/12/12) Penetration resistance Penetration resistance Penetration resistance<td>0</td><td>UNDISTURBED SAMPLE</td><td>TANDARD PENETRATION TEST</td><td>S DEPTH 412 Feet</td> | 0 | UNDISTURBED SAMPLE | TANDARD PENETRATION TEST | S DEPTH 412 Feet |
| Stiff tan and gray clay with silt traces 5 Loose tan silt with traces of clay and sand Loose tan slightly clayey silt with sand traces 10 Firm tan sandy silt with clay streaks 10 Firm tan sandy silt with clay streaks 11 Penetration resistance 12 Loose tan silty fine sandy silt Penetration resistance 13 Loose tan silty fine sand with clay pockets 14 15 Loose tan silty fine sand with clay traces 16 Loose tan silty fine sand with clay pockets 17 18 Loose tan silty fine sand 19 Loose tan silty fine sand 20 10 21 225 Loose gray silty fine sand 230 231 232 233 233 234 234 235 236 236 237 238 | ÷ | Very stiff tan and gray clay | with silt pockets and trace | es of grass roots |
| 5 Loose tan silt with traces of clay and sand 10 Loose tan slightly clayey silt with sand traces 10 Firm tan sandy silt with clay streaks 10 Firm tan sandy silt with clay streaks 10 Firm tan sandy silt with clay streaks 10 Firm tan sandy silt with clay traces 11 Loose tan sindy silt with clay traces 12 Loose tan fine sandy silt 13 Loose tan silty fine sand with clay pockets 14 Penetration resistance 8 blows per foot 15 Loose tan silty fine sand with clay traces 16 Loose tan silty fine sand with clay traces 17 Loose gray silty fine sand 18 Loose gray silty fine sand 19 Loose gray silty fine sand 10 Penetration resistance 9 blows per foot 10 Penetration resistance 20 blows per foot 10 Penetration resistance 22 blows per foot 10 <t< td=""><td>·</td><td>Stiff tan and gray clay with</td><td>silt traces</td><td></td></t<> | · | Stiff tan and gray clay with | silt traces | |
| Loose tan slightly clayey silt with sand traces Loose tan sandy silt with clay streaks Firm tan sandy silt with clay streaks Firm tan sandy silt with 5% inch layer silty clay Loose tan sandy silt with clay traces Loose tan fine sandy silt Penetration resistance 8 blows per foot (2/3/5) Firm tan silty fine sand with clay pockets Loose tan silty fine sand with clay impos Loose tan silty fine sand with clay traces Loose tan silty fine sand with clay traces Loose gray silty fine sand with clay traces Loose gray silty fine sand with clay traces Loose gray silty fine sand Penetration resistance 9 blows per foot (3/4/5) Loose gray silty fine sand Penetration resistance 20 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 17 blows per foot (4/7/13) Penetration resistance 20 blows per foot (4/7/10) Firm gray fine sand Penetration resistance 27 blows per foot (4/7/10) Firm gray fine sand Penetration resistance 27 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 27 blows per foot (4/7/10) Firm gray fine sand Penetration resistance 27 blows per foot (5/18/22) Penetration resistance 27 blows p | . 5 | Loose tan silt with traces o | f clay and sand | |
| Loose tan sandy silt with clay streaks Firm tan sandy silt Penetration resistance 13 blows per foot (3/6/7) Firm tan sandy silt with 55 inch layer silty clay Loose tan sandy silt with clay traces Loose tan silty fine sand with clay pockets Loose tan silty fine sand with clay lumps Loose tan silty fine sand with clay lumps Loose tan silty fine sand with clay traces Loose gray silty fine sand Loose gray fine sand Loose gray fine sand Dense gray fine sand Penetration resistance Jobus per foot (4/7/13) Dense gray fine sand Penetration resistance Jobus per foot (4/7/10) Firm gray clay with silt Tenses and 4 inch botton layer very silty fine Penetration resistance Jobus per foot (4/7/10) Penetration resistance Jobus per foot (Jobus per foot (Jobus fine sand Penetration resistance Jobus fine sand Penetration resistance Jobus fine sand Penetration resistance Jobus fine sand Penetration resistance Jobus fine sand Penetration res | | Loose tan slightly clayey si | It with sand traces | |
| 10 X Firm tan sandy silt 13 blows per foot (3/6/7) Firm tan sandy silt with 55 inch layer silty clay 15 Loose tan sandy silt with clay traces 15 15 Loose tan sandy silt with clay traces X Loose tan fine sandy silt (2/3/5) 16 Penetration resistance 8 blows per foot (2/3/5) 20 Loose tan silty fine sand with clay traces 20 (3/4/5) 20 Loose tan silty fine sand with clay traces 20 (3/4/5) 20 Loose tan silty fine sand 20 (3/4/5) 21 Loose gray silty fine sand 20 (3/4/5) 22 Loose gray silty fine sand 20 (3/4/5) 23 Loose gray silty fine sand (3/4/5) 24 Loose gray silty fine sand (3/4/5) 25 Loose gray silty fine sand (3/4/5) 26 Penetration resistance 20 blows per foot (3/4/5) 27 Loose gray silty fine sand (3/4/5) (3/4/5) 28 Dows per foot (4/7/13) (3/4/5) 29 Penetration resistance 20 blows per foot (| 10 | Loose tan sandy silt with cla | ay streaks | |
| Firm tan sandy silt with 5% inch layer silty clay 15 Loose tan sandy silt with clay traces 20 Loose tan fine sandy silt 20 Penetration resistance 8 blows per foot (2/3/5) 21 Firm tan silty fine sand with clay pockets 20 Loose tan silty fine sand with clay imps 22 Loose tan silty fine sand with clay imps 23 Loose gray silty fine sand with clay traces 24 Loose gray silty fine sand with slightly clayey silt layers and traces of 25 Loose gray silty fine sand 26 Loose gray silty fine sand 27 Loose gray silty fine sand 28 Loose gray silty fine sand 29 blows per foot (3/4/5) 29 Loose gray silty fine sand 20 Penetration resistance 9 blows per foot (4/7/13) 20 Penetration resistance 32 blows per foot (4/7/13) 26 Dense gray fine sand 27 Penetration resistance 75 blows per foot (4/7/10) 27 Soft gray clay with silt Peness and 4 inch bottom layer tery silty fine 20 Penetration resistance 75 blows per foot (4/7/10) 29 Penetration resistance 75 blows per foot (4/7/10) 29 Penetration resistance 75 blows per foot (4/7/10) 20 Penetration resistance 75 blows per foot (4/7/10) 21 Penetration resistance 75 blows per foot (4/7/10) 22 Pense gray fine sand 23 blows per foot (5/13/12) 24 Penetration resistance 75 blows per foot (5/13/12) 25 Pense gray fine sand fine blows per foot (5/13/12) 26 Penetration resistance 75 blows per foot (5/13/12) 27 Pense gray fine sand fine blows per foot (5/13/12) 27 Pense gray fine sand fine blows per foot (5/13/12) 28 Penetration resistance 75 blows per foot (5/13/12) 29 Penetration resistance 75 blows per foot (5/13/12) 20 Penetration resistance 75 blows per foot (5/13/12) 20 Penetration resistance 75 blows per foot (5/13/12) 29 Penetration resistance 75 blows per foot (5/13/12) 20 Penetration resis | <u> </u> | Firm tan sandy silt Penetration resistance | 13 blows per foot | (3/6/7) |
| 15 Loose tan sandy silt with clay traces Loose tan fine sandy silt Penetration resistance 8 blows per foot (2/3/5) 20 Firm tan silty fine sand with clay pockets 20 (3/4/5) 20 Loose tan silty fine sand with clay lumps (3/4/5) 21 Loose tan silty fine sand with clay lumps (3/4/5) 22 Loose gray silty fine sand with clay traces (3/4/5) 23 Loose gray silty fine sand with slightly clayey silt layers and traces of 24 Loose gray silty fine sand 25 Loose gray silty fine sand 26 Loose gray silty fine sand 27 Loose gray silty fine sand 28 Loose gray silty fine sand 29 Loose gray silty fine sand 20 Loose gray silty fine sand 20 Penetration resistance 20 blows per foot 20 Penetration resistance 32 blows per foot 21 Ying gray clay with silt lenses and 4 inch bottom layer very silty fine entroper foot (4/7/10) 29 Penetration resistance 17 blaws per foot (7/12/12) 20 Penetration resistance 12 blows per foot (5/3 | | Firm tan sandy silt with 5½ i | inch layer silty clay | |
| A Loose tan fine sandy silt 8 blows per foot (2/3/5) Firm tan silty fine sand with clay pockets 10058 tan silty fine sand with clay lumps (3/4/5) 20 Loose tan silty fine sand with clay lumps (3/4/5) 21 Loose tan silty fine sand with clay lumps (3/4/5) 25 Loose gray silty fine sand 9 blows per foot (3/4/5) 25 Loose gray silty fine sand 1 (3/4/5) 26 Loose gray silty fine sand 1 (3/4/5) 27 Loose gray silty fine sand (3/4/5) 28 Loose gray silty fine sand (3/4/5) 29 Loose gray silty fine sand (3/4/5) 20 Loose gray silty fine sand (3/4/5) 29 Loose gray silty fine sand (3/4/5) 20 Penetration resistance 9 blows per foot (4/7/13) 20 Penetration resistance 20 blows per foot (4/7/14/17) 35 Xoft gray clay with silt lenses and 4 inch bottom layer tery silty fine (4/7/10) 21 Penetration resistance 20 blows per foot (7/12/12) 22 Penetration resistance 20 blows per foot | 15 | Loose tan sandy silt with cla | y traces | en an Araban An Analas an Angela an Angela an Angela Angela Angela Manana an Angela an |
| Firm tan silty fine sand with clay pockets Loose tan silty fine sand Penetration resistance 9 blows per foot (3/4/5) Loose gray silty fine sand with clay traces Loose gray silty fine sand with slightly clayey silt layers and traces of Penetration resistance 9 blows per foot (4/4/5) Firm gray very silty fine sand Penetration resistance 20 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 17 blows per foot (4/7/14/17) Soft gray clay with silt lenses and 4 inch bottom layer very silty fine Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 22 blows per foot (4/7/10) Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 22 blows per foot (4/7/10) Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 23 blows per foot (5/13/12) Penetration resistance 24 blows per foot (5/13/12) Penetration resistance 25 blows per foot (5/13/12) Penetration resistance 26 blows per foot (5/13/12) Penetration resistance | | Loose tan fine sandy silt | 8 blows per foot | (2/3/5) |
| Loose tan silty fine sand with clay lumps Loose tan silty fine sand Penetration resistance Blows per fpot (3/4/5) Loose gray silty fine sand with clay traces Loose gray silty fine sand with slightly clayey silt layers and traces of Penetration resistance Blows per foot Penetration resistance Blows per foot (4/7/13) Dense gray fine sand Penetration resistance Dows per foot (7/14/17) Soft gray clay with silt lenses and 4 inch bottom layer very silty fine penetration resistance Penetration resistance Dows per foot (4/7/10) Penetration resistance Phaws per foot (4/7/10) Penetration resistance Dows per foot (1/12/12) Penetration resistance Ponetration resis | · · · · · · · · · · · · · · · · · · · | Firm-tan silty fine sand with | a clav pockets | ([]]]] |
| Loose tan silty fine sand Penetration resistance 9 blaws per foot (3/4/5) 25 Loose gray silty fine sand with clay traces Loose gray silty fine sand with slightly clayey silt layers and traces of Penetration resistance 9 blows per foot (4/7/13) Penetration resistance 20 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 32 blows per foot (4/7/14) 35 Soft gray clay with silt Penses and 4 inch bottom layer very silty fine Penetration resistance 17 blaws per foot (4/7/10) Penetration resistance 24 blows per foot (7/12/12) Dense gray fine sand 25 blows per foot (4/7/10) Penetration resistance 17 blaws per foot (4/7/10) Penetration resistance 24 blows per foot (5/13/13) Pense gray fine sand 25 blows per foot (5/13/13) Pense gray fine sand 26 blows per foot (5/13/13) Pense gray fine sand 32 blows per foot (5/13/13) Pense gray fine sand 52 blows per foot (5/13/13) Pense gray fine sand 52 blows per foot (5/13/2) Pense fine fine fine fine fine fine fine fin | 20 | oose tan silty fine sand wit | th clay lumps | |
| Denetration resistance 9 blows per foot (3/4/5) 25 Loose gray silty fine sand with clay traces Loose gray silty fine sand 1000000000000000000000000000000000000 | | oose tan silty fine sand | | |
| Loose gray silty fine sand Loose gray silty fine sand Nenetration resistance Penetration re | 25 | Penetration resistance | 9 blows per foot | (374/5) |
| Loose gray silty fine sand Loose gray silty fine sand with slightly flayey silt layers and traces of Penetration resistance 9 blows per foot (4/7/13). Penetration resistance 20 blows per foot (4/7/13). Dense gray fine sand Penetration resistance 32 blows per foot (7/14/17) Soft gray clay with silt lenses and 4 inch bottom layer very silty fine Penetration resistance 17 blows per foot (4/7/10) Firm gray fine sand Penetration resistance 24 blows per foot (4/7/10) Penetration resistance 24 blows per foot (5/13/12) Pense gray fine sand Penetration resistance 32 blows per foot (5/13/12) Pense gray fine sand Penetration resistance 32 blows per foot (5/13/12) Pense gray fine sand Penetration resistance 32 blows per foot (5/13/2) Pense gray fine sand | | ouse gray stity tine sand wi | In Clay Iraces | |
| Loose gray silty fine sand with slightly flayey silt layers and traces of 9 blows per foot [4/7/13] Penetration resistance 20 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 32 blows per foot (7/14/17) 35 Soft gray clay with silt lenses and 4 inch bottom layer very silty fine Sand Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 24 blows per foot (4/7/10) Penetration resistance 25 blows per foot (4/7/10) Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 26 blows per foot (4/7/10) Penetration resistance 27 blows per foot (4/7/10) Penetration resistance 28 blows per foot (4/7/10) Penetration resistance 27 blows per foot (5/13/17) Pense gray fine sand Penetration resistance 32 blows per foot (5/13/17) Pense gray fine sand 4 for per fo | | oose gray silty fine sand | | |
| 30 Penetration resistance 9 blows per foot [4/4/5] Signature 20 blows per foot (4/7/13) Dense gray fine sand 32 blows per foot (7/14/17) 35 Soft gray clay with silt lenses and 4 inch bottom layer very silty fine (4/7/10) 36 Penetration resistance 17 blows per foot (4/7/10) 35 Soft gray clay with silt lenses and 4 inch bottom layer very silty fine (4/7/10) 36 Penetration resistance 17 blows per foot (4/7/10) 37 Penetration resistance 17 blows per foot (4/7/10) 38 Penetration resistance 17 blows per foot (1/12/12) 39 Penetration resistance 24 blows per foot (7/12/12) 30 Penetration resistance 30 blows per foot (5/13/17) 30 Penetration resistance 32 blows per foot (5/13/12) 31 Penetration resistance 32 blows per foot (5/13/12) 32 Penetration resistance 32 blows per foot (5/13/12) 32 Penetration resistance 32 blows per foot (5/13/12) 33 Penetration resistance | | ogse gray silty fine sand wi | th slightly clavey silt law | ers and traces of |
| Penetration resistance 20 blows per foot (4/7/13) Dense gray fine sand Penetration resistance 32 blows per foot (7/14/17) Soft gray clay with silt lenses and 4 inch bottom layer very silty fine enetration resistance 17 blows per foot (4/7/10) Firm gray fine sand Penetration resistance 24 blows per foot (7/12/12) Dense gray fine sand Penetration resistance 30 blows per foot (5/13/17) Dense gray fine sand Penetration resistance 32 blows per foot (5/13/17) Dense gray fine sand Penetration resistance 32 blows per foot (5/13/17) | 30 | enetration resistance | 9 blows per foot | (4/4/5) |
| Dense gray fine sand Penetration resistance 32 blows per foot (7/14/17) 35 Soft gray clay with silt lenses and 4 inch bottom layer very silty fine Sandation resistance 17 blows per foot (4/7/10) Penetration resistance 24 blows per foot (7/12/12) Dense gray fine sand with clay traces Penetration resistance 130 blows per foot (5/13/17) Dense gray fine sand Penetration resistance 32 blows per foot (5/13/17) | <u> </u> | enetration resistance | 20 blows der fact | Δ/7/12 |
| Penetration resistance 32 blows per foot. (7/14/17) Soft gray clay with silt lenses and 4 inch bottom layer very silty fine Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 24 blows per foot (7/12/12) Penetration resistance 30 blows per foot (5/13/17) Penetration resistance 32 blows per foot (5/13/17) Penetration resistance 32 blows per foot (5/18/22) | | ense gray fine sand | | a sector a s |
| 35 Xbott gray clay with silt lenses and 4 inch bottom layer very silty fine Sand Penetration resistance Venetration resistance 40. Penetration resistance 40. Penetra | 9 | enetration resistance | 32 blows per foot | (7/14/17) |
| Penetration resistance 17 blows per foot (4/7/10) Penetration resistance 24 blows per foot (7/12/12) Penetration resistance 30 blows per foot (5/13/17) Penetration resistance 32 blows per foot (5/13/22) Penetration resistance 32 blows per foot (5/10/22) | 35 X | sand sand | es and 4 inch bottom layer | very silty fine |
| Penetration resistance 24 blows per foot (7/12/12) Dense gray fine sand with clay traces: enetration resistance 30 blows per foot (5/13/17) Dense gray fine sand Penetration resistance 32 blows per foot (5/10/22) 15/10/22) | | irm gray fine sand | 17 blows per Toot | (4/7/10) |
| ADense gray fine sand with clay traces 40. Penetration resistance Dense gray fine sand Penetration resistance 32 blows per foot (5/10/22) | <u> </u> | enetration resistance | 24 blows per foot | 7/12/121 |
| 40. Pense gray fine sand Penetration resistance 32 blows per foot (5/18/22) | X | ense gray fine sand with cla | y treces | |
| Penetration resistance 32 blows per foot (5/18/22) | 40. | ene nation resistance is | SU DIOWS PET TOLL | |
| | | enetration resistance | 12 blows per foot | 4 45/1B/221 |
| | ***T | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

PP 18185

£.

