Appendix 2.5A—Geotechnical Investigation and Laboratory Testing Data Report

(Excludes contents of report Appendix G)

Prepared by
MACTEC Engineering and Consulting, Inc.
February 22, 2006

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February 22,2006
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Southern Nuclear Operating Company, Inc.
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Subject: **Data Report sf Geotechnical Investigation and Laboratory Testing**
Southern Advanced Light Water Reactor, Early Site Permit
Vogtle Electric Generating Plant
Burke County, Georgia
MACTEC Project Number 6141-05-0227

Dear Mr. McCallum:

MACTEC Engineering and Consulting, Inc. (MACTEC) and our team of subconsultants are pleased to submit this data report relating to the Early Site Permit (ESP) for the Advanced Light Water Reactor (ALWR) proposed at SNOC's Plant Vogtle in Burke County, Georgia.

The scope of work was generally as described in Technical Specification 25144-000-3PS-CY00-00001, Rev. 0, with modifications based on discussions with BECHTEL and outlined in our Quality Assurance Project Document and subsequent correspondence. Broadly, the scope included soil borings, soil coring, rock coring, piezo-cone soundings, seismic cone soundings, well installation, field permeability testing using newly installed and pre-existing wells, borehole geophysical logging and laboratory soil testing.

Should you have any questions, please do not hesitate to contact us at 404-873-4761.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Pieter J. DePree, P.E.
Principal Engineer

Wm. Allen Lancaster
Project Manager

Distribution: Addressee (4)
Mr. Scott C. Lindvall, William Lettis & Associates, Inc.
Mr. John Prebula, BECHTEI,

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All of Above Text, Figure, and Table is included in:
001–Data Report of Geotechnical Investigation ALWR ESP Plant Vogtle.pdf

Appendices:
Appendix A – Boring Data (002–Ap A Boring Data.pdf)
Appendix B – CPT Report (003_Ap B CPT Report.pdf)
Appendix C – Geophysical Report (004–Ap C Geophysical Report.pdf; 005_Ap C Geophysical Report Appendices A, B, C & D.pdf; 006_Ap C Geophysical Report Appendices E & F.pdf)
Appendix D – Field Permeability Testing (007_Ap D Field Permeability Testing.pdf)
Appendix E – Laboratory Testing (008_Ap E Laboratory Testing.pdf)
Appendix F – Hammer Calibration (009–Ap F Hammer Calibration.pdf)
Appendix G – Core Photos (010_Ap G B-1003 Core Photos… through 019_Ap G B-1003 Core Photos…)
CD Containing Electronic Data and Photos

1 BACKGROUND

1.1 Purpose

The purpose of the work is defined by Technical Specification 25144-000-3PS-CY00-00001, Rev. 0, prepared by Bechtel Power Corporation (Bechtel). In brief, the Southern Nuclear Operating Company, Inc. (SNOC) requires an Early Site Permit (ESP) for an Advanced Light Water Reactor (ALWR) at Plant Vogtle in Burke County, Georgia. Obtaining this permit requires significant geotechnical and geologic data.

1.2 Site Description

The site is located west of the main Plant Vogtle area. Topography is generally defined by a gently rolling river terrace ranging from about elevation 210 to 280 feet, MSL. The area drains to the north and northwest toward the Savannah River. There has been some past grading including large fills in portions of the area. The area is generally wooded with small to medium pines and traversed by various roadways, mostly unpaved. Support buildings related to the existing plant are located along the southern side of the investigation area.

1.3 Project Description

The project will consist of a new Advanced Light Water Reactor (ALWR) unit. Details of construction are not yet available, but we anticipate major components of the construction will include a reactor vessel, turbine building with turbine supports, and cooling towers. These major structures will likely require high capacity foundations which will likely bear at depth. Ancillary structures will include office and service buildings, buried pipelines and other utilities, and paved areas including parking, loading, and roadways. Grading with excavation and fill on the order of 30 to 40 feet is likely.

2 SCOPE OF WORK

The scope s f MACTEC's services was in general accordance with Technical Specification 2514-000-3PS-CY00-00001, Rev. 0, with modifications based on discussions with BECHTEL and outlined in our Quality Assurance Project Document (QAPD) and subsequent correspondence.

2.1 Preparation

MACTEC obtained permits necessary for performing the work, prepared and submitted a QAPD for the work which was reviewed and approved by Bechtel. Exploratory locations were then located using surveying methods to the nearest 0.5 feet horizontally and the nearest 0.1 foot vertically using third order accuracy surveying techniques. At the completion of exploratory activities, locations were resurveyed to capture changes in locations necessitated by various

conditions and coordinated with BECHTEL. Completed locations are shown on Figure 1. Prior to exploration, the MACTEC team located existing underground utilities near the exploratory locations and submitted a report of the locations. In some cases, minor clearing and site preparation was required at the exploratory locations.

Prior to conducting standard penetration tests (SPT) our rig-mounted, automatic hammers were calibrated (see GRL Report in Appendix F). Hammer energy varied from 65 to 87 percent of theoretical. Although there was some correlation s f hammer energy to depth, the correlation was not perfect and correction of SPT results to N_{60} values would entail some subjective judgment. Therefore, SPT results presented in the boring logs in Appendix A are uncorrected and results of hammer calibration are presented in Appendix F.

2.2 Subsurface Exploration

2.2.1 Soil Boring and Sampling

Twelve borings, designated B-1001 through B-1011 and B-1013, were drilled at the site. Boring locations are shown on Figure 1 and tabulated along with logs of borings in Appendix A. Boring B-1012 was eliminated from the scope by SNOC/BECHTEL.

Except for boring B-1003, all borings were advanced using mud-rotary drilling techniques and polymer and/or bentonite drilling fluid to depths of 100 to 304 feet below the ground surface. Standard Penetration Tests (SPT) were conducted continuously (at 1.5 foot intervals) in the upper 15 feet of each boring and at 5 to 10 foot intervals thereafter. Relatively undisturbed (Shelby Tube, Pitcher, or Piston) samples were collected at intervals selected by SNOC/BECHTEL. In cohesive soils, a pocket penetrometer and/or Torvane device were used to evaluate the undisturbed samples shortly after collection.

Borings were drilled at B-1002A and C-1005A to facilitate suspension logging. No sampling was conducted.

Soil samples from the SPT borings were placed into 8 oz. jars with threaded plastic lids. Adhesive paper labels were placed on the sides of the jars. The labels are pre-printed to accommodate pertinent sample information including project identification, date, boring number, sample number and depth, penetration resistance and a brief description of the enclosed sample. Jar samples were placed in cardboard boxes and stored in the on-site sample storage shed as directed by SNOC/BECHTEL. Jar and undisturbed samples selected for additional testing by SNOC/BECHTEL were returned to MACTEC's laboratory at the end of each week.

2.2.2 Continuous Soil Coring

Boring B-1003 was advanced using continuous soil/rock coring procedures to a depth of 1338 feet using a Christensen 94 mm wire line system. A log of this boring is included in Appendix A. To core crystalline rock below a depth of about 1050 feet, grouted casing was installed to allow use of water rather than viscous mud for drilling fluid. Average core recovery was 77%

throughout the entire hole depth. Cores were logged continuously by MACTEC's field geologist prior to photographing and storage. Selected samples from the cores were sealed in glass jars and returned to the laboratory for further testing. Soil and rock cores were placed in wooden core boxes lined with plastic sheeting and stored on-site at the location specified by SNOC/Bechtel. Core boxes were stored in the on-site sample storage shed as directed by SNOC and Bechtel.

2.2.3 Seismic Suspension Logging

Following completion of boreholes 1002, 1002A, 1003, and 1004 and C-1005A, these drill holes were filled with high-consistency drilling mud to maintain open holes. GeoVision then conducted geophysical suspension logging of the holes using various tools. The procedures and results are discussed in detail in Appendix C.

2.2.4 Cone Penetration Testing

Static Cone Penetration Tests (CPT) were conducted at 12 locations (C-1001 through C-1010, plus C-1001A and C-1009A, added due to shallow refusal) to refusal, encountered at depths of 6 to 117 feet by Applied Research Associates, Inc. in general accordance with the specification. At 3 locations, seismic downhole tests were conducted in conjunction with the static, CPT. Results are reported in Appendix B.

2.2.5 Grouting Boreholes

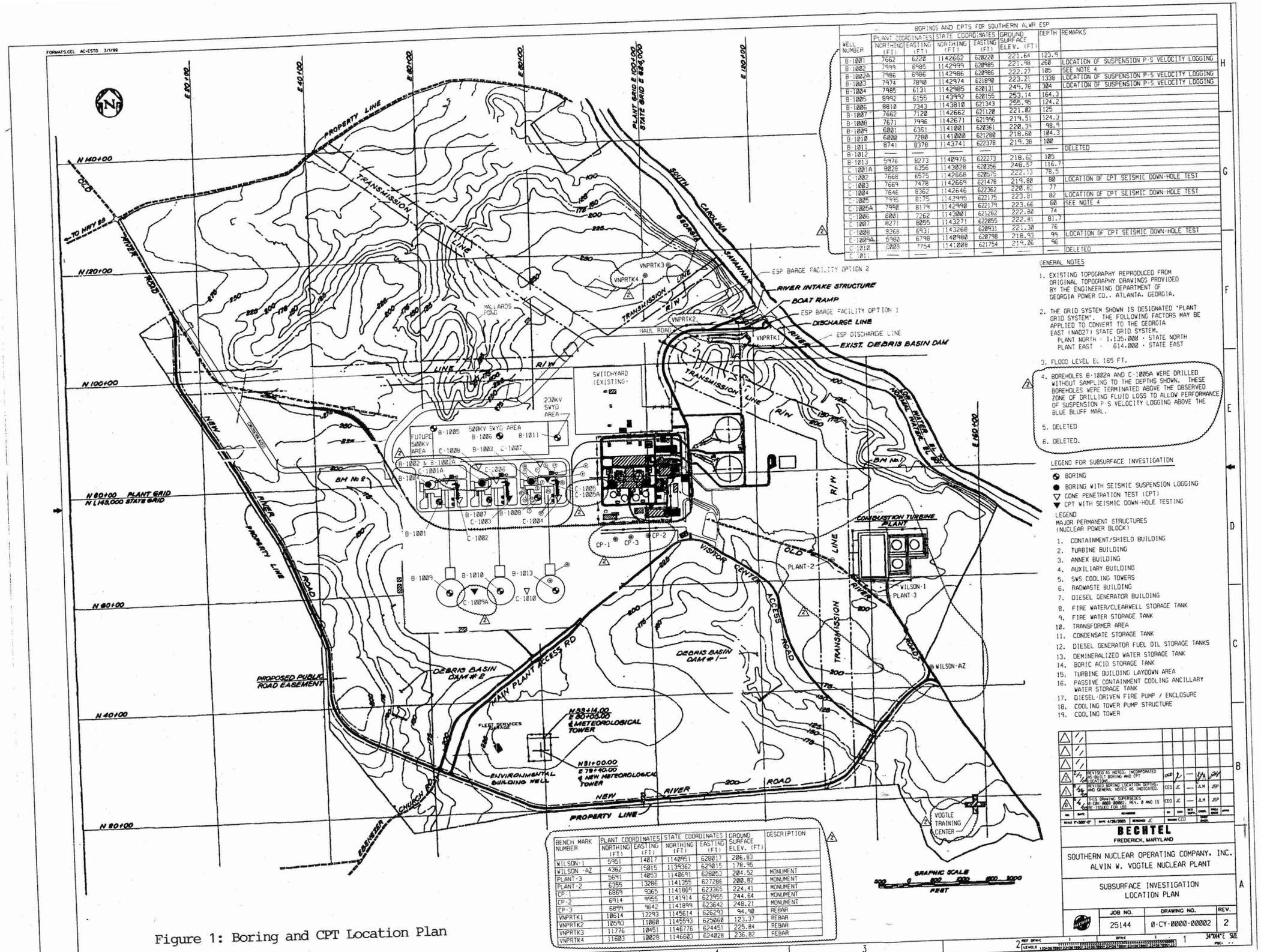
After completion of all drilling, sampling, and seismic logging activities in each borehole, holes were grouted full using tremie methods in general accordance with the specification. The grout mix specified in 25144-000-3PS-CY00-00001 was used. Displaced drilling fluid was sprayed over a wide area of the ground surface or allowed to flow into a mud pit excavated near selected boreholes. This procedure was discussed with Mr. Thomas of SNOC on June 14, 2005 at the Vogtle Site.

2.2.6 Field Permeability Testing

In-situ hydraulic conductivity testing was conducted in accordance with Section 8 of ASTM D 4044 in the fifteen new observation wells recently installed at Plant Vogtle by others. The tests were performed utilizing both falling head ("slug-in") and rising head ("slug-out") tests to assess the water transmitting characteristics of the aquifer. The data acquired from the field permeability tests was analyzed to estimate the hydraulic conductivity of the aquifer using the Bower and Rice slug test methodology. A data report containing all sf the information required by Section 9 of ASTM D 4044 was prepared presenting the results of the field permeability testing and analyses and is included in Appendix D.

2.2.7 Laboratory Testing

Laboratory Testing was conducted based on laboratory assignments provided by Bechtel. The physical soil testing was performed within MACTEC's laboratory in Atlanta. Test results are included in Appendix E.



BORINGS AND CPTS FOR SOUTHERN ALWR ESP

WELL NUMBER	PLANT COORDINATES NORTHING (FT)	PLANT COORDINATES EASTING (FT)	STATE COORDINATES NORTHING (FT)	STATE COORDINATES EASTING (FT)	GROUND SURFACE ELEV. (FT)	DEPTH	REMARKS
B-1001	7662	6220	1142662	620220	221.64	123.9	
B-1002	7999	6985	1142999	620985	221.98	260	LOCATION OF SUSPENSION P-S VELOCITY LOGGING
B-1002A	7986	6986	1142986	620986	222.27	105	SEE NOTE 4
B-1003	7974	7890	1142974	621890	223.21	1338	LOCATION OF SUSPENSION P-S VELOCITY LOGGING
B-1004	7985	6131	1142985	620131	249.78	304	LOCATION OF SUSPENSION P-S VELOCITY LOGGING
B-1005	8992	6155	1143992	620155	253.14	164.3	
B-1006	8810	7343	1143810	621343	255.98	124.2	
B-1007	7662	7120	1142662	621120	221.82	125	
B-1008	7671	7996	1142671	621996	219.51	124.3	
B-1009	6001	6361	1141001	620361	220.39	98.9	
B-1010	6000	7280	1141000	621280	218.60	104.3	
B-1011	8741	8378	1143741	622378	219.38	100	
B-1012	—	—	—	—	—	—	DELETED
B-1013	5976	8273	1140976	622273	218.62	105	
C-1001A	8028	6356	1143028	620356	246.57	116.7	
C-1002	7668	6575	1142668	620575	222.13	78.5	
C-1003	7669	7478	1142669	621478	219.80	80	LOCATION OF CPT SEISMIC DOWN-HOLE TEST
C-1004	7646	8362	1142646	622362	220.82	77	
C-1005	7995	8175	1142995	622175	223.81	82	LOCATION OF CPT SEISMIC DOWN-HOLE TEST
C-1005A	7990	8179	1142990	622179	223.66	60	SEE NOTE 4
C-1006	8001	7262	1143001	621262	222.80	74	
C-1007	8271	8055	1143271	622055	222.81	81.7	
C-1008	8268	6931	1143268	620931	221.30	76	
C-1009A	5982	6798	1140982	620798	218.93	99	LOCATION OF CPT SEISMIC DOWN-HOLE TEST
C-1010	6008	7754	1141008	621754	219.26	96	
C-1011	—	—	—	—	—	—	DELETED

GENERAL NOTES

1. EXISTING TOPOGRAPHY REPRODUCED FROM ORIGINAL TOPOGRAPHY DRAWINGS PROVIDED BY THE ENGINEERING DEPARTMENT OF GEORGIA POWER CO., ATLANTA, GEORGIA.
2. THE GRID SYSTEM SHOWN IS DESIGNATED 'PLANT GRID SYSTEM'. THE FOLLOWING FACTORS MAY BE APPLIED TO CONVERT TO THE GEORGIA EAST (NAD27) STATE GRID SYSTEM.
   PLANT NORTH - 1,135,000 = STATE NORTH
   PLANT EAST - 614,000 = STATE EAST
3. FLOOD LEVEL EL 185 FT.
4. BOREHOLES B-1002A AND C-1005A WERE DRILLED WITHOUT SAMPLING TO THE DEPTHS SHOWN. THESE BOREHOLES WERE TERMINATED ABOVE THE OBSERVED ZONE OF DRILLING FLUID LOSS TO ALLOW PERFORMANCE OF SUSPENSION P-S VELOCITY LOGGING ABOVE THE BLUE BLUFF MARL.
5. DELETED
6. DELETED.

LEGEND FOR SUBSURFACE INVESTIGATION

- BORING
- BORING WITH SEISMIC SUSPENSION LOGGING
- CONE PENETRATION TEST (CPT)
- CPT WITH SEISMIC DOWN-HOLE TESTING

LEGEND
MAJOR PERMANENT STRUCTURES (NUCLEAR POWER BLOCK)

1. CONTAINMENT/SHIELD BUILDING
2. TURBINE BUILDING
3. ANNEX BUILDING
4. AUXILIARY BUILDING
5. SWS COOLING TOWERS
6. RADWASTE BUILDING
7. DIESEL GENERATOR BUILDING
8. FIRE WATER/CLEARWELL STORAGE TANK
9. FIRE WATER STORAGE TANK
10. TRANSFORMER AREA
11. CONDENSATE STORAGE TANK
12. DIESEL GENERATOR FUEL OIL STORAGE TANKS
13. DEMINERALIZED WATER STORAGE TANK
14. BORIC ACID STORAGE TANK
15. TURBINE BUILDING LAYDOWN AREA
16. PASSIVE CONTAINMENT COOLING ANCILLARY WATER STORAGE TANK
17. DIESEL-DRIVEN FIRE PUMP / ENCLOSURE
18. COOLING TOWER PUMP STRUCTURE
19. COOLING TOWER

BENCH MARK NUMBER	PLANT COORDINATES NORTHING (FT)	PLANT COORDINATES EASTING (FT)	STATE COORDINATES NORTHING (FT)	STATE COORDINATES EASTING (FT)	GROUND SURFACE ELEV. (FT)	DESCRIPTION
WILSON-1	5951	14017	1140951	628017	206.83	
WILSON -AZ	4362	15015	1139362	629015	178.95	
PLANT-3	5691	14053	1140691	628053	204.52	MONUMENT
PLANT-2	6355	13286	1141355	627286	200.82	MONUMENT
CP-1	6869	9365	1141869	623365	224.41	MONUMENT
CP-2	6914	9655	1141914	623655	244.64	MONUMENT
CP-3	6899	9642	1141899	623642	248.21	MONUMENT
VNPRTK1	10514	12293	1145514	626293	94.90	REBAR
VNPRTK2	10593	11060	1145593	625060	123.37	REBAR
VNPRTK3	11776	10451	1146776	624451	225.84	REBAR
VNPRTK4	11603	10028	1146603	624028	236.82	REBAR

2	8/4/00	REVISED AS NOTED, INCORPORATED AS-BUILT BORING AND CPT LOCATIONS	CED	JC	JLM / JSP
1	5/4/00	REVISED BORING LOCATION DEPTHS AND GENERAL NOTES AS INDICATED.	CED	JC	JLM / JSP
0	3/1/99	THIS DRAWING SUPERSEDES W-CIV-0000-BRING, REV. 8 AND IS HEREBY ISSUED FOR USE	CED	JC	JLM / JSP

BECHTEL
FREDERICK, MARYLAND

SOUTHERN NUCLEAR OPERATING COMPANY, INC.
ALVIN W. VOGTLE NUCLEAR PLANT

SUBSURFACE INVESTIGATION LOCATION PLAN

JOB NO.	DRAWING NO.	REV.
25144	0-CY-0000-00002	2

Figure 1: Boring and CPT Location Plan

Table 1: Equipment Summary

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PLANT VOGTLE - ALWR ESP - EQUIPMENT SUMMARY

CME 55 Drilling Rig
CME 75 Drilling Rig
Speedstar Quickdrill 275 Drilling Rig
Gardner Denver 15 W Drilling Rig
Christiansen Wireline Coring System
ARA Mack-I Penetrometer Truck
OYO Model 170 Suspension Logging Probe and Recorder
Robertson Geologging Model 3ACS 3 Leg Caliper Probe
Robertson Geologging HIRAT High Resolution Televiewer Probe
InSitu miniTROLL Pressure Transducer
Topcon 303 **GTS** Total Station

Table 2: Field Boring and CPT Summary

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PLANT VOGTLE - ALWR ESP - BORING/CPT LOCATIONS

From Figure 1 - State Grid 1,143,000=plant grid 80+00 (North)
From Figure 1 - State Grid 624,000=plant grid 100+00 (East)

Description	Elevation (ft)	Plant Grid Northing (ft)	Plant Grid Easting (ft)	State Grid Northing (ft)	State Grid Easting (ft)	Termination Depth (ft)	Water Elevation (ft)
B 1001	221.64	7,661.92	6,220.42	1,142,661.92	620,220.42	123.9	NR
B 1002	221.98	7,998.52	6,985.47	1,142,998.52	620,985.47	260.0	166.0
B 1002A	222.27	7,985.62	6,986.07	1,142,985.62	620,986.07	105.0	176.0
B 1003	223.21	7,974.36	7,889.85	1,142,974.36	621,889.85	1,338.0	NR
B 1003 Top sf Casing	224.85	7,974.99	7,889.45	1,142,974.99	621,889.45	1,338.0	NR
B 1004	249.78	7,985.41	6,131.44	1,142,985.41	620,131.44	304.8	117.0
B 1005	253.14	8,991.57	6,155.35	1,143,991.57	620,155.35	164.3	NR
B 1006	255.95	8,810.26	7,342.90	1,143,810.26	621,342.90	124.[illegible]	242.0
B 1007	221.02	7,662.29	7,120.13	1,142,662.29	621,120.13	125.0	161.0
B 1008	219.51	7,670.93	7,996.15	1,142,670.93	621,996.15	124.5	168.0
B 1009	220.39	6,000.54	6,361.26	1,141,000.54	620,361.26	98.9	NR
B 1010	218.60	6,000.12	7,279.68	1,141,000.12	621,279.68	104.5	203.0
B 1011	219.38	8,741.13	8,378.01	1,143,741.13	622,378.01	100.0	NR
B 1013	218.62	5,976.08	8,272.50	1,140,976.08	622,272.50	105.0	205.0
C 1001A	248.57	8,028.13	6,355.97	1,143,028.13	620,355.97	116.7	NR
C 1002	222.13	7,667.65	6,574.64	1,142,667.65	620,574.64	78.5	NR
C 1003	219.80	7,669.31	7,477.88	1,142,669.31	621,477.88	80.0	175.2
C 1004	220.82	7,646.13	8,361.85	1,142,646.13	622,361.85	77.0	NR
C 1005	223.81	7,995.27	8,174.61	1,142,995.27	622,174.61	82.0	189.8
C 1005A	223.66	7,989.75	8,179.26	1,142,989.75	622,179.26	90.0	NR
C 1006	222.80	8,001.46	7,261.58	1,143,001.46	621,261.58	74.0	NR
C 1007	222.81	8,270.62	8,055.05	1,143,270.62	622,055.05	81.7	NR
C 1008	221.30	8,268.48	6,930.90	1,143,268.48	620,930.90	76.0	NR
C 1009A	218.93	5,979.63	6,798.49	1,140,979.63	620,798.49	99.8	NR
C 1010	219.06	6,008.35	7,754.15	1,141,008.35	621,754.15	96.0	NR
OW 1001A Conc Pad/Grade	226.38	7,893.50	6,218.43	1,142,893.50	620,218.43	45.0	NR
OW 1001A Top sf Casing	228.85	7,893.50	6,218.43	1,142,893.50	620,218.43	45.0	NR

NR = No Reading, unable to record water level due to drilling mud.

Table 3: Laboratory Test Summary

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BORING NO.	SAMPLE NO.	DEPTH/ELEV.	USCS	MATERIAL DESCRIPTION	LL	PL	PI
B-1002							
	6	7.5'/214.28'		Silty sand			
	11	18.5'/203.48'		Silty sand			
	13	28.5'/193.48'		Silty sand			
	14	33.5'/188.48'		Sandy silt			
	15	38.5'/183.48'		Silty clay	48	27	21
	18	53.5'/168.48'		Silty sand			
	20	63.5'/158.48'		Silty sand			
	22	73.5'/148.48'		Silty sand			
	24	83.5'/138.48'		Silty sand			
	UD-1 Upper	92.0'/129.98'	GM	Silty gravel with sand	72	37	35
	UD-I Middle	92.0'/129.98'		Silty gravel with sand			
	UD-2	103.5'/118.48'	Cb	Sandy silt	34	22	12
	UD-3	113.5'/108.48'	SC	Clayey sand	29	19	10
	UD-4	123.5'/98.48'	GC-GM	Silty clayey gravel with sand	22	17	5
	UD-5	133.5'/88.48'	SM	Silty sand with gravel	32	25	7
	33	153.5'/68.48'	CL	Sandy silt with gravel	34	21	13
	38	188.5'/33.48'	SM	Silty sand	NP	NP	NP
	43	238.5'/-16.52'		Silty sand			
B-1003							
	3	15.0'/208.21'		Silty sand			
	7	35.0'/185.21'		Silty sand			
	11	55.0'/168.21'		Silty gravel with sand			
	14	75.0'/148.21'		Poorly graded sand with silt			
	17	88.0'/135.21'	SM	Silty sand with gravel	93	42	51
	UD-1	93.0'/130.21'	SM	Silty sand	54	32	22
	22	104.7'/118.51'	SM	Silty sand	83	51	32
	27	121.7'/101.51'	SM	Silty sand	NP	NP	NP
	31	141.7'/81.51'	SM	Silty sand	46	28	18
	36	165.7'/57.51'	SP-SM	Poorly graded sand with silt	NP	NP	NP
	40	185.7'/37.51'		Silty sand			
	44	205.7'/17.51'		Silty sand			
	51	240.7'/-17.49'		Poorly graded sand with silt			
	59	280.7'/-57.49'		Silty sand			
	66	315.7'/-92.49'	GW	Well-graded gravel with sand	53	38	15
	73	350.7'/-127.49'	CL	Silt with sand	41	22	19
	83	400.7'/-177.49'		Silty sand			
	93	450.7'/-227.49'		Silty sand			
	103	496.7'/-273.49'		Silty sand			

BORING NO.	SAMPLE NO.	DEPTHIELEV.	USCS	MATERIAL DESCRIPTION	LL	PL	PI
B-1004							
	7	9.0'/240.78'		Silty sand			
	9	12.0'/237.78'		Silty sand			
	12	23.5'/226.28'		Silty sand			
	16	43.5'/206.28'	H	Silt with sand	58	24	34
	18	53.5'/196.28'		Sandy silt			
	21	68.5'/181.28'		Silty sand			
	24	83.5'/166.28'		Silty sand			
	32	123.5'/126.28'	GM	Silty gravel with sand	43	19	24
	UD-1 Upper	144.0'/105.78'	SM	Silty sand	59	38	21
	UD-1 Middle	144.0'/105.78'		Silty sand			
	UD-2	153.5'/96.28'	SM	Silty sand	43	27	16
	UD-3 Upper	163.5'/86.28'	GC	Clayey gravel with sand	31	22	9
	UD-3 Middle	163.5'/86.28'		Clayey gravel with sand			
	UD-4 Upper	177.0'/72.78'	SM	Silty sand with gravel	31	22	9
	UD-4 Middle	177.0'/72.78'		Silty sand with gravel			
	UD-5	188.5'/61.28'	SM	Silty sand with gravel	34	27	7
	UD-6	198.5'/51.28'	SC	Silty sand	31	21	10
B-1006							
	6	7.5'/248.45'		Poorly graded sand with silt			
	14	33.5'/222.45'		Silty sand			
	19	58.5'/197.45'	CH	Silt with sand	97	30	67
	21	68.5'/187.45'		Silty sand			
	25	88.5'/167.45'		Silty sand			
	29	108.5'/147.45'		Silty sand with gravel			
	32	123.5'/132.45'	MH	Silt with sand	99	43	56
B-1010							
	6	7.5'/211.1'		Silty sand			
	14	33.5'/185.1'		Silty sand			
	19	58.5'/160.1'		Silty sand			
	22	73.5'/145.1'		Silty sand			
	27	98.5'/120.1'	CH	Sandy silt	94	36	58

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April 21,2006

Mr. Tom McCallum
Southern Nuclear Operating Company, Inc.
40 Inverness Center Parkway
Post Office Box 1295
Birmingham, Alabama 35201
Phone: (205) 992-6697
e-mail: tomccall@southernco.com

Subject: Corrected Grain Size Reports and Boring Logs
Data Report of Geotechnical Investigation and Laboratory Testing
Southern Advanced Light Water Reactor, Early Site Permit
Vogtle Electric Generating Plant
Burke County, Georgia
MACTEC Project Number 6141-05-0227

Dear Mr. McCallum:

In the course of our internal quality assurance auditing, we have discovered a computer input error for grain size testing at the above project. In general, the results are impacted by only a few percentage points and, while all results are slightly impacted, USCS classifications changed in only 4 cases. Corrected laboratory reports and boring logs (fines percentage was included on the boring logs as well as 4 changes in classification) are attached. Please substitute these into Appendices A and E of our report.

Should you have any questions, please do not hesitate to contact us at 404-873-4761.

Sincerely,

MACTEC Engineering and Consulting, Inc.

Pieter J. DePree, P.E.
Principal Engineer

Wm. Allen Lancaster
Civil Engineer

Distribution: Addressee (4)
Mr. Scott C. Lindvall, William Lettis & Associates, Inc.
Mr. John Prebula, BECHTEL

Enclosed: Table 3: Laboratory Test Summary
Boring Logs (10 pages)
Grain Size Curves (45 pages)
Atterberg Limits (2 pages)

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APPENDIX A

Table of As Built Surveyed Boring, Well, and Probe Locations

Key to Symbols

Boring Logs (14)

Table 2: Field Boring and CPT Summary

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P U N T VOGTLE - ALWR ESP - BORING/CPT LOCATIONS

From Figure 1 - State Grid 1,143,000=plant grid 80+00 (North)
From Figure 1 - State Grid 624,000=plant grid 100+00 (East)

		Plant Grid		State Grid		Termination	Water
Description	**Elevation**	**Northing**	**Easting**	**Northing**	**Easting**	**Depth**	**Elevation**
	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
B 1001	221.64	7,661.92	6,220.42	1,142,661.92	620,220.42	123.9	NR
B 1002	221.98	7,998.52	6,985.47	1,142,998.52	620,985.47	260.0	166.0
B 1002A	222.27	7,985.62	6,986.07	1,142,985.62	620,986.07	105.0	176.0
B 1003	223.21	7,974.36	7,889.85	1,142,974.36	621,889.85	1,338.0	NR
B 1003 Top of Casing	224.85	7,974.99	7,889.45	1,142,974.99	621,889.45	1,338.0	NR
B 1004	249.78	7,985.41	6,131.44	1,142,985.41	620,131.44	304.0	117.0
B 1005	253.14	8,991.57	6,155.35	1,143,991.57	620,155.35	164.3	NR
B 1006	255.95	8,810.26	7,342.90	1,143,810.26	621,342.90	124.1	242.0
B 1007	221.02	7,662.29	7,120.13	1,142,662.29	621,120.13	125.0	161.0
B 1008	219.51	7,670.93	7,996.15	1,142,670.93	621,996.15	124.5	168.0
B 1009	220.39	6,000.54	6,361.26	1,141,000.54	620,361.26	98.9	NR
B 1010	218.60	6,000.12	7,279.68	1,141,000.12	621,279.68	104.5	203.0
B 1011	219.38	8,741.13	8,378.01	1,143,741.13	622,378.01	100.0	NR
B 1013	218.62	5,976.08	8,272.50	1,140,976.08	622,272.50	105.0	205.0
C 1001A	248.57	8,028.13	6,355.97	1,143,028.13	620,355.97	116.7	NR
C 1002	222.13	7,667.65	6,574.64	1,142,667.65	620,574.64	78.5	NR
C 1003	219.80	7,669.31	7,477.88	1,142,669.31	621,477.88	80.0	175.2
C 1004	220.82	7,646.13	8,361.85	1,142,646.13	622,361.85	77.0	NR
C 1005	223.81	7,995.27	8,174.61	1,142,995.27	622,174.61	82.0	189.8
C 1005A	223.66	7,989.75	8,179.26	1,142,989.75	622,179.26	90.0	NR
C 1006	222.80	8,001.46	7,261.58	1,143,001.46	621,261.58	74.0	NR
C 1007	222.81	8,270.62	8,055.05	1,143,270.62	622,055.05	81.7	NR
C 1008	221.30	8,268.48	6,930.90	1,143,268.48	620,930.90	76.0	NR
C 1009A	218.93	5,979.63	6,798.49	1,140,979.63	620,798.49	99.0	NR
C 1010	219.06	6,008.35	7,754.15	1,141,008.35	621,754.15	96.0	NR
OW 1001A Conc Pad/Grade	226.38	7,893.50	6,218.43	1,142,893.50	620,218.43	45.0	NR
OW 1001A Top of Casing	228.85	7,893.50	6,218.43	1,142,893.50	620,218.43	45.0	NR

NR = None Recorded

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)	GW	Well graded gravels, gravel - sand mixtures, little or no fines.
			GP	Poorly graded gravels or grave - sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)	GM	Silty gravels, gravel - sand - silt mixtures.
			GC	Clayey gravels, gravel - sand - clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 Sieve Size)	CLEAN SANDS (Little or no fines)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)	SM	Silty sands, sand - silt mixtures
			SC	Clayey sands, sand - clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts and with slight plasticity.
			CL	Inorganic lays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils.