| PROJECT | Cajun Electric Power Cooperative, Inc. BORING -856 New Roads, Louisiana - 74-30 |
|---------------------------------------|--|
| FOR | Cajun Electric Power Cooperative, Inc. JATE 31 May 1977 Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN NLT |
| O DEPTH SAMPLES | UNDISFURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEET |
| | Stiff gray clay with silt traces and roots |
| er | Stiff gray clay with silt pockets |
| · 5 | Firm gray clayey silt with roots |
| · · · · · · · | Firm gray clayey silt |
| 10 | Firm gray slightly clayey silt |
| | |
| | Boring <u>~857</u> Boring Depth 10 feet |
| | |
| | |
| - 0. | Medium dark gray clay with roots |
| | Medium gray clay |
| - 5 - | Medium gray slightly silty clay |
| | Medium gray clay with silt pockets |
| -10 - | Soft gray very silty clay with roots |
| | |
| | - Boring <u>~858</u> Boring Depth 10 feet |
| | |
| | |
| - 0 | |
| · · · · · · · · · · · · · · · · · · · | Stiff gray clay with silt traces |
| | Medium gray clay with silt traces |
| - 5 | Loose gray slightly clayey silt |
| | Soft gray very silty clay |
| -10 - | Firm gray silt |
| | |

.

| | LOG OF BC | DRING | |
|--|---|---------------------------------------|---------------------------------|
| PROJECT | Cajun Electric Power Cooperative, In New Roads, Louisiana | nc. | BORING 859 |
| FOR | Cajun Electric Power Cooperative, In Bovay Engineers, Inc., Burns and Ro | nc. e, Inc. | DATE 2 JUNE] TECHNICIAN NLT |
| O PEET SAMPLES | UNDISTURSED SAMPLE | ETRATION TEST BORING C | ертн 10 feet |
| | Stiff gray clay with silt traces and | d roots~ | |
| · · · · · · · · · · · · · · · · · · · | Stiff gray clay with silt traces | • | |
| 5 | Loose gray slightly clayey silt | | |
| ······ | Soft gray very silty clay | • | |
| | Firm gray silt | | |
| ······································ | ана са селото на село В селото на селото на Посто на селото на се | | |
| | | Boring | 360 |
| | | Boring Depth 10 |) feet |
| | | | |
| | | • | • • |
| 0 | Stiff grav clay with silt traces and | 1 roots | |
| | Medium grav clav with silt traces ar | d roots | |
| - 5 - | Soft oray silty clay | · · · · · · · · · · · · · · · · · · · | · . |
| | Soft gray slightly silty clay | • | |
| | Very loose gray clavey silt | | - (|
| -10 | very loose gray crayey sinc | - | • |
| | | Boring | 361 |
| | | Boring Depth 10 | feet |
| | | | |
| | | | |
| - 0 | | | , |
| **** | Medium gray clay with silt traces | | |
| 5 | Medium gray clay with silt traces | | |
| | Medium gray clay with silt traces | | |
| | Medium gray slightly silty clay | - | |
| - 10 | Loose gray clayey silt | | |

4

r v

| LOG OF I | BORING |
|----------|--------|
|----------|--------|

Ę

 \mathbf{C}

C.

0

Э

| | · | |
|----------|---|------------------------------------|
| PROJECT | Cajun Electric Power Cooperative, Inc. | DRING 862 |
| | New Koads, Louisiana | LE (4-30 |
| FOR | Lajun Electric Power Cooperative, Inc. | ate 2. june, 19 echnician - NLT |
| | Bovay Engineers, Inc., Burns and Roe, Inc. | |
| E P | | |
| PE PE | STANDARD PENETRATION TEST BORING GEPTH | 10 feet |
| | | |
| | Stiff gray clay with silt traces and roots \sim | |
| | Stiff gray clay with silt traces | |
| 5. | Medium grav clay with silt traces | |
| | | |
| • • • | Medium gray clay | |
| -10 | Nedium gray slightly silty clay with organic traces | |
| <u> </u> | | |
| | | |
| | | |
| | Boring | 863 |
| | Boring Depth 1 |) feet |
| | | |
| | | • - |
| | | |
| | Stiff gray clay with silt traces | |
| | Medium gray clay with silt traces | |
| 5 | Nedium grav clav with silt traces | |
| | | |
| | Medium gray clay with silt traces | |
| 10 | Soft gray clay with silt traces | |
| | | . · |
| | | |
| | • Boring 86 | 4 |
| 41 | Boring Depth 10 | feet |
| | | |
| | | |
| | | |
| | Stiff tan and gray clay with root traces | |
| | | |
| | Stiff tan and gray clay | |
| 5 | Stiff tan and gray slightly silty clay with silt traces | |
| | Medium tan and grav clav with silt traces | |
| | | |
| 10 | Stiff tan and gray clay | |
| | | |

۹

4

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| PROJECT | Cajun Electric Power Cooperative, Inc. BORING 865 New Roads, Louisiana 74-30 |
|---------------------------------------|--|
| FOR | Cajun Electric Power Cooperative, Inc. DATE 22 June 1977 Bovay Engineers, Inc., Burns and Roe, Inc. Technician DPS |
| DEFTH FEET | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 feet |
| | Stiff gray clay with root traces |
| · · · · · · · · · · · · · · · · · · · | Stiff tan and gray clay |
| - 5 | Medium tan and gray clay |
| - 10 | Medium tan and gray clay Medium tan and gray slightly silty clay |
| - 10 - 0 - 5 - 10 | Boring <u>866</u> Boring Depth <u>10 feet</u> Stiff tan and gray clay with roots Stiff tan and gray clay with silt traces Medium tan and gray silty clay with silt pockets Medium tan and gray silty clay Medium tan and gray silty clay with silt pockets |
| 0 | Boring <u>867</u> Boring Depth <u>10 feet</u> Stiff tan and gray slightly silty clay Very stiff tan and gray silty clay with silt lenses |
| - 5 | Loose tan and gray silt with clay pockets |
| 10 | Very loose tan silt |

C

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

| ron Cajun Electric Power Cooperative, Inc. Dare 22 June 19 Bovay Engineers, Inc., Burns and Roe, Inc. Dere 22 June 19 Stiff gray clay with roots Standand PENETRATION TEST BORING DEFTH 10 feet Stiff gray clay with roots Very stiff tan and gray slightly silty clay Medium tan and gray slightly silty clay 5 Medium tan and gray silt with clay traces and sand traces 10 Boring B69 10 Boring Depth 10 feet 10 Stiff tan and gray clay with root traces Boring B69 10 Stiff tan and gray clay with root traces Boring Depth 10 Stiff tan and gray slightly silty clay 6 Stiff tan and gray slightly silty clay 10 Boring Depth 10 feet 10 Stiff tan and gray slightly silty clay 5 Stiff tan and gray slightly silty clay 6 Stiff tan and gray slightly silty clay 10 Boring Depth 10 feet 10 Stiff tan and gray slightly silty clay 5 Stiff gray clay with roots 5 Stiff tan and gray clay 6 Stiff tan and gray clay 7 | PROJECT | Cajun Electric Power Cooperative, Inc. | 860 74-30 |
|--|---------------------------------------|---|--------------|
| TECHNICIAN DPS Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN DPS UNDISTURGED GAMPLE Stiff gray clay with roots 0 Stiff gray clay with roots Some converse of the colspan="2" stiff gray clay with roots 5 Wedium tan and gray slightly slightly slightly clay Medium tan and gray slightly the clay traces and sand traces 10 Boring Boring BS9 10 Boring BS9 10 Boring Depth 10 feet 10 Stiff tan and gray clay Stiff tan and gray clay with roots 5 Stiff tan and gray clay with slit pockets Stiff tan and | FOR | Cajun Electric Power Cooperative, Inc. | 22 June 1977 |
| Image: Stiff gray clay with roots 0 Stiff gray clay with roots Very stiff tan and gray slightly silty clay 5 Medium tan and gray very silty clay with silt pockets Loose tan and gray silt with clay traces and sand traces 10 0 10 10 10 10 10 10 10 10 10 10 10 10 11 12 13 14 15 16 17 18 19 10 10 10 11 12 13 14 14 15 16 17 18 19 10 10 11 12 13 14 15 14 <th></th> <th>Bovay Engineers, Inc., Burns and Roe, Inc.</th> <th>HCIAN DPS</th> | | Bovay Engineers, Inc., Burns and Roe, Inc. | HCIAN DPS |
| Stiff gray clay with roots Very stiff tan and gray slightly silty clay Medium tan and gray very silty clay with silt pockets Loose tan and gray silt with clay traces and sand traces Very loose tan and gray silt with sand traces Boring <u>869</u> Boring <u>869</u> Boring Depth <u>10 feet</u> Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray slightly silty clay Medium tan and gray slit with clay traces Very loose tan silt Boring <u>870</u> Boring Depth <u>10 feet</u> Stiff gray clay with roots Stiff tan and gray clay with silt pockets | DEPTH DEPTH FEET SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 | feet |
| Very stiff tan and gray slightly silty clay Medium tan and gray very silty clay with silt pockets Loose tan and gray silt with clay traces and sand traces Very loose tan and gray silt with sand traces Very loose tan and gray silt with sand traces Boring <u>869</u> Boring Depth <u>10 feet</u> 0 Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray slightly silty clay Medium tan and gray slight with clay traces Very loose tan silt 0 Stiff gray clay with roots Stiff tan and gray clay with roots Stiff tan and gray clay with roots Stiff tan and gray clay with slit pockets | | Stiff gray clay with roots | |
| Medium tan and gray very silty clay with silt pockets Loose tan and gray silt with clay traces and sand traces Very loose tan and gray silt with sand traces Boring 869 Boring Depth 10 feet Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray clayey silt Loose tan and gray slit with clay traces Very loose tan silt Boring 870 Boring 870 Boring Depth 10 feet Stiff gray clay with roots Stiff tan and gray clay with silt pockets | · · · · · · · · · · · · · · · · · · · | Very stiff tan and gray slightly silty clay | |
| Loose tan and gray silt with clay traces and sand traces Very loose tan and gray silt with sand traces 10 Boring Boring B69 Boring Depth 10 feet 0 5 5 5 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 | 5 | Medium tan and gray very silty clay with silt pockets | - |
| Very loose tan and gray silt with sand traces Boring <u>869</u> Boring Depth <u>10 feet</u> 0 5 5 5 6 6 7 7 7 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 | | Loose tan and gray silt with clay traces and sand traces | |
| Boring 869 Boring Depth 10 feet Boring Depth 10 feet Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt Boring 870 Boring Depth 10 feet Stiff gray clay with roots Stiff tan and gray clay Stiff tan and gray clay Stiff tan and gray clay with silt pockets | - 10 | Very loose tan and gray silt with sand traces | |
| Boring Boring B69 Boring Depth 10 feet O Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay 5 Medium tan and gray clayey silt Loose tan and gray slightly traces Very loose tan silt Boring B70 Boring Depth 10 feet O Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay Stiff tan and gray clay with silt pockets | 10 | | |
| Boring Depth 10 feet 0 Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt Boring <u>B70</u> Boring Depth <u>10 feet</u> 0 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | • Boring 86 | 9 |
| 0 Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay 5 Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt 0 Stiff gray clay with roots 5 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay | | Boring Depth 10 f | eet - |
| 0 Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay 5 Medium tan and gray clayey silt Loose tan and gray silt with clay traces 10 Very loose tan silt 10 Boring 870 Boring Depth 10 feet 0 Stiff gray clay with roots 5 Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | | |
| Stiff tan and gray clay with root traces Stiff tan and gray slightly silty clay Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt Boring <u>870</u> Boring Depth <u>10 feet</u> Stiff gray clay with roots Stiff tan and gray clay Stiff tan and gray clay with silt pockets | 0 | | · • |
| Stiff tan and gray slightly silty clay Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt Boring B70 Boring Depth 10 feet Stiff gray clay with roots Stiff tan and gray clay Stiff tan and gray clay with silt pockets | | Stiff tan and gray clay with root traces | |
| Medium tan and gray clayey silt Loose tan and gray silt with clay traces Very loose tan silt Boring <u>870</u> Boring Depth <u>10 feet</u> 0 Stiff gray clay with roots Stiff tan and gray clay 5 | | Stiff tan and gray slightly silty clay | |
| Loose tan and gray silt with clay traces Very loose tan silt Boring <u>870</u> Boring Depth <u>10 feet</u> 0 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | - 5 | Medium tan and gray clayey silt | - |
| Very loose tan silt Boring <u>870</u> Boring Depth <u>10 feet</u> 0 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | Loose tan and gray silt with clay traces | |
| Boring 870 Boring Depth 10 feet 0 Stiff gray clay with roots 5 Stiff tan and gray clay with silt pockets | -10 - | Very loose tan silt | * . |
| Boring 870 Boring Depth 10 feet D Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | | |
| O Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | Boring 870 | eat |
| 0 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | { • | | <u>.</u> |
| O Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | | |
| 0 Stiff gray clay with roots Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | | | |
| 5 Stiff tan and gray clay 5 Stiff tan and gray clay with silt pockets | 0 | Stiff gray clay with roots | |
| 5 Stiff tan and gray clay with silt pockets | | Stiff tan and gray clay | |
| | 5 | Stiff tan and gray clay with silt pockets | |
| Loose tan and gray slightly clayey silt with 2 inch clay on top | | Loose tan and gray slightly clayey silt with 2 inch clay on top | |
| - 10 Loose tan and gray silt with clay pockets | - 10 | Loose tan and gray silt with clay pockets | |

0
| PROJECT POR | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electr‡c Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. Technician DPS |
|--|--|
| O DEFTH SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEEL |
| | Very stiff tan and gray clay |
| | Stiff tan and gray slightly silty clay with silt pockets |
| `5 | Loose tan silt with clay pockets |
| · | Loose tan and gray slightly clayey silt with clay pockets |
| -10'- | Very loose tan and gray silt with 2 inch clay layer in middle |
| | Böring 872 |
| · · · · · · · · · · · · · · · · · · · | Boring Depth 10 feet |
| | Very stiff gray clay |
| · · · · · · · · · · · | Very stiff tan and gray clay |
| - 5 - | Stiff tan and gray clay with silt pockets |
| | Medium tan and gray slightly silty clay with silt pockets |
| | Soft tan and gray silty clay with 2 inch gray clay on bottom |
| - 10 - | |
| | Boring <u>873</u> |
| | • Boring Depth <u>10 feet</u> |
| | |
| · ' | |
| | Very stiff gray clay with root traces |
| ······································ | Very stiff tan and gray slightly silty clay |
| - 5 - | Stiff tan and gray clay with silt lenses and pockets |
| | Medium tan and gray silty clay |
| - 10 | Medium tan and gray silty clay with silt pockets and lenses and 2 inch silt layer in middle |

LOG OF BORING

0

j,

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

PP-18125

a

| PROJECT | Cajun Electric Power Cooperative, Ir New Roads, Louisiana | 1C. | BORING _374 |
|---------|--|---------------------------|-----------------------|
| 50 B | Cajun Electric Power Cooperative, Ir | ıc <i>.</i> | DATE 20 June 19 |
| | Bovay Engineers, Inc., Burns and Roe | e, Inc. | TECHNICIAN DPS |
| HE ST | | ~ | · |
| | UNDISTURBED SAMPLE STANDARD PENE | ETRATION TEST BORING DEI | тн 10 feet |
| | Very stiff gray clay with root trac | es a ser a | |
| | Very stiff tan and gray clay with r | oot traces | |
| 5 | Stiff tan and gray clay with 2 inch | silt layer on bottom | |
| | Loose tan and gray silt | • | |
| | Very loose tan and gray silt with c | lay pockets | |
| 10 | | • | |
| · | | - | |
| | | Boring 875- | • |
| | | Boring Depth 10 fe | et |
| | | | |
| 0 | | ▶ * - * | |
| | Very stiff gray clay | -1 | |
| | Stiff tan and gray silty clay | | |
| 5 | Stiff tan and gray silty clay with 3 | 3 inch loose tan silt | layer in middle |
| | Stiff tan and gray clay with silt po | ockets and lenses | |
| 10 | Medium tan and gray silty clay with silt layer on top | silt pockets and lens | es and 3 inch |
| | - | | |
| | • | Boring 876 | |
| 4 | • | Boring Depth <u>10 fe</u> | et · |
| | • | • | |
| | - | | |
| 0 | Stiff tan and gray clay with root tr | àces | |
| | Medium tan and gray silty clav | | |
| | Medium tan and grav silty clav | | |
| | Loose tan and grav slightly claves a | ilt with cand trace | and clay mockets |
| | loose tan claver cilt with east two | | and cray pockets |
| 10 | Loose tan croyey sitt with Sand Trac | C3. | |

.