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

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

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

U.S. STANDARD SIEVE SIZE

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

Undisturbed Sample		Auger Cuttings	
Split Spoon Sample		Bulk Sample	
Rock Core		Crandall Sampler	
Dilatometer		Pressure Meter	
Packer		No Recovery	
Water Table at time of drilling		Water Table after 24 hours	

Correlation of Penetration Resistance with Relative Density and Consistency

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

KEY TO SYMBOLS AND DESCRIPTIONS

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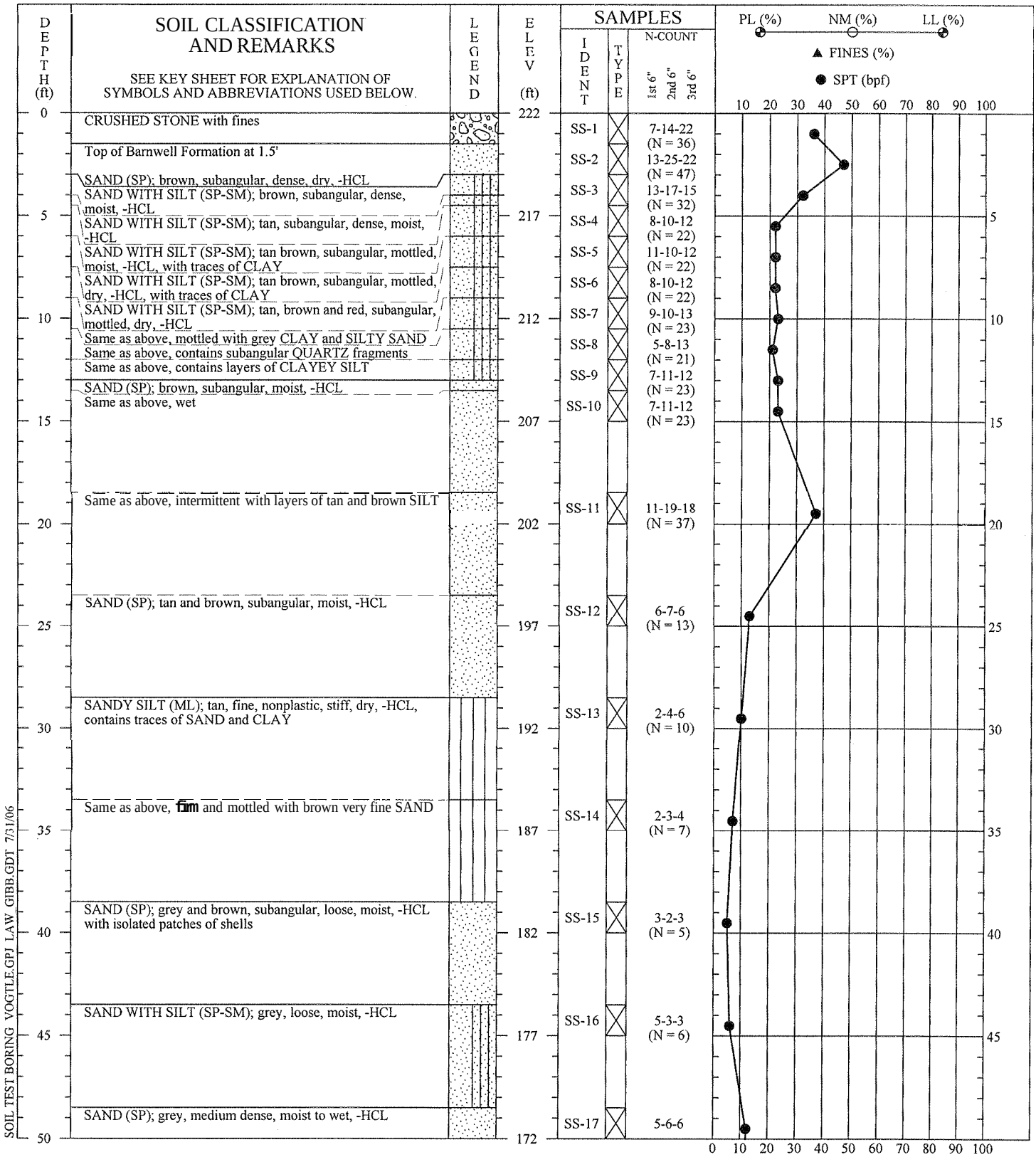

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7661.92, E 6220.42
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1001
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: August 30,2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

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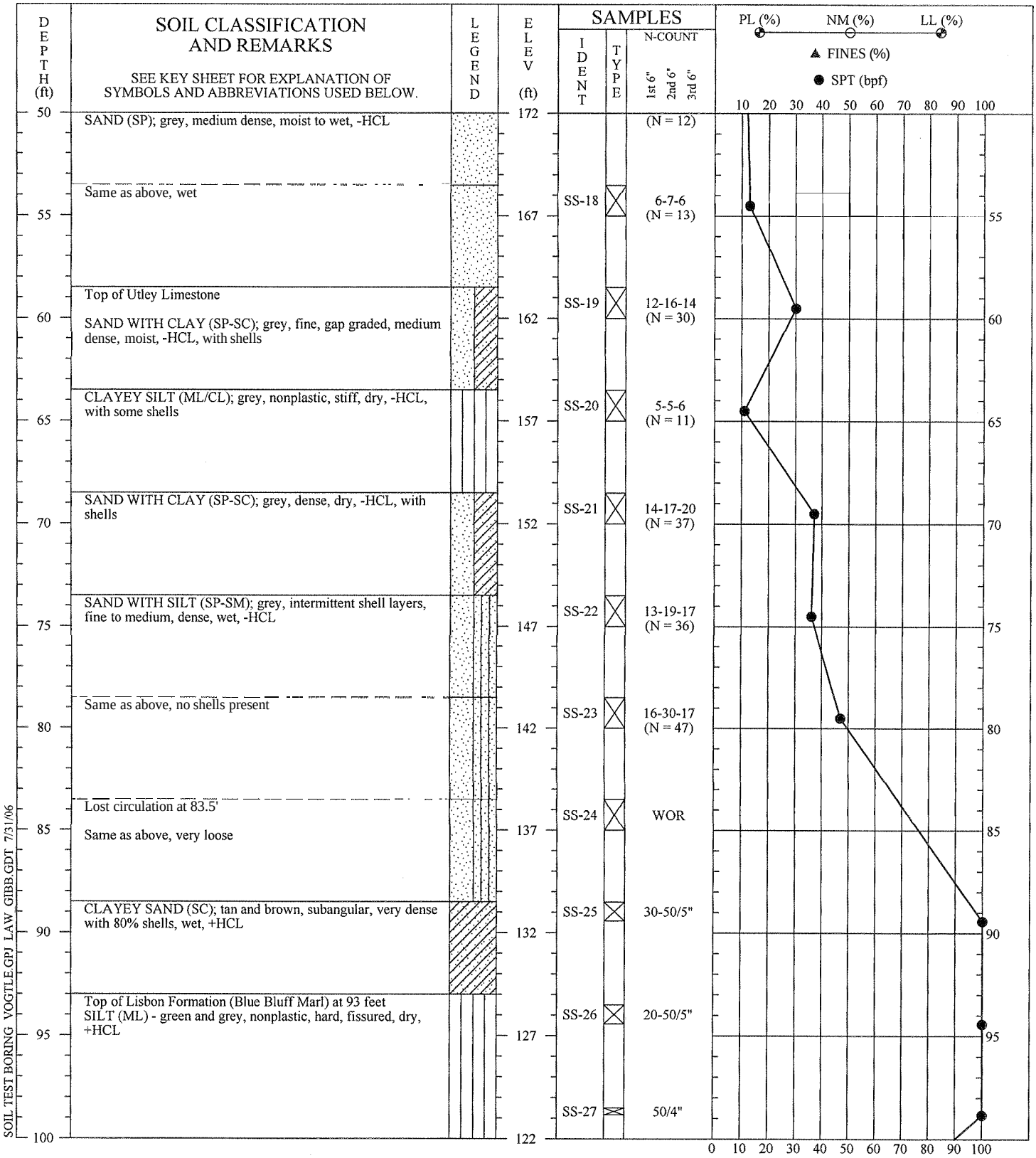


SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

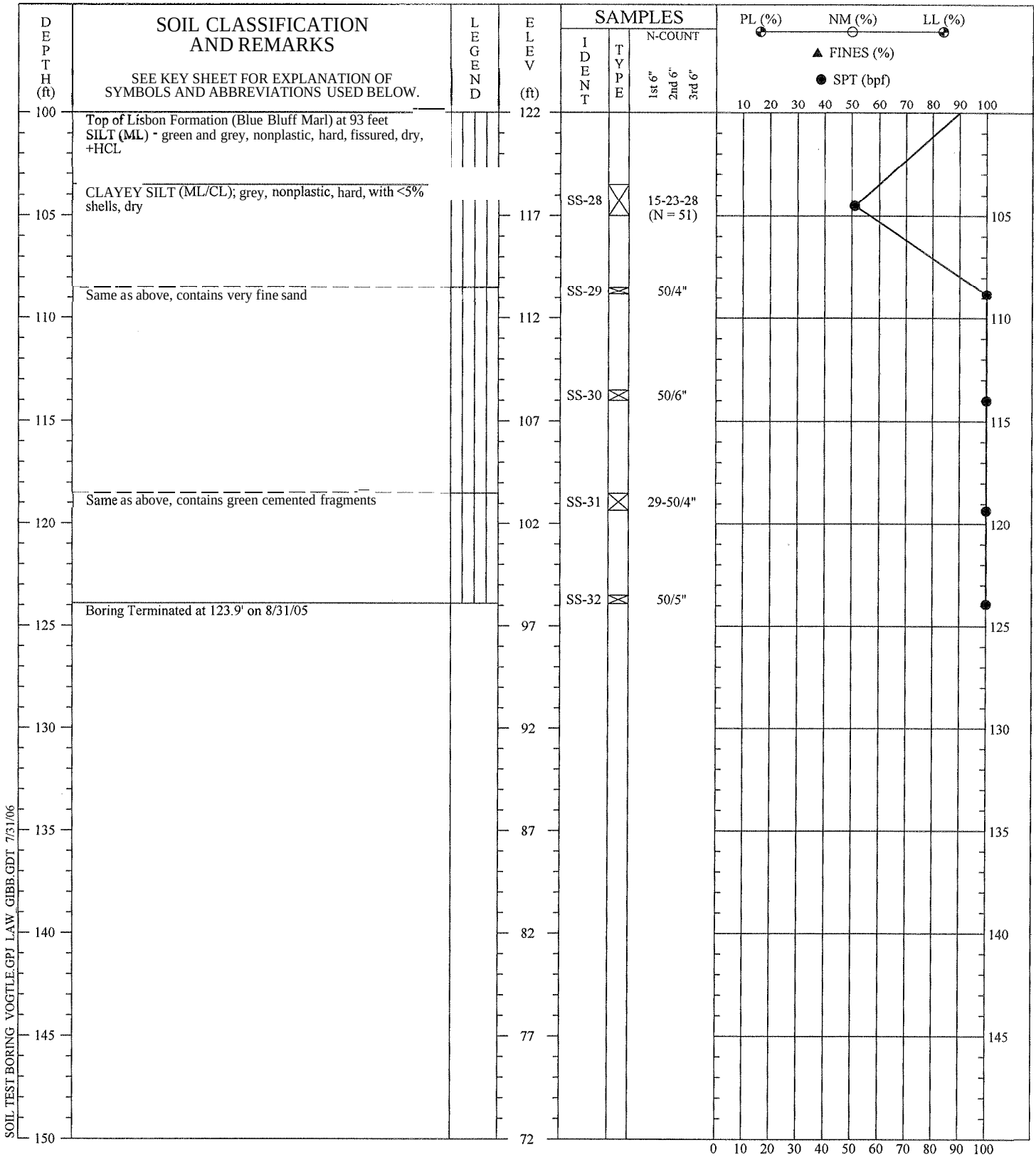
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7661.92, E 6220.42 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1001
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: August 30, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7661.92, E 6220.42
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1001
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, CA
DRILLED: August 30, 2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 3**

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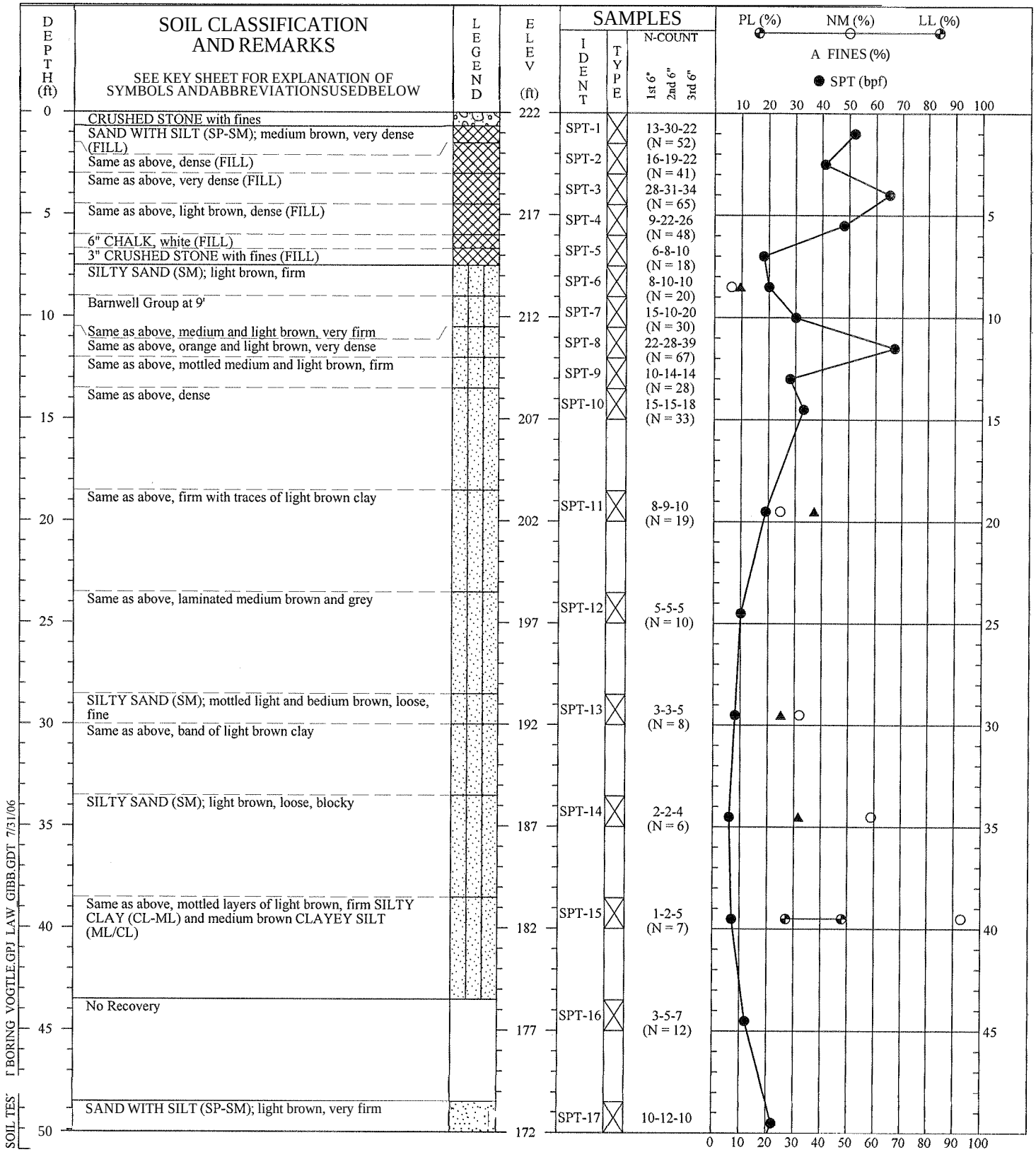

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Au Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9115/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 6**

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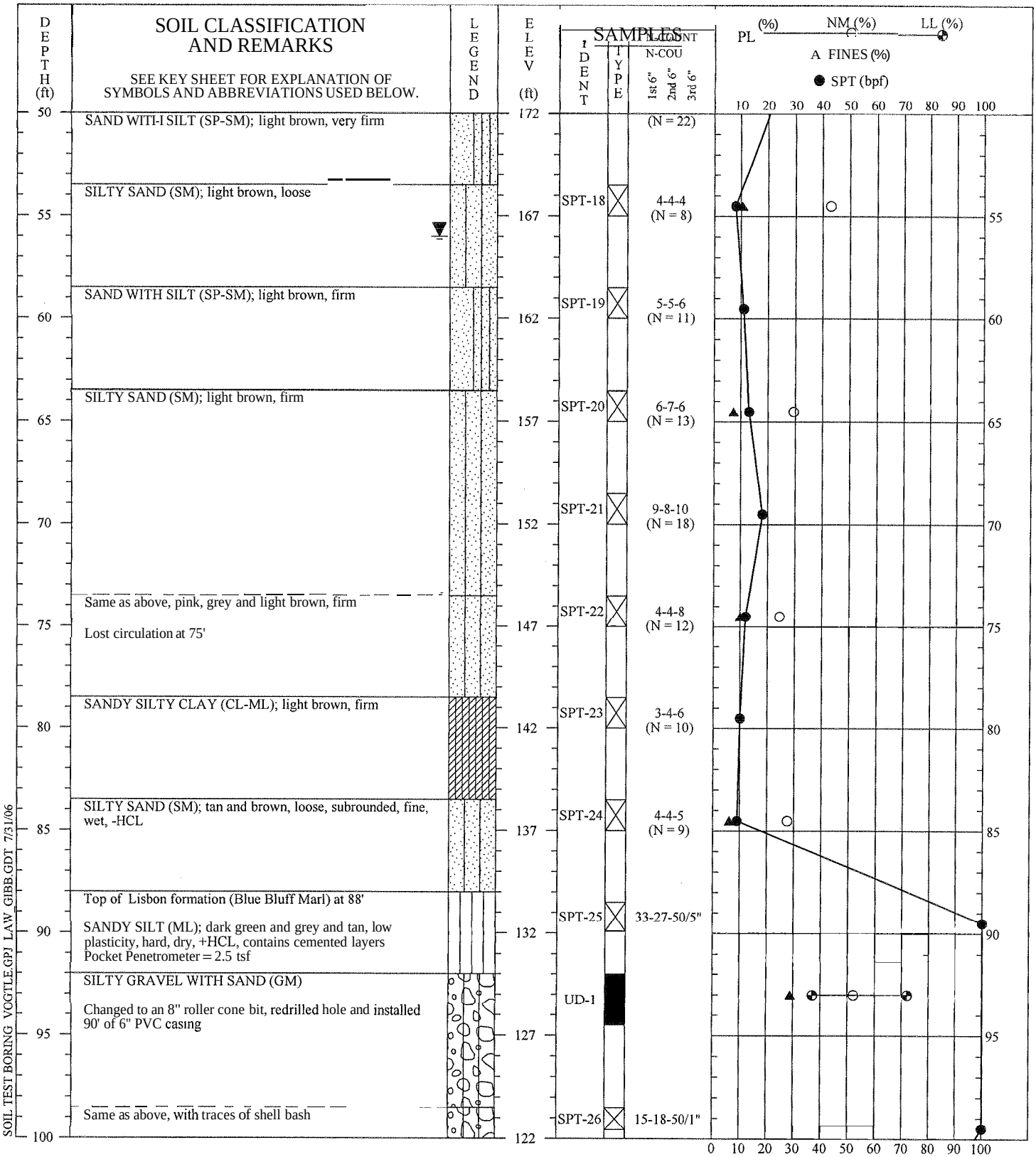

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER	Robert Banks (MACTEC)
EQUIPMENT	CME-55 (Auto-Hammer)
METHOD	Rotary Wash with Mud
HOLE DIA	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15105

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

SOIL TEST BORING RECORD

BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 6**

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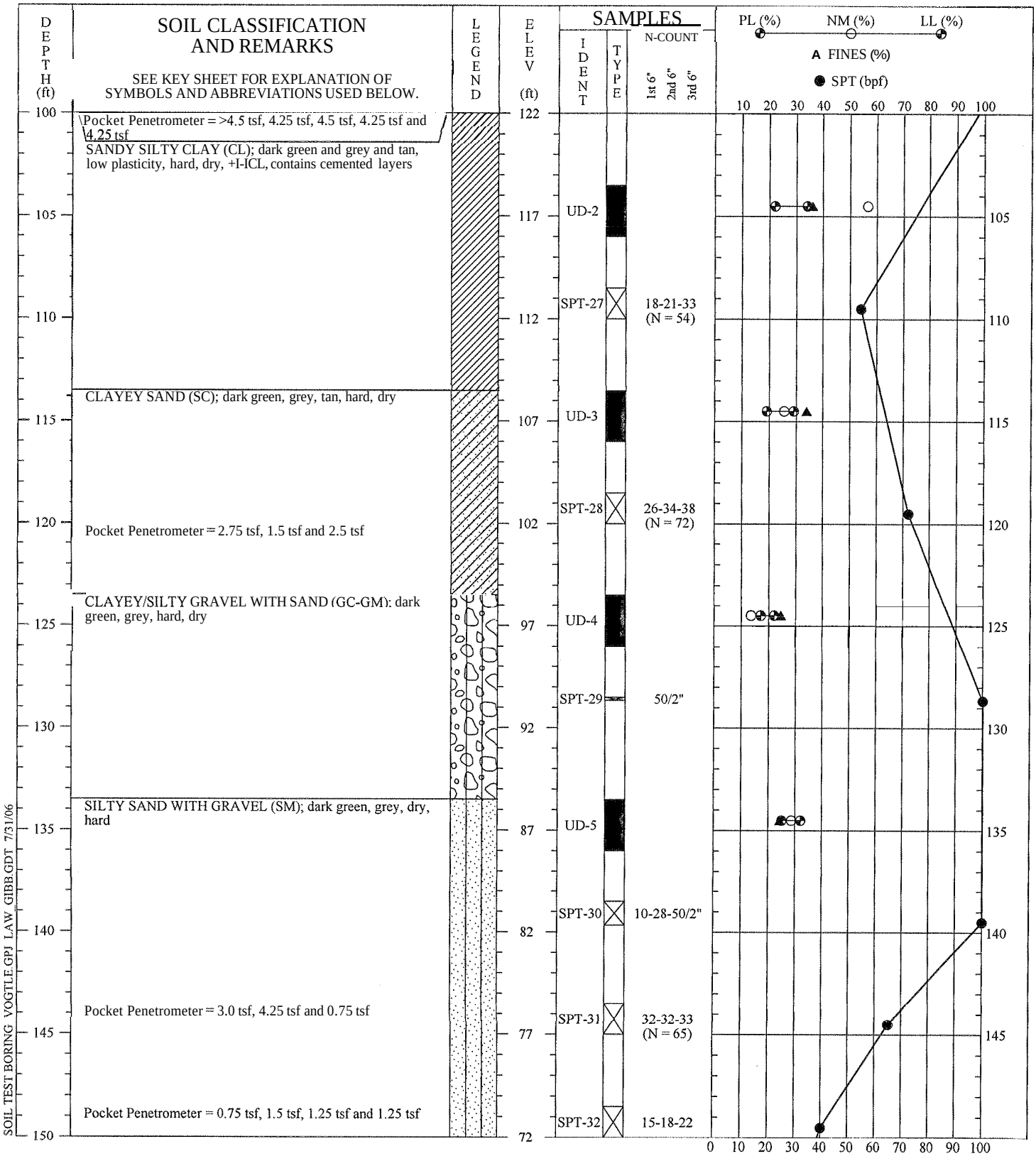

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9115/05

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

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BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 6**

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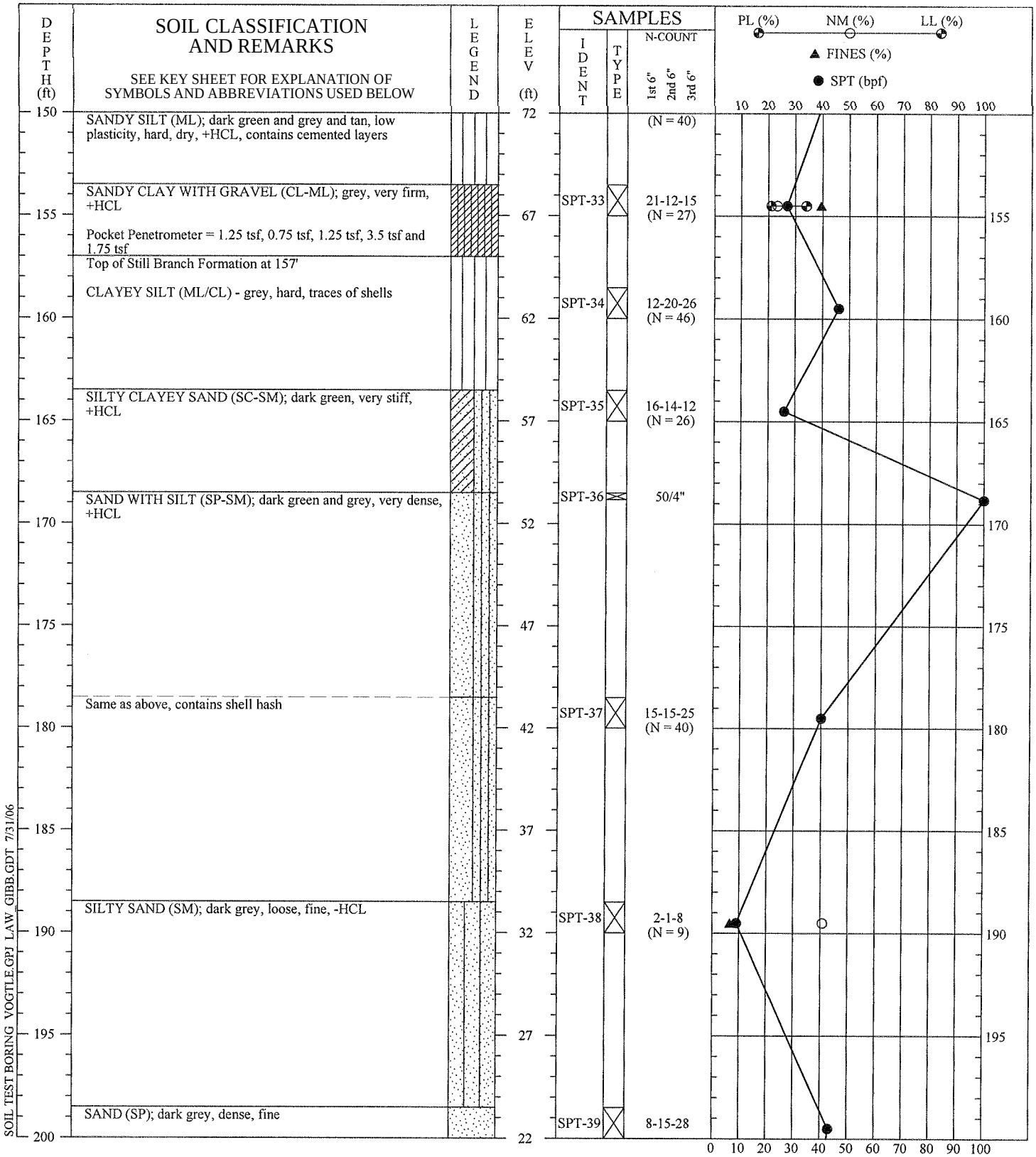

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert.Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (FICL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 4 OF 6**

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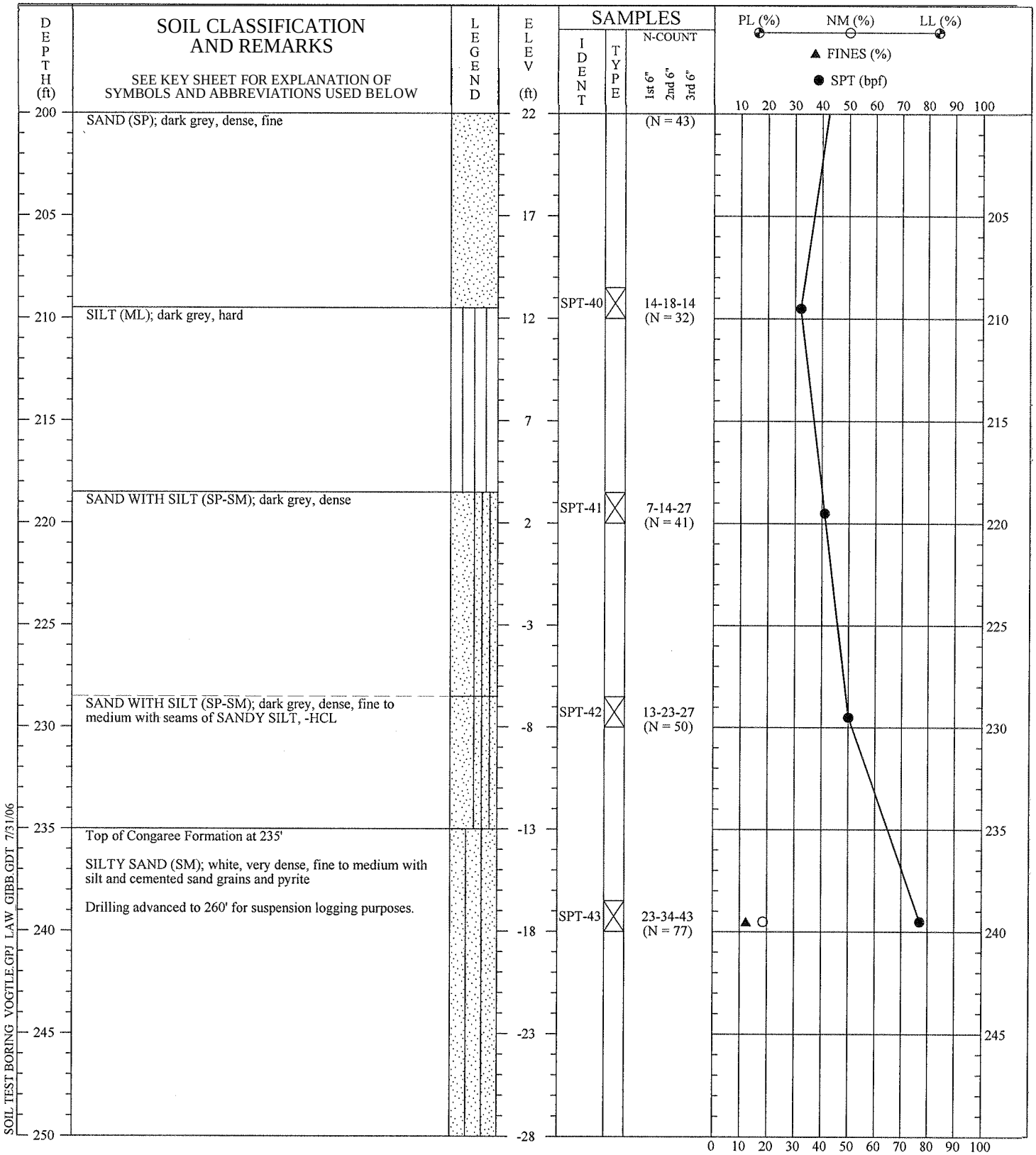

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9115/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227

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DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
250	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.		-28				10 20 30 40 50 60 70 80 90 100
	Top of Congaree Formation at 235'						
	SILTY SAND (SM); white, very dense, fine to medium with silt and cemented sand grains and pyrite						
	Drilling advanced to 260' for suspension logging purposes.						
255			-33				255
260	Boring Terminated at 260' on 9/21/05		-38				260
265			-43				265
270			-48				270
275			-53				275
280			-58				280
285			-63				285
290			-68				290
295			-73				295
300			-78				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7998.52, E 6985.47 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9115/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1002
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 6 OF 6**

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
0	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW. This boring was created for P-S wave suspension logging. No material sampling was performed.		222				10 20 30 40 50 60 70 80 90 100
5			217				5
10			212				10
15			207				15
20			202				20
25			197				25
30			192				30
35			187				35
40			182				40
45	▼ P-S Suspension logging was attempted from 49 to 69 feet. P-S Suspension logging was terminated on 10/5/05 after the tool became locked in the hole due to the presence of thick cuttings.		177				45
50			172				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7985.62, E 6986.07 Water depth represents depth of water and mud as measured on 10/5/05. Hole caved to 56 feet 10/5/05.

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

SOIL TEST BORING RECORD

BORING NO.: B-1002A
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 23, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
50	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.		172				10 20 30 40 50 60 70 80 90 100
55			167				55
60			162				60
65			157				65
70	Boring terminated at 70 feet on 9/23/05 to perform Geophysical logging.		152				70
75			147				75
80			142				80
85			137				85
90			132				90
95			127				95
100			122				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7985.62, E 6986.07 Water depth represents depth of water and mud as measured on 1015105. Hole caved to 56 feet 1015105.

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

SOIL TEST BORING RECORD

BORING NO.: B-1002A
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 23, 2005
PROJECT NO.: 6141-05-0227

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
100	Boring terminated at 70 feet on 9/23/05 to perform Geophysical logging.		122				
105	Boring terminated at 105 feet on 9/26/05 Boring cleaned out on 10/5/05 (using a CME-75 Auto-Hammer) and flushed with 300 gallons of drilling mud **with** no return to the surface. Mud level depth measured at 49 feet after removal of rods.		117				
110			112				
115			107				
120			102				
125			97				
130			92				
135			87				
140			82				
145			77				
150			72				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.

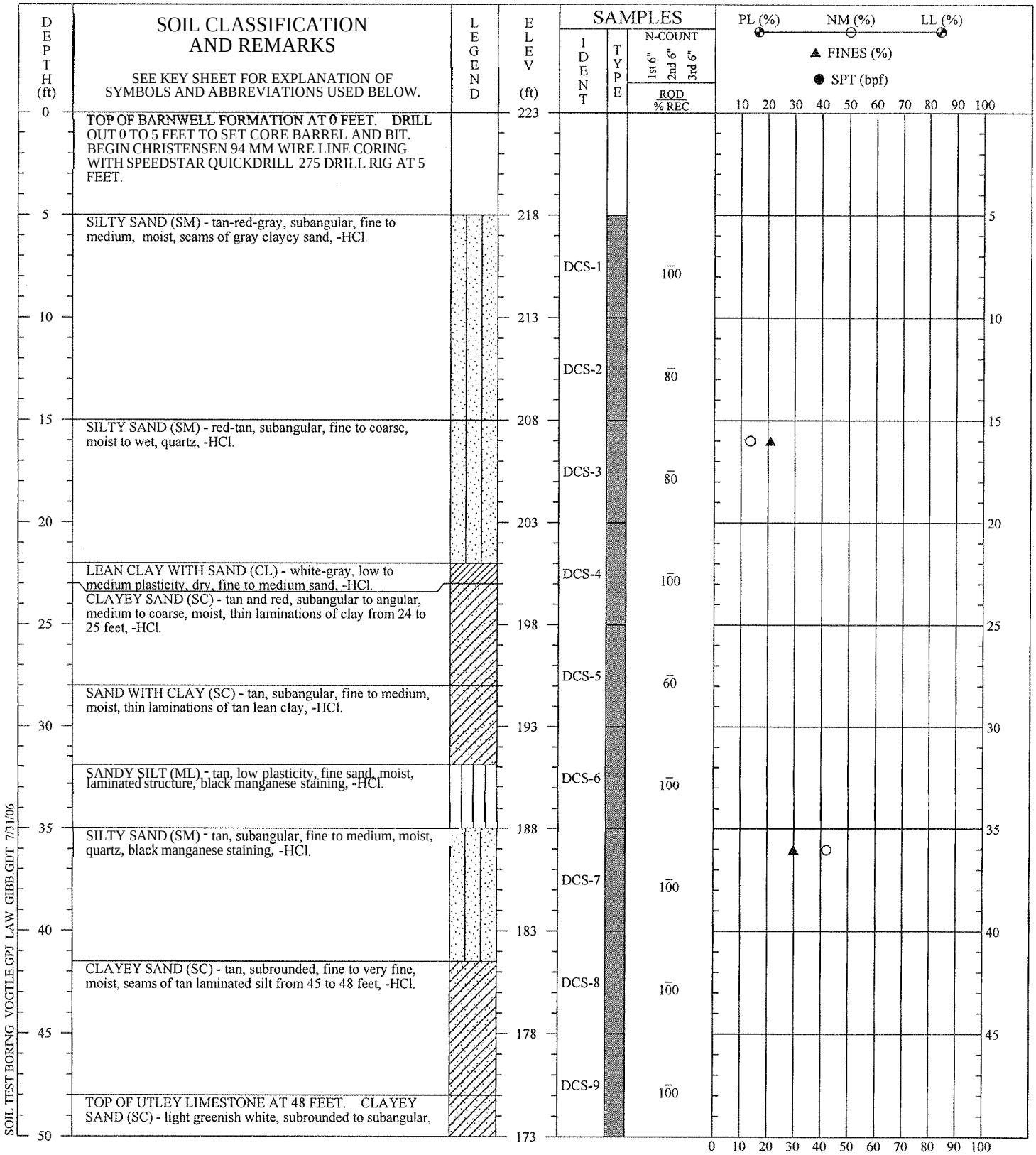
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7985.62, E 6986.07 Water depth represents depth of water and mud as measured on 10/5/05. Hole caved to 56 feet 10/5/05.