• •

.

| PROJECT. | Cajun Electric Power Cooperative, I New Roads, Louisiana Cajun Electric Power Cooperative, I Boyay Engineers, Inc. Burns and Ro | nc. nc. | BORING 877 FILE 74-30 DATE 22 June 197 TECHNICIAN DPS |
|---------------------------------------|--|---|--|
| D DEPTH | UNDISTURBED SAMPLE STANDARD PEN | RETRATION TEST BORING (| PEPTH 10 feet |
| | Stiff tan and gray clay with roots | | - |
| | Medium tan and gray clay | - - | |
| - 5 | Medium tan and gray clay | | |
| · · · · · · · · · · · · · · · · · · · | Loose tan and gray clayey silt | | |
| -10 | Very loose tan silt | | • |
| | | | |
| | | Boring <u>878</u> Boring Depth 10 fe | et |
| · · · · · · · · · · · · · · · · · · · | | • | |
| | | • | |
| | Stiff tan and gray clay with roots | | |
| | Stiff tan and grav slightly silty c | lav | • · ·· |
| - 5 - | Soft tan and gray silty clay | | |
| | Loose tan and gray silt with clay an | nd sand traces | |
| - 10 | Very loose tan and gray silt | | • • |
| | | | |
| | • | Boring 879 | |
| | • | Boring Depth 10 | feet |
| | • | • | |
| | | | · . |
| 0 | Stiff tan and gray clay with roots | | |
| A | Medium tan and gray silty clay | | |
| - 5 | Loose slightly clayey silt with clay | y pockets | |
| | Medium tan and gray silty clay with | silt pockets | |
| -10 | Loose tan and gray clayey silt with in middle | clay pockets and 2 i | nch silt layer |

- -

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

FF18175

÷

| PROJECT | Cajun Electric Power Cooperative, Inc. | |
|------------------|--|----------|
| | New Roads, Louisiana | |
| FOR | Cajun'Electric Power Cooperative. Inc. DATE 23. June | 1.977 |
| | Bovay Engineers, Inc., Burns and Roe, Inc. TECHNICIAN UP | <u>э</u> |
| DEPTH SAMPLES | UNDISTURBED SAMPLE STANDARD PENETRATION TEST BORING DEPTH 10 FEEL | |
| | Stiff tan and grav clay with root traces | |
| - | | |
| | Medium tan and gray clay | |
| • 5 | Soft tan and gray clay | |
| un | Soft tan and gray silty clay with silt pockets | |
| - 10 | Loose tan and gray slightly clayey silt with clay pockets | 4 |
| ···· | | |
| | | · |
| | Borieg <u>881</u> | |
| | Boring Depth <u>10 feet</u> | İ |
| | | |
| | | |
| 0 · | Stiff tan and gray clay with roots | |
| | Stiff tan and gray slightly silty clay | |
| 5 | Soft tan and gray silty clay with silt pockets | - |
| | Loose tan and gray slightly clayey silt | |
| | Loose tan and gray slightly clayey silt | |
| | | |
| | Boring <u>882</u> | |
|]•] | Boring Depth <u>10 feet</u> | |
| | and a second | |
| | | |
| | | |
| | Stiff tan and gray clay with root and silt traces | 1 |
| | Stiff gray silty clay | |
| 5 | Medium gray silty clay with ferrous matter | |
| · · · · · · | Loose tan and gray slightly clayey silt | |
| - 10 - | Very loose tan and gray silt with clay and sand traces | |
| <u> </u> | | |

LOG OF BORING

LOUIS J. CAPOZZOLI & ASSOCIATES, INC.

m18125

| F03 | · - • | Cajun Electric Power Cooperative, Inc. New Roads, Louisiana Cajun Electric Power Cooperative, Inc. Bovay Engineers, Inc., Burns and Roe, Inc. | BORING FILE DATE23 TECHNICI | 883 74-30 June 197 AN DPS |
|---------------|--------------|--|--------------------------------------|------------------------------------|
| DEPTH FEET | SAMPLES | NDISTURBED EAMPLE STANDARE PENETHATION TEST BORING DEP | Тм | - |
| | | Stiff tan and gray clay | , | |
| | | Firm tan and gray clayey silt with silt pockets | | |
| • | 1 | Medium tan and gray silt clay with silt pockets | | |
| | | Medium tan and gray slightly silty clay | | |
| | | Medium tan and gray silty clay with silt pockets | | |
| - | 7 | | | |
| | 1 | | | |
| , i | | | | |
| | | | | |
| | | | - | |
| - | | | • | |
| | | | • | , |
| | | | | |
| • -• · | | | * | |
| - · - | | | | |
| | | | | |
| | | | | |
| | | | | |
| 1 | | | | |
| ••• | 1 . : | | | |
| | ł | | | |
| | | | | |
| | | | | |
| | | | | - |
| | | | | |
| | | | | |
| | | | | - |
| | | | | |
| 1 | ľ. | | | |

LI & A35 DCIATES, INC. Geotechnical Engineers

APPENDIX B

FILE NO. 74-30

CEPCO NO.

ATTERBERG LIMITS DATA 35 35 0 0 ŝ 26 ŝ e 9 9 9 9 31 26 Ð œ ø Q \sim đ DEPTH Å ÷. ł N ŝ ŧ ł ł ŧ ł BORING 100 101 101 101 102 102 .40 0.5 0.8 0.9 60. **117** 118 .07 Ċ

TABLE 99

| | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----------|-------|---------|-------------|-------|----|-------------|-------------|----------|-----------------------------------|--------------|-----|-----------------|--------------------|-----|-------|----|---------------------|-----------------|----------|-----|--------|----------|------------|------------|----|--------|----|------------|----------------|--------------|------------|----------------|--------|
| | 100 | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TABL E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | | | |
| ÷ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | · | | | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | | | |
| | , , | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | <u>*</u> | | | | | | | | | | | | | | | | | | | ١ | | • | | | | • | | |
| | | | | | | ÷ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4-30 | | DEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - 0 Z | | | 5 G 7 G | 2 | 53 | φ¢ | ን ዊ ጉ | 4 | 56 | 4 0 4 4 | 39 | 30 | 0 m 1 1 1 | 31 | 20 | 58 | æ : | . . |) 8 1 | 77 | 30 | 4. U | 11 | 0 | 26 | t | 18 | 0 t | 60 C | ⊃ œ | 51 | 1 0 1 0 |) 4 |
| • | ILE | | LAST | | | | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | ÷., |
| . ' | الله. | DATA | ۹ ۲ | | | | | | f | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MITS | [188] | * ~ | | 23 | 6 1 | | 32 | 50 50 C4 C | 36 | 29 | মান্য । নামন | 2 E E | 23 | 23 | 32 | 50 50 50 | r c A r | 53 | 40 | 25 | 29 | 792 | - 0 - 0 | 26 | 23 | 27 | 53 | 10 10 10 10 | n r- V (m | э¢. | 6) (7) (9) | , , |
| | · · | נפ רו | а | • ~ | | • | _ | | - | - | | _ | | ; | | _ | _ | | | | _ | _ | | | _ | | _ | | • | | | | | |
| | | ERBEF | | | | 76 | | | 19 | 10.4 17.4 | | 68 | -0 u -0 u | 0.0 | 54 | 43 | 06 | 4 (n) (n) (n) | 5 C 7 P | 4 | 117 | ŝ | 40 | 5 5 5 5 | 0 | 52 | 27 | 4 | () () | 9 7 9 7 | 35 | - 8 | | I |
| | | AIT | ⊒ | v v | , 4 | 4 | 60 (| v vo | N | 4 4 |) - 1 | Ŷ | - T (| D N | 9 | Ŷ | æ | Ś | xo √0 | 000 | t | \$ | · t | t- 0 | æ | 4 | 9 | t | ر | 2 | • ~ | 13 | 4 00 | |
| | 40÷ 2 | | DEP | 1 1 7 -4 | • ~ | 5 | 4 • • • | | 0 | 1 1 7 7 | - 7 | 1 1 | 1 ~ ~ | | 1 7 | † | -9 | 1 | 1 1 0 1 | - 9 | 2- | 1 7 | • ~ · | 11 | 4 | 2- | 1 t | 2 | 1 4 (| | | 1 | 1 1 0 0 | |
| | E CO | | IR I NG | 6 T | 20 | 21 | 21 | 7 7 7 7 | 23 | 5 C C C C C C C | 51 | 24 | 25 25 | - 9 9 7 | 26 | 28 | 28 | 50 | 30 | 31 | 32 | 9 9 | . t | ი ი ო | 35 | 36 | 36 | 37 | 70 | 10 CT | ן ה שני ה | 39 | 4 4 0 0 | |
| | Ű | | 90- | - | ••••• | - | | - | - | | •• | | | ┥┯┥ | - | - | | | ┥┯┥ | • | ٦ | - | - | | Ч | Ч | - | | - | | 4 | . – | - | |

| | 101 | | | | | | |
|------------|-------------|---|---|---|---|--|---|
| *** | ABLE . | | | | | | |
| | , | | | <i>.</i> . | | | |
| | | | | | | | · |
| L . | : | , | | • | - | | |
| | | • | | | | | |
| | | | . <u>.</u> . | | | ς. | |
| | | | , | | | | |
| | | • | | | | | |
| | | | 10 - 1 | | | · · | |
| | • | | | | | . | |
| - - | | | | | - | | • |
| | | t t | | , w | | | |
| • | 0 | × | میں ایک | | | | |
| ÷ | -+- | NDE | | | | | |
| · | • N | 200 | | 4000 | 4 F 7 7 7 7 7 | 44400000 40 0 40 | 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| ` | | LAST | | : | | | |
| ~ ~ | | <u>م</u> | | | | | |
| | | 240 24 | * * * * * * * * * * * * * * * * * * * | 5 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 0 2 0 1 0 V 7 0 0 1 0 V | 0 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / | 8-12+8699-15-1 |
| | | PLA PLA | | | | | |
| - | t C | 5 6 6 6 | N F 9 0 8 0 | | ֈ ოთიიი | | 4 9 M J M J M J M B |
| | د د ل | | M LE M M L | 00 UN 47 NI 69 | 100 m N m 00 | 00000-30 | ้ที่มีระทันของรุก |
| | • • | 0 4 0 | 4 0 0 0 4 0 | 4.00 4.00 4 | 044040 | ••••••• | 0 4 4 0 0 0 4 4 0 4 0 |
| 7 | 0. 2 | ПОИ4 ПОИ4 Г | 111111 100 t t N | 1 1 1 1 1 5 5 10 0 10 | 11111 11111 | 5000000 1111111111111111111111111111111 | 11111111111 11111111111111111111111111 |
| | Ž' | U V | | | | | |
| ~ | CEPC | 00 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | 40000 4444 41111 | - C O O O O O O O O O O O O O O O O O O | | |

4

| · •. | V DEX | • | | | | | | y ∀. | | | | | | : ب | - <u></u> | ••• ••• | is Tai | | | - | | : | | | | | | | | | | | | | | | | |
|------|--------------|-----|----|--------|----------------------|--------|-------------------|-------------|----|-----|----------|----|----------|---------|-----------|------------|-----------|----|----|--------|----|----------|----|----|--------|----|------------|----|----|----|----|----|----|----|----|----|--------|-----|
| • | Έ υ | Ģ | 28 | 1.9 | | 5 | | 99 | 5 | 4 | 4 | - | 22 24 | 21 | 20 | Ö | 62 | 4 | 09 | 4 | Ś | M | Ē | 17 | 4 U | 0 | 1 3 | 38 | 29 | 40 | 11 | 36 | 25 | 35 | 'n | 46 | 9 | 34 |
| •_ | \51 I | | | | | | | | | • . | - | •• | ~ | - | ŧ | | | - | | | | | | | | | | | | | | | | | | | | |
| T A | Ъ Б | | | | - - - | | | | | | | | - - | | | | | | | | | ÷ | | | | | | | | | | | | | | | | |
| DA | Ц | | | ·· · · | | | 20 | | • | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | |
| I 15 | AST | 26 | ŝ | 90 | | 21 | 9 1 (1 1 | 23 | 35 | ŝ | 28 | 23 | 24 | 22 | 20 | 18 | 30 | 24 | 30 | 23 | 26 | 27 | 26 | 25 | 23 | 23 | 21 | 30 | 23 | 3 | 37 | 20 | 21 | 25 | 27 | 33 | 21 | 0 E |
| ĹĬŇ | ٩ | | | | | | | - | | | • 1 : | • | | | | | | | | | | 1 | | | | | | | | | | | • | | | | | |
| RG. | | 5 | 28 | - | ι. Γ | 9 | Ċ | . 0 | 8 | | 4 | 4 | Ф | ú | o | ec. | N | 80 | 0 | ~ | - | | 6 | 2 | 8 | ŝ | 4 | 8 | 2 | - | 6 | 9 | 6 | 0 | 0 | 6 | ~ | 4 |
| ERBE | ð | | | 4 | רש זי נ | | - 16 1 | JO | | 9 | ~ | ~1 | 4 | 4 | 4 | | σ | ~ | | 2 | ŝ | N | 2 | 4 | ¢ | ~ | 'n | Ŷ | ŝ | ~ | -1 | ŝ | 4 | 9 | ŝ | - | 2 | Ś |
| ATT | T T | 4 | 2 | 9 | • • • • | -9 | 0 | 9 | 4 | 4 | vo | 80 | 9 | Ŷ | 4 | 20 | 4 | Ŷ | ~ | Ŷ | ş | : ব | 9 | Ŷ | 2 | Ŷ | Ŷ | 4 | 8 | 2 | Q | 4 | 9 | æ | 6 | ~ | 2 | 4 |
| ţ | Ш с ц | | 4 | 1 | 1- 2- | - | 1 | T | | ~ | 1 | •9 | ţ | + | 2 | 9 | 2- | 1 | Ę | j T | ļ | | ļ | 1 | 4 | ļ | ļ | 1 | ï | Ł | ļ | 1 | ļ | 1 | ļ | Ļ | Ļ | 1 |
| • | a | | • | · . | ÷ | - | - | • | 1 | | - | _ | - | | | _ | - | • | - | • | • | | • | • | - | - | • | | Ĭ | | 4 | | 7 | Ű | 7 | 0 | J | |
| | UN L | ۲Ì. | 4 | 4 | 4 | 5 | ~ | ~ | 8 | ው | с | 0 | - | 2 | ŝ | ŝ | 4 | t | ŝ | \$ | ç | ~ | ~ | æ | 6 | 6 | 0 | | ٦ | N | 2 | e | e | ŝ | t | ŝ | ۍ ۲ | J. |
| | BOR | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | ,- - | 17 | 1 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 11 | 17 | 18 | 8 | 19 | 18 | 18 | 18 | 18 | 19 | 18 | 18 | 1.9 | 1.9 |

102

TABLE

LE NO

E.

CERCO NO.

 \mathbf{j}

| TABLE | |
|-------|--|
| | |
| | |

FILE NO. 74-30

CEPCO NO. 2

2

103

| | | NDEX | | | _ | | | | | | 1. 1. | | 2010 10 - 2010 | | | | _ | | • | | | | : | | | | | | | | | | | | - | | | | | |
|-----|-------|------------|--------|-----------|----------|----------|------------|--------|-------------|----------|--------------|--------|-----------------------|--------|------|------------|------------|----|-----|-----|----|----|--------------|----|-----|----|----|----|--------|-----|----|-----|----|----|----|-----|----|----|----|-----|
| | | - - | 21 | 2 | . | en En | 2 | 1 | 21 | 4 | | 16 | 4 | Ē | 5 | . | . ଫ | n | 0 | | 40 | 36 | ~ | 0 | 0 | 4 | 32 | 10 | 5 0 | 3.8 | 19 | 7.8 | 5 | 2 | 0 | 48 | 52 | 36 | 59 | , (|
| | | I I | - | 1 | | • | | | | <u>.</u> | 1 | · . | | | | , I(| | | | - · | | | | | | • | | | | | | | | | | | | | | |
| | | LA S | | • • | | | | | | | e 9 : 7 • | | · . | 4. | .×. | /** | | ·. | | | | | | | | | | • | • | | | | | | | | | | | |
| | V.T.A | <u>а</u> _ | | | | • | | | • | | . ز | | | | • | • | | | | ; | | | | | | | | | · · | | | | | | | | | | | |
| | à. | 2 | | | | .: | 4-1 - - | • | • • • | Ж. | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | |
| | 15 | VST | 3 | 31 | 24 | 27 | 22 | 5 7 | сл. . (М | ġ. | : N : N | 10 | 0 | 23 | 21 | 21 | 5 1 | 25 | 23 | 23 | 27 | 27 | 16 | 32 | 33 | 5 | 28 | 25 | 27 | 20 | 21 | 21 | 24 | 18 | 22 | 32 | 26 | 34 | 38 | |
| • | Ξ | <u>ה</u> | | 1 | | · • | 5 | بند | | Vir | | • | | - | í, s | ٠. | : . • | | | | | | • | | | | | | | | | | | | | | | | | |
| | | ~ | | | <u>_</u> | • | ; | • | | | | | | ~ | | د. بر ا | } | | | | | | | | | | | , | | | | | | | | | | | | |
| 2.5 | ER(| 3 | 4 4 | 57 | 30 | 60 | 14 | • | , in m | 49 | + + | 26 | 78 | 34 | 26 | 5.6 | 30 | 28 | 53 | 30 | 67 | 63 | 53 | 32 | 33 | 35 | 60 | 35 | 52 | 58 | 04 | 66 | 15 | 47 | 28 | 80 | 51 | 70 | 7 | |
| | RB | <u>.</u> | | • | | - | | | - | - | * | - - | | 1 | • | | - | - | · . | - | | | | | | | | | | | | | | | | | | | | |
| | T.T | | ~ | 4 | ø | ø | ė | ar | Ó | 0 | : • • | • | N | ģ | 80 | đ | • | 4 | - | Ś | 4 | 4 | े क | 8 | 4 | 8 | 4 | Ŷ | 8 | 8 | - | 4 | 8 | 4 | م | 4.4 | Ģ | 4 | 4 | |
| | < | H | •• | • | | | | | | | | | 1 | | | | | | | - | | | | | | | | | | | | | - | | | | | | | |
| | | Ē | ð | Å | ó | 4 | 4 | 6 | 4 | 4 | N | 4 | 6 | 4 | 6 | Ň | 4 | ~ | å | 4 | Ň | ~ | ~ | 5 | Å | 9 | 2 | 4 | 5 | 5 | 9 | ~ | 5 | ~ | 4 | Ň | ÷ | ~ | ~ | |
| | | ۲۵ | | | | • . | · . | | | | | | | | | : · | | | | | | | | | | | | | ; | | | | | | | | | | | |
| | • | ž | æ. | ି । ସେ | æ | æ | 0 | _ | Ň | 3 | | - | ŝ | ŝ | ور | ~ | े ~ | 8 | æ | | 0 | - | ^N | 2 | 4 | 4 | S | 9 | ~ | 8 | 0 | - | 7 | 2 | 2 | ŝ | e | 4 | ŝ | |
| | | S. | 18 | 18 | 18 | 19 | 61 | 19 | 61 | 19 | 19 | 61 | 19 | 19 | 61 | 6 1 | 1 3 | 19 | 19 | 19 | 20 | 20 | 20 | 20 | 202 | 20 | 20 | 20 | 20 | 20 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |



CEPCO NO. 2

FILE NQ. 74-30

104 TABLE



TABLE 105

FILE NO. 74-30

CEPCO NO.

I NDE X . 8 ,9 ŧ N đ PLAST IC ATTERBERG LIMITS DATA PLASTIC 238 38 Ο Ň ŝ 33 LIQUID 30 49 34 23 32 B ŝ **O** * Ð $\Phi \sim$ Q **D** Q ð S O DEPTH 1 1 ť # \$ E \$ ĥ ł **30R JNG** 242 254 254 254 255 271 272 273

TABLE 106

FILE NO. 74-30

CEPCO NO. 2

ATTERBERG LIMITS DATA H LIQUID PLASTIC PLASTIC INDEX œ Ś œ (f) ð DEPTH -ŝ BORING 276 277 288 279 279 29 I

| - | | | | | | | | | | | • . | | - | | | | C | \overline{O} | | | | | | | | | • | | | | | | | | | | | ٠ |
|-------|---------------------|--------|------------|----------|------|------------|-----------|------|------|----------|----------|--------|--------|------|-------------|-------------|---|----------------|------------|-----|---|---|-------------|---------------|-----|-----|-----|--------|----------|-----|----------|--------|-----|--------|--------|------------|-----|----------|
| 74-30 | NDEX | | (| I | | | | | | | • | • | ~ | | | | | | | | | | | • | | | | | | | | | | | | | | |
| NO. | STIC I | ¢ | ¢ | 23 | ŝ | 1 3 | 10 | 12 | 17 | 2 | 10 | 37 | ° C | 64 | , L | • -1 | 8 | 23 | <u>, "</u> | | | | | 1 40 7 ~ | 10 | 9 | 12 | ¢ | 18 | 25 | . 23 | 17 | 26 | 36 | 0 | 62 | 47 | 20 |
| FIL | DATA C PLA | | | | | | | | · | 2 | | | | | ~ | | | | | . • | • | | | | | | - | | | | | | - | | | | | |
| • • | PLASTIC | 17 | 26 | 25 | 23 | 16 | 20 | 15 | . 23 | 54 | 25 | 30 | 22 | 32 | 25 | 24 | 23 | 23 | 25 | | Ŧ | | 10 | 5 7 | 22 | 25 | 25 | 26 | 23 | 22 | 23 | 21 | 24 | . 27 | 26 | 30 | 24 | 51 |
| | ERBERG L . IOUID | 23 | 32 | 4 B | 28 | 29 | 30 | 27 | 40 | 26 . | 35 | 67 | 31 | - 96 | 28 | 28 | 31 | 46 | 28 | | | | 44 | 4 | 24 | 31 | 37 | 32 | 41 | 47 | 46 | 38 | 50 | 63 | 4 G | - 26 | 11 | 41 |
| : | ATT6 TH L | ¢ | 6 0 | 9 | 10 | ¢ | 80 | 4 | 4 | . | £ | Ø | • | 2 | ~ | so | 4 | 9 | 10 | | | - | 4 | r •0 | 10 | 5 | Ē | 9 | . | 8 | E. | 10 | æ | 9 | 5 | ~ | 4 | a |
| N0. | DEP | 1 4 | 9 | + + | 8 | 1 4 | 9 | 2- | ~ | 4 | 9 | - 9 | ц Г | 6 | n N N | 4 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1 | - | | | | | 1.4 | 60 | 1 | 5 | 1 4 | 4 | ÷ | 5 | а П | 9 | 1 4 | 1 4 | 9 | 2 | . |
| CEPCO | BORING | 307 | 307 | 805 | .805 | 806 | 806 | 80 T | 808 | 809 | 81.0 | 814 | 812 | 814 | 814 | 8,15 | 8,16 | 8.17 | 817 | | • | | 85 <i>6</i> | 854 | 857 | 858 | 858 | 658 | 860 | 860 | 861 | 861 | 862 | 863 | 864 | 865 | 866 | 866 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 107

÷

| EPCO | N0. 2 | | | - - - | LAB | ORATOF | RY DATA | TABLE | 110. FIL | E NO. 74. | - 3Ú |
|-------------------------|--------------------|----------------------|------------------------------|-------------|-------------|--------------|--------------------|----------------------------|----------------|-----------|------|
| BORIA | 46 46 | PRCEN | IT | ATTERE | SERG LIMITS | | COMPRE: PERCENT | SSTON TEST PRESSURE-KSI | | | |
| • • | | MOLSI . | , DEN+PCF | ۲ بر | IЧ Ч | TSF | STRAIN | START FAIL | TYPE FAILURE | OTHER | |
| 820 | 26- 28 | 23 | 96.9 | in F | | 0 • 92 | , T | 1.55 | AUI GF | n lo | |
| 820 | 30- 32 | 5 | 9 . 66 | | | 2.38 | 9 | 1.79 | YIELD | 00 | |
| 821 | - -0 | 27 | 89.1 | | | 0.93 | ~ | | MULTIPLE SHEAD | | |
| 821 | + 1 10, | 38 | 71.2 | | | 1.04 | m | | MULTIPLE SHEAR | - | |
| 821 | 4 1 1 | | <u>т</u> 87.3 | | | 1.37 | Ģ | | MULTIPLE SHEAR | | |
| 128 | | 2 | 64.6 | · · · | | 0.26 | 10 | | YIELD | | |
| 128 | | | | . • | | 1.27 | 01 - | | YIELD | | |
| 921 821 | 71 - 18 19- | ייר | | | | 6/ •0 | 10 | 0 64 0 64 | YIELD | 00 | |
| 821 | 18- 20 | 26 | - 60 | | | 01•1 1•32 | | 66°0 | | | |
| 821 | 22- 24 | 23 | 100.8 | - | | 2 72 | | 1.33 | | | |
| 821 | 24- 26 | 28 | 6.99.9 | | , | 0.92 | 10 | 1.45 | | 36 | |
| 821 | 28- 30 | 16 | 89.1 | | | 2.47 | | 1.68 | MULTIPLE SHEAR | 30 | |
| 821 | 30- 32 | 21 | 98.3 | | | 0.77 | ٦ ٦ | 1.79 | 45 DEG SHEAR | n G | |
| 128 | 34- 36 | 20 | 93.4 | • | | 2.84 | 10 | 2.03 | YIELD | 00 | , |
| 6 C B | 10 | a (| | 44 | _ | 7 `` | | | | | |
| 8 2 2 8 | | 0 7 C | 7 C 6 C | | • | 101 | 10 | | YIELD | | |
| 822 | 0.1 1 1 1 | 54 | 92.3 | | | 1.40 0.19 | t « | 60.04 | MULTIPLE SHEAR | · UU | |
| 822 | 6 • 8 | 30 | 8.88 | | _ | 0.29 | 10 | | YIFLD | 22 | |
| 822 | 10- 12 | 28 | 92.7 | | 1 | 0.59 | 10 | 0.64 | YIELD | 00 | |
| 822 | | ຸ ຕີ (| 84•6 | | _ | 0.32 | 10 | 0.86 | YIELD | 00 | |
| - 7 7 8 | 16- 18 | 28 26 | 92.4 | | | 0.72 | 10 | 0,99 | YIELD | d n | |
| 772 | | n : | 9 1 0 7 1 0 | | - | 0.57 | 10 | 1,22 | YIELD | 00 | |
| 222 | | | | | | 20°5 | 10 | 1.33 | BULGE | 0D | |
| 2 2 2 2 | | | | | | 61.0 | 10 | 1.55 | YIELD | 00 | |
| 2 Z Z Z Z Z Z Z Z | 75 - 75 | 7 7 6 | | | - ` | 0 • 94 | 10 | 1.79 | YIELD | 00 | |
| 1 C 0 | | - 1 ())) | | | | 0 • 2 / | - | 1,91 | SLUMP | 00 | |
| 770 | | 63 | V.061 | | - | 0•79 | 12 | 2.03 | YIELD | 00 | |
| 823 | 0- 7 | 23 | 91.7 | | . – | 1.30 | Ŷ | | MULTIPLE SHFAR | | |
| 823 | 2= 4 | 25 | 90•4 | | | 0.46 | Ś | | MULTIPLE SHEAR | | |
| 823 523 | 4 - 0 7 | 27 | 0.06 | | | 0.31 | 10 | | YIELD | | |
| 829 | 6 - 9 | 28 | 91.7 | | 5 | 0.27 | 10 | 0.40 | YIELD | ОD | |
| 5 7 A | 14- 10 | 32 | 86.2 | | 5 | 0.54 | 10 | 0.86 | YIELD | | |
| | | | | | | | | | | | |

5

2

)

i

| 74 | | | | | |
|---------------------------------------|----------------------------|--|--|---|--|
| N N N N N N N N N N N N N N N N N N N | OTHER | 0 | | | |
| 1 <u>9</u> 9 | YPE FAILURE | IELD | IELD IELD LUMP ULGE IELD IELD IELD | IELD ULTIPLE SHEAR JELD ULGE ULGE ULGE ULGE ULGE ULGE ULGE | JLTIPLE SHEAR JELD JELD JELD TELD TELD TELD TELD TELD TELD TELD T |
| TABLE | TEST SURE-KSF FAIL T | | אר איז | ≻∑≻≻₩≻₩₩₩₩ | |
| | ESSION T PRES | 00 | 0.0000000000000000000000000000000000000 | 00000000000000000000000000000000000000 | 0 • 51 0 • 54 0 • 86 1 • 22 1 • 22 |
| RY DATA | COMPRI PERCEN STRAIN | 100 1117 | 740040 | 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ° 0 0 0 0 0 0 0 4 F 0 |
| LABORATO | IMITS PI. TSF | 2006 2000 2000 2000 2000 2000 2000 2000 | 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9846992000111 98469920000111 984699200000000000000000000000000000000000 | 8882C 49594 84 |
| | ATTERBERG L Ly PL | | | | |
| | DEN. PCF | 0 4 0 4 0 4 0 0 0 4 0 0 | 88 89 99 99 99 99 99 99 99 99 99 99 99 9 | 00000000000000000000000000000000000000 | ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● |
| | PERCENT MOIST. | 80 80 7 7 80 7 8 7 | | の511-12-12-822-4-4-90 222-12-22-22-22-22-22-22-22-22-22-22-22- | かる。 ある。 ある。 ある。 なる。 なる。 なる。 なる。 なる。 なる。 なる。 な |
| S NO N | NG DEPTH | 0 8 7 7 8 6 7 0 8 6 7 0 | 121 141 141 141 16 16 20 20 20 26 20 26 20 26 20 20 20 20 20 20 20 20 20 20 20 20 20 | 80000000000000000000000000000000000000 | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | BORI NO. | 818 818 818 818 818 | 818 818 818 818 818 818 818 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |

| - - | | NSOL. | | | |
|---|--|---|--|--|---|
| E NO. 7 OTHER | 3 838888 | 00 00 RPP & CO | | | |
| LC F F F | | SHEAR | S HE AR | SHEAR | |
| 11L Type fai | YIELD BULGE YIELD YIELD YIELD YIELD YIELD | MULTIPLE Y1ELD Y1ELD Y1ELD Y1ELD Y1ELD Y1ELD | YIELD YIELD YIELD Multiple Bulge | MULTIPLE YIELD YIELD YIELD YIELD YIELD YIELD | Y IELD Y IELD Y IELD Y IELD |
| TEST SURE-KSF FAIL | | | | | |
| SSION PRES | 9.0.0.0.0.0 9.0.0.0.0 9.0.0.0.0 9.0.0.0 9.0.0 9.0.0 9.0 9 | | 1 • 2 2 1 • 3 3 2 • 2 6 2 • 2 6 | 0 • 51 0 • 51 0 • 86 | 1.555 |
| COMPRE COMPRE PERCENT | | ~ 2000 | 000000 | ****** | 000000 |
| LABGRATO | ₩ ₩ ₩ ₽ ₩ ₩ ₩ • • • • • • • • • • • • • • • • • • | 2.49 0.51 0.91 0.91 | 0000 000 000 000 000 00 00 00 00 00 00 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | 010100000000000000000000000000000000000 |
| ATTERBER Presenter Presen | | 9 22 | | | • · |
| DEN. DR PCF | - 0 ~ - 0 3 0 • • • • • • • • • • • • • • • • • • • | 9 6 9 9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 91 94 92 92 90 90 90 90 90 | 88888888888888888888888888888888888888 | 1999 888 1972 1999 1999 1999 1999 1997 1997 1997 |
| PERCENT MOIST • | 4 N N M 4 N B | 9 9 1 7 2 9 8 9 9 9 9 1 7 2 8 9 9 9 1 1 7 2 9 9 1 7 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 | 21 21 26 26 25 25 | 9 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0014000 4005 |
| | 0 4 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 000 00 00 00 00 00 00 00 00 00 00 00 00 | 200 200 200 200 200 200 200 200 200 200 | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 201 22 241 26 261 28 321 32 361 32 361 38 |
| BOR FFC | 8 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | ++++++++++++++++++++++++++++++++++++++ | 88888888888888888888888888888888888888 | 325 225 225 225 225 225 225 |

| : | · . | | ۵ | | | | | | | | | |
|---------|----------------------|----------------|--|---|--------------------|---|------------------------------|---|-------------------|------------|-------------|---|
| PCQ | NO. 2 | | • | | • | LABORATO | RY DATA . | TABLE | 112 | FILE NO | • 74- 30 | a |
| 30R I M | 4G DEPT | T | PERCENT MOIST. C | DRY JEN - PCF | ATTERBERG LL PL | LIMITS PI TSF | COMPRE: PERCENT STRAIN | SSION TEST PRESSURE+KS START FAIL | F TYPE FAILURE | . отн | а Ш | |
| 76 | | | 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | • | | | | |
| 326 | | 4 3 | | | | | | | YIELO | | - | |
| 326 | י, ¶ ¶≥•• , | t i úg | 2+ | | | 0.87 | | | | Y | | |
| 326 | 9 | (. 60) | 25 | L 0 6 | | 0.64 | | 0.40 | | | | |
| 326 | 84 | 0 | N | 80.3 | | 0.66 | 10 | 0.51 | YIELD | | | |
| 326 | 10- | 2 | 4 | 86.8 | | 0.42 | 10 | 0.64 | YIELD | | 10 | |
| 326 | 12- |) 4 | | 84.8 | | 0.37 | 10 | | YIELD | | ľ. | |
| 326 | 16- | 1.8 | 38 | 82.2 | | 0.86 | 10 | 0.99 | YIELD | э | D | |
| 326 | 18- | 20 | 35 | 81.8 | · | 0.51 | 10 | 1.09 | YIELD | | | |
| 326 | 22- | 24. | 31 | 86•0 | • | 0.00 | 10 | 1.33 | YIELD | | כו | |
| 326 | 241 | 26 | 567 | 84.1 | | 2.77 | 12 | 1.45 | YIELD | | | |
| 326 | 28 | 30 | 19 | 95 . 8 | | 2.30 | 7 | 1.68 | YIELD Y | | | |
| 326 | 34- | 36 | | unter en la serie de la serie | | · · · · · · · · · · · · · · · · · · · | | | | - | | |
| 326 | 36- | 38 | 12 | 100.9 | | 3.21 | 12 | 2.14 | YIELD | | 2 | |
| 326 | 42- | 4 4 | 40 | 76.9 | - | 0.89 | 10 | • | YIELD | • | 1 | |
| 326 | 174 | 46 | 31 | 93•8 | | 5 • 03 | 10 | 2.60 | YIELD | 3 | ٥ | |
| | Ċ | ſ | | | | | | | | | | |
| - 70 | | N 3 | t - t | | | 2.10 | רא ייי י | | MULTIPLE SHE | A R | | |
| - 70 | | t d | -1 C | | | | 10 (r | | MULTIPLE SHE | AR | | |
| - 70 | 1 7 J | 0 0 | v c n c | | | | | - | Y LELU X TRI S | | | |
| 227 | - 1 5 60 | 0 | 20 | 9 4 9 4 9 4 9 4 | | | | | | ~ | | |
| 327 | 10- | - 7 - 7 | 31 | 87.8 | | 0.60 | | 0.64 | YIFLD | C | C | |
| 327 | 12- | 14 | 39 | 79.9 | .1 | 0.32 | 10 | 0.0 74 | YIELD | | | |
| 327 | 16- | 1 8 | 0 E | | 33 23 | 10 | | | | | PP & CONSOL | |
| 327 | 18- | 20 | Ē | 83.5 | - | 0.57 | 10 | 1.09 | YIELD | - 0 | | - |
| 327 | 22+ | 24 | 39 | 82.0 | | 0.65 | 10 | 1.33 | YIELD | | | |
| 327 | 24- | 26 | 27 | 93.0 | | 3 • 48 | 7 | 1.45 | BULGE | . 3 | _ 0 | |
| 327 | 28- | 30 | 32 | 84.0 | - | 4.02 | 7 | 1.68 | BULGE | 0 | | |
| 127 | 30- | 32 | 93 | 85.1 | | 0.58 | 10 | 1.79 | YIELD | | | |
| 127 | 34- | 36 | 47 | 78.9 | | 0.92 | ~ | _ | MULTIPLE SHE | AR | | |
| 127 | 36- | 38 | t t | 80.7 | | 0.39 | , 10 | 2.14 | YIELD | 3 | n | |
| 12.9 | 5 | 2 | 3 5 | 74.2 | • | וייט | | | MULTIOLE CHC | a v | | |
| 28 | 2. | 14 | 37 | 79.2 | | 0.51 | ۱ ر • | | MULIFIC JULY | Ľ | | |
| 28 | 1 5 | 9 | . 6 | 85.2 | | 0.67 | , c | | 4/ 715 VIL25 | | | |
| /] | | I . | 1 1 - | - - | |))) |) + | | | | | |

.

| NU. 74 THER | | | CONSOL 60 60 60 60 60 |
|---|--|--|--|
| 113, FILE FYPE FAILURE O | YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD SHEAR | 45 DEG SHEAR YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD YIELD | VERTICAL SHEAR MULTIPLE SHEAR YIELD YIELD YIELD YIELD YIELD YIELD YIELD |
| Y DATA TABLE Compression test Percent Pressure-KSI Strain Start Fail | 60 632252 100 100 100 100 100 100 100 10 | 10 10 10 10 10 10 10 10 10 10 | 6 8 10 10 0 • 40 0 • 55 10 0 • 55 10 0 • 99 6 4 |
| LABORATORY LIMITS F | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 0 • 76 0 • 8 0 • 9 0 • 4 0 0 0 • 4 0 0 0 • 4 0 0 0 • 76 |
| ATTERBERG LL PL | | | 75 34 |
| ERCENT DRY . | 5-1 + 7 × 40 + 1 + 8 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × | も を の で の の の の の の た る 下 ち の た の の た の の の の の の の の の の の の の | 999 999 999 999 999 999 999 999 999 99 |
| PCO NO. 2 ORING D. DEPTH M | 288 288 288 288 288 288 288 288 288 288 | 29 29 29 29 29 29 29 29 29 29 29 29 29 2 | 30 30 30 30 30 30 30 10 10 12 11 12 11 12 12 14 12 16 11 16 11 16 11 16 11 16 11 16 11 16 11 16 16 |