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

SOIL TEST BORING RECORD

BORING NO.: B-1002A
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 23, 2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 3**

MACTEC



DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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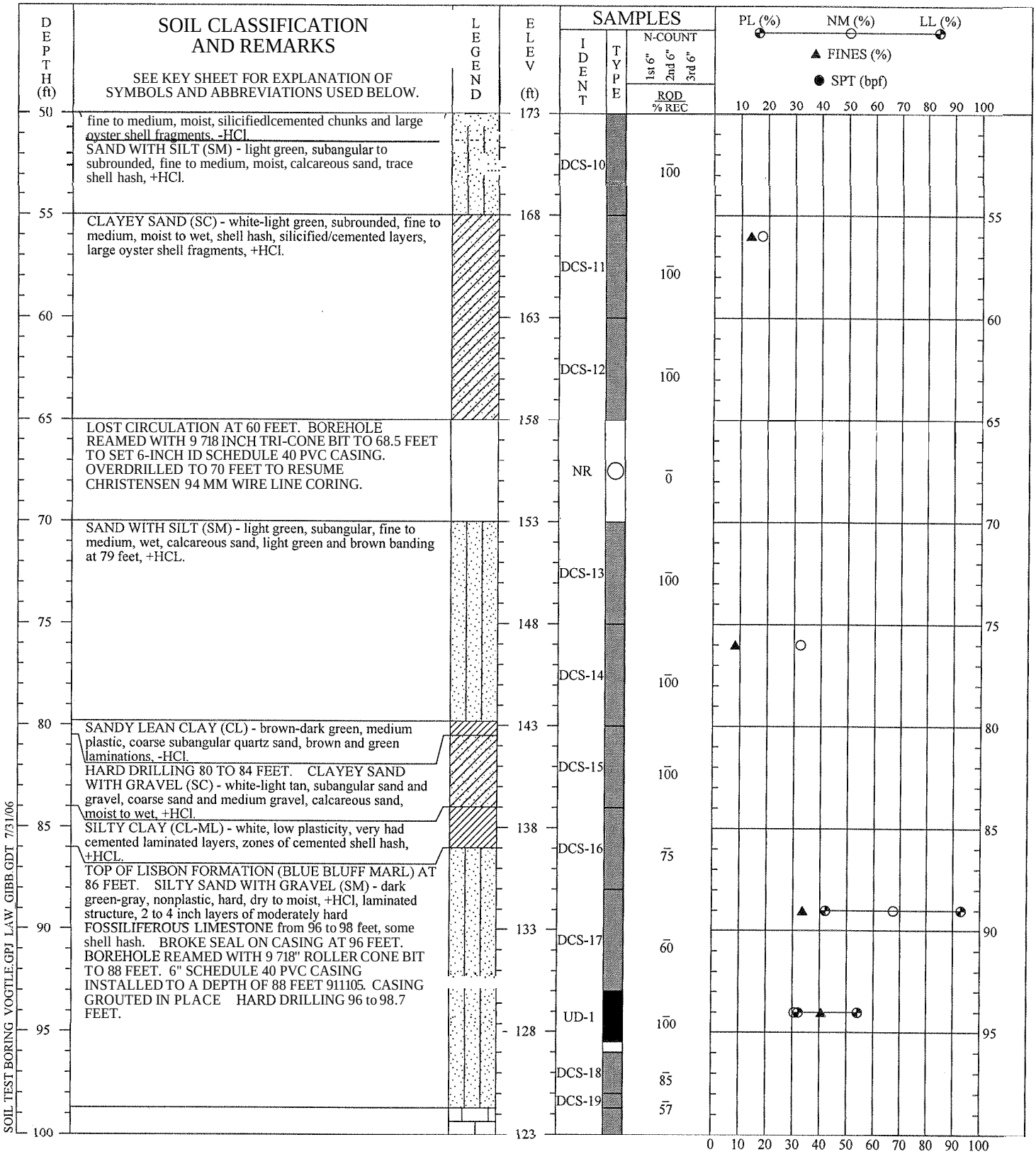
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 1 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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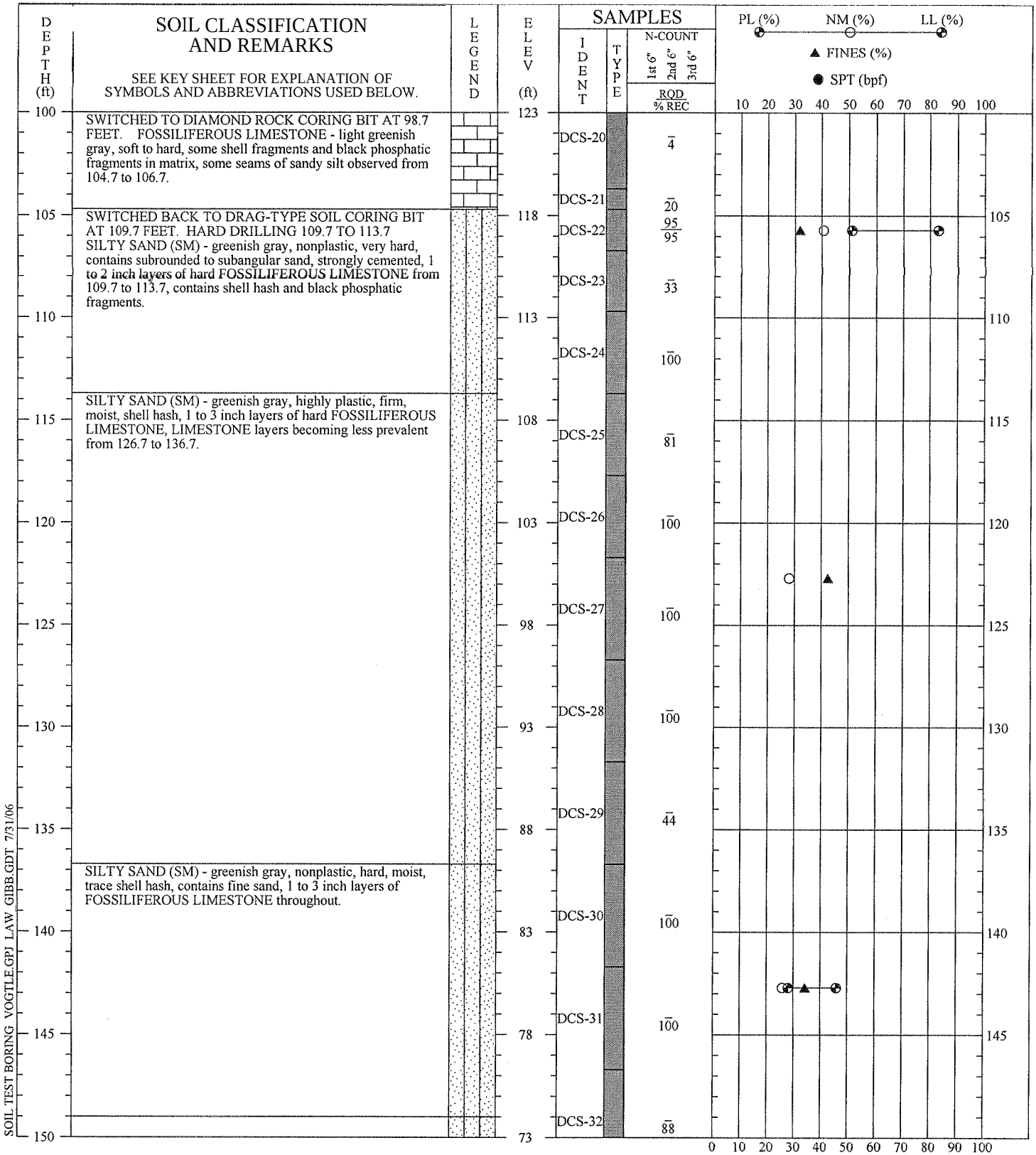
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LQCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 27**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E ***7889.85***
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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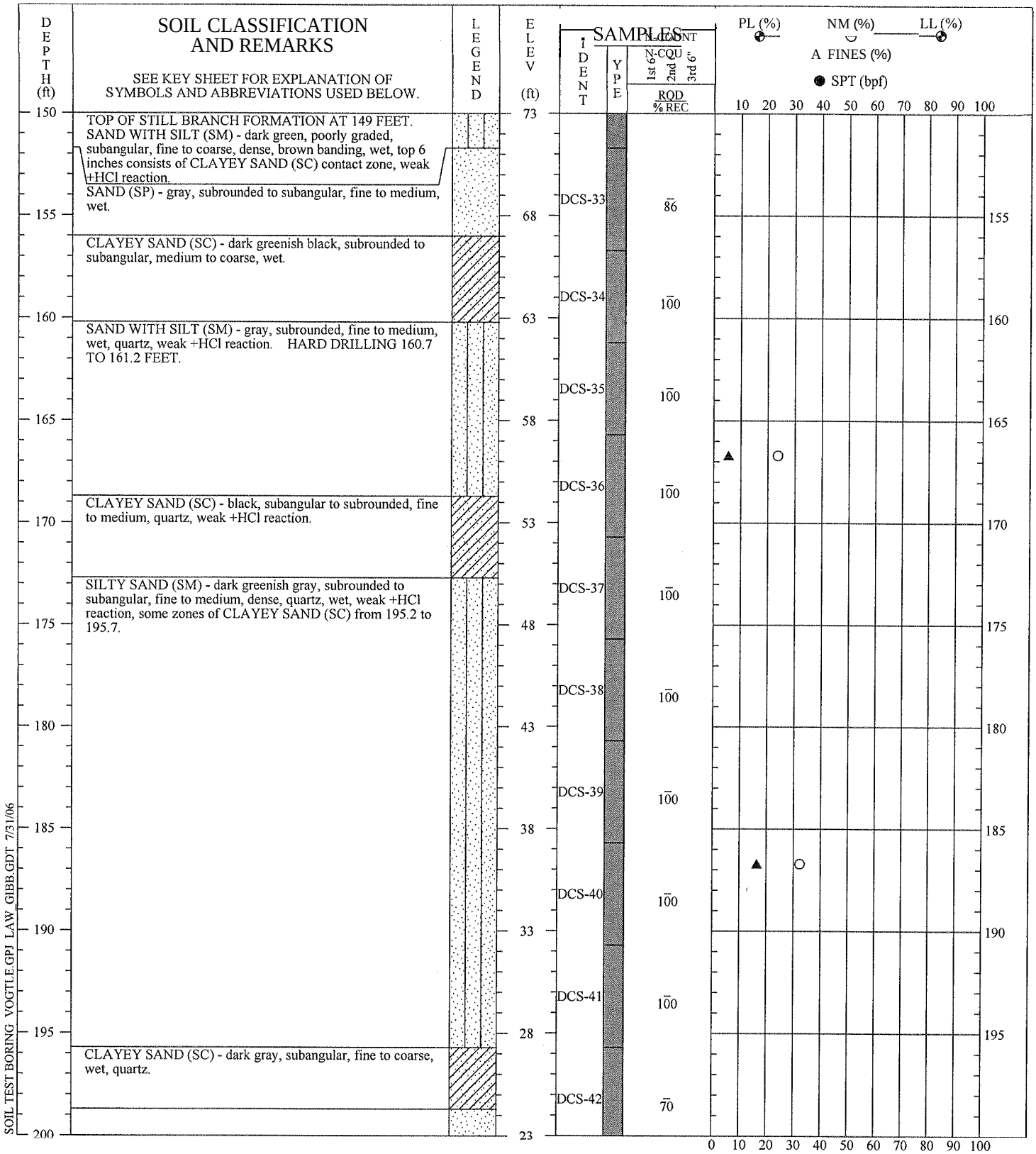
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - **ESP**
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 3 **OF** *27*

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 4974.36, E 7889.85 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, CA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

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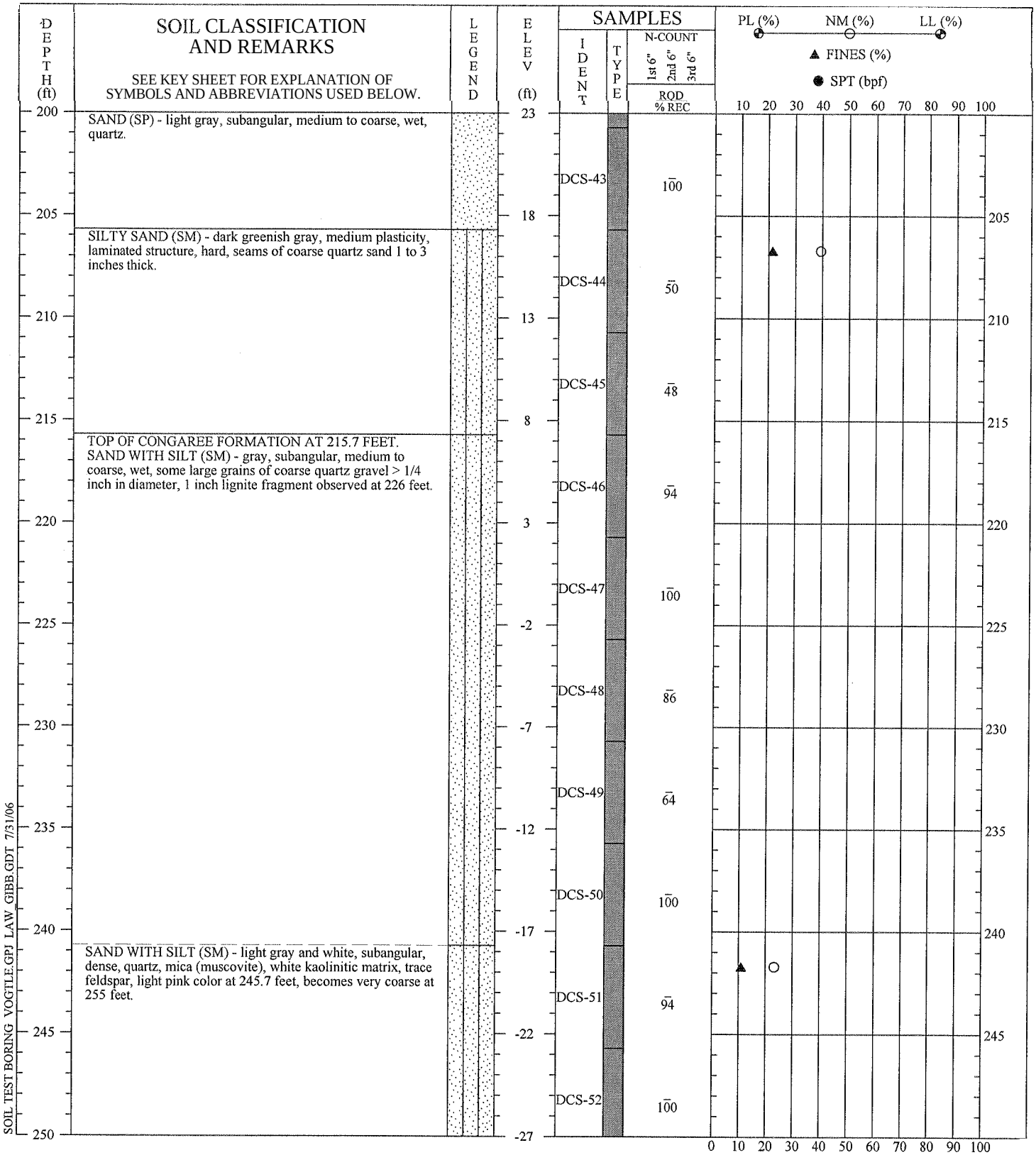

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227

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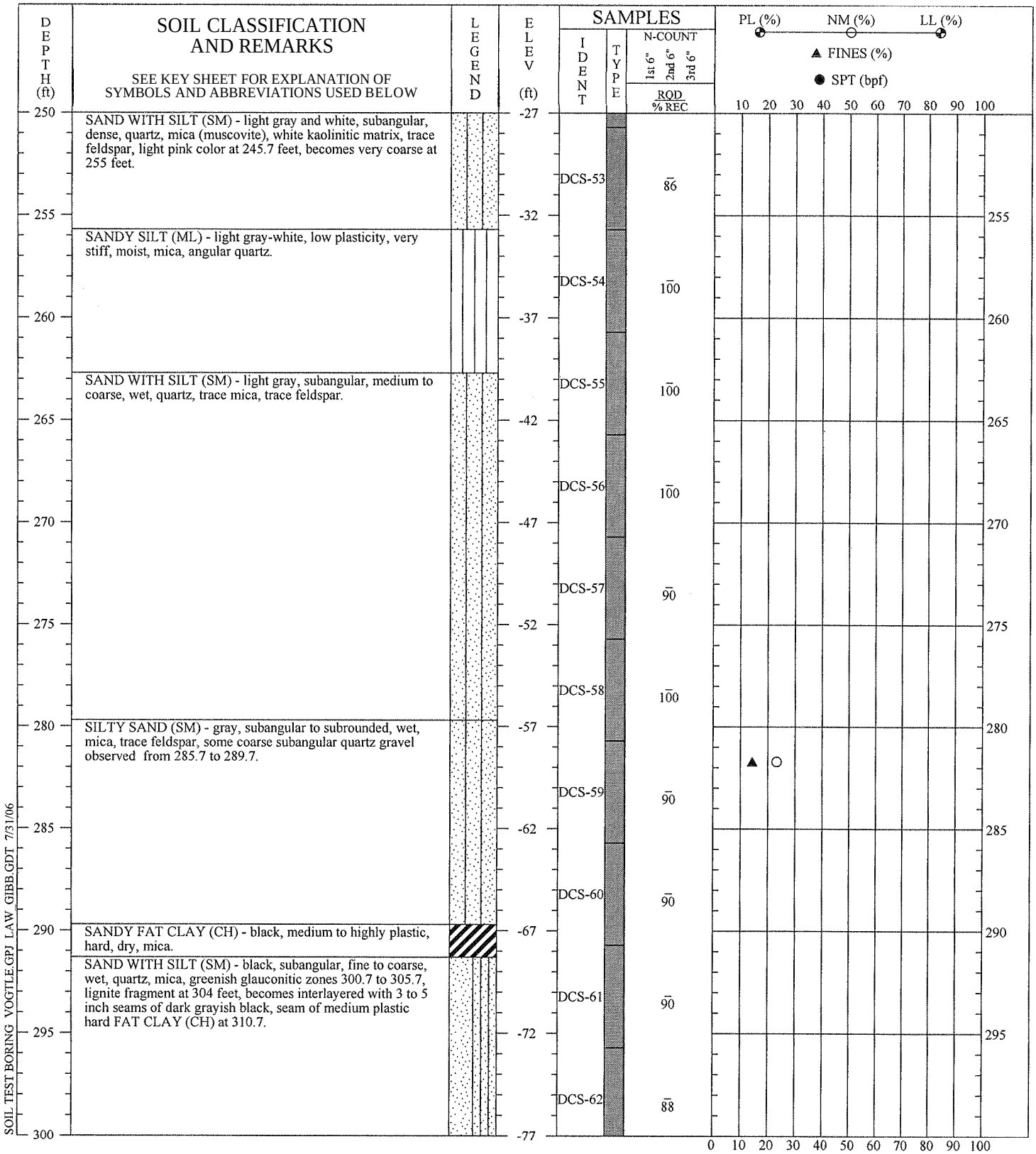


SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

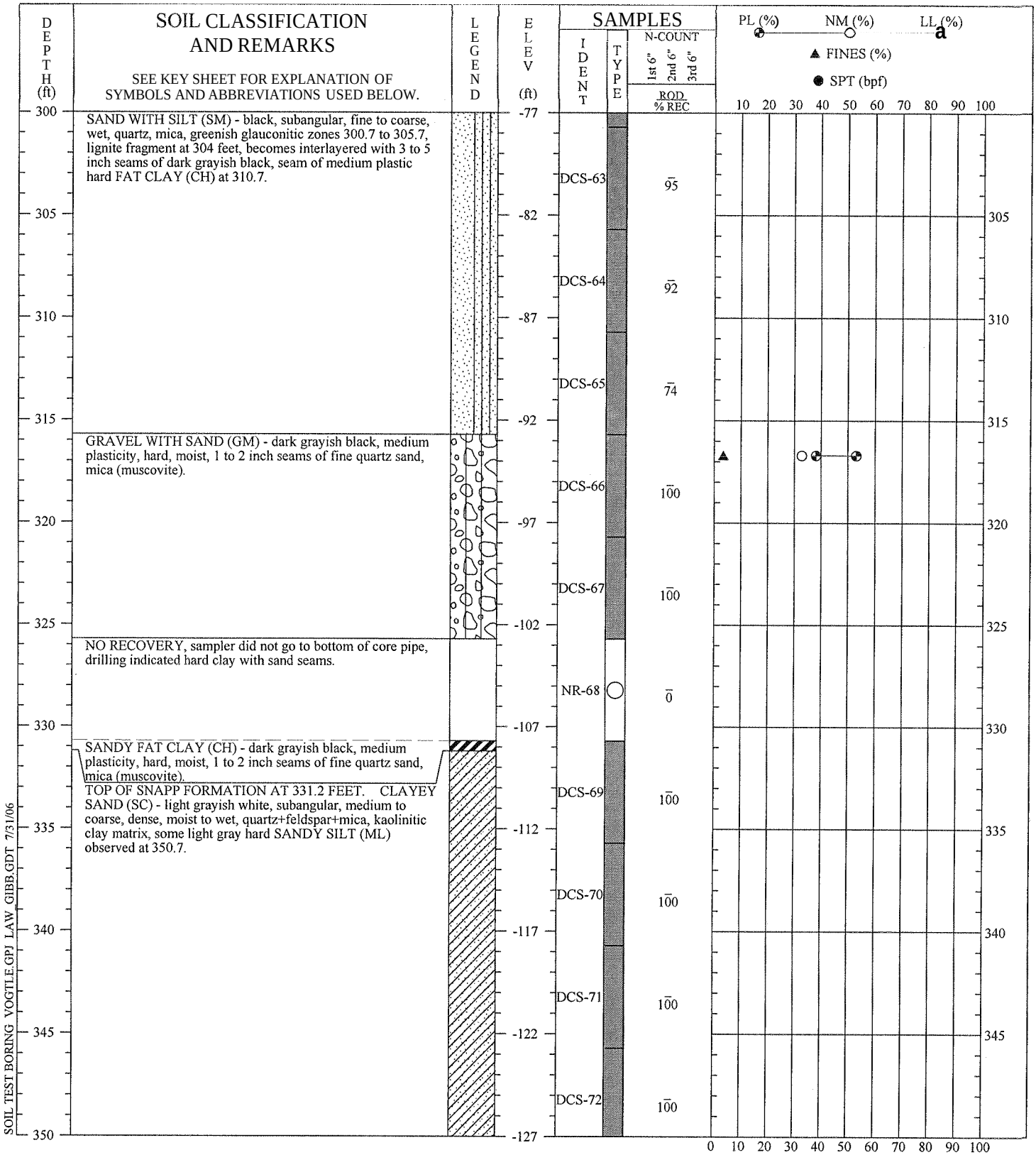
DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 6 OF 27**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire I i
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (I-ICL), -HCL denotes no visible reaction with HCL

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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227

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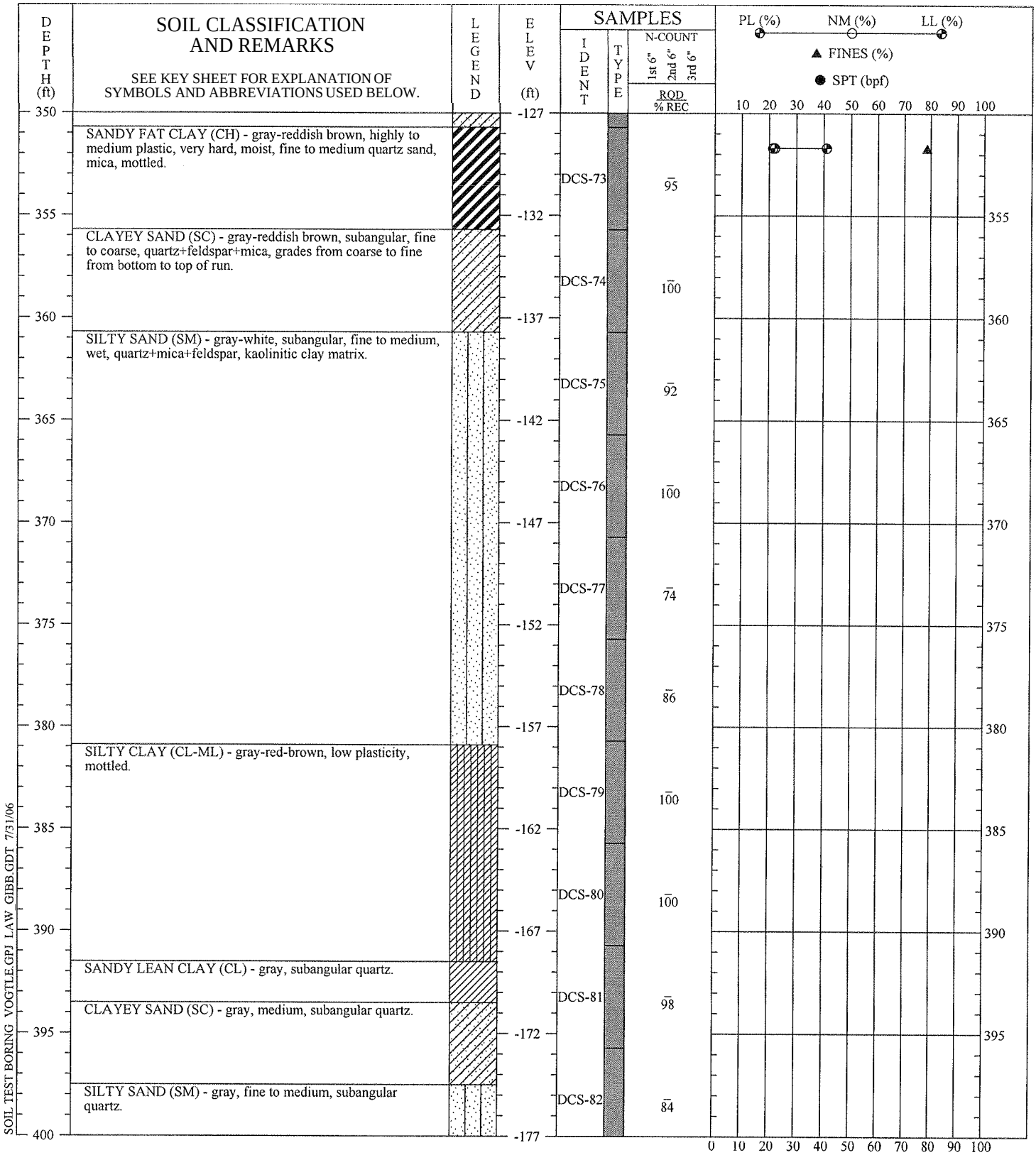

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD	Christensen Wire Line
HOLE DIA.:	6 inches
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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

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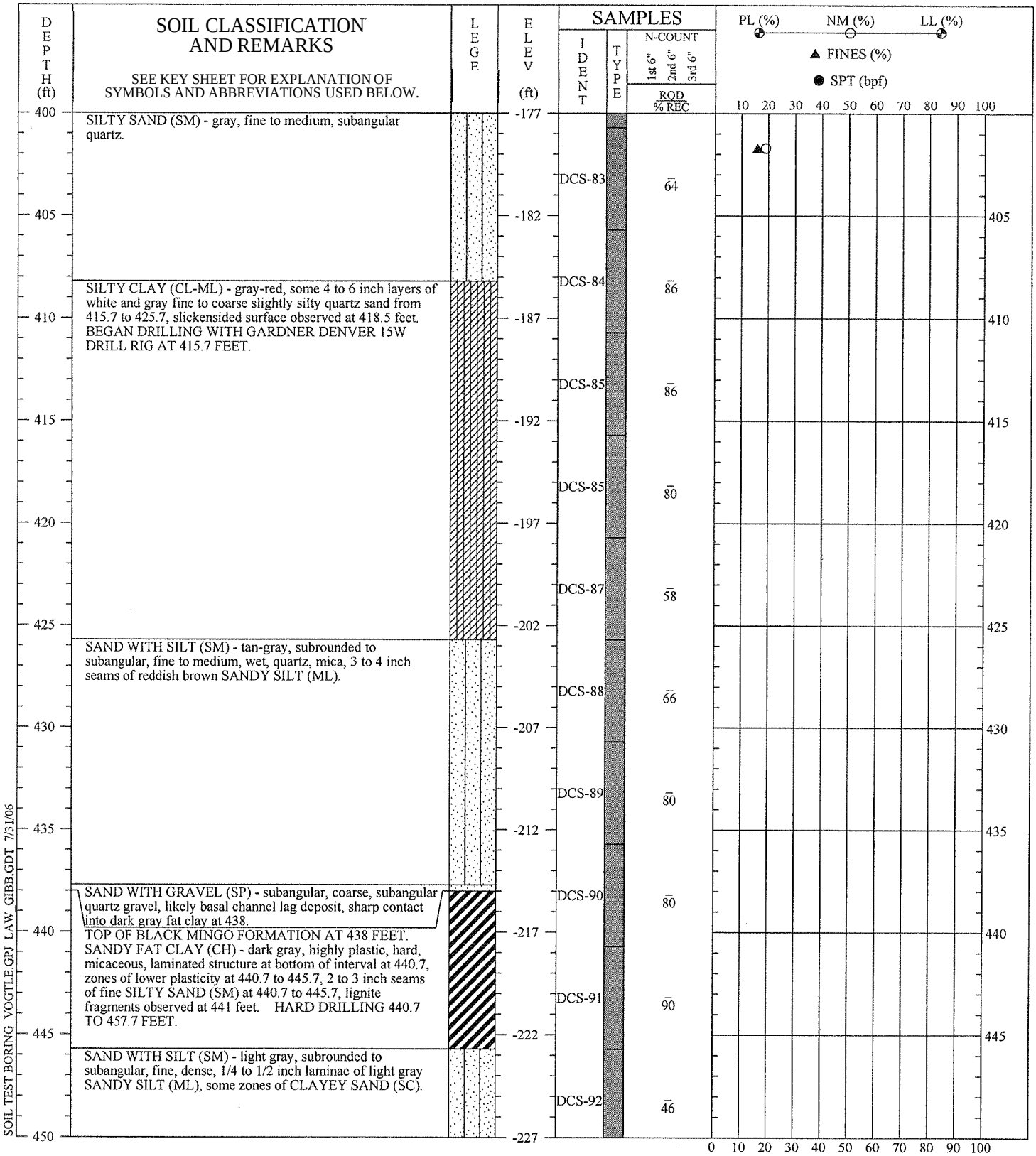

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 9 OF 27**

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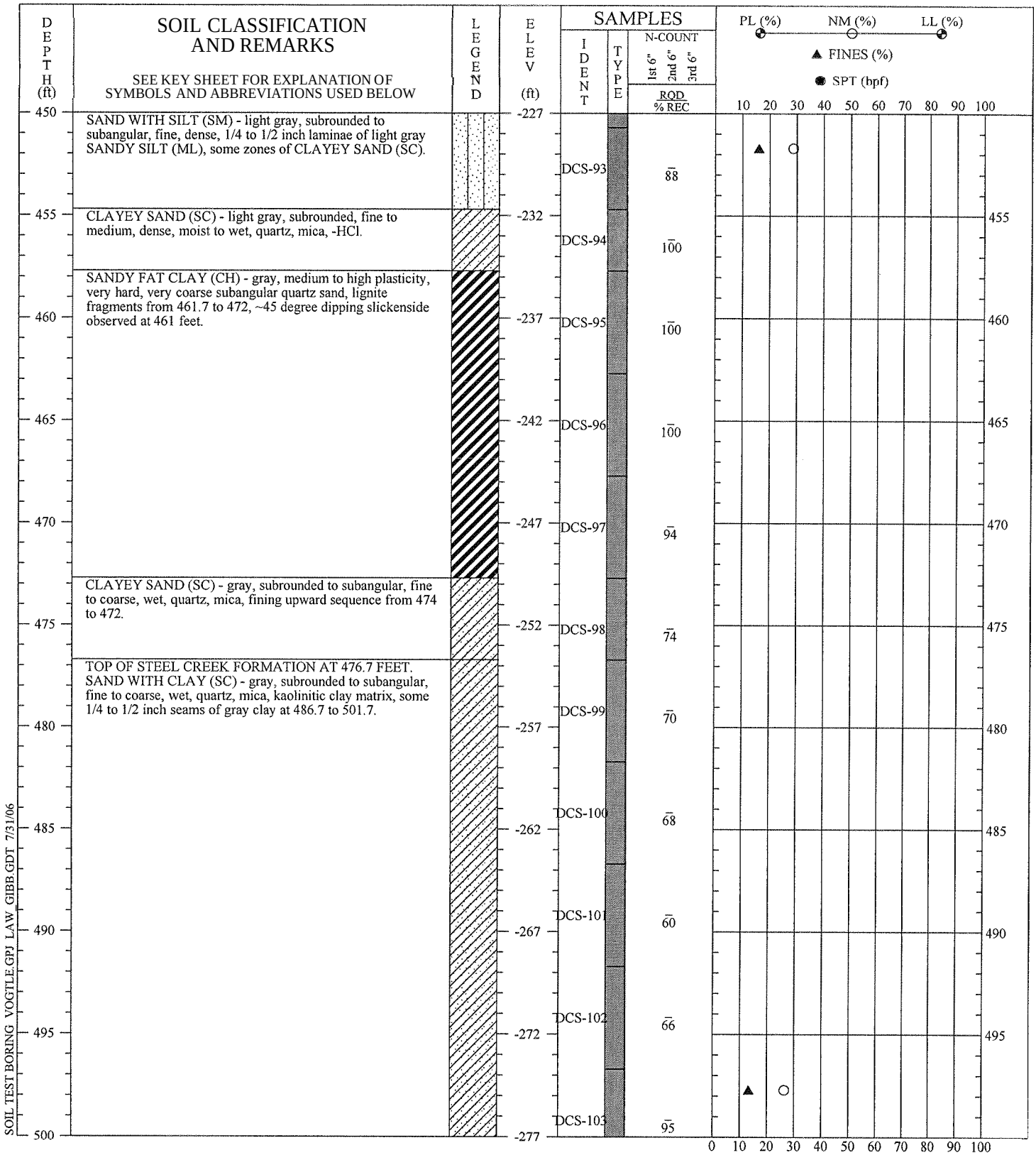

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
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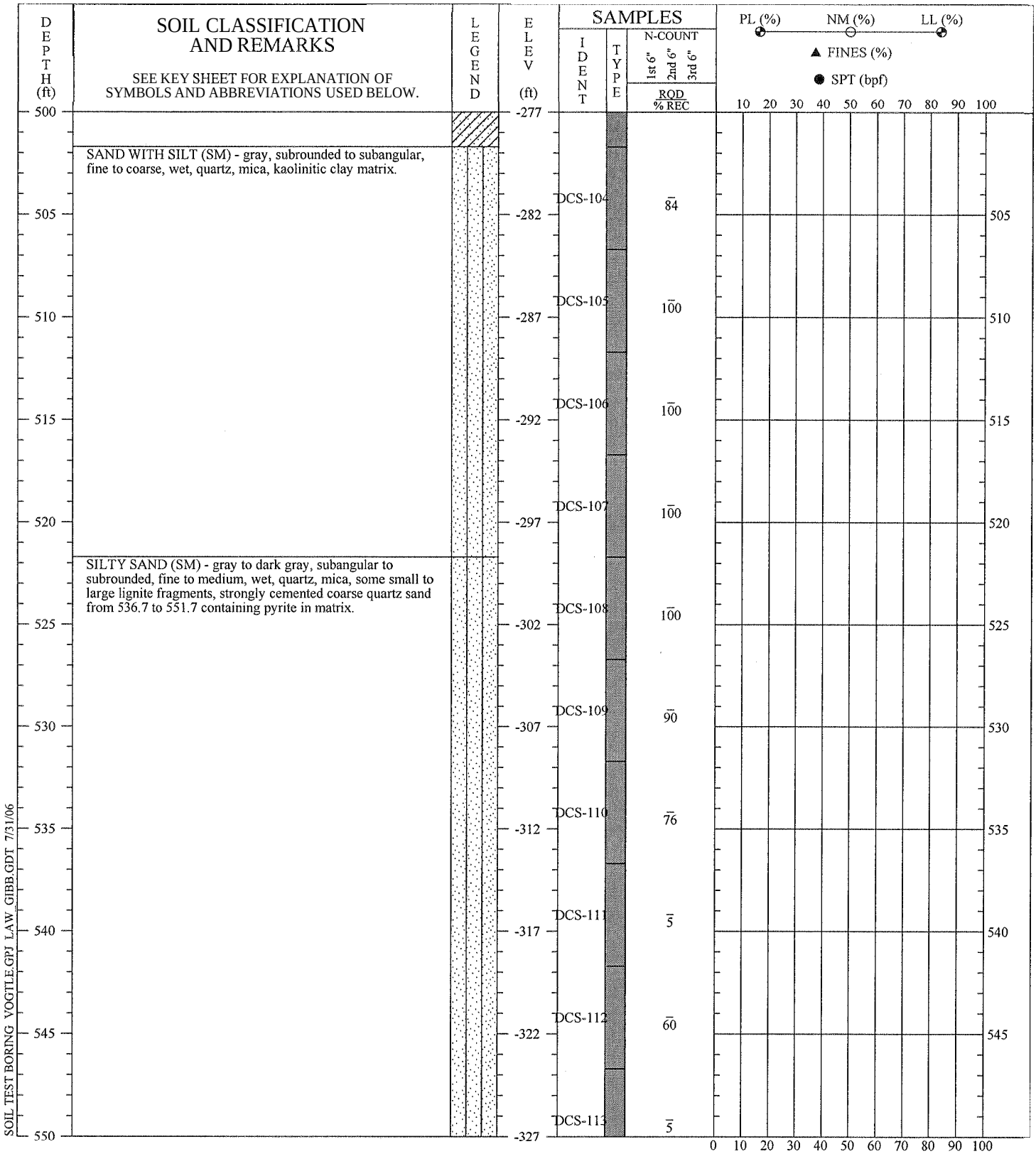
MACTEC



DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
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SOIL TEST BORING RECORD

BORING NO,: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE** 11 **OF** 27

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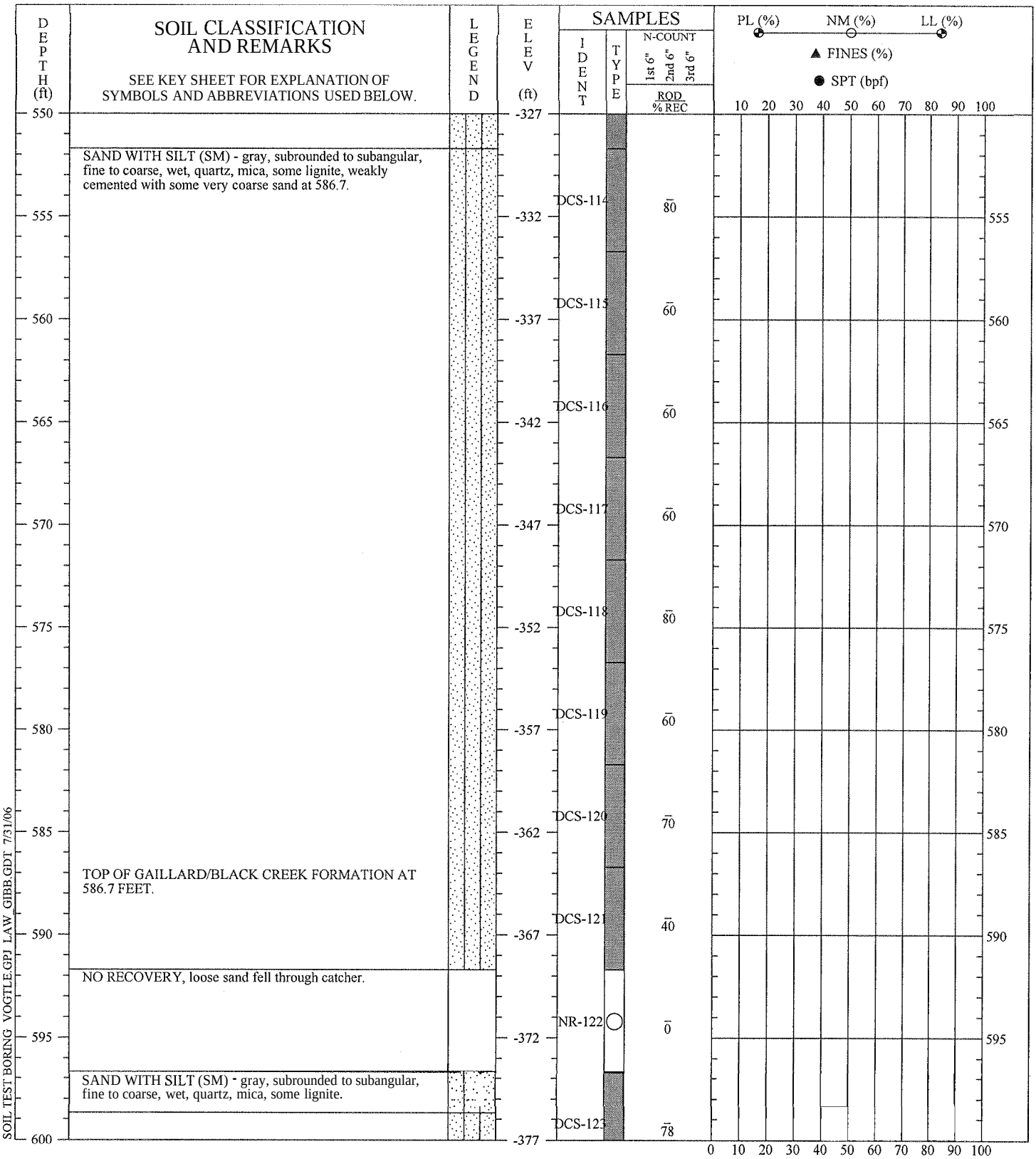

DRILLER:	RAVES DRILLING (STEVE RODGERS)
EQUIPMENT	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD	Christensen Wire Line
HOLE DIA.:	6 inches
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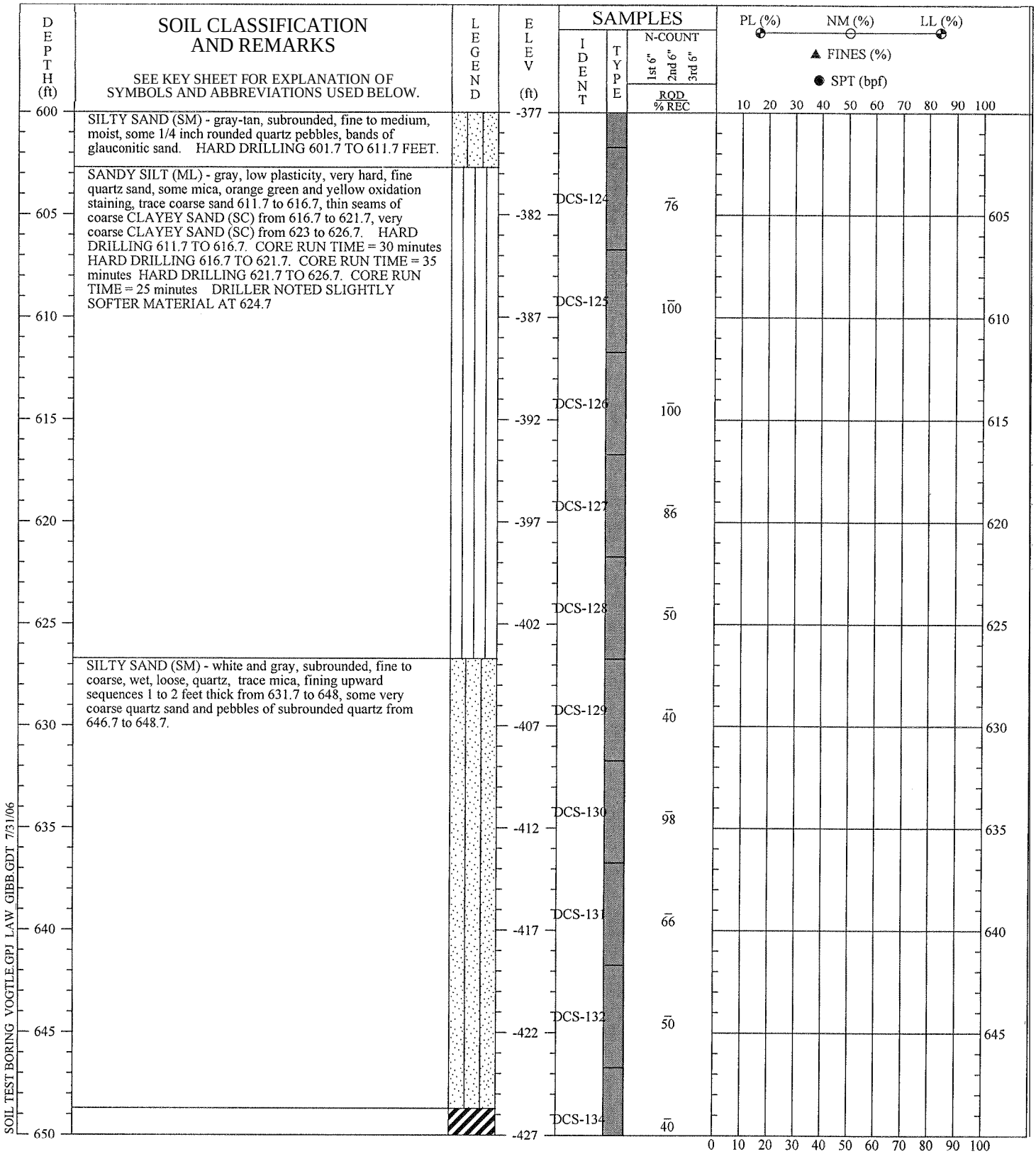
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT	Speedstar Quickdrill 275/Gardner Denver 15W
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SOIL TEST BORING RECORD

BORING NO.: **B-1003**
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 13 **OF** 27

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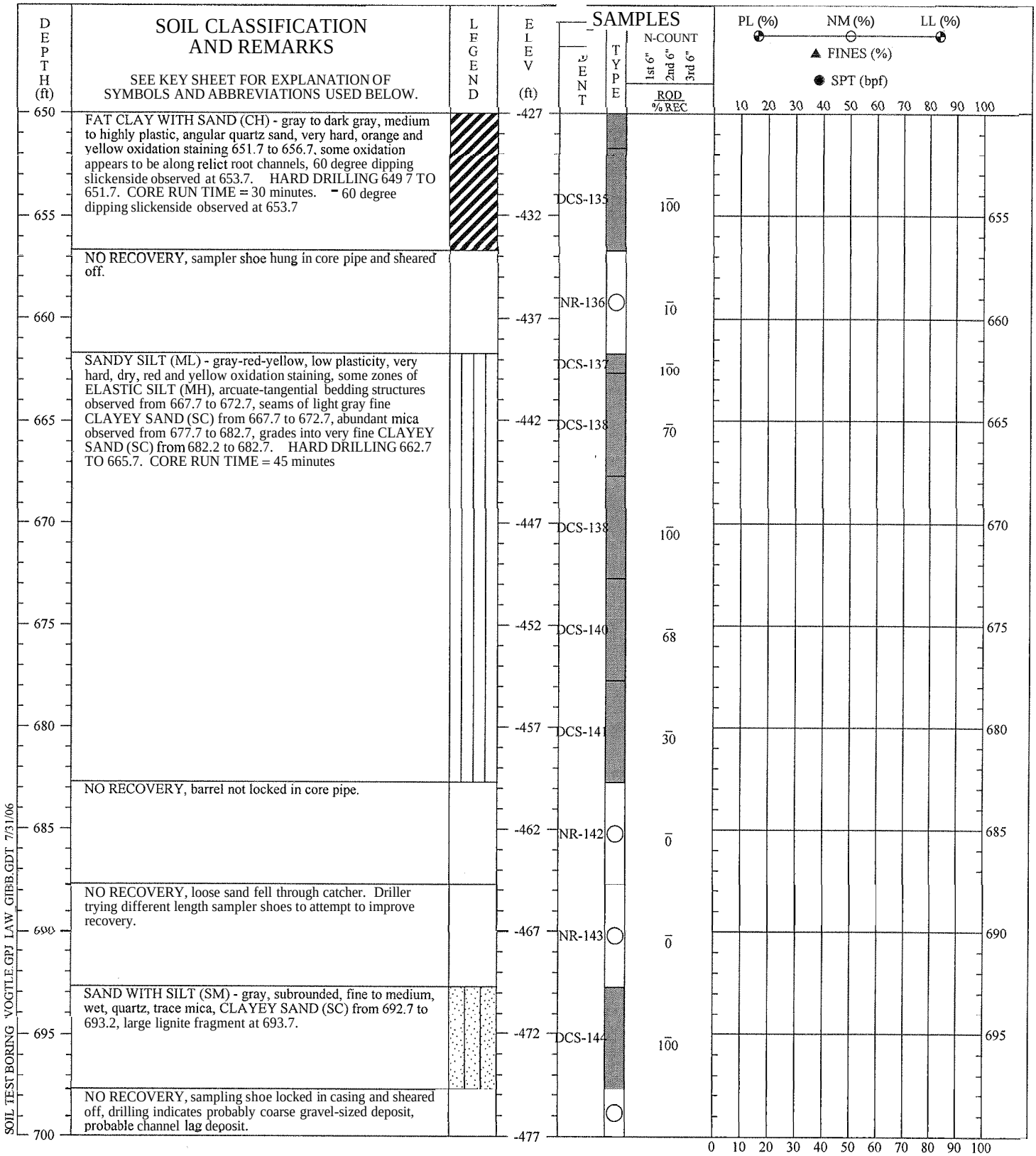

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

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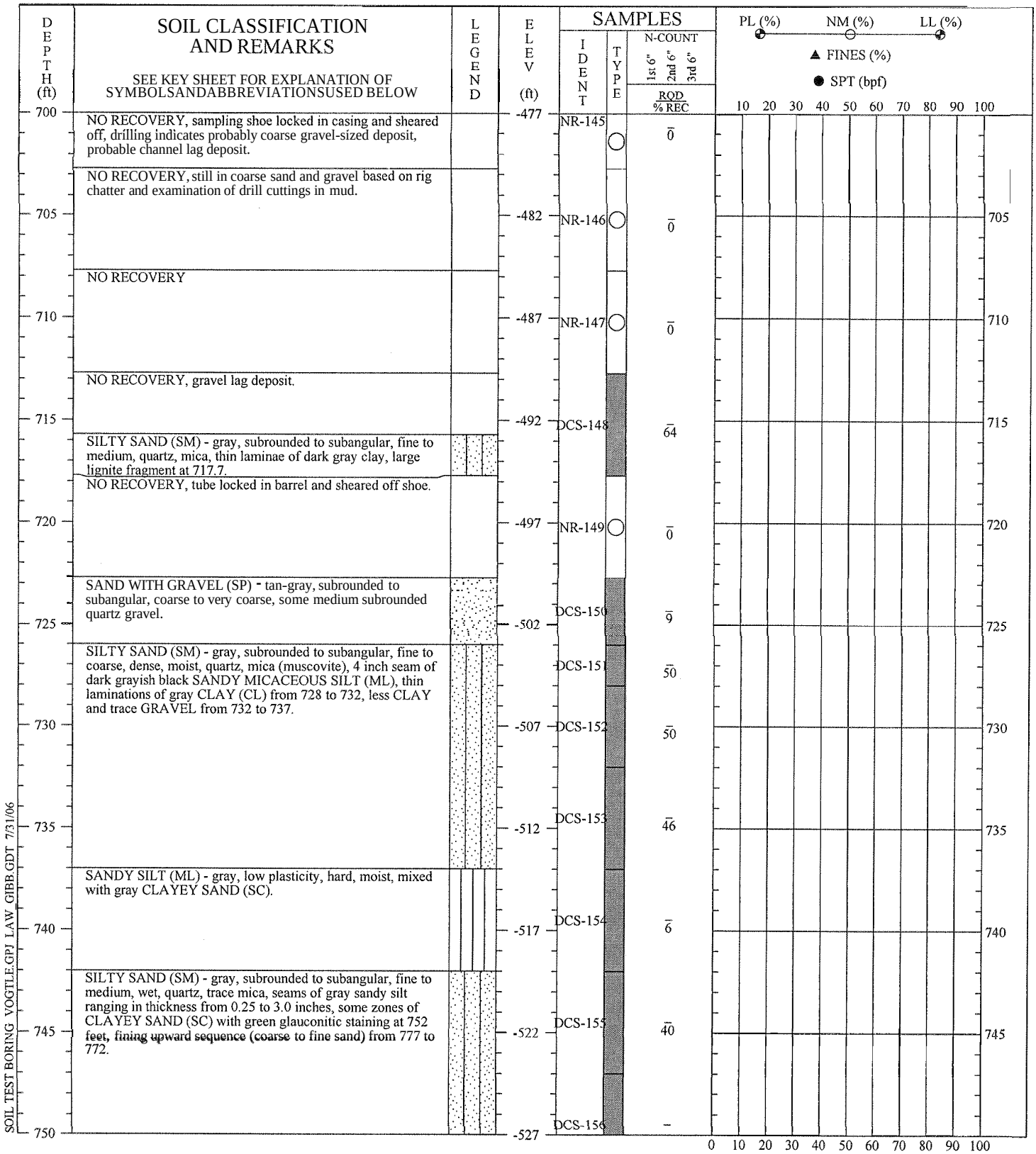

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227

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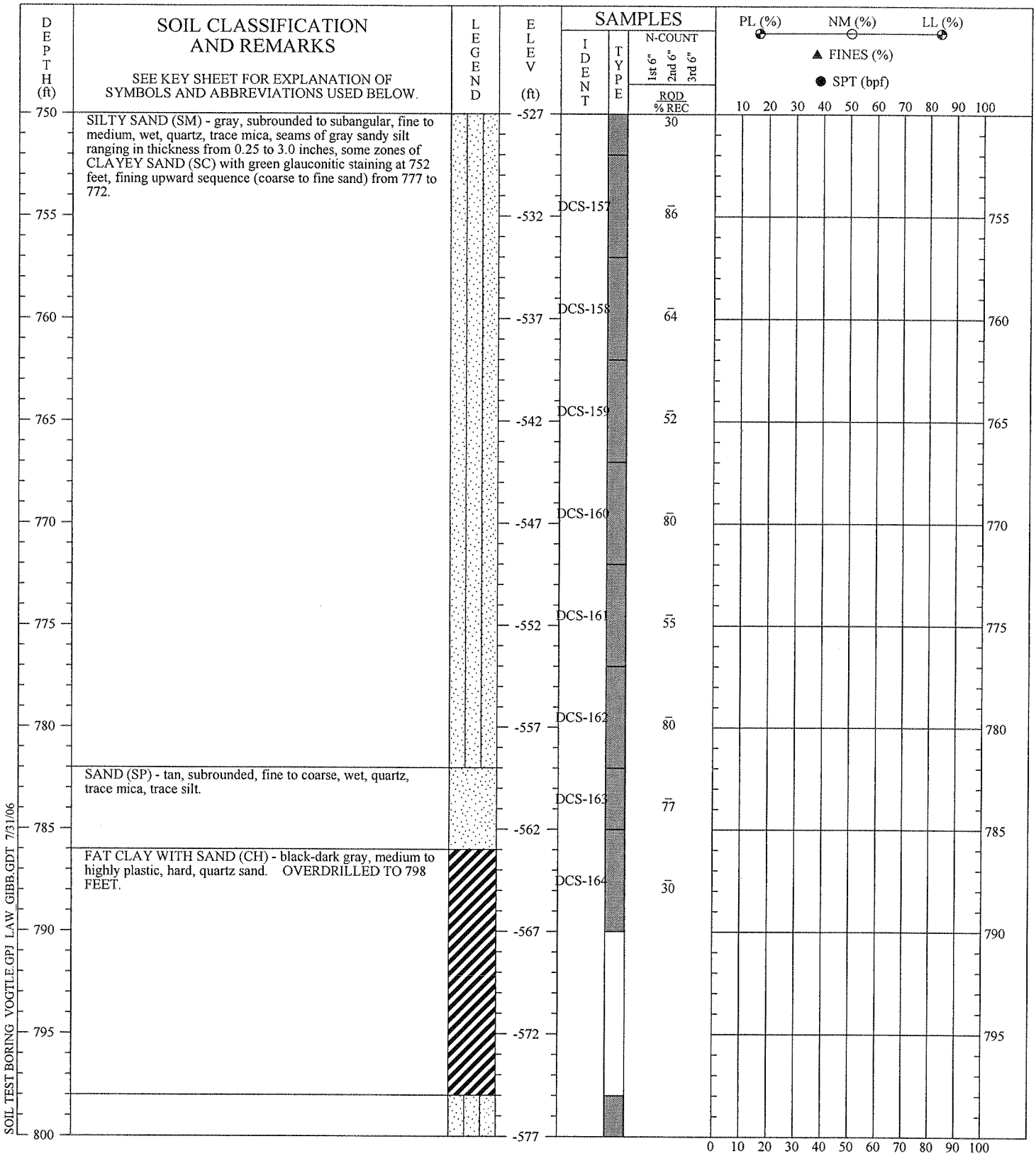

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
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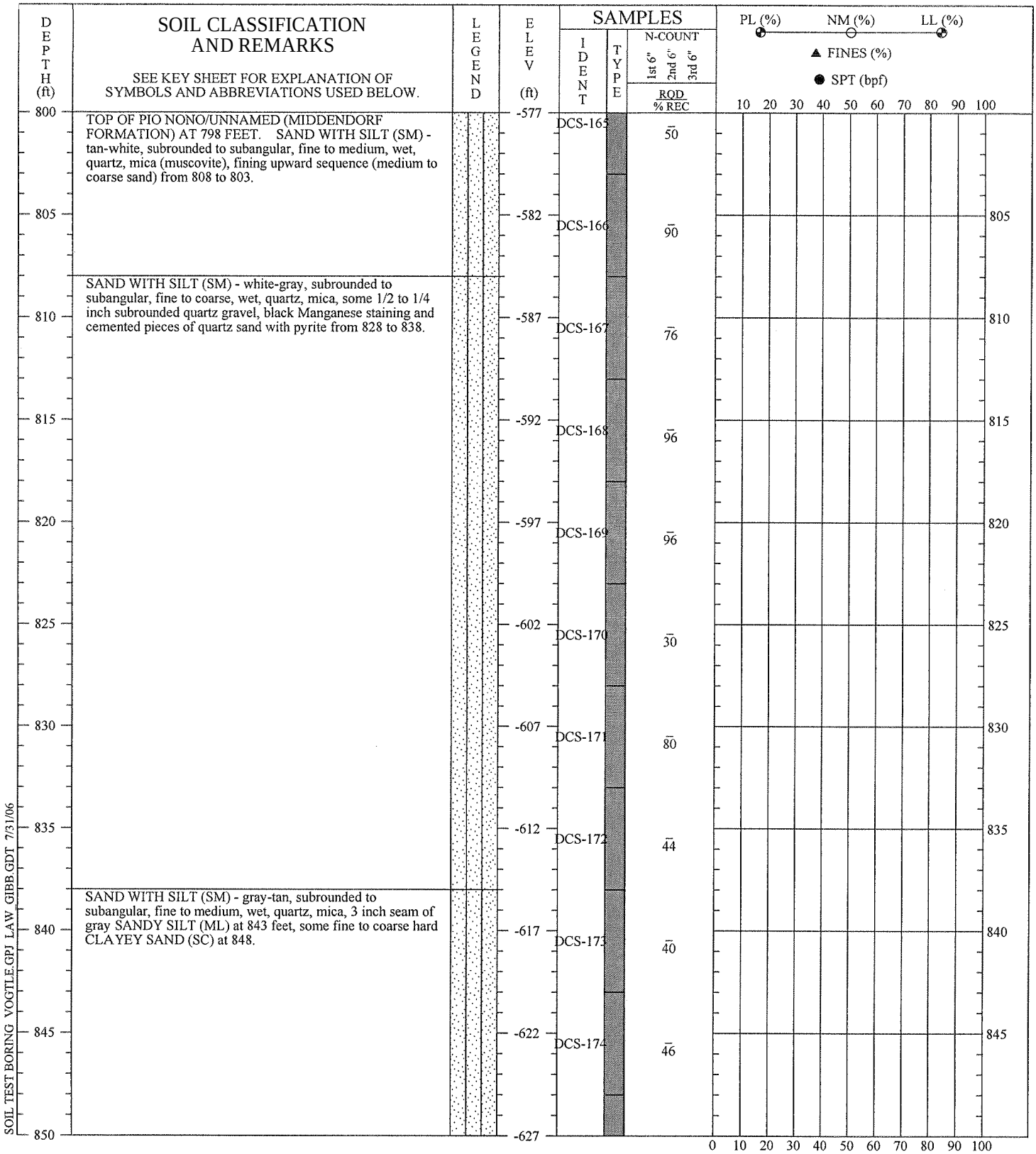
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
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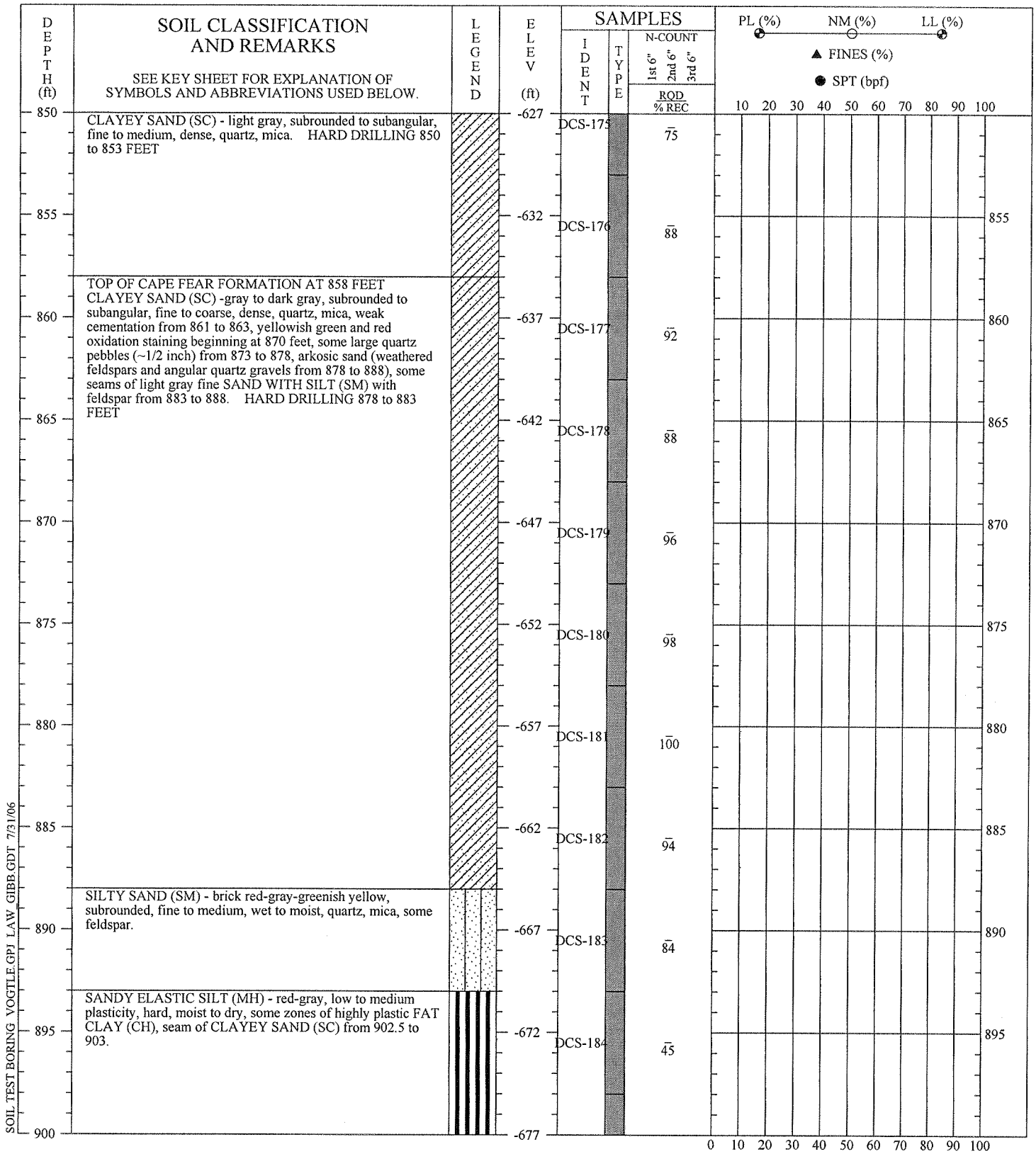
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 17 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (EVE RODGERS)
EQUIPMENT:	d.t Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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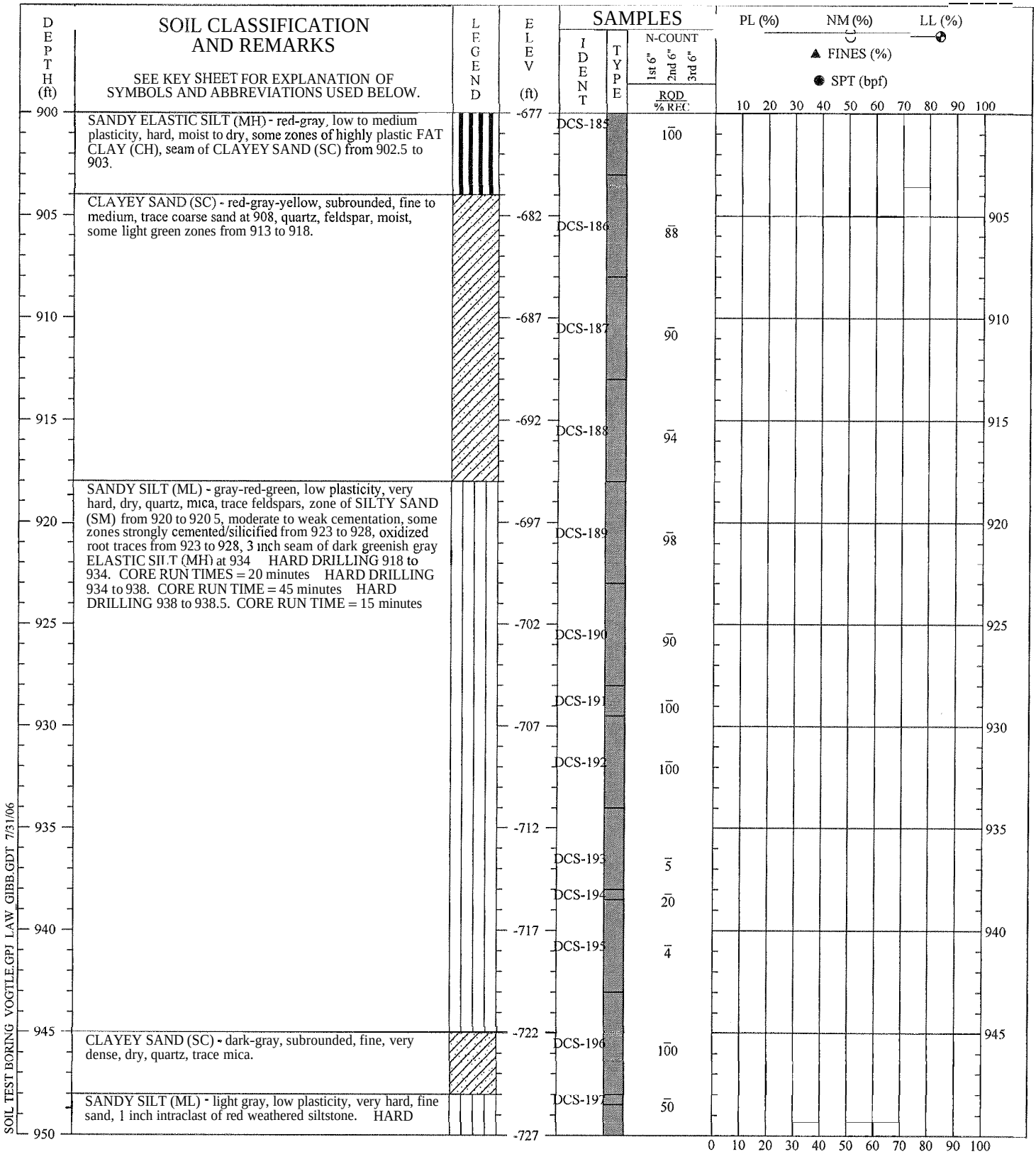
SOIL TEST BORING RECORD

BORING NO,: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOCTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE** 18 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

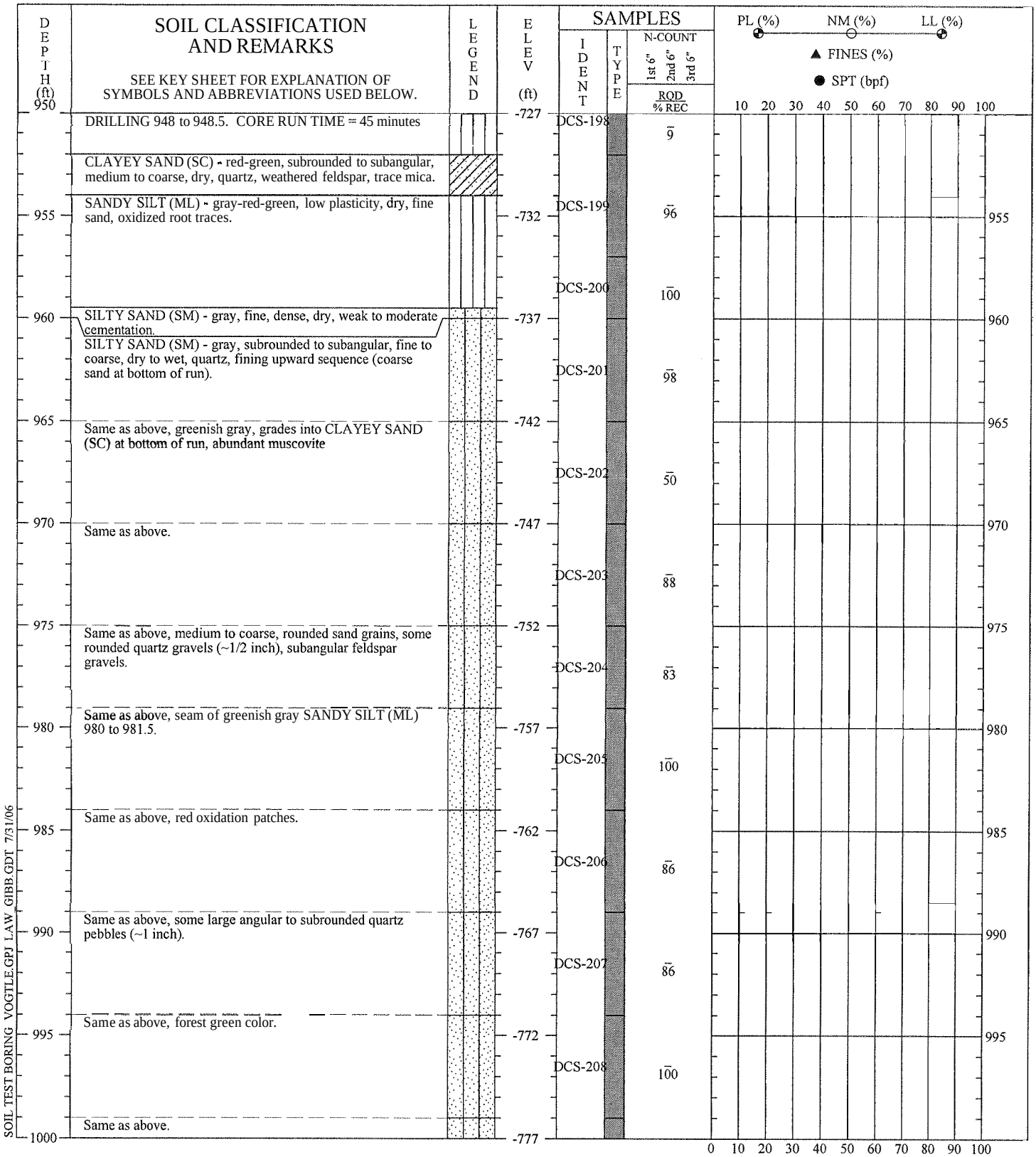
DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 19 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6" / RQD % REC
1000	Same as above.		-777	DCS-209		80
1005	Same as above, fine at bottom of run.		-782	DCS-210		86
1010	Same as above, fine to coarse, 6 inch seam of dark brown CLAYEY SAND (SC), containing some lignite from 1010 to 1010.5 feet.		-787	DCS-211		76
1015	Same as above, some coarse sand and 1/4 inch subrounded quartz pebbles at bottom of run.		-792	DCS-212		76
1020	Same as above, some coarse subrounded quartz and feldspar grains.		-797	DCS-213		60
1025	Same as above, seam of grayish black SANDY SILT (ML) from 1025 to 1026.		-802	DCS-214		98
1030	Same as above, with GRAVEL, seam of coarse subrounded quartz gravel 1030 to 1031, gravels are 1 to 2 inches in diameter.		-807	DCS-215		50
1035	Same as above, zones of dark brown SANDY SILT (ML).		-812	DCS-216		54
1040	Same as above, 2 inch subrounded quartz cobble at bottom of run.		-817	DCS-216		80
1045	GRAVEL (GP) - subrounded to angular, very coarse, quartz.		-822	DCS-218		20
1050	SANDY SILT (ML) - green, low plasticity, hard, moist to dry,		-827			