-

| ORMUNG FRACNT DRY ATTERBERG LIMITS COMPRESSION TEST 000 DEFT DRY TTERBERG LIMITS ERCENT PRESSUPERST DTHE D | ORMING FREENT DRY ATTEREERD LIMITS COMPRESSION TEST 000 DEPTH MOLIST- DEN-PCF LL PL PII TS TAIL TAIL TAIL TAIL TAIL TAIL TAIL THER OTHER OTHER <t< th=""><th>EPCO</th><th>NO. 2</th><th></th><th>- -</th><th>:</th><th>LABORATO</th><th>RY DATA</th><th>TABLE</th><th>1)4</th><th></th><th>NO. 74-</th><th>30</th></t<> | EPCO | NO. 2 | | - - | : | LABORATO | RY DATA | TABLE | 1)4 | | NO. 74- | 30 |
|--|---|----------------------------------|--------------------|---|---|----------------------|----------------------------|------------------------------|---|-----------------------|---|------------|---------|
| 300 227-22 41 79.9 0.667 10 YTELD 00 300 227-24 31 61.5 0.667 10 11.5 YTELD 00 300 227-24 31 97.5 0.667 10 11.5 YTELD 00 300 227-24 31 97.5 0.667 10 11.5 YTELD 00 301 27 203 10 2.03 10 2.03 00 301 27 200 10 1.137 3 MULTIPLE 00 301 27 200 10 1.137 3 00 301 27 200 10 1.137 3 00 301 27 200 0.04 10 0.04 00 301 27 200 0.05 10 0.14 10 00 301 27 200 0.04 0.04 0.04 0.04 301 26 20 0.05 0.05 0.05 0.05 301 26 26 10 0.04 0.04 0.04 301 26 26 26 10 0.05 <td< th=""><th>300 227-22 11 79.9 300 227-22 11 79.9 300 227-24 11 79.9 300 227-24 11 79.9 300 227-24 11 79.9 300 227-24 11 7150 300 227-24 11 7150 301 201 100 100 301 201 100 100 301 201 100 203 301 21 20 203 301 21 20 200 301 21 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21</th><th>BORIA NO.</th><th>IG DEPTH</th><th>PERCENT MOIST +</th><th>DRY . DEN.PCF</th><th>ATTERBERG L LL PL</th><th>.IMITS PI TSF</th><th>COMPRE: PERCENT STRAIN</th><th>SSION TËST PRESSURE-KS START FAIL</th><th>F TYPE FA</th><th>1 LURE 0</th><th>ОТНЕК</th><th></th></td<> | 300 227-22 11 79.9 300 227-22 11 79.9 300 227-24 11 79.9 300 227-24 11 79.9 300 227-24 11 79.9 300 227-24 11 7150 300 227-24 11 7150 301 201 100 100 301 201 100 100 301 201 100 203 301 21 20 203 301 21 20 200 301 21 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 20 301 21 | BORIA NO. | IG DEPTH | PERCENT MOIST + | DRY . DEN.PCF | ATTERBERG L LL PL | .IMITS PI TSF | COMPRE: PERCENT STRAIN | SSION TËST PRESSURE-KS START FAIL | F TYPE FA | 1 LURE 0 | ОТНЕК | |
| 300 27-24 31 97.5 0.467 10 1.55 YIELD 00 300 37-15 19 105 100 1.66 YIELD 00 300 37-15 19 100 1.66 YIELD 00 301 7 10 1.09 10 1.09 10 00 301 7 2 38 39.7 0.06 10 YIELD 00 301 7 2 38 39.9 0.06 10 YIELD 00 301 7 2 38 39.9 0.06 10 YIELD 00 301 7 2 38 39.9 0.05 10 YIELD 00 301 10-12 38 39.9 0.05 0.07 YIELD 00 00 301 10-12 38 39.9 0.07 0.07 YIELD 00 00 301 10-12 38 39.9 0.07 YIELD 0.05 00 301 10-12 10 0.07 YIELD 0.07 YIELD 301 27 29 0.07 YIELD 0.07 0.05 < | 300 27-24 24 24 24 24 24 24 300 27-24 24 25 954 100 105 100 100 200 300 27-34 26 200 100 100 100 100 200 301 27-4 20 200 210 100 100 100 200 301 27-4 20 200 100 100 100 100 200 301 27-4 20 200 200 200 200 200 301 27-4 20 200 200 200 200 301 27-12 22 21 200 200 200 301 27-12 22 21 200 200 200 301 27-12 22 21 200 200 200 301 27-22 21 20 200 200 200 301 27-22 21 20 200 200 200 301 27-22 21 20 200 200 200 301 27-22 20 21 20 200 20 | 830 | 20- 22 | 41 | 79.9 | | 0.62 | 10 | | YIELD | | - | |
| 311 7 2 7 1< | 31 2 2 2 3 3 7 0 0 0 31 2 2 3 3 7 0 0 0 0 0 31 2 2 3 3 7 0 0 1 0 0 0 311 2 2 3 10 7 0 0 1 0 0 311 2 2 3 3 10 7 0 0 0 0 311 2 2 3 3 0 10 1 1 0 0 311 1 1 1 0 0 1 0 0 0 311 1 1 1 0 0 0 1 0 0 311 1 1 1 0 0 0 1 0 0 311 1 1 1 0 0 1 0 0 311 1 1 1 0 0 1 0 0 311 1 1 1 1 0 0 1 0 < | 830 830 | 22 - 24 25 - 24 | 31 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | 0.67 | 10 | | YIELD | й. х | | |
| 300 37-34 36 123.4 0.05 10 1109 10 2.03 111 301 7-7 2 89.4 96.4 1.09 10 2.03 111 301 7-7 2 89.4 96.4 1.09 10 2.03 10 301 7-7 2 89.4 92.9 92.9 92.9 92.9 301 17-10 3 89.4 0.53 10 0.51 110 110 301 17-11 3 89.4 0.53 10 0.51 10 0.51 301 17-11 3 89.4 0.53 10 0.51 110 110 301 17-11 3 89.4 0.53 10 0.54 10 0.54 301 17-11 17 10 0.54 10 0.54 10 0.54 301 25-25 3 89.5 10 10.9 114 116 10 311 25-35 30 90.9 10 10.9 10.9 10.9 312 25-35 30 90.9 10 10.9 114 312 25-35 30 <td>331 7- 7 39 123.6 100 7.15 00 331 7- 7 29 87.7 0 1.03 715.0 00 331 7- 7 20 87.7 0 1.03 715.0 00 331 7- 7 20 87.7 0 1.03 715.0 00 331 7- 7 20 81.7 0.05 10 0.51 715.0 00 331 7- 7 20 91.0 0.51 716.0 0.51 716.0 00 331 27- 29 89.7 0.05 10 0.51 716.0 0.0 331 27- 29 89.7 0.05 0.0 0.05 0.0 331 27- 29 99.7 0.0 10 10 10 332 27- 20 99.7 0.0 10 10 10 332 27- 20 99.7 10 100 10 10 332 27- 20 99.7 10 100 10 10 332 27- 20 27 0.10 100 <</td> <td>830</td> <td>28-30</td> <td>9 1 1 1</td> <td>0.0</td> <td></td> <td></td> <td>10</td> <td>+ 55 - 4</td> <td>YIELD VIELD</td> <td>q</td> <td></td> <td></td> | 331 7- 7 39 123.6 100 7.15 00 331 7- 7 29 87.7 0 1.03 715.0 00 331 7- 7 20 87.7 0 1.03 715.0 00 331 7- 7 20 87.7 0 1.03 715.0 00 331 7- 7 20 81.7 0.05 10 0.51 715.0 00 331 7- 7 20 91.0 0.51 716.0 0.51 716.0 00 331 27- 29 89.7 0.05 10 0.51 716.0 0.0 331 27- 29 89.7 0.05 0.0 0.05 0.0 331 27- 29 99.7 0.0 10 10 10 332 27- 20 99.7 0.0 10 10 10 332 27- 20 99.7 10 100 10 10 332 27- 20 99.7 10 100 10 10 332 27- 20 27 0.10 100 < | 830 | 28-30 | 9 1 1 1 | 0.0 | | | 10 | + 55 - 4 | YIELD VIELD | q | | |
| 301 37-36 19 96.4 1.99 10 2.03 VIELD 00 311 7-7 29 83.7 0.056 10 VIELD 00 311 7-7 29 83.7 0.056 10 VIELD 00 311 6-7 29 83.7 0.056 10 VIELD 00 311 10-112 31 98.7 0.050 10 VIELD 00 311 10-112 32 98.7 0.27 10 0.14 VIELD 00 311 10-112 31 98.7 0.27 10 0.74 VIELD 00 311 10-12 23 98.7 0.27 10 0.74 VIELD 00 311 10-22 29 98.7 0.27 10 0.74 VIELD 00 311 26-32 31 98.7 0.74 10 1.43 VIELD 00 311 32-24 21 99.7 10 1.43 VIELD 00 312 26-35 31 98.7 0.74 VIELD 0.74 313 36-36 31 99.7 10 | 37 36 19 96.4 1.99 10 2.03 11 10 2.03 10 2.03 10 2.03 10 2.03 10 2.03 10 2.03 10 2.03 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 10 2.04 2.0 | 830 | 32- 34 | 36 | 123.6 | | 0.64 | 12 | | YIELD | | 2 | |
| 831 0-2 23 89.9 1.37 3 MULTIPLE SHEAR 831 2-6 33 89.9 0.065 10 YIELD 0 831 2-6 33 89.9 0.055 10 YIELD 0 831 15-114 33 89.9 0.054 YIELD 0 831 15-114 33 89.9 0.27 10 0.14 831 15-114 33 89.9 0.27 10 0.14 831 15-114 33 89.9 0.27 10 0.14 831 15-114 33 89.9 0.27 10 0.14 831 15-114 33 89.9 0.27 10 0.14 831 257 26 25 10 0.14 YIELD 831 26-36 30 99.9 10 1.109 YIELD 831 26-36 31 96.9 10 1.109 YIELD 832 27 28 99.9 10 1.109 YIELD 832 27 28 99.9 1.09 1.109 YIELD 832 16 26 27 2 | 831 0- 29 89.9 0.055 10 71ELD 831 7- 4 0 0.055 10 71ELD 831 10- 10 29 89.9 0.055 10 71ELD 831 10- 10 10 0.055 10 0.055 10 0.055 831 10- 10 10 0.054 10 0.054 71ELD 00 831 12- 10 0.054 10 0.054 71ELD 00 831 12- 10 0.054 10 0.074 71ELD 00 831 27- 24 29 89.0 0.074 10 1.09 71ELD 00 831 27- 24 26 25 0.074 10 1.09 71ELD 00 831 26- 30 99.9 10 1.09 1.09 71ELD 00 831 25- 24 10 1.09 1.09 1.09 0.09 831 36- 99.9 10 1.09 71ELD 0.09 832 21 99.9 10 1.09 71ELD 0.09 <tr< td=""><td>830</td><td>34-36</td><td>19</td><td>96.4</td><td></td><td> 99</td><td>10 10</td><td>2.03</td><td>YIELD</td><td>2 2 2</td><td>др</td><td></td></tr<> | 830 | 34-36 | 19 | 96.4 | | 99 | 10 10 | 2.03 | YIELD | 2 2 2 | др | |
| 331 2- 4 3 844 0.053 10 331 10-10 3 92:9 0.053 10 71EL0 71EL0 331 10-11 3 92:9 0.053 10 0.054 71EL0 0.05 331 15-11 32 93:9 0.051 71EL0 0.05 71EL0 0.05 331 15-11 32 95:0 0.051 10 0.054 71EL0 0.05 331 12-14 30 99:0 0.051 10 0.054 71EL0 0.05 331 27-14 30 99:0 0.074 10 1.109 71EL0 0.05 331 27-24 33 96:0 0.074 10 1.109 71EL0 0.0 331 27-24 30 99:0 0.074 10 1.109 71EL0 0.0 332 27-2 28 0.034 10 1.109 71EL0 0.0 332 27-4 28 0.034 10 1.109 71EL0 332 27-4 28 0.034 10 2.03 0.0 332 27-4 28 0.034 10 | 331 2- 4 9 9 9 9 331 5- 6 7 9 9 9 331 5- 2 2 9 9 9 331 5- 2 9 9 9 9 331 10112 3 9 9 9 9 331 10112 3 9 9 9 9 331 10112 3 9 0.14 116 10 331 27-24 3 9 0.14 116 10 331 27-24 3 9 0.14 10 110 331 27-24 3 9 0.14 10 110 332 21 9 0.14 10 110 110 332 21 9 10 110 110 110 332 21 9 10 110 110 110 332 21 9 10 110 110 110 332 21 9 10 110 110 110 332 10 110 110 110 110 | 169 | | 0 | | а | 1 3 | , , | | 1 | | | |
| 331 1- 29 39,4 0.000 10 716LU 00 331 10-112 32 99,5 0.149 10 0.54 716LU 00 331 16-112 32 99,5 0.27 10 0.64 716LU 00 331 16-12 32 99,5 0.27 10 0.64 716LU 00 331 16-12 39 99,5 0.78 10 0.64 00 0.74 331 27-24 39 99,5 0.79 10 0.64 0 00 331 26-35 31 99,5 0.79 10 1.09 716LU 00 331 36-35 30 99,5 0.44 10 2.03 00 00 332 27-4 44 90,5 0.44 10 2.14 00 00 332 12-1 10 1.45 7 0.03 716LU 00 332 12-1 0.95 0.44 10 2.14 00 00 332 12-1 0.95 10 1.45 7 00 332 12-1 0.95 0.94 10 | 331 10 10 10 10 10 10 10 10 331 10 10 10 10 10 10 10 10 331 10 10 10 10 10 10 10 10 331 10 10 10 10 10 10 10 10 331 10 10 10 10 10 10 10 00 331 27 26 25 0.17 10 100 110 10 331 27 26 31 00.0 100 1143 116 100 00 331 27 26 25 0.10 100 1143 116 110 332 21 20 0.01 10 100 1143 116 00 332 10 1143 10 1143 116 1143 116 100 332 10 1143 10 1143 116 1143 116 100 332 10 1143 10 1143 116 1143 116 332 10 114 10 | | * * 1 E 2 N | K C | | | 1 0 - 4 - 0 - 4 - 0 | n c | | MULT IPL | E SHEAR | | |
| 831 6- 8 29 99.9 91.9 10 91.9 <td>831 6-10 20 89.9 0.00 10</td> <td>831.</td> <td>04 1 1 1 − 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> | 831 6-10 20 89.9 0.00 10 | 831. | 04 1 1 1 − 1 | | | | | | | | - | | |
| 831 0-10 31 92.9 0.00 0.00 71500 00 831 12-12 33 80.6 0.00 0.01 71500 00 831 12-24 33 80.6 0.00 0.01 7100 0.01 71500 00 831 12-24 33 80.6 0.01 1.00 1.01 1.00 0.01 831 22-24 33 80.6 0.01 1.00 1.01 1.00 0.01 831 22-32 30 80.7 0.01 1.00 1.13 7150 0.00 831 22-32 30 89.1 0.01 1.01 1.00 1.00 0.01 831 22-32 30 89.1 0.01 1.01 1.00 0.01 831 30-30 89.1 0.01 1.01 1.00 0.01 831 30-30 89.1 0.01 1.01 1.00 0.01 84-6 0.0 0.01 1.01 1.00 1.01 0.01 832 0-2 0.01 1.01 1.00 1.01 0.01 832 0-2 0.01 1.01 0.01 0.01 0. | 831 10-10 31 92.9 92.9 92.9 92.9 92.9 92.9 93.1 10-11 32 95.4 0.054 VIELD 0.05 8331 10-14 30 99.9 0.64 VIELD 0.64 VIELD 0.0 8331 10-16 10 0.54 10 0.64 VIELD 0.0 8331 12-72 29 99.0 0.17 10 1.09 VIELD 0.0 8311 227-25 31 98.0 0.05 10 1.09 VIELD 0.0 8311 227-25 31 98.0 0.05 10 1.09 1.33 VIELD 0.0 8311 257-26 31 98.0 0.05 10 1.09 0.0 8311 257-26 26 10 1.09 1.33 VIELD 0.0 8312 26-4 4 10 1.16 10 1.16 0.0 8312 26-4 4 10 2.16 0.0 0.0 8312 26-4 4 10 2.16 0.0 8322 26-4 4 10 2.16 0.0 8322 16 | 1E8 | 9 9 9 | 0 | 68.9 | | | | | | - - - - - - - - - - - - - - - - - - - | - | |
| 831 10-12 25 0.74 10 0.74 110 110 0.74 110 | 10-17 26 25 1 0.27 10 0.74 10 1145 1146 1145 1146 1146 1146 1146 1146 1146 1146 1146 1146 1146 1146 <td< td=""><td>831</td><td>B- 10</td><td>, M</td><td>92.9</td><td></td><td></td><td></td><td>C . E .</td><td></td><td></td><td>0</td><td></td></td<> | 831 | B- 10 | , M | 92.9 | | | | C . E . | | | 0 | |
| 831 127 14 33 85.4 0.27 10 0.74 71ELD 00 831 277 26 33 86.55 34 90 90 831 277 26 34 90 91.97 10 11.09 71ELD 00 831 277 26 34 90.9 91.99 91.99 91.99 90 831 277 26 34 10 11.35 10 11.49 71ELD 00 831 36-36 31 90.9 91.9 01.0 11.21 10 11.95 00 831 36-36 31 90.9 91.9 01.46 10 11.45 831 36-36 31 91.9 01.9 11.21 10 11.45 831 36-36 31 91.9 01.9 21.4 00 00 832 0-7 2 21 01.9 21.4 00 00 832 0-7 2 10 1.70 2.14 00 00 332 10-12 2 8 84.6 00 00 332 10-12 2 8 | 831 12-14 33 85.4 26 25 1 0.27 10 0.74 VIELD 00 831 16-18 30 99.9 96.5 100 1.07 10 1.09 VIELD 00 831 227-24 39 89.0 0.74 VIELD 00 00 831 227-24 39 89.0 0.74 VIELD 00 831 284-26 31 98.0 0.74 VIELD 00 831 30-32 30 99.7 0.46 10 1.09 VIELD 00 831 30-32 30 89.7 0.46 10 1.09 VIELD 00 831 30-32 30 89.7 0.04 10 1.26 00 831 30-32 30 89.7 0.04 10 2.04 00 832 0-12 27 29 10 1.26 00 00 832 0-2 27 29 0.94 10 2.04 00 332 16-112 28 84.4 0 0.74 90.6 00 332 16-112 28 92.4 <td< td=""><td>831</td><td>10-12</td><td>N N</td><td>99</td><td></td><td></td><td>•</td><td>0.64</td><td></td><td></td><td></td><td></td></td<> | 831 | 10-12 | N N | 99 | | | • | 0.64 | | | | |
| 831 16-18 30 26 25 10 1.09 YIELD 00 831 21-26 29 89.0 26 29 00 831 21-26 31 98.0 99.7 100 1.43 YIELD 00 831 321-26 31 98.0 99.7 10 1.45 YIELD 00 831 30-30 99.7 10 1.45 YIELD 00 00 831 30-31 99.7 10 1.45 YIELD 00 831 30-32 90.9 0.48 10 1.45 YIELD 00 831 30-32 91 10 1.45 YIELD 00 831 30-32 91 10 1.45 YIELD 00 831 30-32 91 2.14 10 2.14 00 832 2-4 44 10 2.14 2.14 00 833 2-4 44 10 2.14 00 00 833 2-4 44 10 2.14 00 00 332 10-12 2 2 0.34 10 00 3 | 831 165-18 30 26 25 10 109 100 109 100 100 109 100 <td>831</td> <td>12-14</td> <td>ы Ш</td> <td>85.4</td> <td></td> <td>0.27</td> <td>10</td> <td>0.74</td> <td></td> <td>•</td> <td></td> <td></td> | 831 | 12-14 | ы Ш | 85.4 | | 0.27 | 10 | 0.74 | | • | | |
| 11 19 29 89:0 0.78 10 1.09 YIELD 131 22 24 33 86:5 10 1.61 10 1.45 131 22 24 30 99:7 10 1.45 YIELD 00 131 32 30 99:7 10 1.45 YIELD 00 131 36 31 99:7 10 1.45 YIELD 00 132 25 31 99:7 10 1.79 YIELD 00 132 25 31 90:9 0.94 10 2.14 00 132 25 4 44 90.5 0.94 10 2.14 105 1.79 10 2.14 10 2.14 00 105 1.79 10 2.14 10 2.14 00 105 1.59 10 2.14 10 2.14 00 105 1.59 10 2.14 10 2.14 00 106 1.59 10 2.14 10 0.74 10 106 1.55 10 0.52 10 0.74 10 < | 11 18-20 29 90 11 22:2 24 33 96:5 12 22:2 24 33 96:5 13 22:2 24 33 96:5 13 26:3 30 90:9 90:9 13 30-3 90:9 90:9 10 14 7 10 1:45 71ELD 13 30-3 90:9 10 1:45 13 30-3 90:9 10 1:45 13 30-3 90:9 10 1:45 13 30-3 90:9 10 1:45 13 30-3 90:9 10 1:45 13 30-3 90:9 10 2:14 13 30-3 90:9 10 2:14 13 30-3 90:5 10 1:79 13 21 90:5 10 2:14 13 21 90:5 10 1:45 13 21 10 2:14 90 13 21 10 2:14 90 13 21 10 0.3 91:6 13 21 2 0.3< | 831 | 16- 18 | 30 | | 26 25 | | | |)))) • | • • • • | DDD I CONC | 07 |