PL (%) NM (%) LL (%)
▲ FINES (%)
● SPT (bpf)
10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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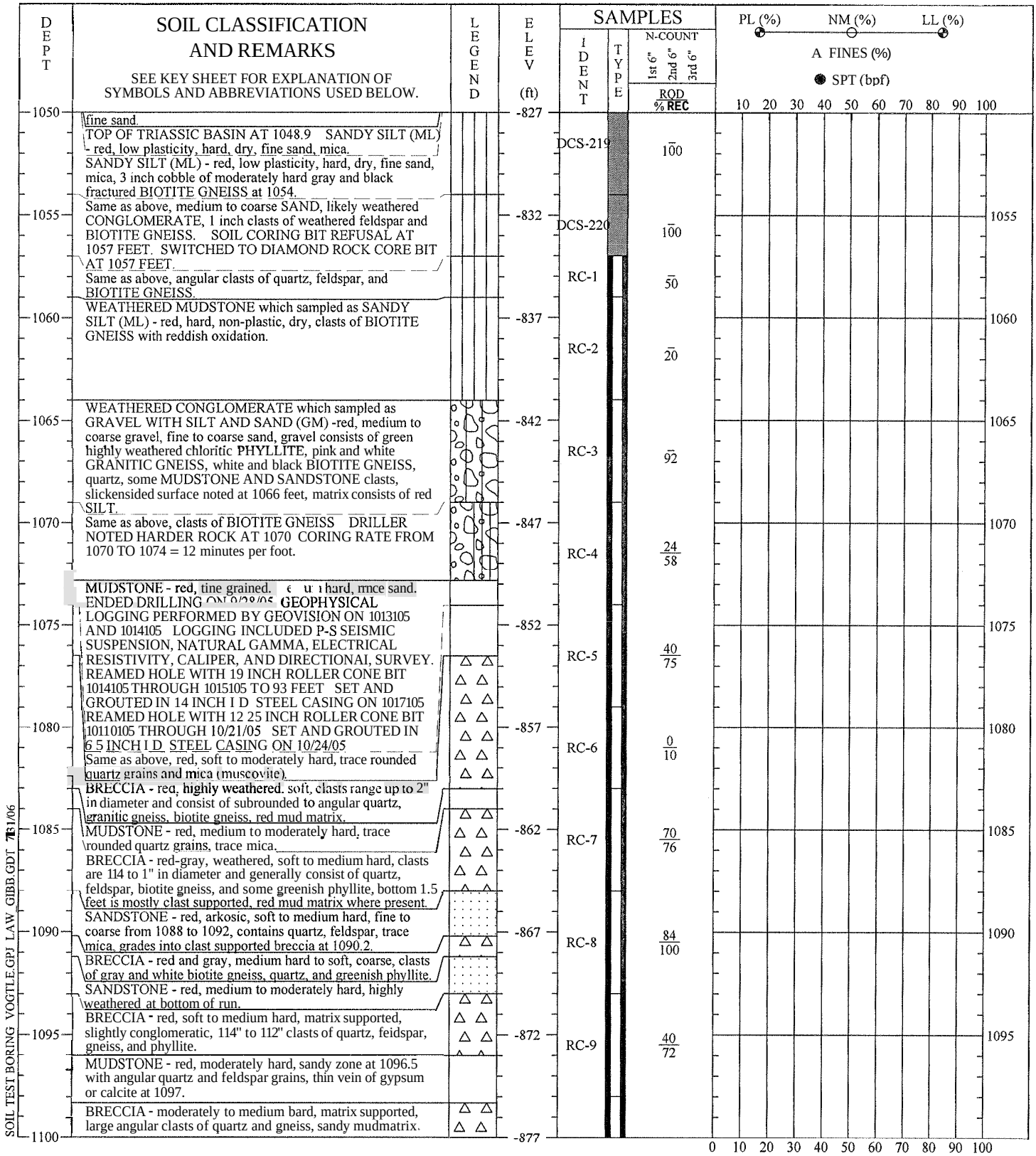
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE** 21 **OF** 27

MACTEC



DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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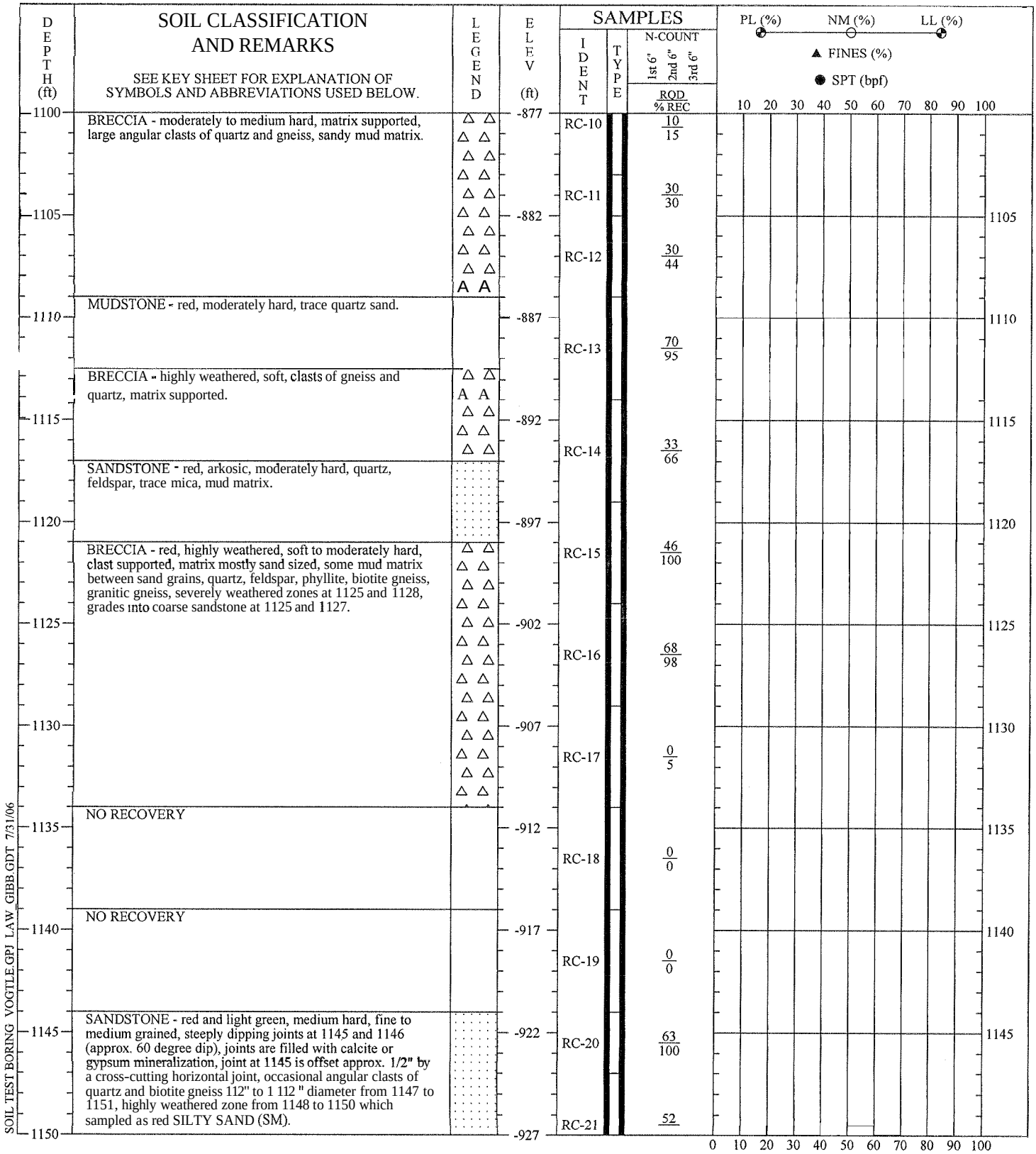
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 22 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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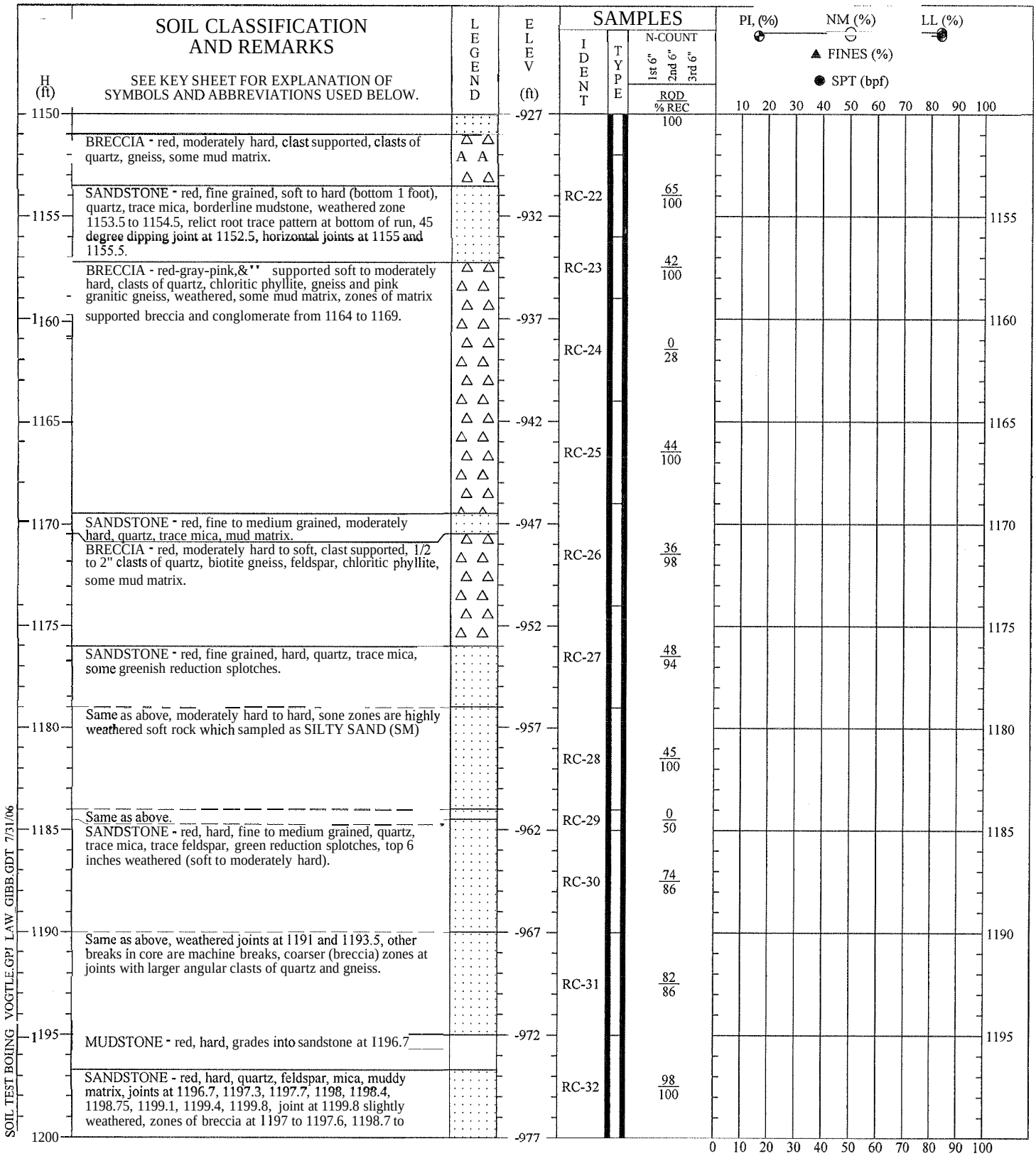
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BOING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

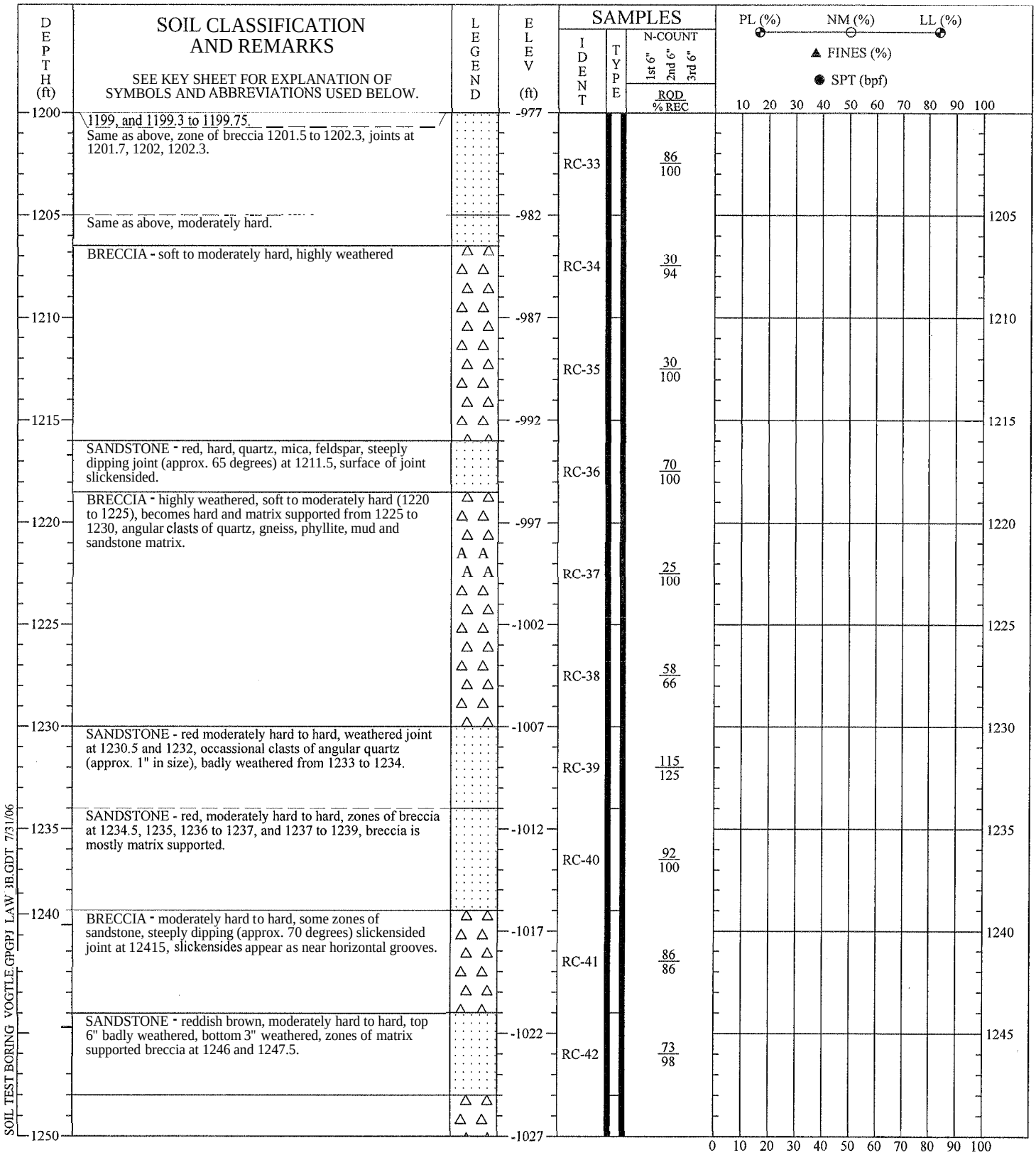
DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 79'74.36, E 7889.85
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 24 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPGPJ LAW 3B.GDT 7/31/06

DRILLER	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 25 **OF** 27

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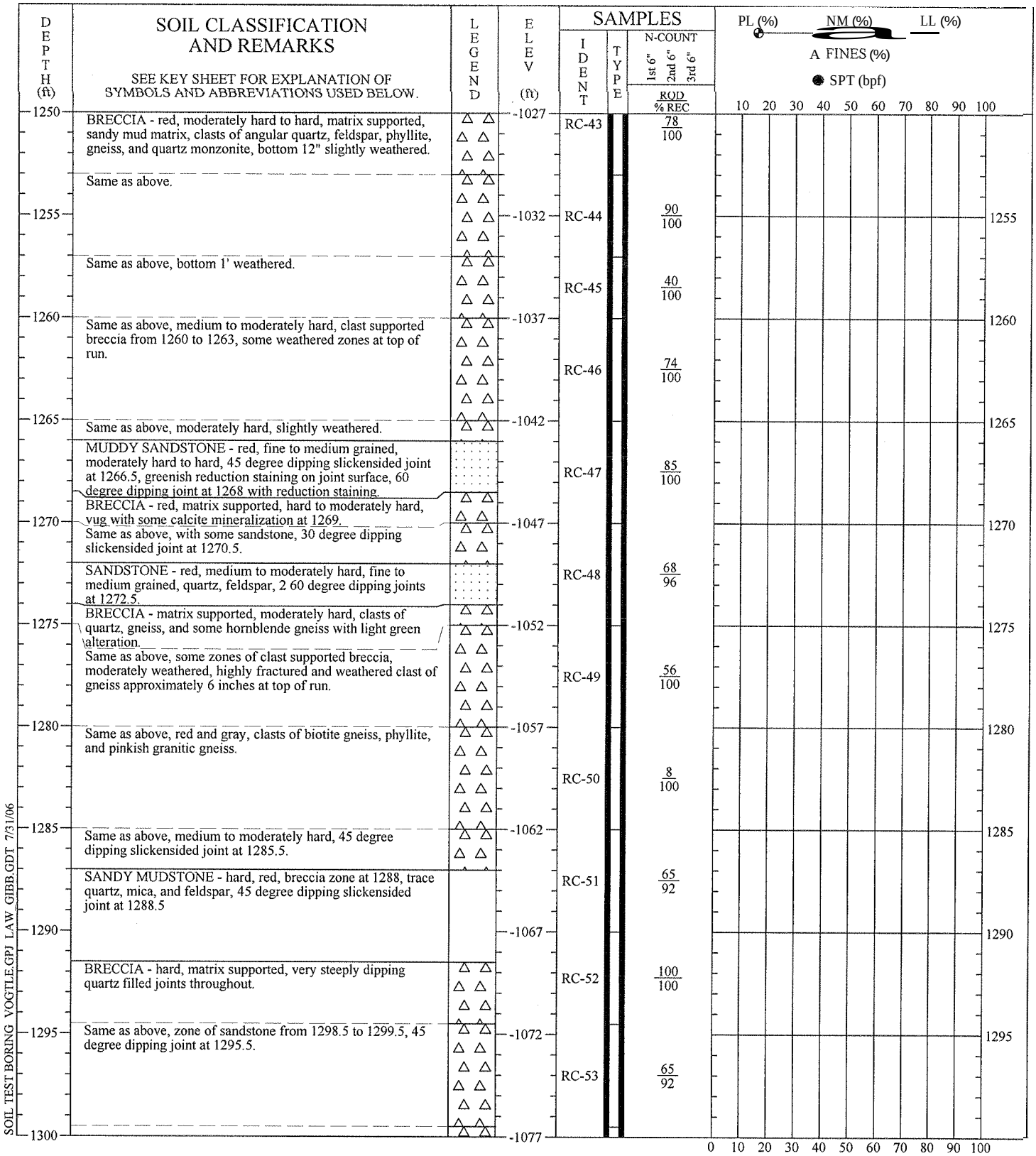

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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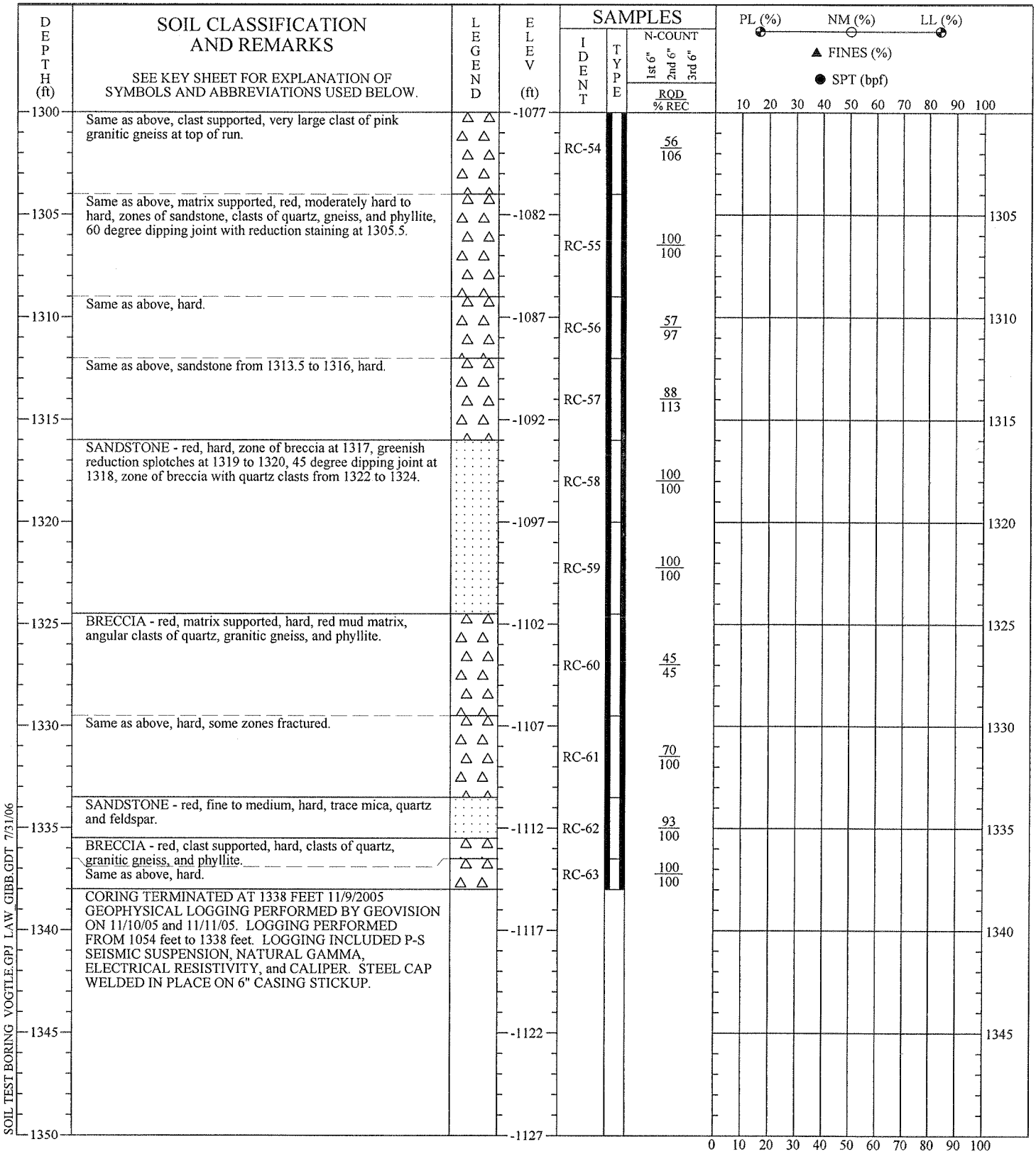
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 26 **OF** 27

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	GRAVES DRILLING (STEVE RODGERS)
EQUIPMENT:	Speedstar Quickdrill 275/Gardner Denver 15W
METHOD:	Christensen Wire Line
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7974.36, E 7889.85
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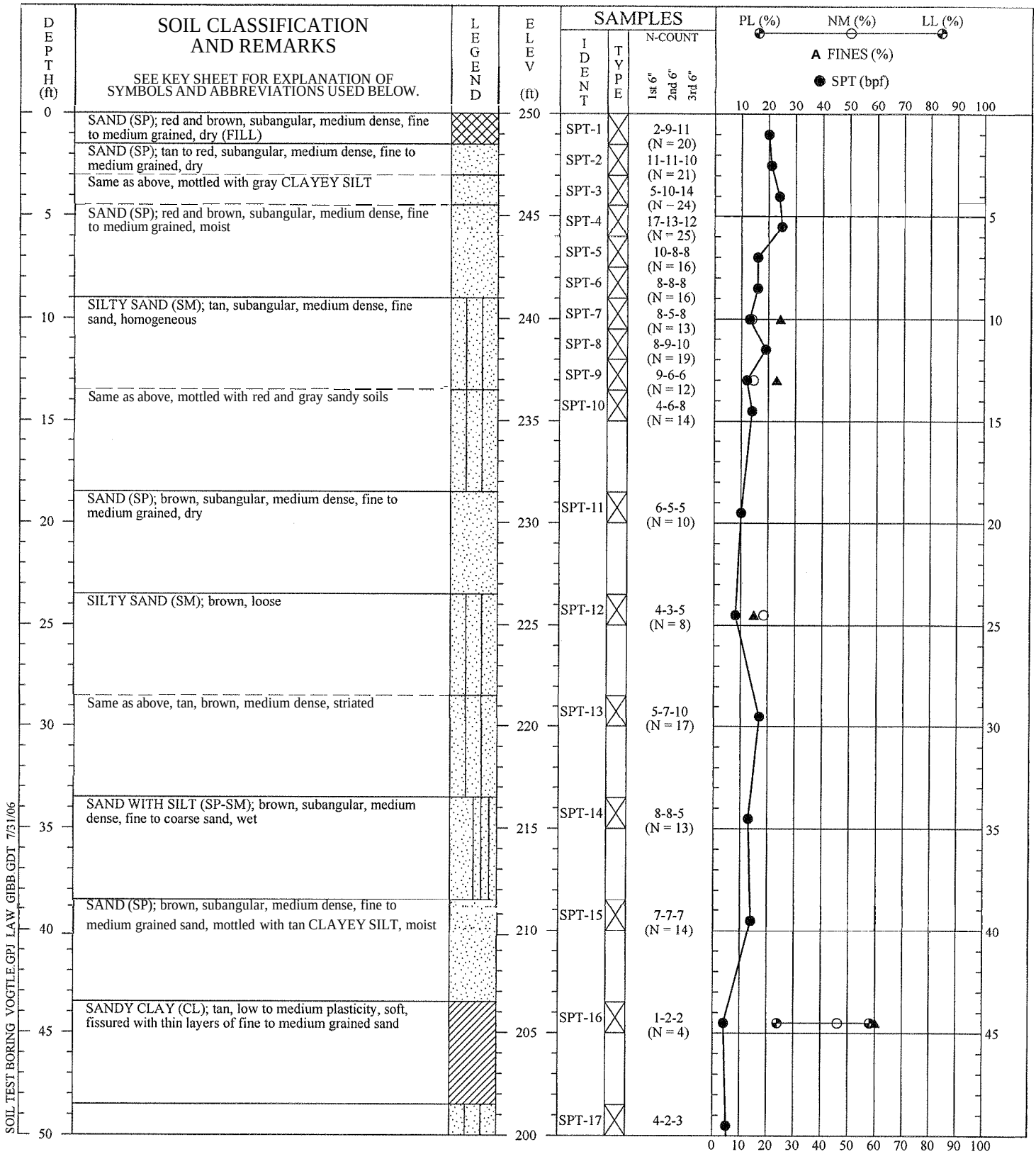
SOIL TEST BORING RECORD

BORING NO.: B-1003
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE 27 OF 27**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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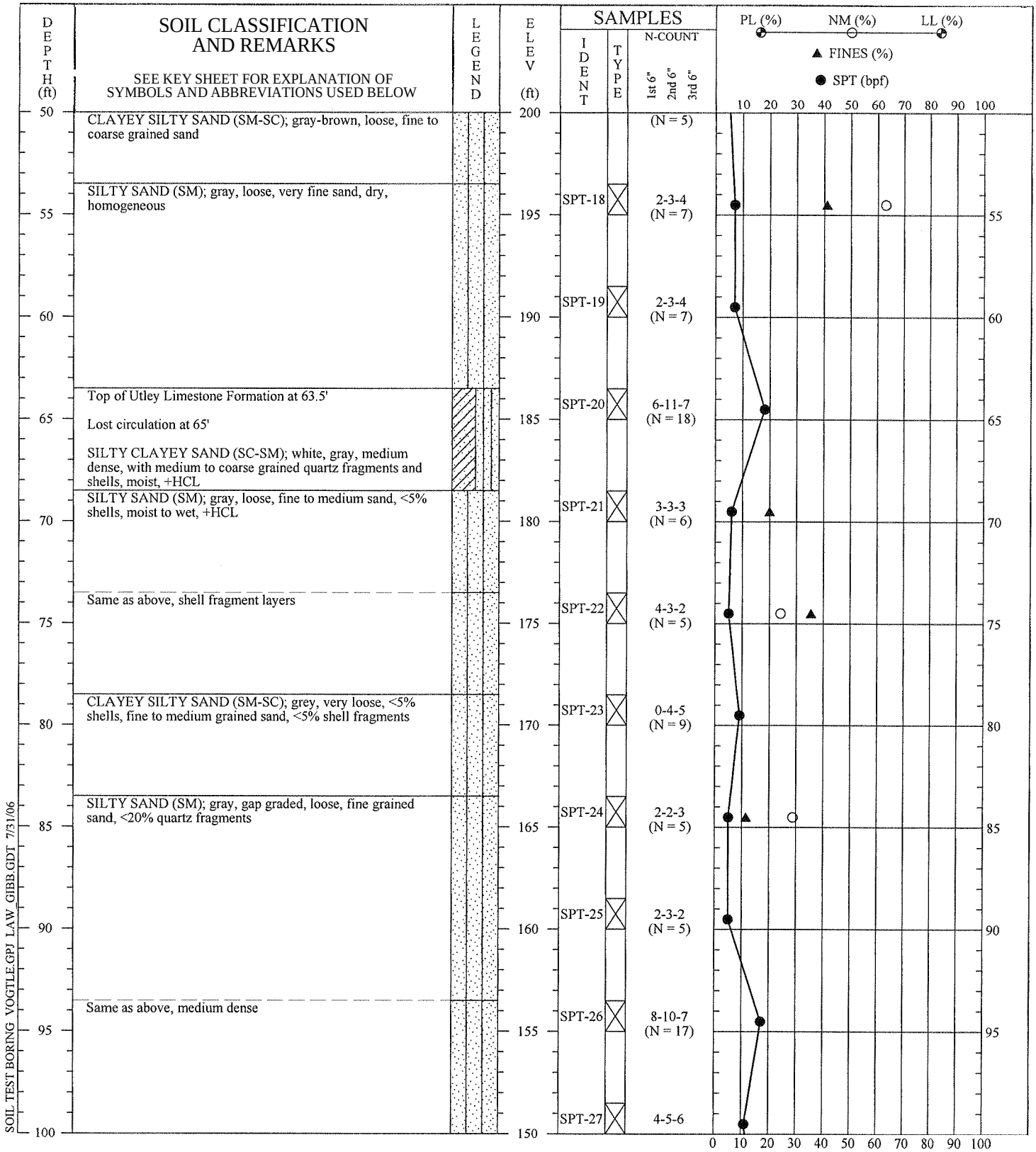
SOIL TEST BORING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 7**

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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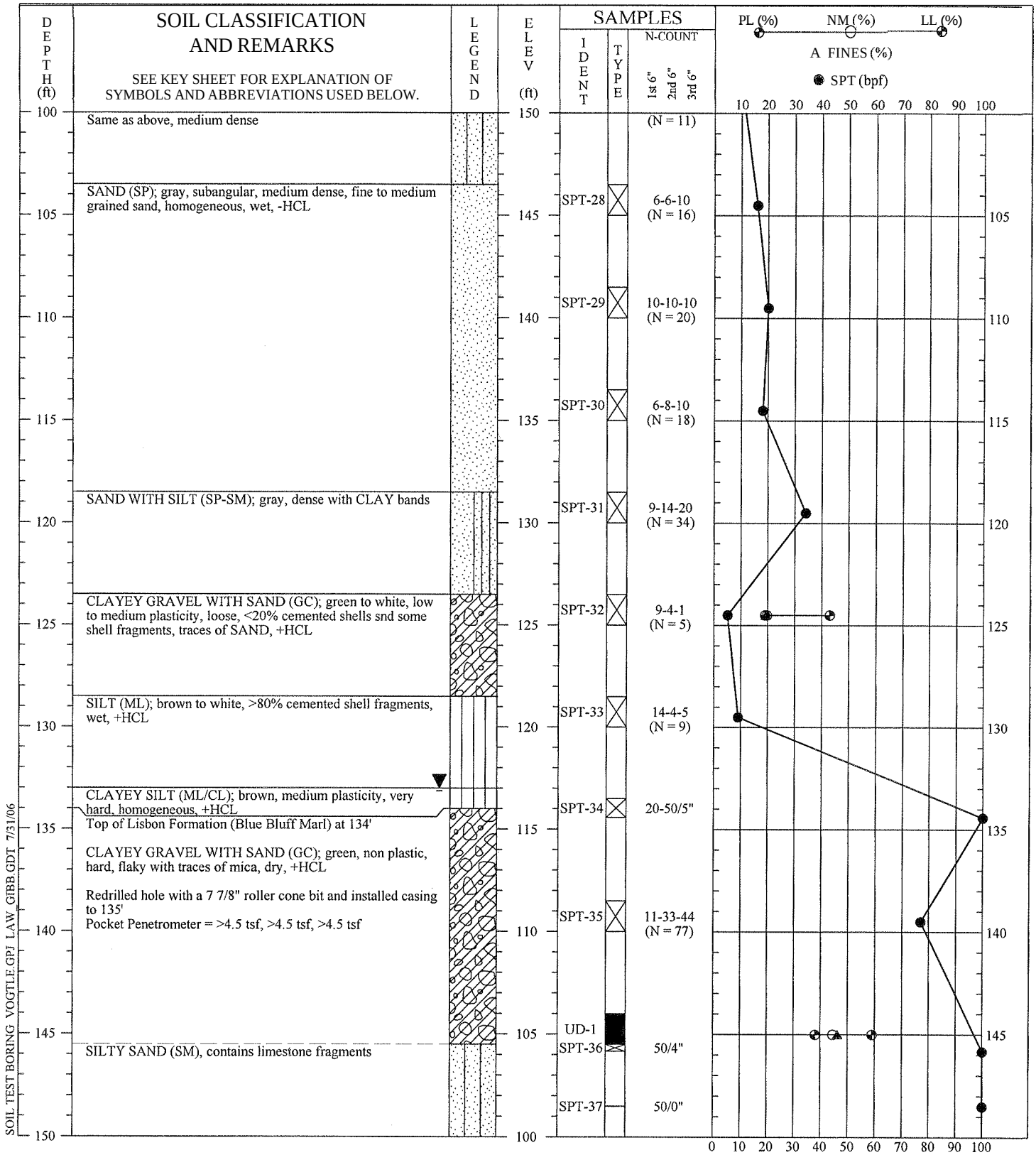
SOIL TEST BORING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14,2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 7**