| 331 247 24 49 331 247 24 39 331 247 24 39 331 247 26 39 331 247 26 30 331 247 26 39 331 347 9009 9009 331 347 9009 9009 332 36 31 97 9009 333 27 9009 9009 9009 333 27 9009 9009 910 1100 110 1109 2101 120 2003 910 333 26 4 4 100 2104 9009 333 10 112 28 920 921 9009 333 10 112 28 920 9009 9009 333 10 112 28 920 9009 9006 333 16 12 20 0.52 1 0.52 0.53 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 18- 20 | 0 N | 8 3•0 | | 0.78 | 10 | 1.09 | YIELD | | | - 7NF - |
| 831 26-7 20 99.7 99.7 99.7 831 30-30 99.7 99.7 99.7 99.7 831 30-30 99.7 10 1.68 71ELD 00 831 36-30 30 99.7 10 1.68 71ELD 00 831 36-30 99.7 90.9 97.1 10 1.79 71ELD 00 832 21 90.9 91.6 10 2.14 10 2.14 00 832 21 90.9 91.6 10 2.14 10 2.14 00 00 332 12 44 80.5 92.4 10 2.14 10 00 332 16-18 28 92.4 10 0.74 90.46 00 332 12-14 28 92.4 10 0.74 90.46 00 332 12-14 28 92.4 10 0.74 90.46 00 332 16-18 20 0.94 10 0.74 | 831 26-70 900 831 30-30 900 831 30-30 900 831 30-30 900 831 30-30 900 831 30-30 900 831 30-30 900 831 30-30 900 831 30-30 900 831 36-30 900 831 36-30 900 832 21 900 833 21 900 833 21 900 833 21 900 833 21 900 833 21 900 833 21 20 833 21 20 833 21 20 844 10 214 844 10 0.52 112 28 8445 1332 10-12 28 1332 10-12 28 1332 10-12 28 1332 10-12 28 1332 10-12 28 1332 10-12 28 1332 10-12 28 1332 110 | | | . • • | 96.5 | | 1.07 | 10 | 1.33 | YIELU | | | |
| 331 30-32 30 890 | 331 30-32 30 890 71ELD 00 00 331 34-36 31 34-36 31 90.9 90.9 00 331 34-36 31 36-31 90.9 1.21 10 1.79 71ELD 00 332 27 90.9 0.94 10 2.03 71ELD 00 00 332 27 90.9 0.91 10 2.14 71ELD 00 00 332 27 90.9 0.91 10 2.16 0.30 84.6 332 16 2 7 0.30 84.6 00 0.91 00 332 16 12 2.8 84.6 0.65 7 0.30 84.6 00 332 16-112 2.8 84.6 10 0.74 94.6 00 332 16-114 32 92.4 10 0.74 94.6 00 332 18-20 20 0.74 94.6 0.74 94.6 00 <td< td=""><td></td><td></td><td>+ F</td><td></td><td></td><td>0.25</td><td>01</td><td>1+45</td><td>YIELD</td><td></td><td>00</td><td></td></td<> | | | + F | | | 0.25 | 01 | 1+45 | YIELD | | 00 | |
| 831 34 36 31 34 36 31 34 36 31 34 36 31 34 36 31 34 36 31 34 36 31 34 35 31 34 35 31 34 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 35 31 <t< td=""><td>831 34-36 37 90.9 831 34-36 37 90.9 831 34-36 37 90.9 832 27 90.9 10 2.03 832 2-2 27 99.9 10 2.04 832 2-2 27 99.9 10 2.03 832 2-4 44 90.5 10 2.04 10 832 2-4 6 25 10 2.03 11 0 832 4-6 27 0.9 10 2.14 10 2.03 11 832 4-6 27 20 0.92 10 2.14 10 332 10-12 28 84.6 0 0.05 11 0 0 0 332 10-12 28 84.6 0 0.04 0 0 0 0 332 16-18 30 87.4 10 0.74 0.166 0 0 0 0 0 0 0 0</td><td></td><td></td><td></td><td></td><td>μ<u>μ</u></td><td>84 • 0</td><td>2</td><td>1.68</td><td>YIELD</td><td></td><td>0 D</td><td></td></t<> | 831 34-36 37 90.9 831 34-36 37 90.9 831 34-36 37 90.9 832 27 90.9 10 2.03 832 2-2 27 99.9 10 2.04 832 2-2 27 99.9 10 2.03 832 2-4 44 90.5 10 2.04 10 832 2-4 6 25 10 2.03 11 0 832 4-6 27 0.9 10 2.14 10 2.03 11 832 4-6 27 20 0.92 10 2.14 10 332 10-12 28 84.6 0 0.05 11 0 0 0 332 10-12 28 84.6 0 0.04 0 0 0 0 332 16-18 30 87.4 10 0.74 0.166 0 0 0 0 0 0 0 0 | | | | | μ <u>μ</u> | 8 4 • 0 | 2 | 1.68 | YIELD | | 0 D | |
| 831 36-38 27 90.9 10 2.14 VIELU 832 2-1 4 44 86.9 10 2.14 VIELU 832 2-1 4 44 80.9 90.9 10 716.0 2.14 832 2-1 4 44 80.9 92.4 90.9 92.4 832 2-1 6-30 10 716.0 0.30 90.6 92.4 832 6-1 6 25 92.4 90.9 91.6 90.9 332 10 0.52 7 0.30 90.6 7 0.30 90.6 332 10-12 28 88.7 0.69 7 0.30 90.6 332 12-12 28 92.4 10 0.74 90.6 90 332 12-12 28 92.4 10 0.30 90.6 90 332 12-12 28 93.6 100 0.74 90.6 90 332 16-18 30 89.4 2 <t< td=""><td>831 36-38 27 90.9 832 2-2 27 90.9 8332 2-1 44 88.9 8332 4-4 44 88.9 332 4-7 0.91 10 7.14 332 4-7 6 25 7 0.30 332 10-12 28 84.5 10 7 332 10-12 28 84.5 10 7 0.40 332 10-12 28 84.5 10 0.74 90.65 0 332 16-18 30 88.7 0.40 0.74 90.16 0.74 332 16-18 30 88.4 0.03 88.4 0.040 0.74 332 16-18 30 88.4 0.03 0.74 90.65 0.0 332 16-18 30 88.4 0.03 88.4 0.65 0.0 332 18-12 27 25 2 0.99 0.16 0.16 332 18-26 28</td><td></td><td>94 96</td><td>3</td><td></td><td></td><td></td><td>)</td><td> C C</td><td></td><td></td><td></td><td></td></t<> | 831 36-38 27 90.9 832 2-2 27 90.9 8332 2-1 44 88.9 8332 4-4 44 88.9 332 4-7 0.91 10 7.14 332 4-7 6 25 7 0.30 332 10-12 28 84.5 10 7 332 10-12 28 84.5 10 7 0.40 332 10-12 28 84.5 10 0.74 90.65 0 332 16-18 30 88.7 0.40 0.74 90.16 0.74 332 16-18 30 88.4 0.03 88.4 0.040 0.74 332 16-18 30 88.4 0.03 0.74 90.65 0.0 332 16-18 30 88.4 0.03 88.4 0.65 0.0 332 18-12 27 25 2 0.99 0.16 0.16 332 18-26 28 | | 94 96 | 3 | | | |) | C C | | | | |
| B32 0- 2 27 88,9 10 1159 10 B32 2- 4 44 80.5 92.4 80.5 B32 2- 4 44 80.5 92.4 00 091 10 B32 4- 6 25 92.4 00.52 7 0.30 BULGE 00 B32 10- 12 28 84.6 00 0.40 BULGE 00 B32 16- 12 28 88:7 0.30 BULGE 00 B32 16- 12 28 92.4 10 0.74 90.5 B32 16- 12 28 92.7 0.994 10 0.74 B32 16- 12 28 92.4 10 0.74 90.16 B32 16- 18 9 1.15 10 0.74 90.16 B32 28- 27 25 2 2.92 3.03 9 1.45 90 B32 28- 20 | 832 0- 2 27 88.9 832 2- 2 4 44 80.5 832 4- 4 80.5 92.4 0.91 10 332 4- 6 25 92.4 0.91 10 332 6- 8 25 92.4 0.05 7 0.30 332 10 0.65 7 0.40 0.05 7 0.40 332 10- 12 28 88.7 0.65 10 0.74 332 12- 14 6 0.67 11.16 6.66 0.0 332 12- 14 9 0.67 10 0.74 0.166 0.0 332 16- 18 30 88.4 27 29 0.074 7 0.074 332 16- 18 9 0.66 10 0.074 7 0.0 332 24- 26 27 25 2 2 0.0 0 332 24- | 831 | 36- 38 | 27 | 6.06 | | 0.94 | | 2.14 | | | | |
| 832 2 27 88,9 832 2 4 4 832 2 4 4 832 4 6 25 92.4 832 4 6 25 92.4 832 4 6 25 92.4 84.6 84.6 0.52 7 0.30 332 10 12 0.63 7 0.03 332 10 12 28 84.6 00 332 10 12 10 0.74 94.6 332 16 12 0.03 84.6 00 332 16 12 0.040 94.6 00 332 16 12 0.074 94.6 00 332 16 18 30 88.4 00 00 332 18 20 30 94.4 0 00 332 18 2 2 2 2 2 2 2 2 2 2 2 <td>832 2 2 27 88,9 1.59 10 832 2- 4 44 80.5 92.4 0.931 10 832 4- 6 25 92.4 0.052 7 0.30 BULGE 332 10- 12 28 84.6 0.652 7 0.30 BULGE 0 332 10- 12 28 88.7 0.640 BULGE 0 0 332 16- 12 28 88.7 0.54 10 0.74 9ULGE 0 332 16- 18 32 92.4 10 0.74 9ULGE 0 0 332 16- 18 32 92.4 10 0.74 9ULGE 0 <</td> <td>· . :</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- - - - -</td> <td></td> <td>C C</td> <td></td> | 832 2 2 27 88,9 1.59 10 832 2- 4 44 80.5 92.4 0.931 10 832 4- 6 25 92.4 0.052 7 0.30 BULGE 332 10- 12 28 84.6 0.652 7 0.30 BULGE 0 332 10- 12 28 88.7 0.640 BULGE 0 0 332 16- 12 28 88.7 0.54 10 0.74 9ULGE 0 332 16- 18 32 92.4 10 0.74 9ULGE 0 0 332 16- 18 32 92.4 10 0.74 9ULGE 0 < | · . : | | | | | | | | - - - - - | | C C | |
| 832 4+ 4 5 332 1 0 30 8 4 </td <td>332 10-112 28 92.44 0.91 10 332 6-1 8 28 84.6 0.52 7 0.30 332 10-112 28 84.6 0.65 7 0.30 BULGE 0.0 332 10-112 28 84.6 0.65 7 0.30 BULGE 0.0 332 10-112 28 88.7 0.65 7 0.40 BULGE 0.0 332 16-18 30 88.7 0.24 10 0.74 PULGE 0.0 332 16-18 30 88.4 0.994 10 0.74 PULGE 0.0 332 18-20 30 88.4 7 1.09 BULGE 0.0 332 24-27 25 2 0.09 BULGE 0.0 0.0 332 24-26 28 1.45 80.1 0.0 0.0 0.0 332 24-26 28 30 37 88.1 5.32 8 0.0 32 27<td>N (N (E) (</td><td>N</td><td>27</td><td>69 6</td><td></td><td>1.59</td><td>10</td><td></td><td>MULTIPU</td><td>E SHEAR</td><td></td><td></td></td> | 332 10-112 28 92.44 0.91 10 332 6-1 8 28 84.6 0.52 7 0.30 332 10-112 28 84.6 0.65 7 0.30 BULGE 0.0 332 10-112 28 84.6 0.65 7 0.30 BULGE 0.0 332 10-112 28 88.7 0.65 7 0.40 BULGE 0.0 332 16-18 30 88.7 0.24 10 0.74 PULGE 0.0 332 16-18 30 88.4 0.994 10 0.74 PULGE 0.0 332 18-20 30 88.4 7 1.09 BULGE 0.0 332 24-27 25 2 0.09 BULGE 0.0 0.0 332 24-26 28 1.45 80.1 0.0 0.0 0.0 332 24-26 28 30 37 88.1 5.32 8 0.0 32 27 <td>N (N (E) (</td> <td>N</td> <td>27</td> <td>69 6</td> <td></td> <td>1.59</td> <td>10</td> <td></td> <td>MULTIPU</td> <td>E SHEAR</td> <td></td> <td></td> | N (N (E) (| N | 27 | 69 6 | | 1.59 | 10 | | MULTIPU | E SHEAR | | |
| 332 61 8 28 84:6 0.05 7 0.30 BULGE 332 10 12 28 86:7 0.40 BULGE 00 332 10 12 28 86:7 0.40 BULGE 00 332 10 12 28 86:7 0.40 BULGE 00 332 12 14 32 92:7 0.74 NIELD 00 00 332 16 18 30 974 10 0.74 90 00 332 16 18 30 99:4 10 0.74 90 00 332 16 18 30 99:4 10 0.74 10 00 332 18 27 25 2 3.03 3 1.45 80 00 332 24+ 26 27 25 2 3.03 3 1.45 0.0 00 332 24+ 26 27 25 2 2.3 30 < | 332 5 6 8 84:6 0.50 332 10 12 28 84:6 00 332 10 12 28 84:6 00 332 10 12 28 84:6 00 332 12 14 32 92:7 0.69 7 0.03 332 12 14 32 92:4 10 0.74 7 0.40 332 12 14 32 92:4 10 0.74 90 332 16 18 30 87:9 9:94 10 0.74 90 332 18 20 30 98:4 7 1.09 90 00 332 22 24 27 25 2 2 2 30 30 90 00 332 24 26 28 1.06 0.09 00 00 332 30 37 800 60 00 00 00 00 00 00 <t< td=""><td>200</td><td>* 4</td><td>4 4 4 C</td><td>0 0 0</td><td></td><td></td><td>10</td><td></td><td>YIELD</td><td></td><td></td><td></td></t<> | 200 | * 4 | 4 4 4 C | 0 0 0 | | | 1 0 | | YIELD | | | |
| 332 10-12 28 8847 0.40 BULGE 00 332 12-14 32 92.7 0.74 90.16 00 332 12-14 32 92.7 0.24 10 0.74 90.16 332 12-14 32 92.7 0.24 10 0.74 90.16 332 16-18 30 87.9 9.94 10 0.74 90.16 00 332 16-18 30 88.4 27 25 2 0.94 10 0.0 332 22-24 27 25 2 0.94 7 1.09 90.16 00 332 24-26 28 89.5 3.03 9 1.45 80.1 00 332 24-26 28 80.16 5.32 8 1.45 90 00 332 24-26 28 8 1.45 80.16 00 00 332 30-32 37 40.6 8 1.45 90 00 | 332 10-1 0.40 Butge 0.0 332 10-12 28 0.69 7 0.0 332 12-14 32 92.7 0.74 YIELD 00 332 16-18 30 88.7 0.24 10 0.74 YIELD 00 332 16-18 30 88.4 7 1.09 Butge 00 332 16-18 30 99.94 10 0.74 YIELD 00 332 18-20 30 98.4 27 25 2 0.94 10 00 332 22-24 24 27 25 3 0.9 00 332 22+26 28 894.5 5 3 0.145 00 332 22+26 28 30 3 1.45 804.6 00 332 30 37 40.66 0.0 00 00 332 30 37 40.66 0.0 00 00 | и: с п. п п. п | | | | | 0.52 | - | 0-30 | BULGE | | OD. | |
| 332 12-14 32 92-7 00 332 12-14 32 92-7 00 332 12-14 32 92-7 00 332 16-18 30 87-9 92-7 00 332 16-18 30 87-9 92-94 10 00-74 332 16-18 30 87-9 9-94 10 00-74 7 10 332 18-20 30 88-4 7 1-09 BULGE 00 332 22-24 27 25 2 0-94 7 1-09 00 332 24-26 28 89-5 3-03 9 1-45 80LGE 00 332 24-26 28 3-03 9 1-45 80LGE 00 332 24-26 28 1-45 80LGE 00 00 00 332 30-32 17 40-6 8 1-45 8 00 332 30-32 17 40-6 8 1-45 9 <td>332 12-14 20 00.74 VIELD 00 332 12-14 32 92.7 00.24 10 00.74 VIELD 332 16-18 30 87.9 92.47 0.24 10 00.74 VIELD 332 16-18 30 87.9 9.94 10 0.74 WIELD 332 218-20 30 88.4 7 1.09 WIELD 01 332 22-24 27 25 2 0.94 7 1.09 WIGE 332 24-26 28 89.5 3.03 9 1.45 WIGE 00 332 24-26 28 303 9 1.45 WIGE 00 332 24-26 28 303 9 1.45 WIGE 00 332 30-32 17 40.6 00 00 00 00 332 30-32 3 1.45 WIGE 00 00 332 30-32 3 1.45 WIGE 00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.69</td> <td>1</td> <td>0+0</td> <td>BULGE</td> <td></td> <td>00</td> <td></td> | 332 12-14 20 00.74 VIELD 00 332 12-14 32 92.7 00.24 10 00.74 VIELD 332 16-18 30 87.9 92.47 0.24 10 00.74 VIELD 332 16-18 30 87.9 9.94 10 0.74 WIELD 332 218-20 30 88.4 7 1.09 WIELD 01 332 22-24 27 25 2 0.94 7 1.09 WIGE 332 24-26 28 89.5 3.03 9 1.45 WIGE 00 332 24-26 28 303 9 1.45 WIGE 00 332 24-26 28 303 9 1.45 WIGE 00 332 30-32 17 40.6 00 00 00 00 332 30-32 3 1.45 WIGE 00 00 332 30-32 3 1.45 WIGE 00 | | | | | | 0.69 | 1 | 0+0 | BULGE | | 00 | |
| 32 16-18 30 87.9 9.94 10 0.74 BULGE 332 16-18 30 88.4 7 1.09 9.94 10 0.0 332 18-20 30 88.4 7 1.09 BULGE 00 332 22-24 27 25 2 0.94 7 1.09 00 332 24-26 28 89.5 2 3.03 9 1.45 00 32 24-26 28 89.5 3 1.45 80.1 00 32 27 25 2 3.03 9 1.45 00 32 24-26 28 30 37 88.1 5.32 8 0.05 32 17 40.6 5.32 8 1.668 90 00 | 32 16-18 00 0.04 0016 332 16-18 30 87.9 9.94 10 0.04 332 18-20 30 88.4 7 1.09 0.16 0.0 332 22-24 27 25 2 3.03 9 1.09 0.0 332 22-24 27 25 2 3.03 9 1.45 0.0 332 22-24 27 25 2 3.03 9 1.45 0.0 332 24-26 28 89.5 3.03 9 1.45 0.0 332 30-32 17 40.6 5.32 8 0.0 0.0 32 30-32 17 40.6 9 0.0 0.0 | 300 | | 0 C 7 C | | | 4 1 • 1 | 01 | 0.74 | YIELD | - | 00 | |
| 332 18-20 30 88.4 0.04 10 332 24-26 28 89.5 27 25 2 00 332 24-26 28 89.5 3.03 9 1.45 80.1 00 332 24-26 28 89.5 5.32 8 1.45 80.1 322 24-26 28 89.5 5.32 8 1.45 00 322 24-26 28 80.1 5.32 8 1.66 00 322 28-30 37 40.6 9.166 00 00 322 32 17 40.6 9.046 00 00 | 332 18-20 30 88.4 0.94 7 0.04 332 22-24 27 25 2 0.94 7 0.0 332 22-24 27 25 2 3.03 9 1.45 BULGE 00 332 24-26 28 89.5 3.03 9 1.45 BULGE 00 332 24-26 28 89.5 3.03 9 1.45 BULGE 00 322 28-30 37 88.1 5.32 8 1.68 00 322 30-32 17 40.6 9.166 2.32 8 00 | 332 | 16- 18 | 20 | | | | | - / t | BULGE | | 00 0 | |
| 332 22- 24 27 332 24- 26 28 89.5 27 25 2 0.0 332 24- 26 28 89.5 5.32 9 1.45 BULGE 00 332 30- 32 17 40.6 5.32 8 1.68 BULGE 00 332 30- 32 17 40.6 | 332 22- 24 27 332 24- 26 28 89-5 2 3.03 9 1.45 BULGE 00 332 24- 26 28 89.5 3.03 9 1.45 00 332 30- 32 17 40.6 5.32 8 1.68 BULGE 00 | 332 | 18- 20 | | 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | - | 90.00 | | 5 · · · | Y LELD | | () 1 | |
| 32 24- 26 28 89.5 32 28- 30 37 88.1 32 28- 30 37 88.1 32 30- 32 17 40.6 32 30- 32 17 40.6 32 30- 32 17 40.6 | 132 24- 26 28 89.5 132 28- 30 37 88.1 132 28- 30 37 88.1 132 30- 32 17 40.6 11.68 BULGE 00 00 | 332 | 22- 24 | 27 | • | 27 25 | 2 | - . | K0 • T | BULGE | | | |
| 132 28- 30 37 88.1 32 30- 32 17 40.6 5.32 8 1.68 BULGE QD | 132 28- 30 37 88.1 132 30- 32 17 40.6 5.32 8 1.68 BULGE | 132 | 24- 26 | 28 | 89.5 | م ا | 3.03 | 01 | 1.45 | ALL GE | | | |
| 32 30- 32 17 40.6 | 32 30- 32 17 40.6 | 132 | 28- 30 | 37 | 88.1 | | 5.32 | . 60 | 1.68 | BUL GE | | | |
| | | 32 | 30- 32 | 17 | 40.6 | | | • | | 5 1 1 | | ני | |
| | | | , | | | | | - | | | | | |