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9115/05

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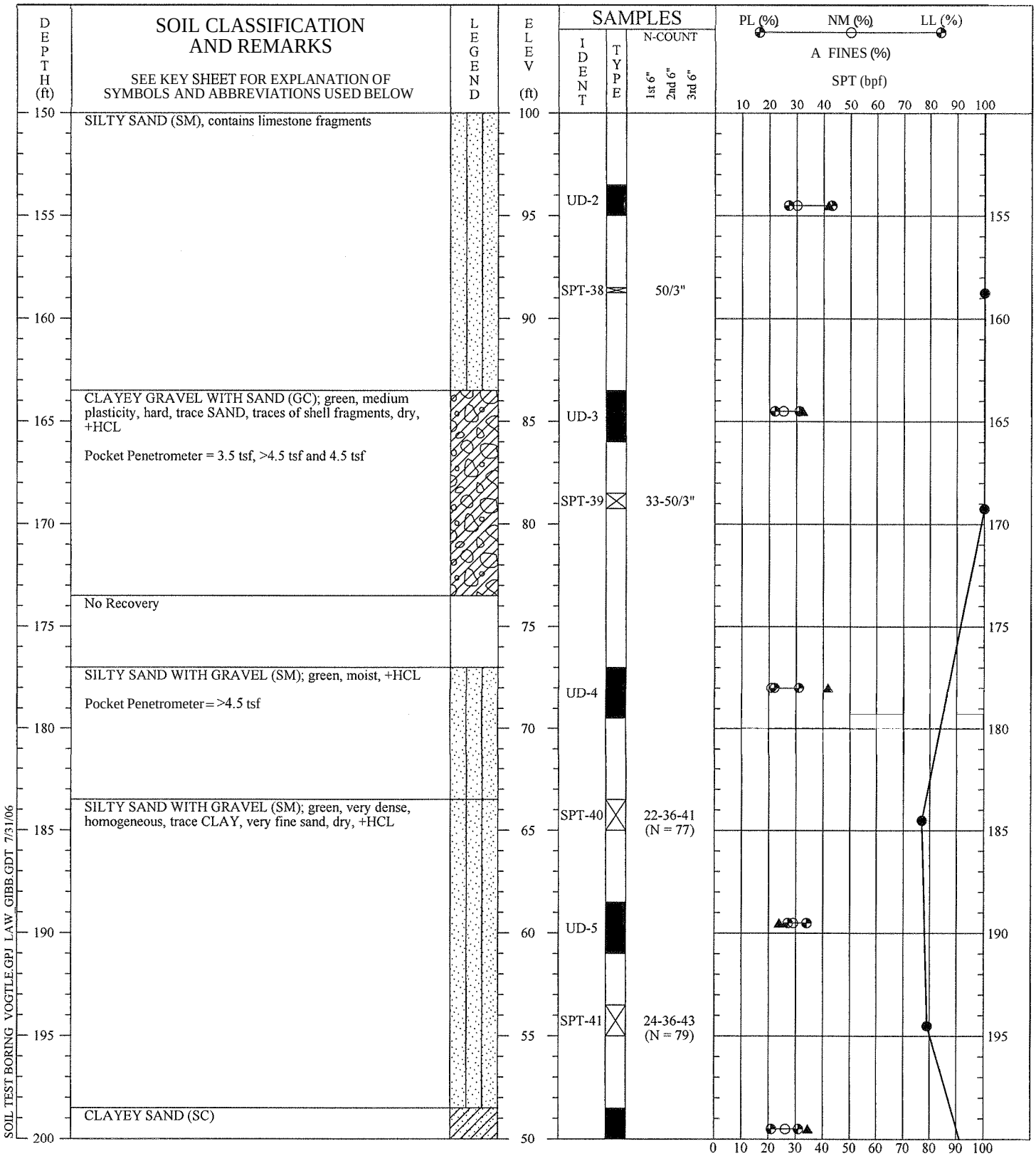
SOIL TEST BORING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 7**

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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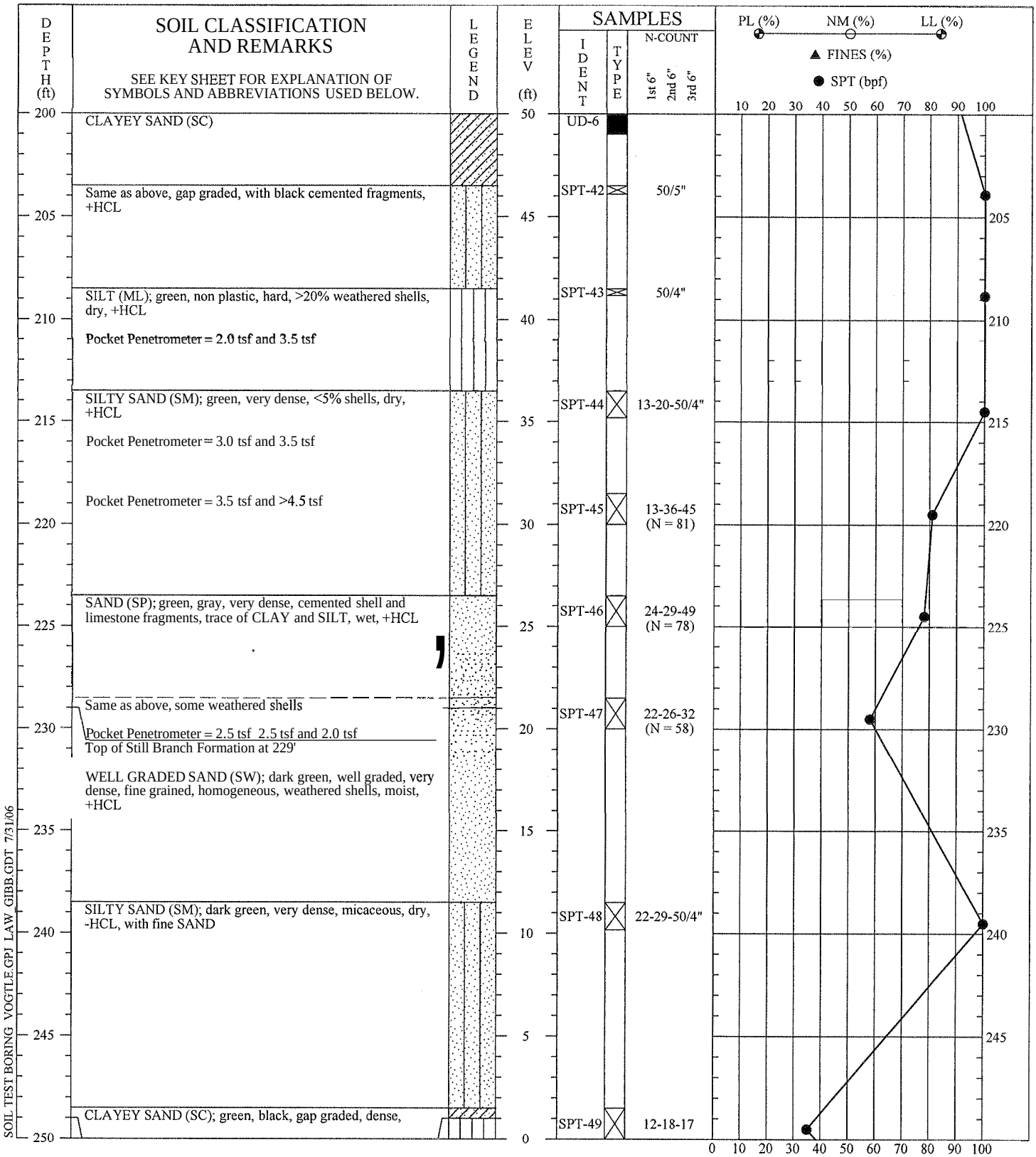
SOIL TEST BORING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14,2005
PROJECT NO.: 6141-05-0227 **PAGE 4 OF 7**

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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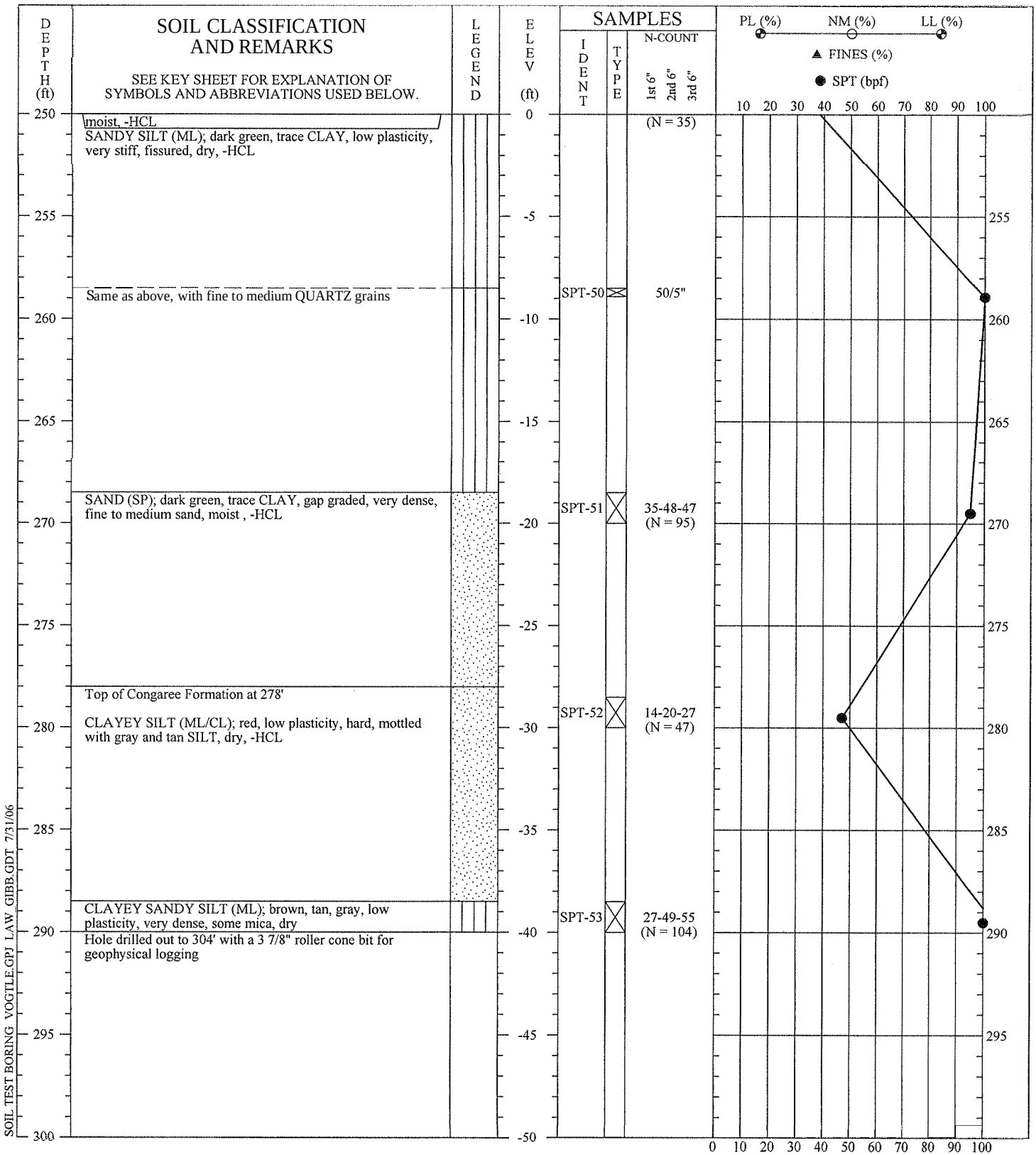
SOIL TEST BORING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 5 OF 7**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with d
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 4985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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SOIL TEST BOKING RECORD

BORING NO.: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14, 2005
PROJECT NO.: 6141-05-0227 **PAGE 6 OF 7**

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	SAMPLES: TYPE	SAMPLES: N-COUNT (1st 6" / 2nd 6" / 3rd 6")
300	Hole drilled out to 304' with a 3 7/8" roller cone bit for geophysical logging		-50			
305	Boring terminated at 304 feet on 10/4/05		-55			
310			-60			
315			-65			
320			-70			
325			-75			
330			-80			
335			-85			
340			-90			
345			-95			
350			-100			

PL (%) NM (%) LL (%)
▲ FINES (%)
● SPT (bpf)
10 20 30 40 50 60 70 80 90 100
0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

DRILLER: Jimmy Oglesby (MACTEC)
EQUIPMENT: CME-75 (Auto-Hammer)
METHOD: Rotary Wash with Mud
HOLE DIA.: 4 inches
REMARKS: Plant Grid: N 7985.41, E 6131.44 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/15/05

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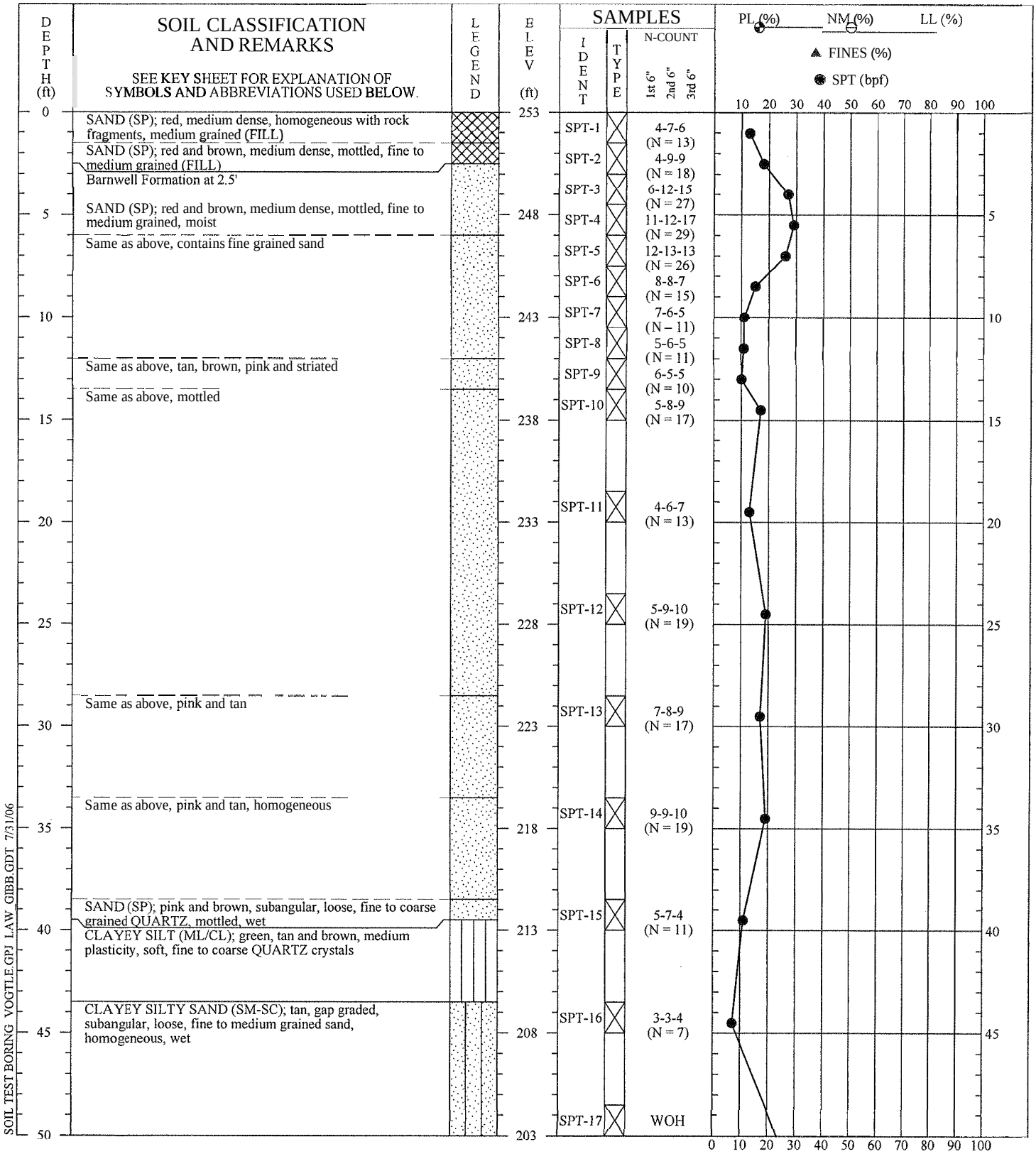
SOIL TEST BORING RECORD

BORING NO,: B-1004
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 14,2005
PROJECT NO.: 6141-05-0227

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8991.57, E 6155.35 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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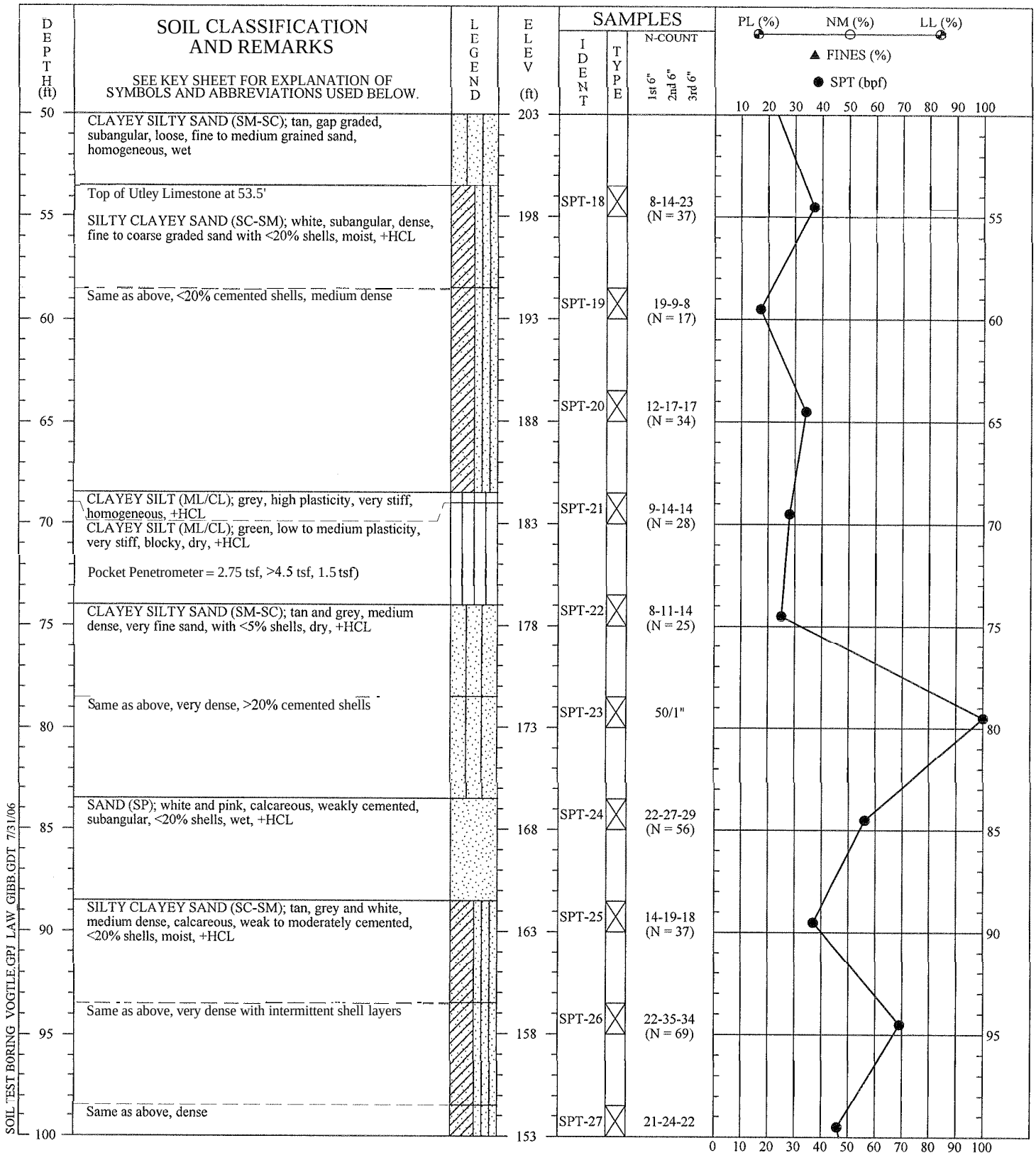
SOIL TEST BORING RECORD

BORING NO.: B-1005
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 8,2005
PROJECT NO.: 6141-05-0227

MACTEC



DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8991.57, E 6155.35
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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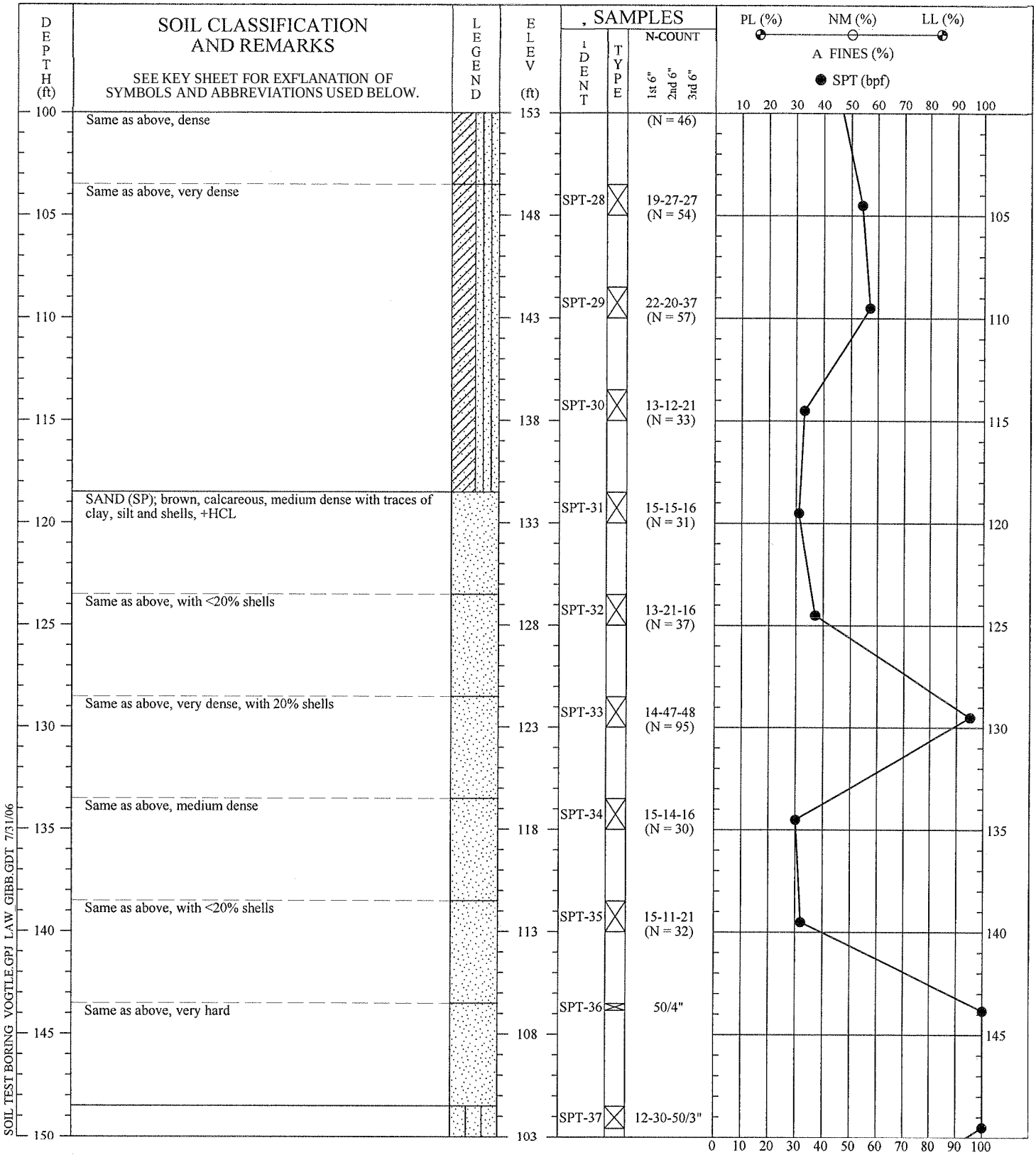
SOIL TEST BORING RECORD

BORING NO.: B-1005
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 8, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 4**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

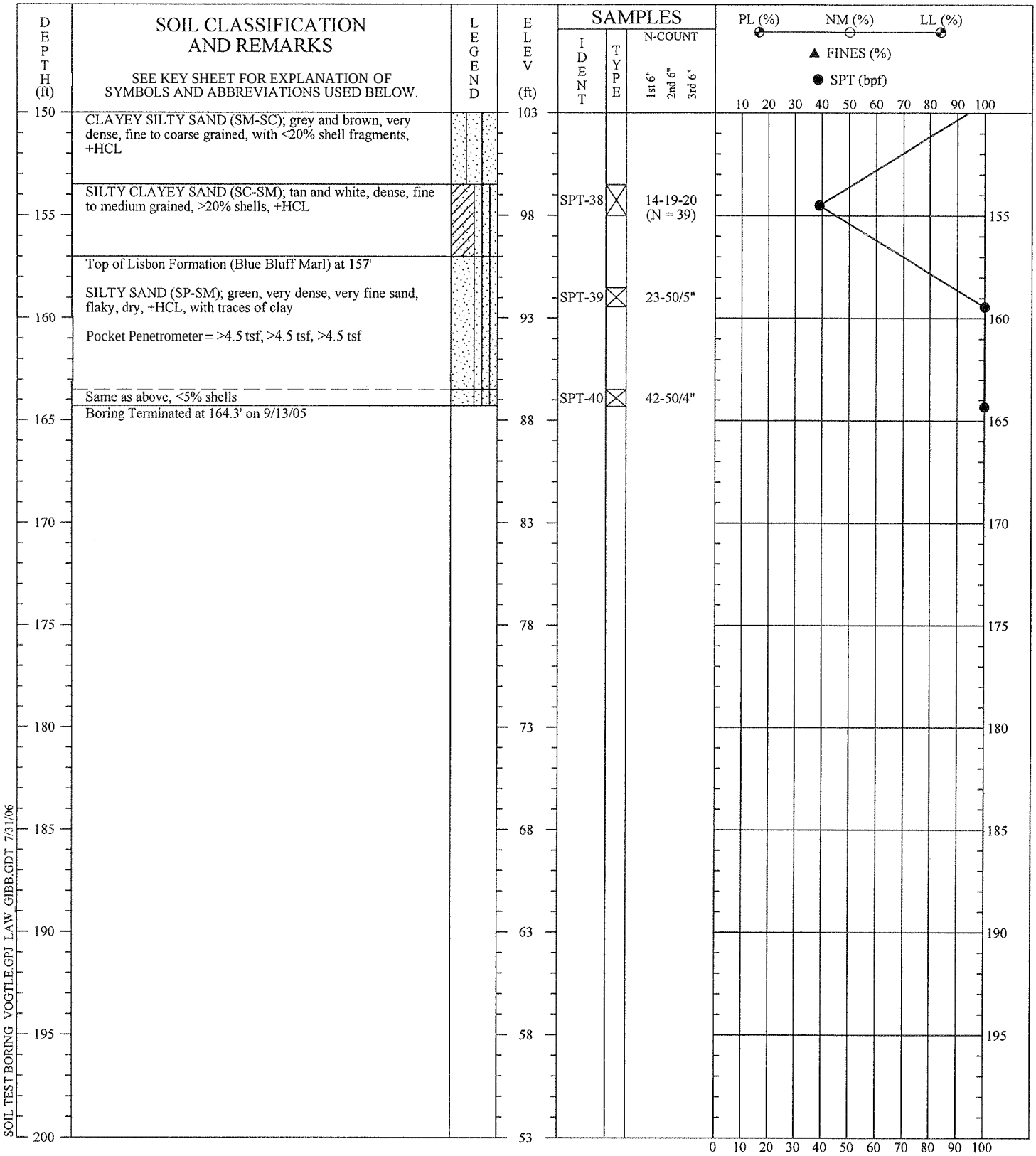
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8991.57, E 6155.35 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1005
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, CA
DRILLED: September 8, 2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

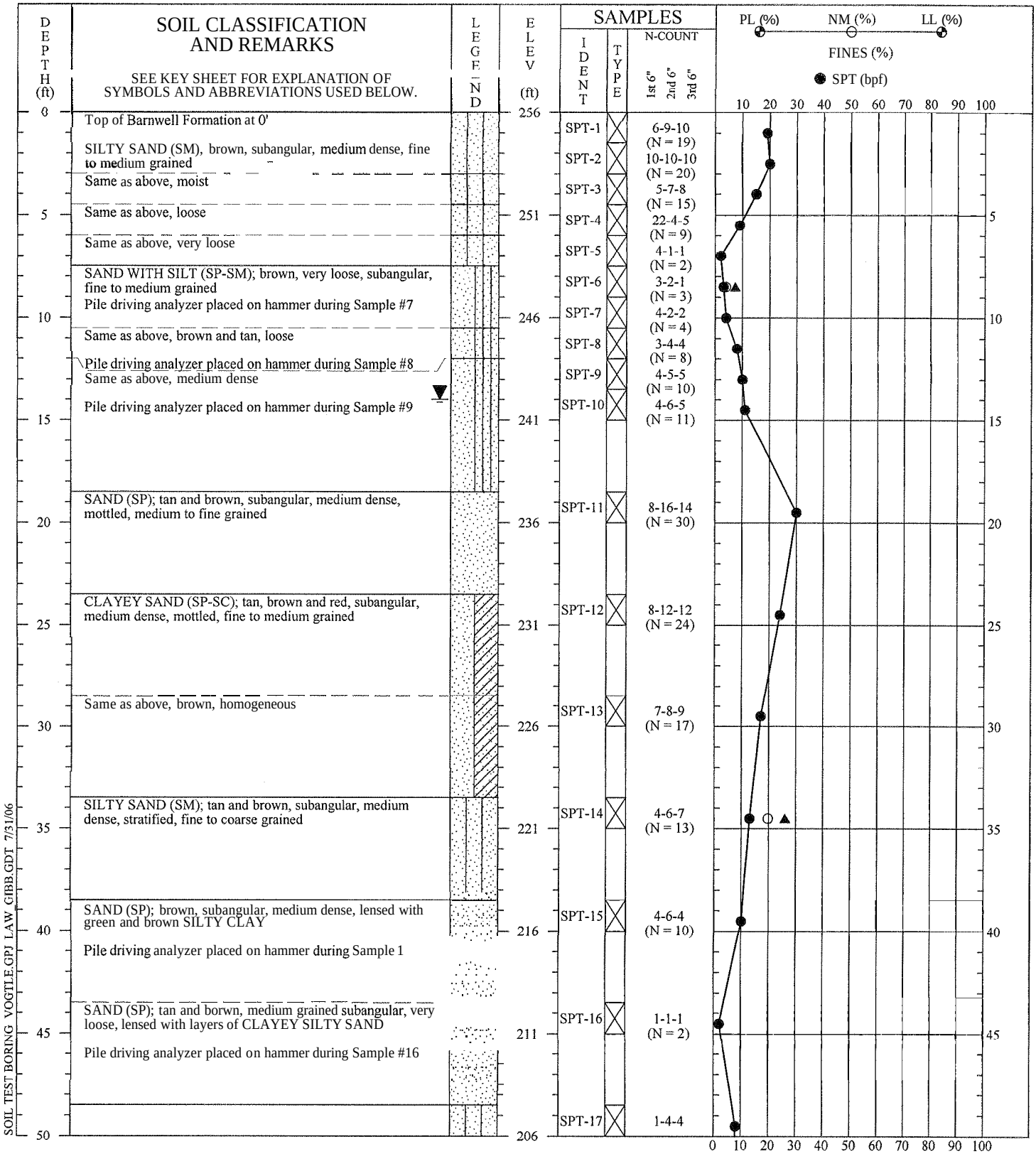
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8991.57, E 6155.35 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1005
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 8, 2005
PROJECT NO.: 6141-05-0227 **PAGE 4 OF 4**

MACTEC



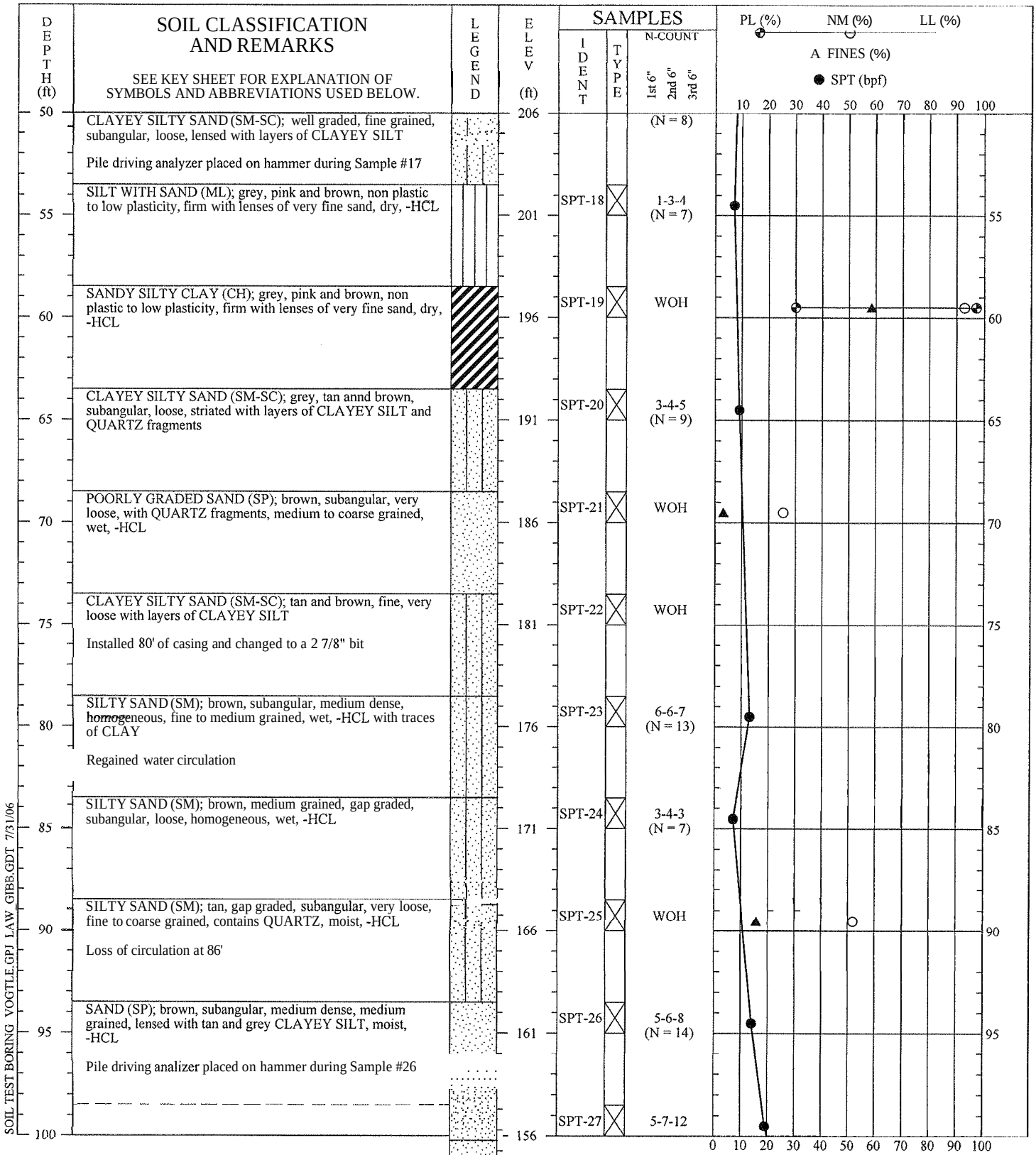
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8810.26, E 7342.90 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/7/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1006
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 6,2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW GIBB.GDT 7/31/06

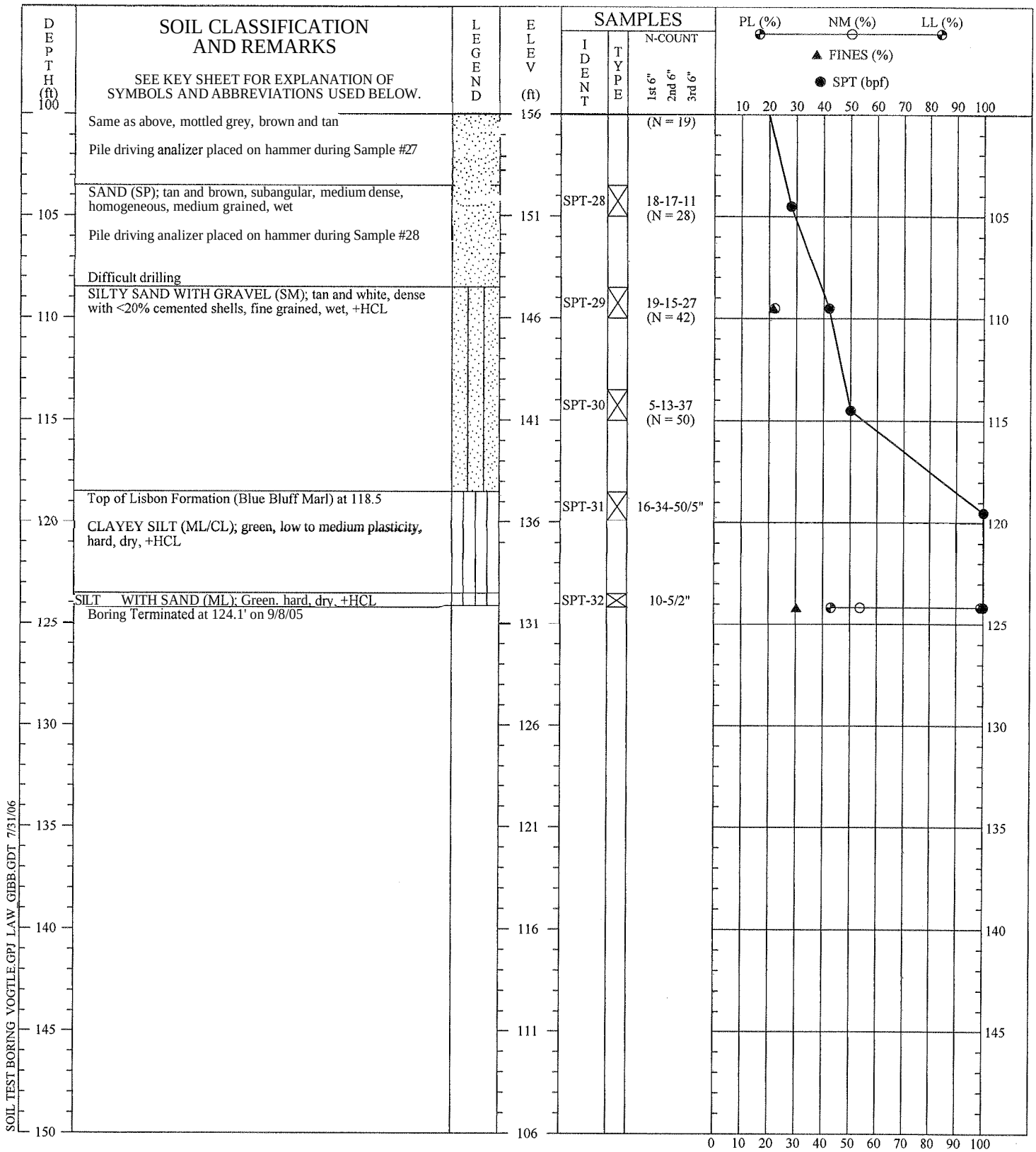
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8810.26, E 7342.90 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Waterdepth represents depth of water and mud as measured on 9/7/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1006
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 6, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC



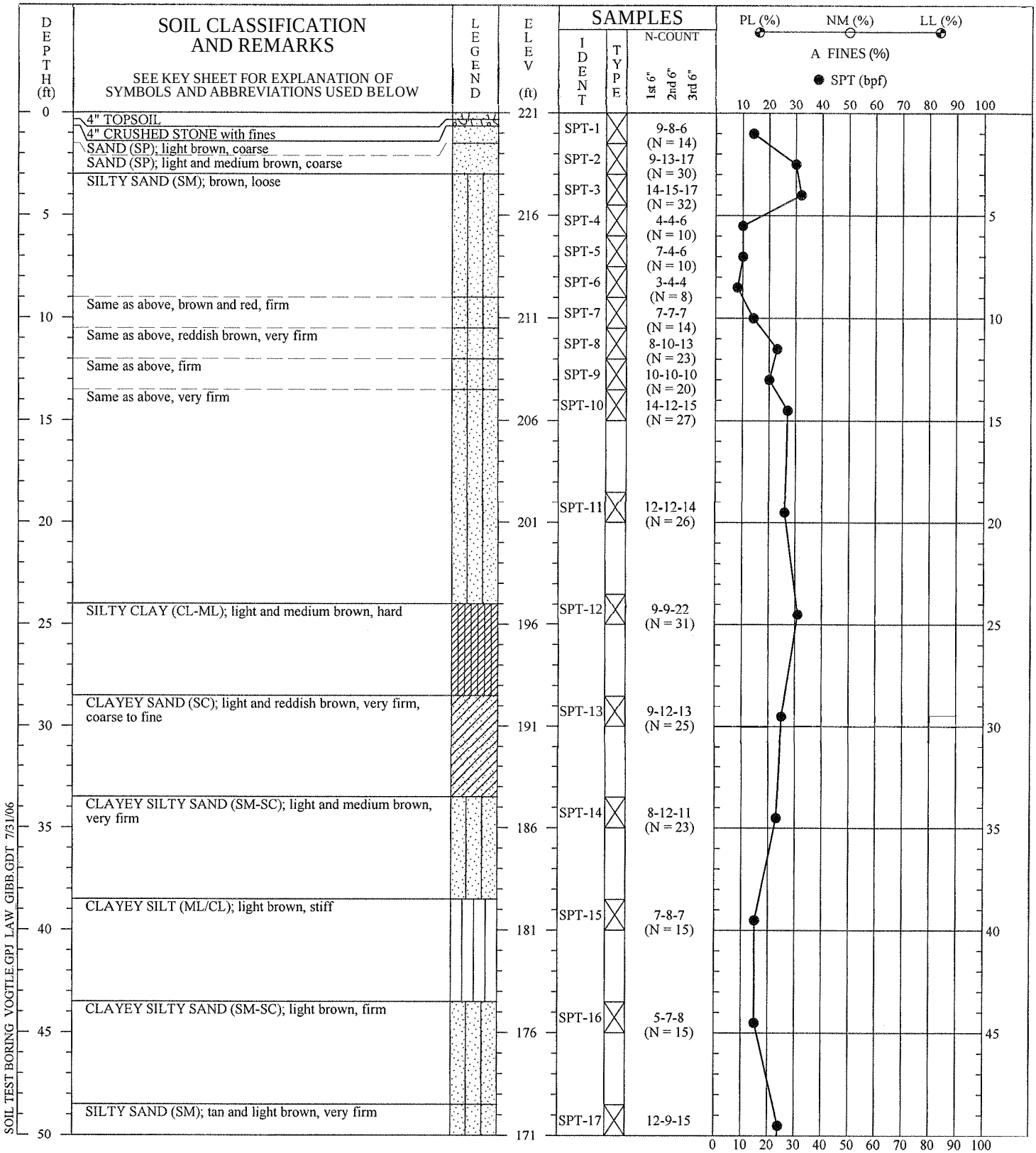
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8810.26, E 4342.90 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/7/0

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

SOIL TEST BORING RECORD

BORING NO.: B-1006
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 6,2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 3**

MACTEC



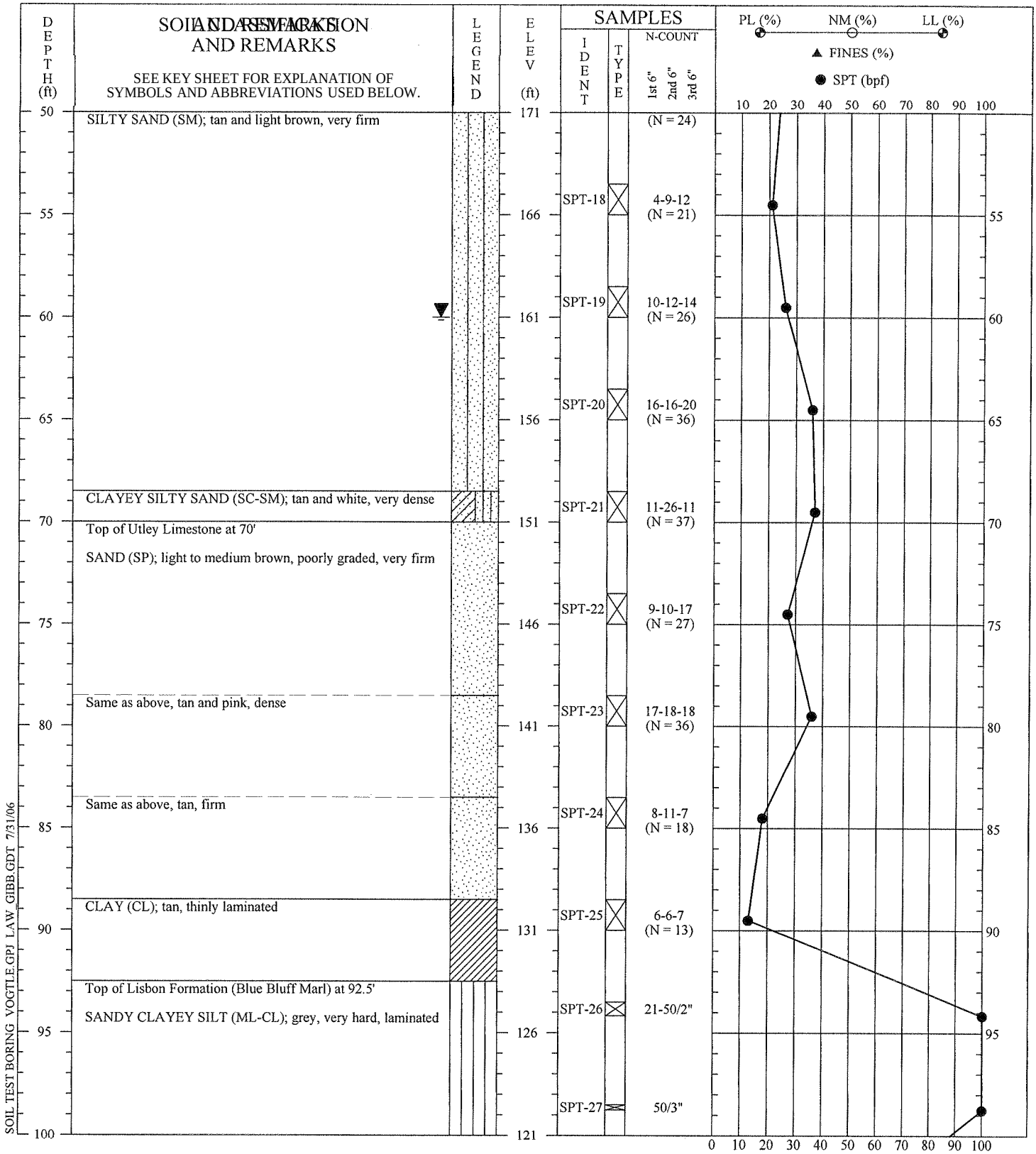
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7662.29, E 7120.13 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 8131/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1007
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, **GA**
DRILLED: August 30, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

MACTEC



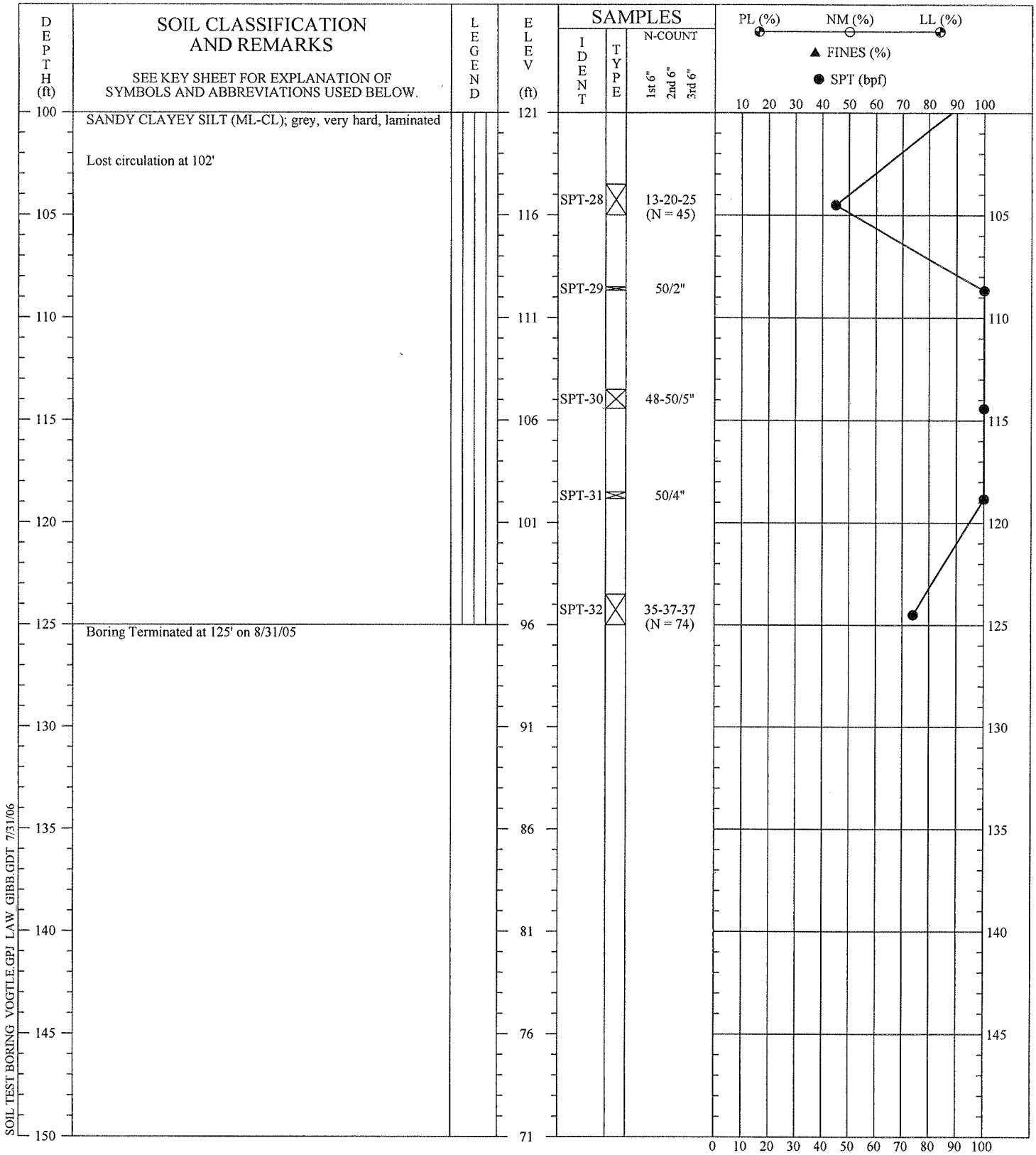
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7662.29, E 7120.13 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 8/31/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1007
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: **August** 30,2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC



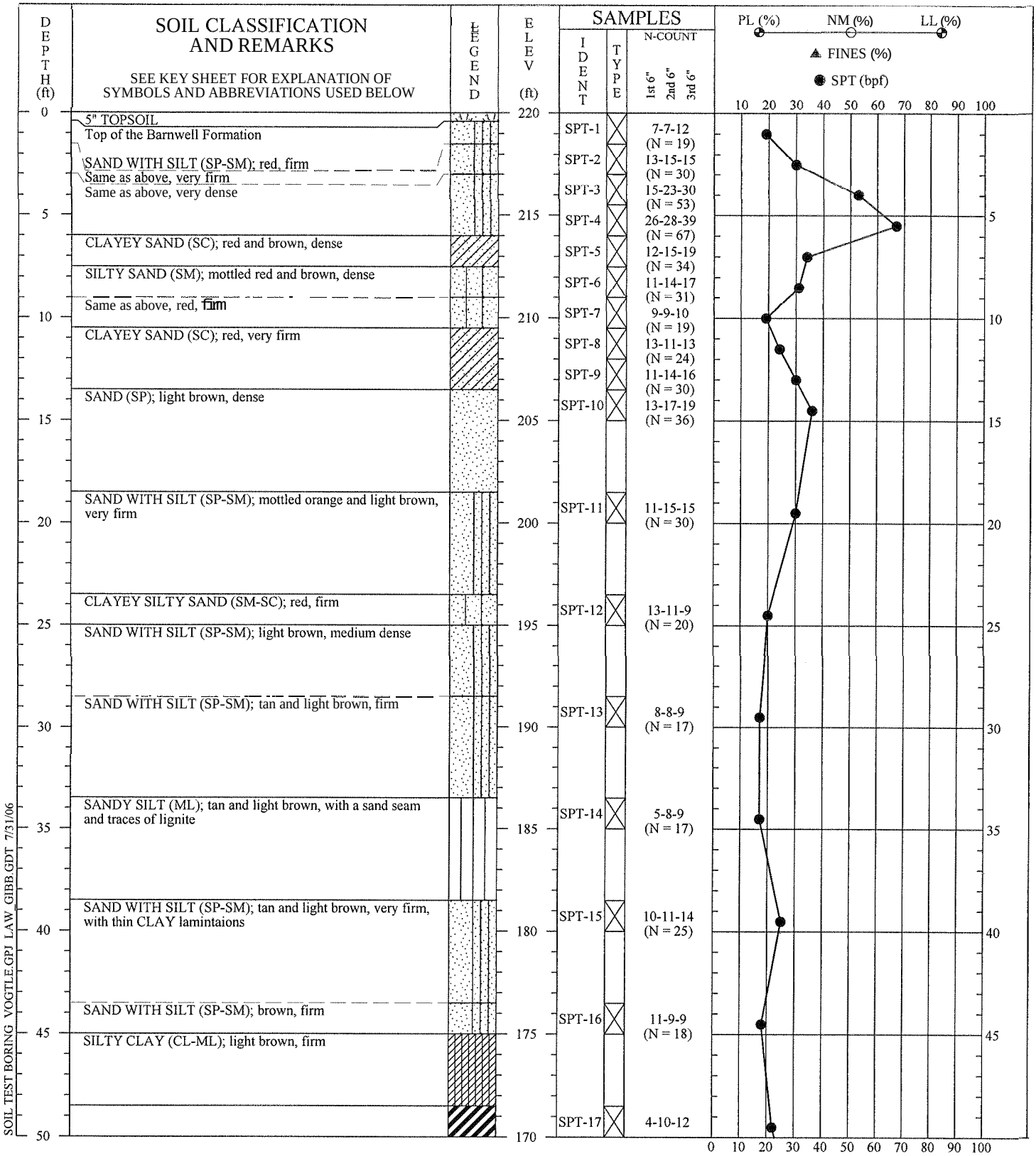
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7662.29, E 7120.13 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 8131105

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

SOIL TEST BORING RECORD

BORING NO.: B-1007
PROJECT: ALWR - ESP
LOCATION: PLANT VOCTLE, BURKE COUNTY, GA
DRILLED: August 30, 2005
PROJECT NO.: 6141-05-0227 **PAGE 3 OF 3**

MACTEC



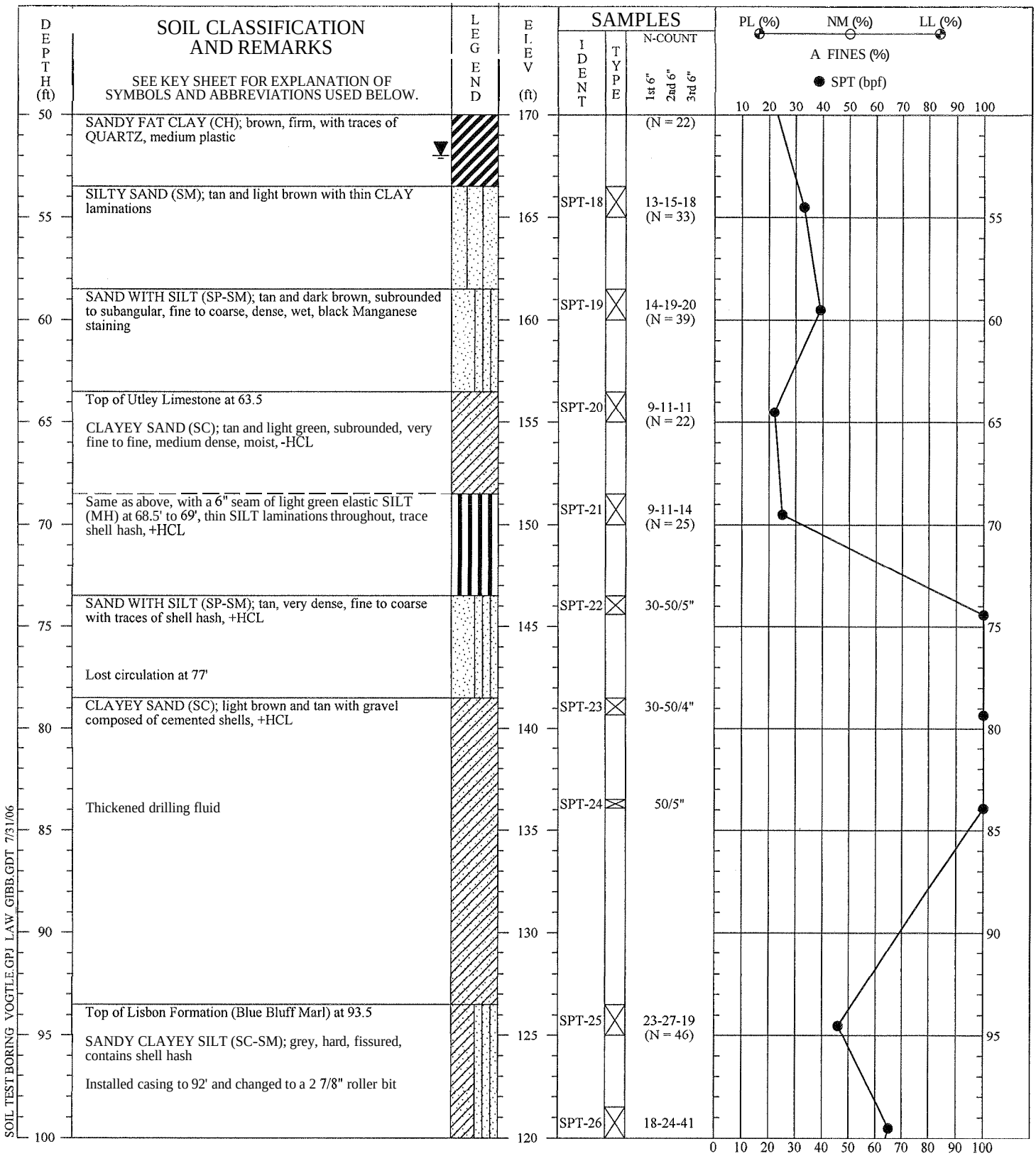
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7670.93, E 7996.15 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/2/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1008
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

MACTEC



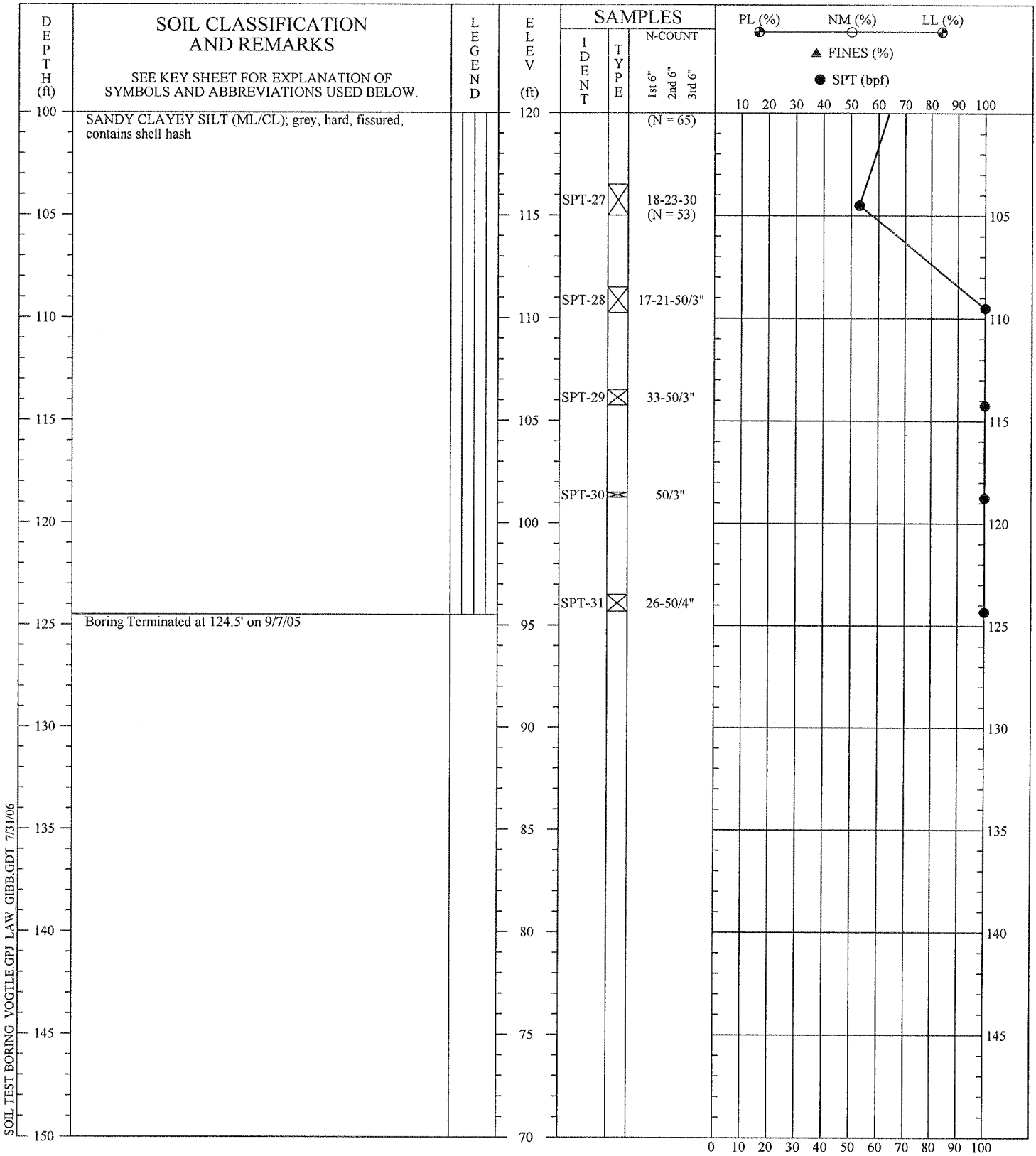
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7670.93, E 7996.15 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with MCL Water depth represents depth of water and mud as measured on 9/2/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1008
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC



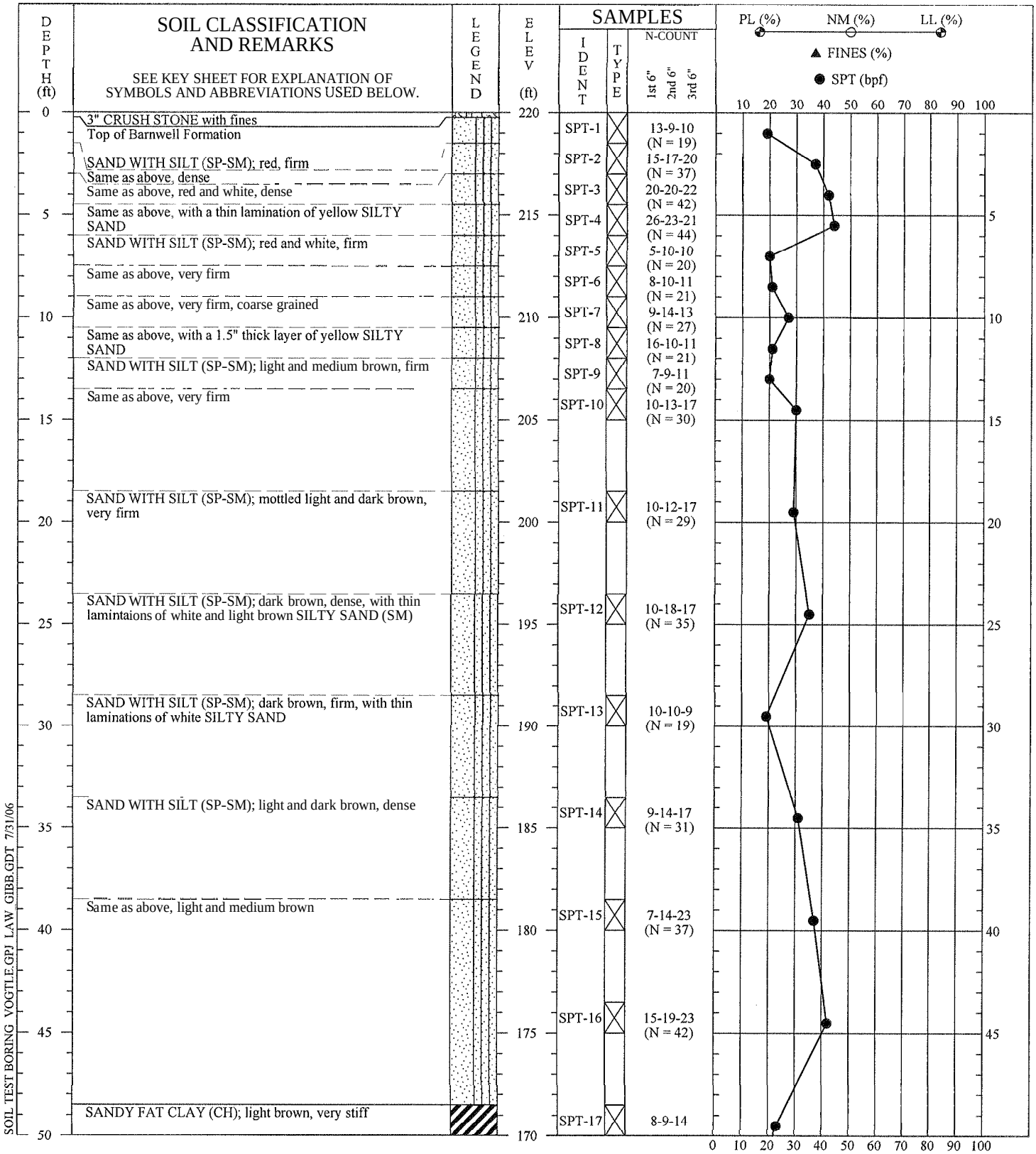
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 7670.93, E 7996.15 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/2/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1008
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY. GA
DRILLED: September 1,2005'
PROJECT NO.: 6141-05-0227

MACTEC



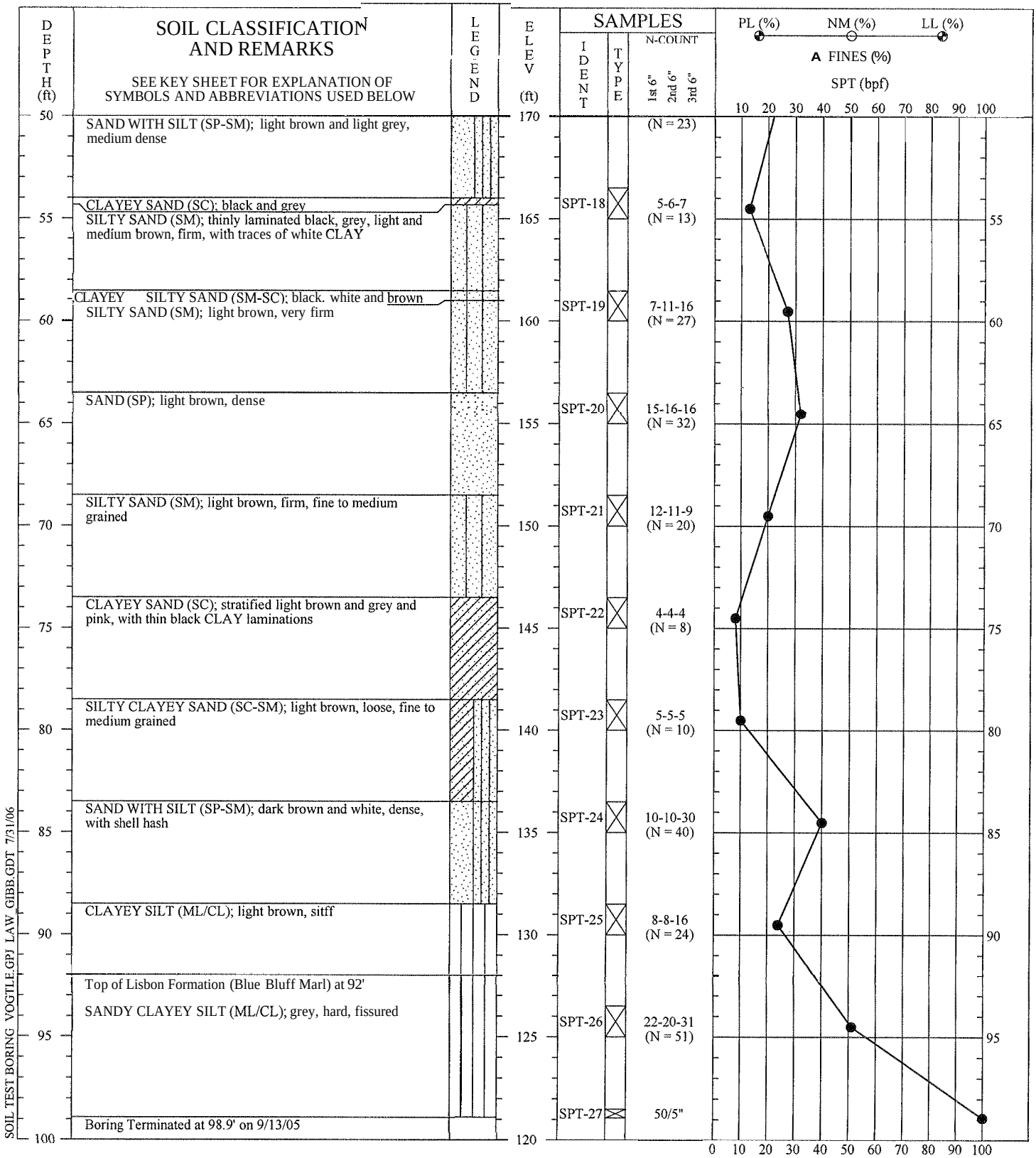
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with 4
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 6000.54, E 6361.26
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1009
PROJECT: **ALWR** - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 13,2005
PROJECT NO.: 6141-05-0227 **PAGE** 1 **OF** 2