.

2

-

| | N0• 2 | | f. | | | LABORAT | ORY DATA | | TABLE | 115 E | E NO. 7 |
|----------------------------|--|--------------------|---|-------------|---------------|----------------|---------------------------|------------------------|------------------------|-------------------|---------|
| AOR L | NG DEPTH | PERCENT MOLST . | DEN. PCF | ATTER LL | BERG LI PL | MITS PI TSF | COMPR PERCEN STRAIN | ESSION TE IT PRESSU | EST JRE-KSF FAIL | F TYPE FAILURE | отнек |
| 9 33 | 8 0 | 3 | 81.9 | | : | 1.12 | | | | VERTICAL SHEAD | • |
| е е е | 2- 4 | 28 | | | | 0.89 | • • • • | | | WHITTPLE SHEAD | · |
| 533 | . 4 - | Ē | . 85.6 | | | 0.94 | , | | | 45 DFG SHEAR | |
| 333 | 6 - 6 | 06 | 89.1 | 41 | 25 | 16 0.88 | 10 | | | | |
| 333 | 8- 10 | 37 | 85.5 | | | 1.08 | 0 | | • | | |
| 5.53 | 10- 12 | 26 | · · · · · · · · · · · · · · · | 29 | 24 | ŝ | | | • | - - | ддЯ |
| | 12- 14 | 6 67 | 85.7 | | | 1.44 | 10 | 0.74 | | YIFLD | |
| 6 6 6 7 | 16- 18 | 0 | 87.1 | | · · · · | 2.80 | 10 | 66•0 | : • | YIELD | |
| | 18- 20 | 32 | 88.9 | | 2 | 0.32 | 10 | 1.09 | | YIELD | |
| алы сп. с | 22+ 24 | ጠ (ጠ`) | . 85•8 | • | | 0.16 | 12 | 1.33 | | YIELD' | |
| יין ריי אירי יייי | 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 67 8 7 | • | · . | . 1•33 | 10 | 1.45 | | YIELD | |
| | | | 000 | | • | 2 + 5 8 | | 1.68 | | YIELD | |
| | | X | 1 • 0 | | | 1.86 | 10 | · ~ 1 • 79 | | YIELD | 0 |
| | 34- 36 | 26 | 89.1 | | | 2.54 | 10 | 2.03 | | YIELD . | |
| 1 1 1 | 36- 38 | 24 | 94•4 | | | 0440 | 10 | 2.14 | | YIELD | |
| الله س | 401 42 | 41 | 86.8 | | | 3.50 | 7 | 2.39 | | BUI GF | |
| 533 | 45- 44 | 21 | 101.8 | | | 1.31 | . 0 | 2.49 | | BULGE | , G |
| | | | | | | | : | | | |) 1 |
| 1 × | | 8 0 | 92.1 | | | 1 • 78 | 10 | | | YIELD | |
| 1 | + + + N - | 5 (7 (| 09 - • 1 • 1 | | | 0.61 | 10 | · · · · | | YIELD | |
| | 0 0 | A € 0 | 6116 | | | 0.65 | 10 | - | | YIELD " | |
| | 0 1 0 | 52 | 89.3 | | | 0.98 | 10 + | 0.34 | | YIELD | 00 |
| | | 77 | 90.1 | | | 0.88 | 10 | 0,51 | | YIELD | 0D |
| 4 | | 22 | •] | 2 4 | 24 | 0 | | | | | RPP |
| 10 10 10 10 10 | 12-14 | 19 | 79. 8 | | | 1.03 | 10 | 0.74 | | YIELD | 00 ; |
| 7 - | | 5 2 | 0 • 2 8 | | | 1.56 | 10 | 0,99 | | YIELD | 00 |
| | | 67 | 30 • 2 | - | - | 2 • 62 | • | 1,09 | • | SLUMP . | 00 |
| 134 | 22 - 22 | 5 | 79.8 | | | 1.74 | 8 | 1,33 | | YIELD | 00 |
| t . | 24 - 70 20 | 1 1 1 1 1 | . B 6 | | | 0.65 | æ | h • 45 | | BULGE | no |
| 1 1 1 1 | | 0) (C | | • | | 0.53 | , m. | | | MULTIPLE SHEAR | • |
| 1 - 7 (| | Γ. (γ | 99.66 | | | 3.56 | D | 1、479 | | BULGE | 20 |
| | 0 1 1 1 1 1 1 | 00 | 89.6 | | | 1 • 2 3 | 7 | | | MULTIPLE SHEAR | k T |
| 4 | 36+ 38 | 18 | 92.4 | | - | | | | | | |
| 35 | 0- | 30 | 89.5 | | - | 1 - 86 | 5 | | | | |
| 35 | 2- 4 | 26 | | | | |) (+ - | | | YIELD | |
| - | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | 1344 7 | | | | YIELD . | |

| E PCO | NO | ь Х | B | | | L ABO | RATOR | Y DATA | , | TABLE | 11 <u>6</u> . F | ILE NO. 7 | 17 |
|---|---|---------------|--------------------|-----------------------|--------------------|---------------|------------------|--|---------------------------------|----------------------|-------------------------|-------------|----|
| BOR I | NG | Тн | PERCENT MOIST . | DEN. PCF | ATTERBERG LL PL | LIMITS PI | TSF. | COMPRES PERCENT STRAIN | SSION TES PRESSUF START P | 5T RE-KSF FAIL | TYPE FAILURE | Other | |
| 25 | 17 | J. | 70 | d | :* | · (| | · · · · · · · · · · · · · · · · · · · | | | | | |
| ית היים היים | 1 - 1 1 - 1 | | 1 1 7 1 | | | | 86 . | 07 7 | | | YIELD . | | |
| 5 C B | | 2 | | | | 50 | | ů v v | 0 • • 0 | | BULGE | 00 | |
| 8 3 5 | 101 | × 4 | - C | • • • • • | | · C | v∔ (⊃ (| | 0.51 | | YIELD | D O O | |
| 2 C C C C C C | | r 4 | י ר י ר | | | -4 / | - | | 0.74 | | BULGE | 00 | |
| יו שיי סים | | | 7 F 7 F | | • | - -1 (| • 10 | 10 | 0.86 | | YIELD · | 00 | |
| | | | ۲ ۲ ع ۲ | | | | :\{- 20 # | 1 0 | 1 00 | | YIELD | | |
| ית הית | 196 | 4 N 1 N | 1 C | | | -4 (| • 1 2 | 10 | 1,22 | | YIELD | 00 | |
| | | | 2 | | | 0 | • 24 | • | 1.45 | | BULGE | 00 | |
| ריים הית הים | | | -1 u | 10 C | • | O | • 63 | 7 | | | VULTIPLE , SHEAR | 1 | |
| חיר היה כמ | | N 4 N 6 | n 0 n 0 | C • 7 B | | O | 69 | 6 | | | ULTIPLE SHEAR | | |
| 1 H 7 C 7 C | | 1 0 7 0 | | (| | .× | | | | | | | |
| n.' n' b | | 2 | 4 N | 80°0 | | | • 6 7 | 10 | | | rielo | | |
| 836 | 5 | Ň | 33 | 88•3 | | | 442 | | | • | l L | | |
| 836 | 2- | 4 | 27 | 0-76 | | 4 - | - - |) (| | ·. · | rielu 11 - Lu | | |
| 836 | 4 | <u>م</u> | 30 | 89.2 | | • C | τα • • | ~ 0 | | | MULTIPLE SHEAR | | |
| 836 | - 9 | œ | 22 | | | | 2 | 5 | | | r ielu | | |
| 836 | 1 | 10 | 30 | | | | | | | | | | |
| 836 | 12- | - † | 24 | 95,0 | | U , | 60. | 01 | 72 0 | | | | |
| 836 | 18- | 20 | 30 | 95.6 | | • | | - - | | | ר ובבט | | |
| B36 | 20- | 22 | 36 | 83+6 | | 0 | .18 | 12 | | - | VIELO | | |
| B36 | 24- | 26 | 30 | 86.7 | | • • | • 23 | 1 G | 1.45 | - | | | |
| 836 | 26- | 28 | 12 | 89.6 | | | • 1 1 | 9 | 1 55 | | BULGE | 30 | |
| 836 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 32 | 28 | 90.7 | • | | .71 | 10 | 1.79 | | VIELD | 20 | |
| B36. | 32- | 34 | 23 | | | | | ne de la companya de | • | | | 2 | |
| 836 | 361 | 38 | 39 | | | | | | • | | · . · | | |
| 337 | | ંભ | 34 | 83.7 | | | | | • | | | | |
| 337 | 1 | 4 | 24 | 92.4 | - | • | | | | - , | | | |
| 337 | • | œ | 26 | 94.4 | | | 36 | | 0 - 40 | - / | | | |
| 337 | 121 | 14 | 30 | 91.7 | | • | • | - - - | | - | | . | |
| 337 | 141 | 16 | 22 | 89.5 | | 1, | 19 | vo | 0 A A A | | | | |
| 337 | 18- | 20 | 33 | 88.9 | • | Ō | 49 |) ~ | | 10 | | | |
| 337. | 20- | 22. | τΩ ΓΩ | 88.0 | | 0 | 87 | . 10 | 1.22 | , , | | 3 | |
| 337 | 24= | 26 | 30 | 88•6 | · | ō | 98 | | 4 | - > | | uh | |
| 7.9.4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1 | - 96 | 28 | 26 | 97.1 | | 0 | 68 | 2 | 1,55 | - 111 | UL'6F | | |
| • | | | | | | • | | | • | | | > | |

| 30 |
|-------|
| 74= |
| • O • |
| ILE |
| LL. |

•

| E PCO | ND. Z | - | | | • | i | | LAE | BORATO | RY DATA | | TABLE | 111 | | FILE | • 0 • |
|--|--|------------|----------------------------|-----------------|--|------------|------------------|-------------------|--------------------|---------------------------|------------------------------|------------------------|--------------------|------------|---------|-------|
| BOR I NO. | NG DEPTI | т. Т | PERCEN MOIST . | Di Di | DRY EN.PCF | ATTE LL | ERBERG LI | IMITS PI | 5 TSF | COMPR PERCEN STRAIN | ESSION T T PRESS START | EST URE-KSF FAIL | TYPE F | ALURE | .° | THEK |
| 837 837 | 90 97 1 | 342 | 28 | • | 90•2 89•0 | | | | 0,95 1,12 | 10 | 1•91 | | BULGE | • • • • | | |
| 168 188 | 1 20 C | 90 r P | | · | 93.7 | | | | 4 . 34 | | 2.14 | | BULGE | 4 | | |
| | | v 3 . | 2 - 1 - 2 | | 87.9 | | | - | 0 • 9 4 0 • 8 5 | 10 10 | | | YIELD YIELD | · · · | | • |
| 0.000 | 1 1 4 0 (| 0 00 | 1 0 1 0 | | 81.4 | • | | | 0.29. 0.70 | 0 m | | | | C HE AD | | |
| 838 838 | | | 0 M | | 88°0 | | | | 0.43 | 10 | Ċ | | YIELD | | | |
| 838. 838. | 16 | 18 | 6 E | | 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | : : | | 200 | 0 • 66 • 0 | • | YIELD YIELD | | | |
| 838 | 52 | 5 | 54 | | | | - - - | | n • | | - | | YIELD | | | |
| 838 838 | 9 4 1 1 9 4 9 4 9 4 9 | 32 | -1 10 10 10 10 | | 82.0 | | | | 68.0 | 10 | , 1 + 5 | | Y IELD | | | 00 |
| 838 | 34 - 3 | 36 | 2 0 | . ^ | 91.2 | | | | 3,86 | ŝ | 2.08 | | BULGE | - | | 00 |
| 839 | | 2 | 32 | | 84.6 | | | , 10 ⁴ | 1.31 | 10 | · | | YIFLD | | | |
| 839 8 | * * | t 0 | 5 7 7 7 | • • | 83•8 | | | : | 2•04 0 • 0 | 80 (c | | | MULTIP | LE SHEA | R | |
| 839 | - 9 | æ | 28 | 2 7 - | 88.7 | | · . · | | 0.49 | | | | Y I FLD | | | |
| 939 | | 12 | 31 10 | • • | 87.8 80.2 | | 10 y 20 y 200 | • | 1.08 | 6 | | | MULTIP | LE SHEA | æ | |
| 839 | 12-1 | | 21 | | 101.0 | | | | 2.57 | 0 ~ | 0.74 | | AULT IP AULT IP | LE SHEA | Υ. Υ | |
| 839 839 | 16- 1 18: 2 | 18 | 29 7 | | 97,8 | | | | 1.79 | 10 | 0,99 | | YIELD | | | 39 |
| . 6 | 5 5 5 7 1 7 7 1 7 7 7 7 7 7 7 7 7 7 7 7 | b S | 5 | | 6 ° L 6 | | | | 3•53 1•68 | √ 0 ~√(| 1, 0 0 1,00 | | JULGE | | | 00 |
| 839 222 | 28-3 | 00 | 25 | | 105.2 | | - | | 3.57 | 5 0 0 | 1.68 | | aurer Burer | | | |
| 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | 32 | 1 0 7 4 | - | 77.9 | : | | | 0.455 | ¢ | 2 2 9 | , | AULT IP | LE SHEA | r | נ |
| 6.6 | | <u>)</u> @ | - 8 - 7 | 1 | 0 0 0 0 0 0 4 | | . 1 | | 0.81 | ~ 、 | | ~ | AULTIP | LE SHEA | X | |
| 339 | 46- 4 | 8 | 23 | ۰. | 8.9 | | | - | 0.34 | ° 01 | * | <i>z. F</i> | AULTIP LELD | LE SHEAI | 2 | |
| 340 | • | • N | 27 | en le Notina | 89.1 | | • | | 1.29 | ð | · · · · | | | 1 | , | |
| . 046 | - 5 - | 4 | 21 | | 8.8.7 | м. | | | 0.92 | ` | | | | LE SHEAU | r | |
| 040 | 1 | 9 | 3 6 | | 93.5 | | | | 0.76 | 10,1 | 0,30 | ⊢) –. | , IELU | | | 80 |
| | | | | | | | | | | | | | | | | |

4

EPCO NO. 2

• •

-2-

1

LABORATORY DATA

| 74- 30 | - | CONSOL | | |
|--|--|--|---|--|
| E NO. OTHER | | | 3333 333 | |
| 118 FIL | I ELD ULGE ULGE ILCGE | IELD LUMP IELD ULTIPLE SHEAR IELD IELD IELD | IELD ULGE IELD IELD ULGE ULGE IELD IELD IELD | ULTIPLE SHEAR IELD IELD LUMP LUMP IELD IELD IELD IELD |
| TABLE Ion Test Pressure-ksf Tart fail t | 000 1 1 1 1 1 1 1 1 1 1 1 1 1 | ₩ ₩ X X X X X | 44 /ul> | • • • • • • • • • • • • • • • • • • • |
| RY DATA COMPRESS PERCENT STRAIN S | 0 10 00 00 0 | | | - 1000 |
| LABORATC LIMITS PI TSF | 10100 0100 0100 0000 0000 0000 0000 00 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| ATTERBERG LL PL | | 5 7 7 7 | | • |
| T DRY DEN•PCF | 8 8 9 9 8 9 4 9 9 4 9 9 4 9 9 4 9 9 4 9 9 4 9 9 4 9 4 | 99 99 99 99 99 99 99 99 99 99 99 99 99 | 77.0 877.0 877.0 877.0 775.0 104.0 104.0 104.0 | 888 887 901 901 901 901 901 90 901 90 90 90 90 90 90 90 90 90 90 90 90 90 |
| Z PERCEN | 10 12 12 12 12 22 23 23 23 23 23 23 23 23 23 23 23 23 | | 14 18 20 20 20 20 20 20 20 20 20 20 20 20 20 | |
| EPCO NO. BORING NO. DEF | 840 8- 840 10- 840 14- 840 14- 840 20- 840 20- 840 20- | B C <td>341 341 341 341 341 341 344 344 344 344</td> <td>00000000000000000000000000000000000000</td> | 341 341 341 341 341 341 344 344 344 344 | 00000000000000000000000000000000000000 |

| ŋŋ | DD DUSUL | 00 d 00 | | | | | 000 |
|----------------|--|---|---|---|---------------------------------------|--|--------------------------|
| BULGE YIELD | YIELD YIELD YIELD YIELD YIELD YIELD | YIELD YIELD YIELD | BULGE YIELD YIELD YIELD | Y I ELD R V I ELD B V I G E B V I G E B V I G E | YIELD BULGE | VERTICAL SHEAR YIELD YIELD YIELD YIELD YIELD YIELD | PULGE BULGE YIELD |
| 1+91 | 15 0 | 0.99 | 2•03 0•30 | 0 40 0 64 0 99 1 09 1 33 | 1.45 2.01 | 0 • 30 0 • 40 0 • 51 0 • 74 | 1.05 1.91 2.01 |
| 12 | 00000 | 10 12 | a 100 | 100 | 10 4 | | 2001 |
| 2•92 0•53 | 0 • 54 0 • 10 0 • 15 0 • 15 | 0.79 0.33 2.12 | 3.25 0.66 0.14 | 90000000000000000000000000000000000000 | 1.86 0.15 | 0.66 0.77 0.19 0.33 1.66 | 3.75 3.35 2.33 |
| | 23 24 0 24 0 | 24 24 | | | · · · · · · · · · · · · · · · · · · · | | • , • , • , |
| | 5 8 5 4 | 6 7 | | | | · | |
| 92.9 91.0 | 82 86 86 86 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 84.7 98.5 93.9 | 0000 0000 0000 0000 | 8 9 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 86.5 90.6 | 82 83 83 84 80 84 80 84 80 80 80 80 80 80 80 80 80 80 80 80 80 | 999 90 92 92 |
| - - | | | | • • • • • • • • • • • • • • • • • • • | | | |
| 26 | 8 8 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1010 1010 1010 1010 1010 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 400044 | 6 6 8 8 8 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 0 1 N 1 N N N |
| 32 | 0 9 8 6 4 N | | 0 N 3 10 0 | 408878 | 300 300 300 300 300 | N4 Q80 04 11 | 0 + 0 (|
| 30- 32- | 111111 4 80 4 8 0 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | m 1 1 1 1 1 1 1 1 1 | 1 1 1 1 0 0 5 5 5 6 7 0 0 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 9 8 0 9 8 9 8 9 9 9 9 9 9 9 9 9 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 T T 7 N 00 (|
| 842 842 | 8 8 8 8 9 9 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | t 4 4 4 4 4 t 4 4 4 4 t 4 4 4 4 t 2 0 0 0 0 0 | 4444 4444 000000 | 100 00 000 100 000 00 100 000 00 | 641 847 847 847 |

•

and the second
· ••••

.

.

| OTHER | | | | | | 00 | ap | | i | . 00 | 00 | Q Q Q | 00 | | | | ддд | | 1 | | d n | ē | | 33 | 00 | | 00 | 00 | | | 00 | 0D | 00 | | | | đD | 00 | |
|---|---------|--------|--------|-------------|-------|---------|--------|-------|---------------------|-------------|--------------|----------------------|-------|-------------|----------------|---------------------------------------|-------|----------------------------|------------------|--------------|----------|-------------|---------|------------------|--------|--------|--------|---------------|---------|-------|---------|--------------|--------|--------|---|---------|--------------------|--------|---|
| SF. TYPE FALLURE | ÷. | YIELD | YIELD | YIELD . | YIELD | YIELD . | Y'IELD | YIELD | YIELD | BULGE | BULGE | YIELD | BULGE | | MULTIPLE SHEAR | YIELD | | · · · | YIELD | YIELD VIELD | TLELD | BUILGE | YIELD | YIELD | YIELD | | BULGE | SLUMP | YIFLD . | YIELD | YIELD - | YIELD | BULGE | YIELD | | | | BULGE | |
| SSION TEST PRESSURE-KS START FAIL | | ۰ ۱ | | | - | 0+64 | 1.33 | 0.99 | | 1.59 | 1.68 | 1.79 | × • | | | | | | - | | | 1.00 | 1.22 | 1.45 | 1,55 | | 1.91 | 2 • 26 | | | 0.30 | 0 • 4 0 | 0.64 | | | | 77.0 | 1.55 | |
| COMPRE PERCENT STRAIN | • | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | B | 10 | ទ្ធ | Di | | - - - | 01 | سيريم | | | | 2 - | 6 | 10 | 10 | 10 | | P# | ₽, | 10 | 10 | 10 | 10 | 7 | 10 | • | - 4 | 10 | 5 | |
| 1115 11 TSF | | 10.97 | 1 • 02 | 0+44 | 0.27 | 0.87 | 2.79 | 0.86 | (a) 0 • 46 ≥ | 1.27 | 1.96 | 0.72 | | | 0.60 | 0.68 | 4 | ç | | | | 0.68 | 0 • • 0 | 1.11 | 2.90 | | 6.18 | 1.30 | 1.40 | 0.63 | 0.20 | 0.25 | 0.11 | 0.17 | | 0 L 7 | 0 • 4 0 0 • 6 8 | 3 • 62 | · |
| TTERBERG LIM L PL P | | • | | | | | | | | | | | | | e. | • • • • • • • • • • • • • • • • • • • | 32 2B | יי יי יי צי יי | | | - | - | | - - - - | | | | | · | | | | | | | • | | | |
| DEN+PCF L | · · · · | 85.7 | 84.7 | 90.7 | 90.2 | 89.6 | | 87.8 | 2.4.5.87.0 E | 87.5 | 75.0 | | | | 76.4 | 84•2 | | | | | 76.6 | 0.66 | 90.6 | . 82.9 | 96.8 | 91.1 | 96.2 | 108.7 | 87.8 | 87.9 | 87.9 | 88.4 | 71.7 | 63•2 | | A A . K | 84.6 | 97.3 | |
| PERCENT MOIST . | | 4 | 36 | 89 [V] | 30 | 32 | 27 | 16 | . 27 . Sec. | 4 1 1 | | | | | 40 | | 90 | | 2 7 7 7 | 1. v 1. e | ት (ጠ | 18 | 25 | | 24 | 22 | 21 | 21 | 32 | 31 | 30 | 31 | 60 | 38 | | 28 | 3.5 | 26 | ÷ |
| 4G DEPTH | | N | 2- 4 | 0 1 7 | 8-10 | 10+ 12 | 12- 14 | 16-18 | 26- 27 | 27- 29 | Z 8 1 30 | | | 1 7 7 | 0-0 | 2- 4 | 41 B. | - D.i 7 | | | 14- 16 | 18- 20 | 20- 22 | 24- 26 | 26- 28 | 30- 32 | 32- 34 | 38- 40 | -0 - | 2- 4 | 4 4 | 6 - 8 | 10- 12 | 12- 14 | | 20- 22 | 24- 26 | 26- 28 | |
| BOR L | | 848 | 848 | 848 | 848 | 948 | 848 | 848 | 948 | . 848 | 8778 8778 | 10 C 17 C 10 C | | | 849 | 849 | 849 | -070 | 6 7 0 | 0 7 0 | 849 | 8 49 | 849 | 849 | 849 | 849 | 849 | 849 | 8 5 0 | 850 | 850 | 850 | 850 | 850 | | 852 | 852 | 852 | 4 |

+

| CEPCO NO. 2 | | | | , LAI | BORATO | RY DATA | TABLI | , 123 | FILE NO. |
|--|--|---|--------------------|----------|--|------------------------------|--|---|----------|
| BORING NO• DEPTH | PERCENT MOIST. | DEN.PCF | ATTERBERG LL PL | LIMIT | S TSF | COMPRES PERCENT STRAIN | SSION TEST PRESSURE-K STAŘT FAIL | SF ÅJLURE | OTHER |
| 852 28- 31 852 32- 3 852 34- 3(| 0 4 2 5 5 5 6 7 5 6 | 104+3 91•9 101•2 | | | 3+25 2+55 1+15 | . ተ | 1,68 1,91 2,03 | BULGE Slump Bulge | |
| 853 853 853 853 | 0 0 0 0 0 0 0 | 85 87 86 •5 •5 | 2 2 9 8 | | 1 • 79 0 • 67 | 20 C | | MULTIPLE SHEA YIELD |) , |
| 853 61 853 61 853 1411 | | 87 - 5 | | | 0.43 | 0 ^ 0 1 0 7 0 | 0+51 0+51 | YIELD YIELD YIELD YIELD | |
| | | N | | | 0 • 4 3 4 • 95 | 1 4 | 2•14 | Y I ELD SLUMP | 00 |
| 853 241 24 853 241 24 853 261 26 853 301 33 | 5 0 4 1 7 0 0 4 | 79.4 95.9 101.4 | | | 0 • • • • • • • | 0 9 0 1 | 1•45 1•55 | Y IELD BULGE AULGE | |
| 853 853 853 853 853 853 853 853 853 853 | | | | | | v ≻ 0 v | 1,79 1,79 2,14 2,26 | NONE BULGE Y TELD BULGE | 0000 |
| Common and and and and and and and and and an | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 001000000 10000000 1000000000000000000 | 35 | o | 0.38 0.36 0.38 0.38 0.38 0.38 | ×00000 | | MULTIPLE SHEA YIELD YIELD YIELD YIELD YIELD YIELD | ~ |
| 854 16- 18 854 22- 23 854 23- 24 854 24- 26 | 20 00 00 00 00 00 00 00 00 00 00 00 | 99 4 4 0 9 4 9 4 0 9 8 5 2 9 8 5 2 9 8 5 2 9 8 6 7 9 8 7 | | • | 0•34 0•30 3•42 | 01 0 6 | 0.99 1.36 | Y I EL V Y I EL D BULGE | 00 |
| 854 281 30 854 301 32 854 341 36 854 361 38 | 5 5 8 8 0 0 | 110.8 90.3 94.2 107.2 | • | 14 M | 3.62 0.51 1.12 4.41 | 4 ال 20 | 1.68 1.68 2.03 2.14 | BULGE YIELD Slump Bulge | |

5

| EPCO | N0. 2 | | | | LA | BORATOF | RY DATA | | TABLE | 124 | FILE N | 0 74- 3 |
|--|---|-------------------------|----------------------------|-----------------------------|------------|---------------------------------------|------------------------------|----------------------------|------------------------|--|---------------|---------|
| 30R1 40. | NG DEPTH | PERCEN MOIST. | T DRY DEN.PCF | ATTERBER LL PL | KG LIMIT | S TSF | COMPRES PERCENT STRAIN | SLON TE PRESSU START | IST IRE-KSF FAIL | , TYPE FAILUR | Е 01 | нек |
| 3 5 5 5 5 5 | | 2 27 44 28 | 92.1 91.0 | 78 64 2 | 12 46 | 2.37 | 9 9 | | • | 60 DEG SHEA Vifld | x | |
| 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 4 1 6 1 2 1 1 1 1 1 1 1 1 | 4 8 6 7 1 9 7 1 9 | 91.1 88.9 80.9 | 31 Z | 5 | 0 • 1 8 • 1 8 • 1 8 | 40 < | 000 | | SLUMP YIELD | · · · | 00 |
| 955 955 | 14-14 | 6 27 | 95.8 | 24 2 | 0 - | 0.58 | t⊣c | | • • - | BULGE V TEL D. | • | 999 |
| 9 9 9 9 9 9 9 9 9 9 | 201 20 201 20 201 20 | 6 238 27 27 | 76.6 85.9 90.2 | ا ، جر ا ، ، ب ، ، | - - | 16.1 | | | | BULGE BULGE VIECE | - - | |
| 4 9 9 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 30 - 13 30 - 13 30 - 33 | 2 2 2 | 92 - 5 94 - 2 92 - 5 | | 127 | 1 50 1 82 | | 1510 | | Y IELD Y IELD | - - | |
| • | r , | | | | | | 2 2 2 | | - | | - | 00 |
| | | | 1 | | · · · | | | | - | an a | š | ; |
| | · · · | | | | · · | · | | | | ••••. | | |
| | | | | - : | • | · · · · · · · · · · · · · · · · · · · | | | • | t | | |
| | | | | | | | | | | | | |
| n in search and the | | | | | | | | | | | 17 | |
| | 1 | | | : | | | - | • • | • | | | |

÷

FIG. 1: 3 8 6 PERCENT FINER BY WEIGHT

287

ġ 8 ġ Ś Ö n 旧 84 - BNIADE . 800 Ē N H H ĥ 8 -SIDA F ÷ ត 1 8 i. 8 - - $\mathbf{\Omega}$ DNS DATE 8 . f . FI GRAI 8 -1 Ş DAREE SAND ņ R 1 F **ARA** 9 0 5 8 9 BANE 8 4 8

FIGULE 1288



FIGURE 137



BAUDIA HERCEAL FINER BY WEIGHT

270

M 88 8 88 8 8 -SIEVE NUMBER g L IS ß 8 T Ę Y 8 8 Ŧ Ş n -----NAP TOANT 8 Ż 9 D J 8 9 Ş. PRAVE IJ у О Н 8 Ĺ H ហំ 8




| | | Silt | ~ |
|----|---|---|---|
| | * | <pre> Silt Sandy Silt Sandy Silt Sand Silty Clay Clayey Silt Claye Slightly Clayey Sandy Silt Silty Fine Sand </pre> | |
| | , , PERMEABILI CM/SEC E3/0 | 0.283E703 0.231E-03 0.102E-02 0.102E-02 0.000E.00 0.000E.00 0.125E-05 0.565E-05 | |
| 0 | ATTERBERG LIMITS LL PL PI | 36 25 11 36 25 11 38 25 25 31 25 46 26 26 0 24 24 0 24 24 0 | |
| 50 | DEN.PCF | 901 900 900 90 90 90 90 90 90 90 90 90 90 9 | |
| | PERCENT MOISTURE | 10100000000000000000000000000000000000 | |
| | DEPTH. | 8 - 10 2 2 4 2 4 2 6 1 2 4 6 1 3 6 1 3 8 - 10 8 - 1 | |
| | FILE NO. 74-30 BORING | | |

APPENDIX C

ATTERBERG LIMITS SOIL CLASSIFICATION PLOT 0-10 Feet Below Ground Surface (302 Samples)