MACTEC



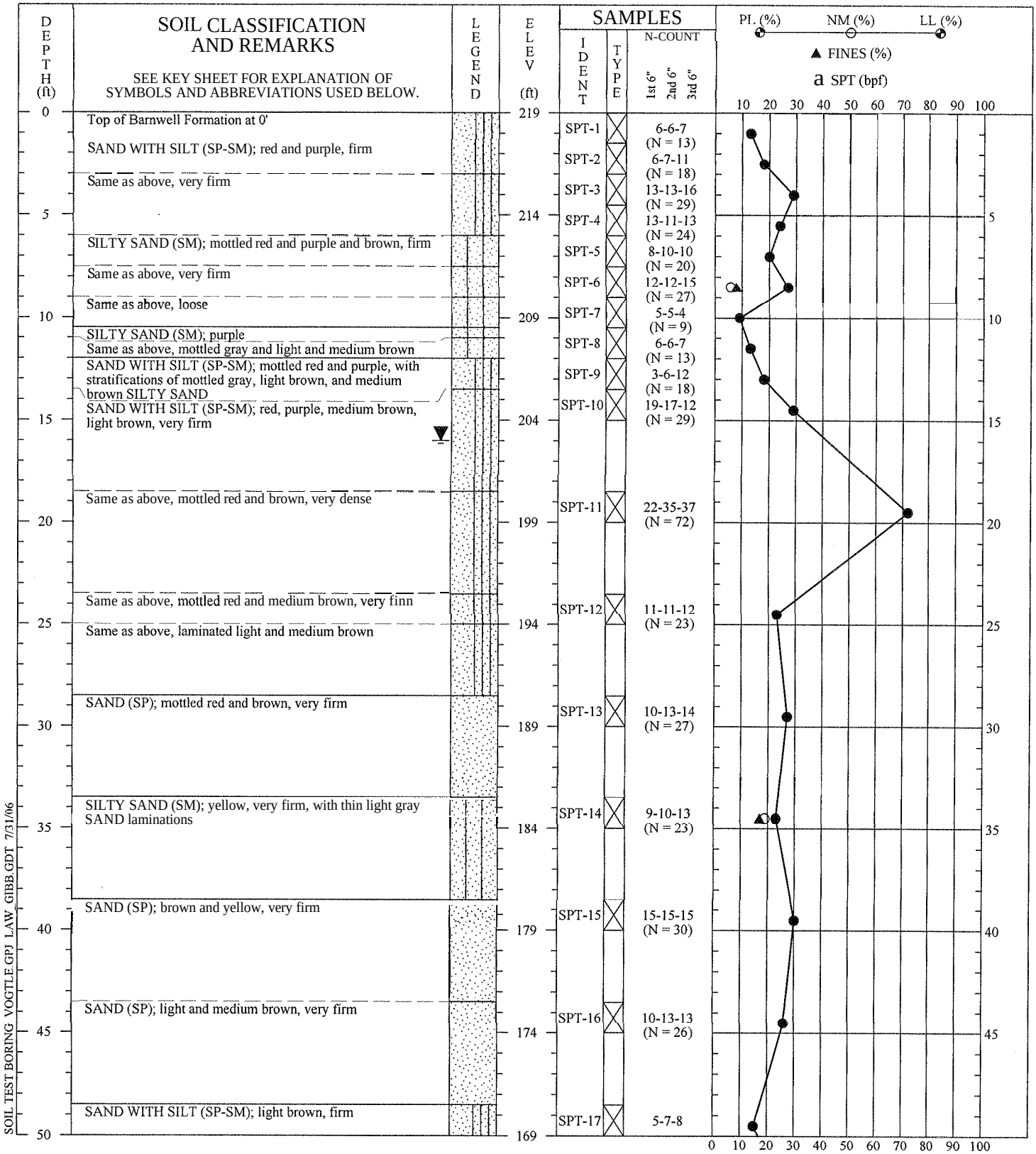
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 6000.54, E 6361.26 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1009
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 13, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 2**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

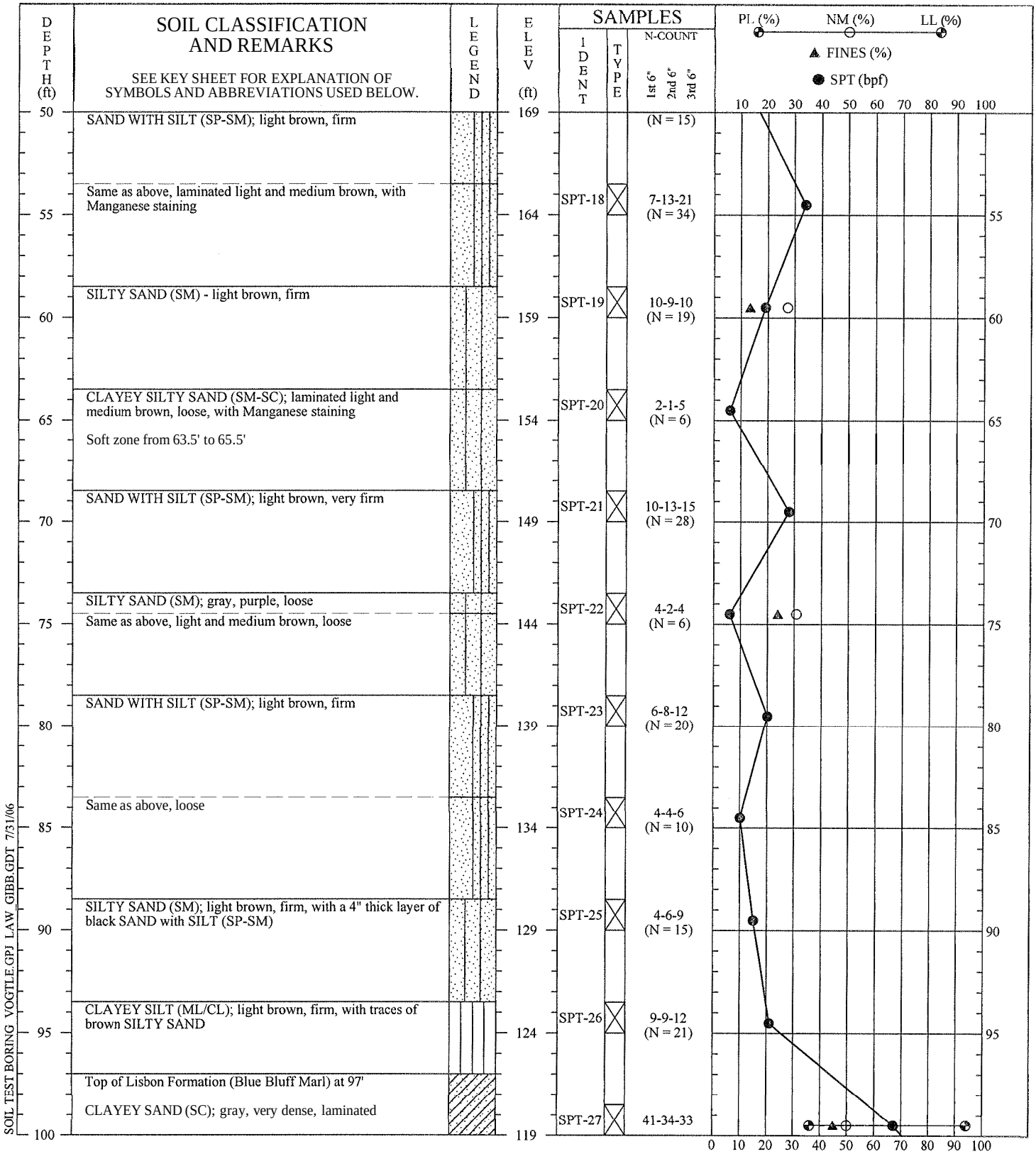
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 6000.12, E 7279.68 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/9/05

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

SOIL TEST BORING RECORD

BORING NO.: B-1010
PROJECT: ALWR - **ESP**
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 8,2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 3**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

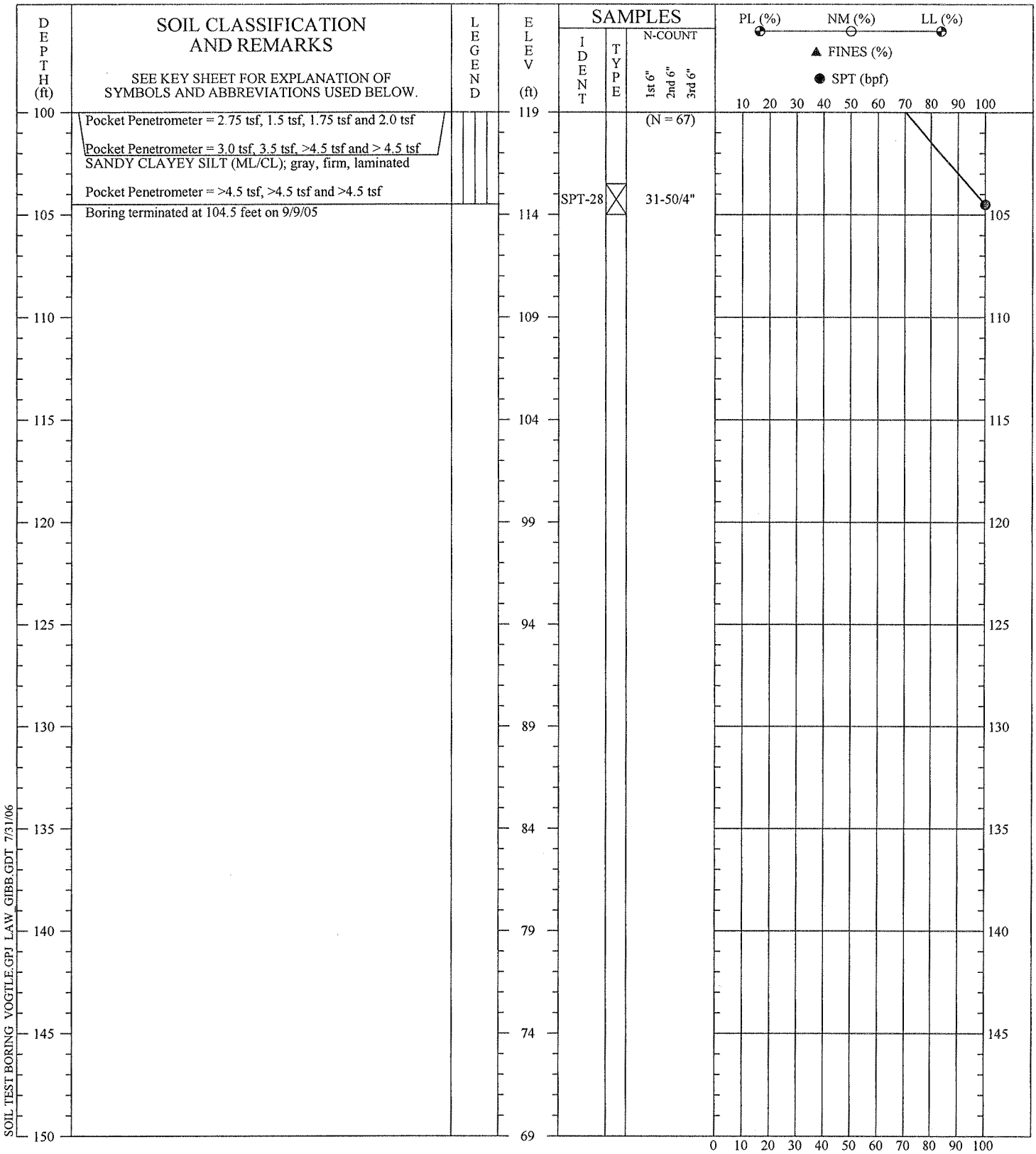
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 6000.12, E 7279.68 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/9/05

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APP 3. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL

SOIL TEST BORING RECORD

BORING NO.: B-1010
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 8, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

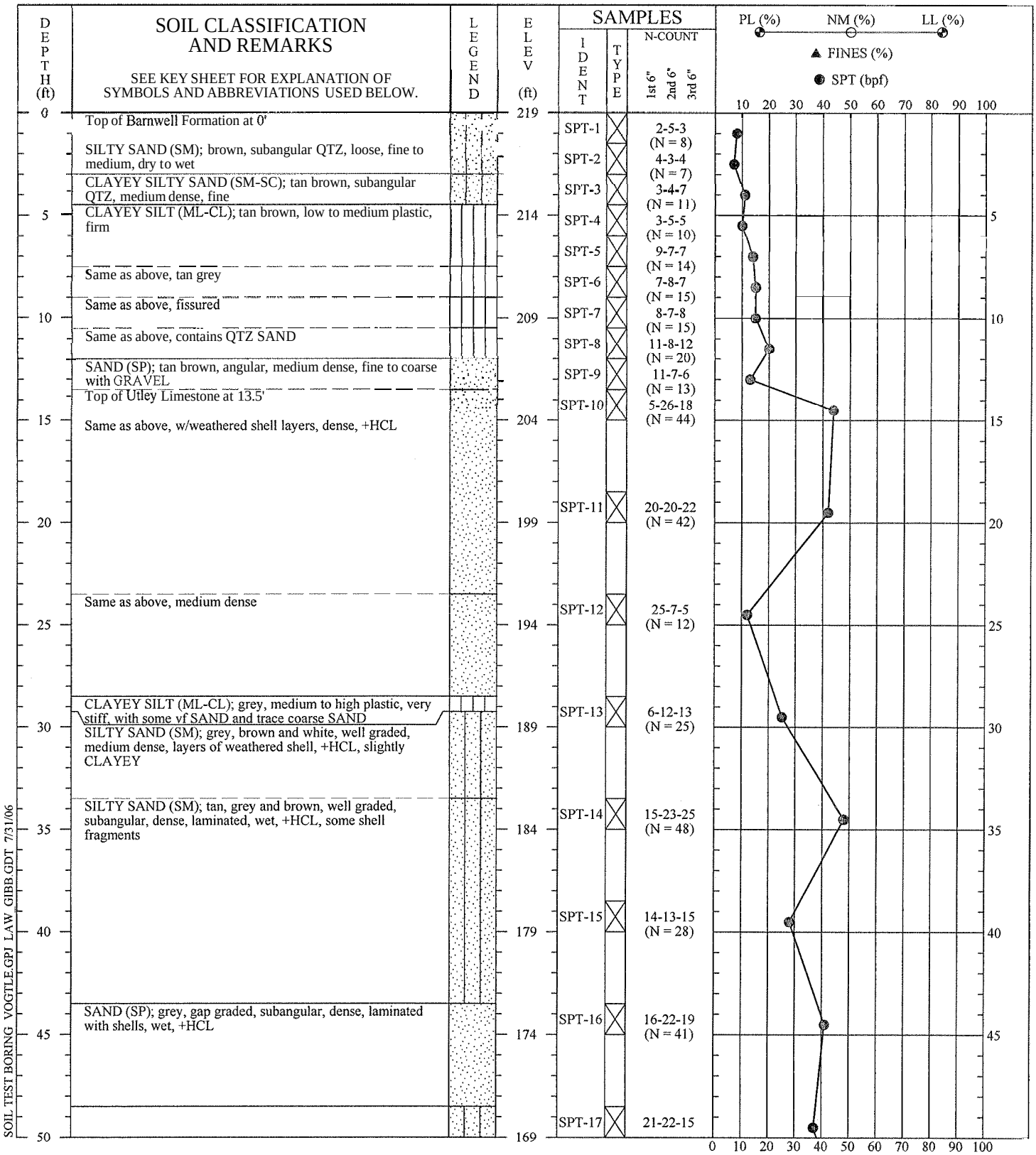
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	**CME-55** (Auto-Hammer)
METHOD:	**Rotary Wash with** Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N **6000.12,** E **7279.68** +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL Water depth represents depth of water and mud as measured on 9/9/05

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

SOIL TEST BORING RECORD

BOWING NO.: B-1010
PROJECT: **ALWR - ESP**
LOCATION: **PLANT VOGTLE,** BURKE **COUNTY, GA**
DRILLED: September 8, 2005
PROJECT NO.: 6141-05-0227 **PAGE** 3 **OF** 3

MACTEC



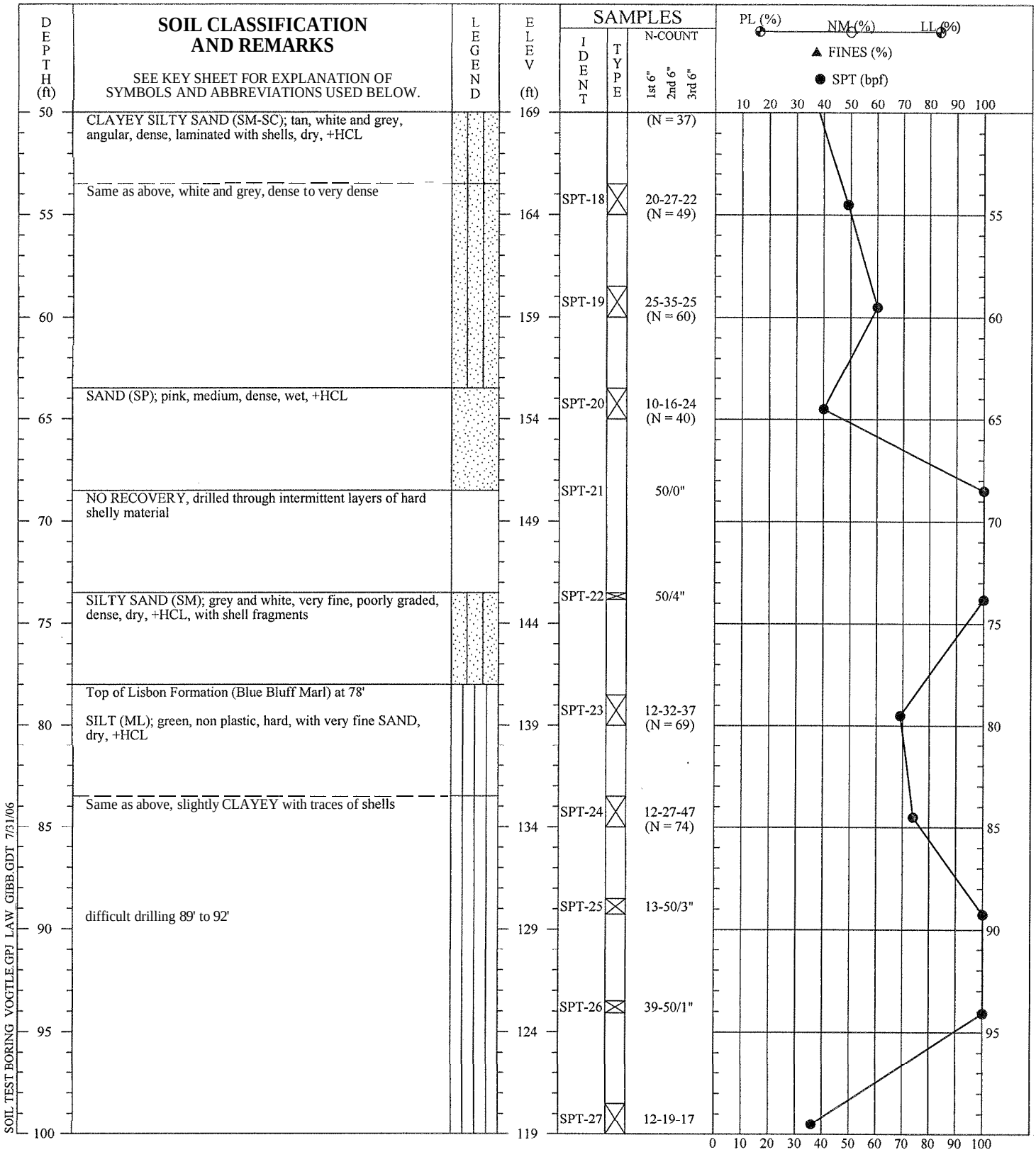
DRILLER: Jimmy Oglesby (MACTEC)
EQUIPMENT: CME-75 (Auto-Hammer)
METHOD: Rotary W: with Mud
HOLE DIA.: 4 inches
REMARKS: Plant Grid: N 8741.13, E 8378.01
+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO,: B-1011
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8741.13, E 8378.01 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1011
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 3**

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS	LEGEND	ELEV (ft)	SAMPLES IDENT	SAMPLES TYPE	SAMPLES N-COUNT 1st 6" 2nd 6" 3rd 6"	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf) 10 20 30 40 50 60 70 80 90 100
100	SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.		119				
	Boring Terminated at 100' on 9/2/05					(N = 36)	
105			114				
110			109				
115			104				
120			99				
125			94				
130			89				
135			84				
140			79				
145			74				
150			69				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

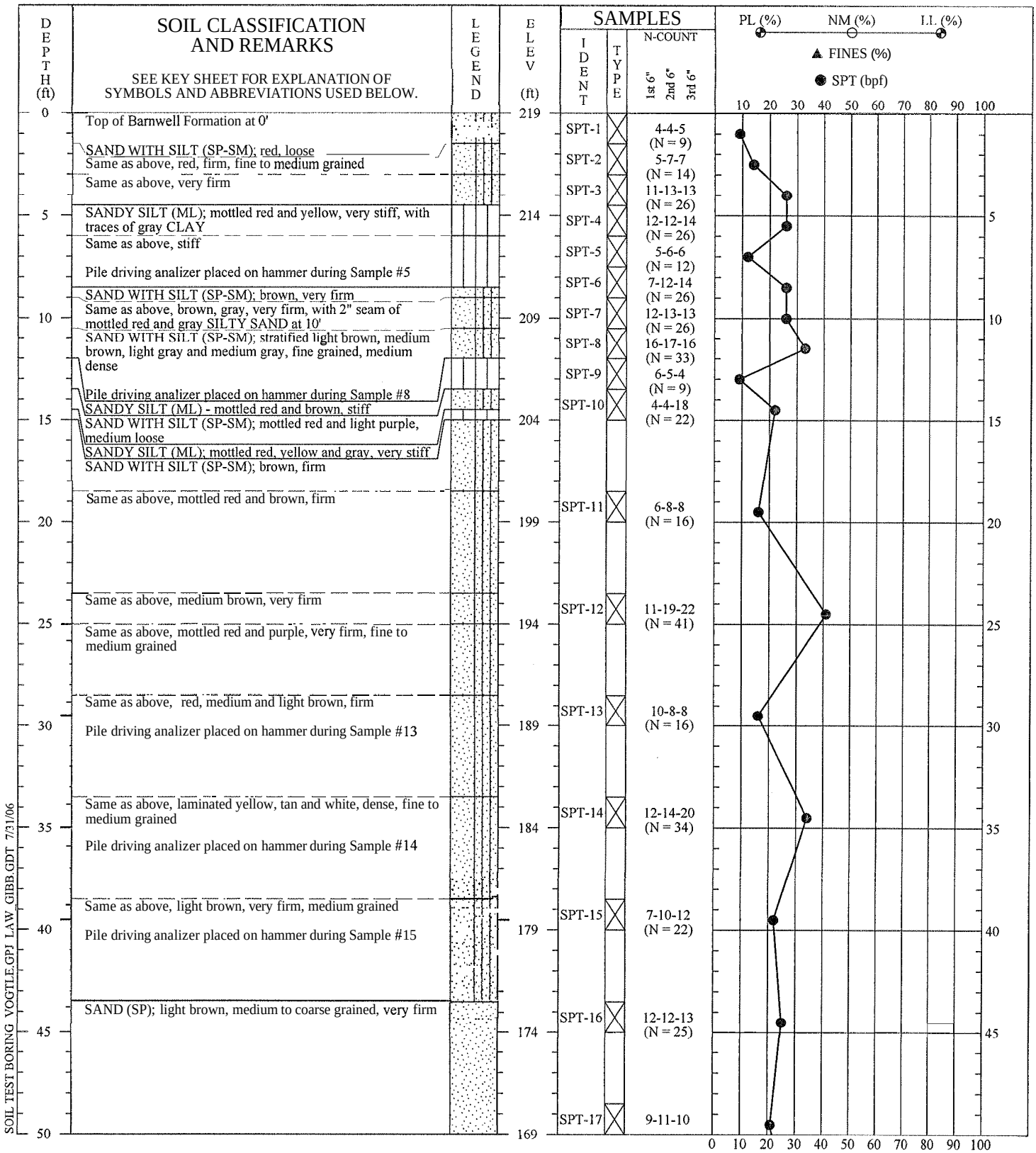
DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 8741.13, E 8378.01 +HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1011
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 1,2005
PROJECT NO.: 6141-05-0227 **PAGE** 3 **OF** 3

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

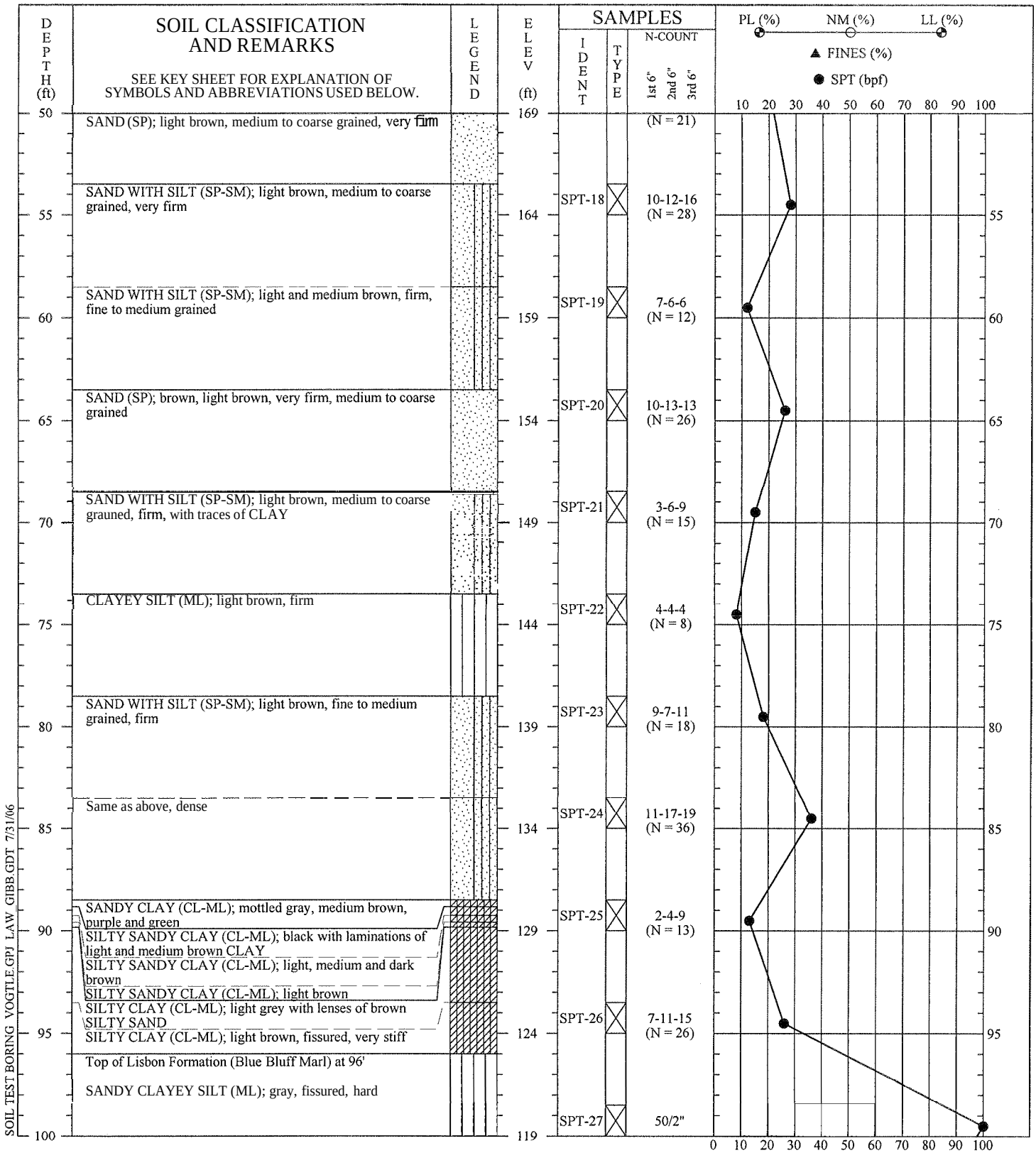
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 5976.08, E 8272.50
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.:	B-1013
PROJECT:	ALWR - ESP
LOCATION:	PLANT VOGTLE, BURKE COUNTY, GA
DRILLED:	September 7,2005
PROJECT NO.:	6141-05-0227

MACTEC



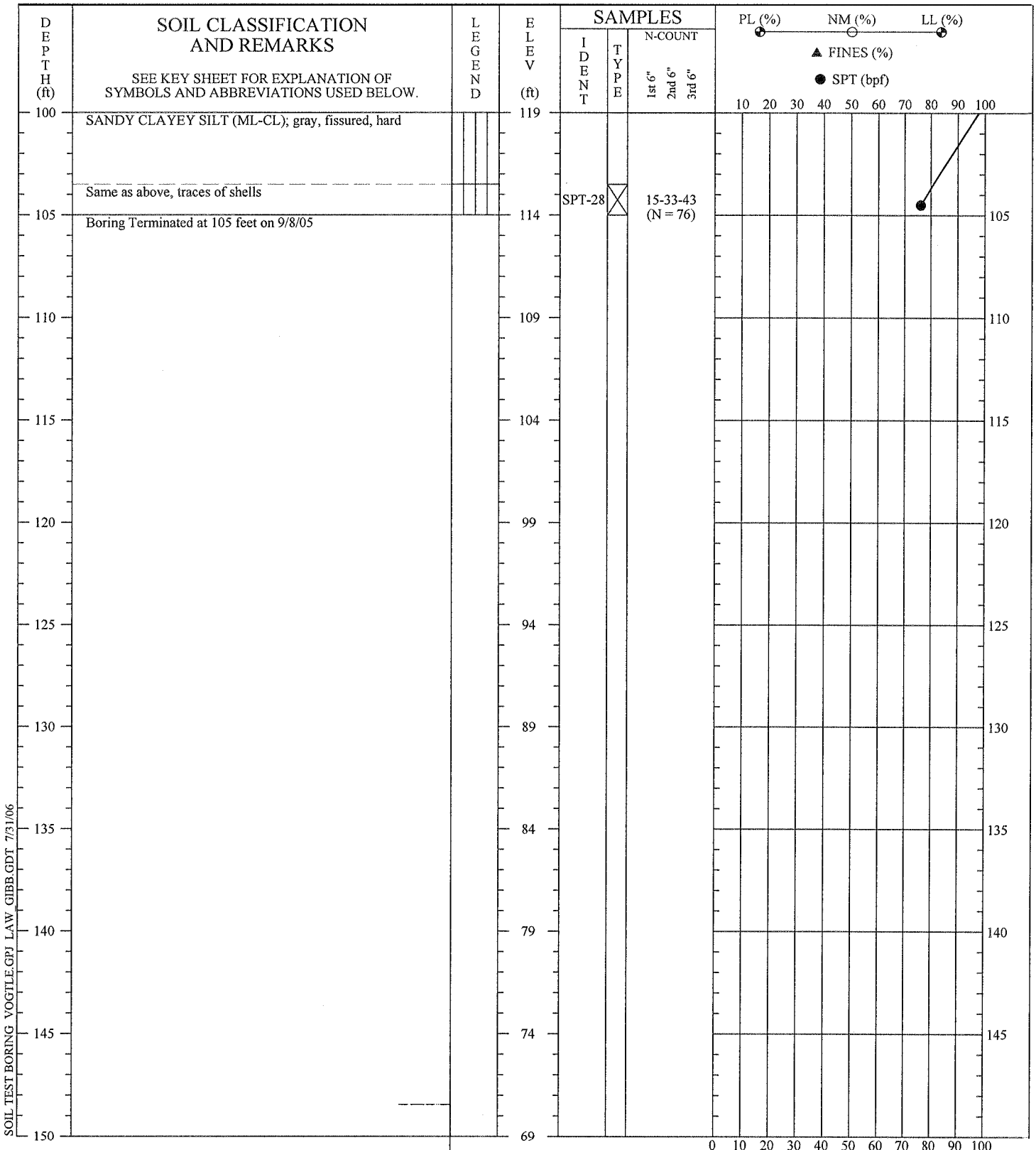
DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 5976.08, E 8272.50
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.: B-1013
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: September 7,2005
PROJECT NO.: 6141-05-0227

MACTEC



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Robert Banks (MACTEC)
EQUIPMENT:	CME-55 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	4 inches
REMARKS:	Plant Grid: N 5976.08, E 8272.50
	+HCL denotes a visible reaction with Hydrochloric Acid (HCL), -HCL denotes no visible reaction with HCL

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

SOIL TEST BORING RECORD

BORING NO.:	B-1013
PROJECT:	ALWR - ESP
LOCATION:	PLANT VOGTLE, BURKE COUNTY, GA
DRILLED:	September 7,2005
PROJECT NO.:	6141-05-0227

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	SAMPLES: TYPE	SAMPLES: N-COUNT (1st 6" / 2nd 6" / 3rd 6")	PL (%) NM (%) LL (%) ▲ FINES (%) ● SPT (bpf)
0	This boring was created for P-S suspension logging No material sampling was performed. Attempted to mud roatary to 60 feet. Added 200 gallons of drilling fluid to fill hole for P-S suspension logging. Logged hole to a depth of **33** feet.		224				10 20 30 40 50 60 70 80 90 100
5			219				5
10			214				10
15			209				15
20			204				20
25			199				25
30			194				30
35			189				35
40			184				40
45			179				45
50	Loss of circulation		174				0 10 20 30 40 50 60 70 80 90 100

SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER: Jimmy Oglesby (MACTEC)
EQUIPMENT: CME-75 (Auto-Hammer)
METHOD: Rotary Wash with Mud
HOLE DIA.: 6 inches
REMARKS: Plant Grid: N 7989.75, E 8179.26
Boring is offset 7 feet SSE from C-1005.

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

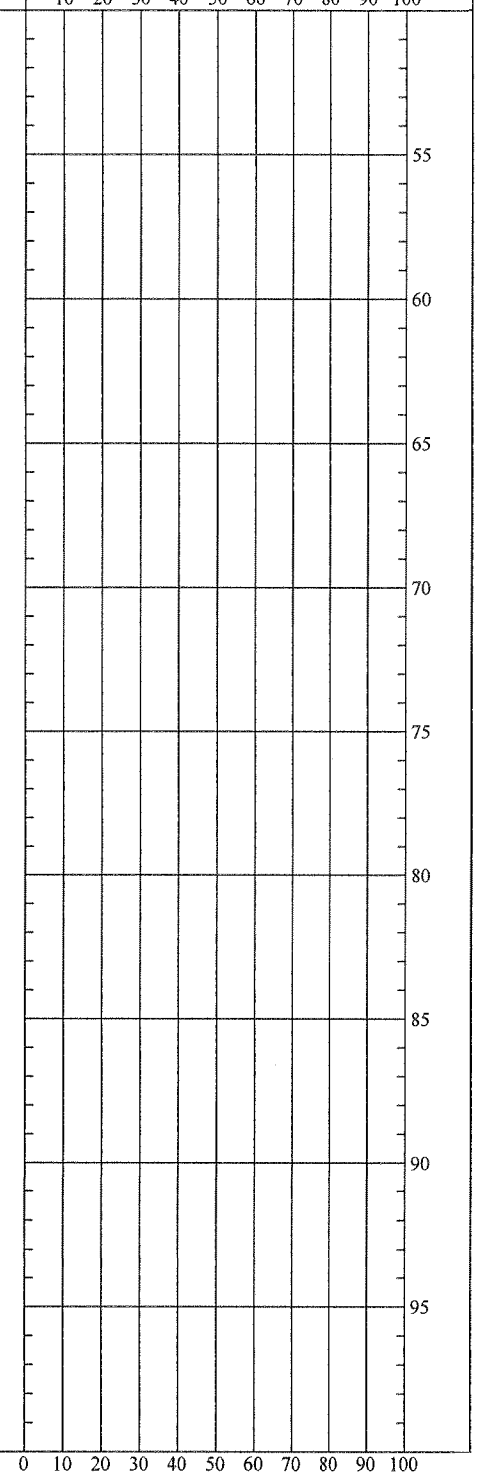
SOIL TEST BORING RECORD

BORING NO.: C-1005A
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: October 6, 2005
PROJECT NO.: 6141-05-0227 **PAGE 1 OF 2**

MACTEC

DEPTH (ft)	SOIL CLASSIFICATION AND REMARKS SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED BELOW.	LEGEND	ELEV (ft)	SAMPLES: IDENT	SAMPLES: TYPE	SAMPLES: N-COUNT (1st 6" / 2nd 6" / 3rd 6")
50			174			
55			169			
60	**Resumed drilling** to 90 feet.		164			
	Loss of circulation. Added bentonite pellets and continued drilling but did not regain circulation. Added 300 gallons of drilling fluid between 63.5 and 81 feet.					
65			159			
70			154			
75			149			
80	Driller noted large shells. Added 100 gallons of drilling fluid between 81 and 90 feet. Probable top of Blue Bluff Marle		144			
85			139			
90	Added100 gallons of drilling fluid at 90 feet. P-S suspension logging was not performed due to presence of cuttings in bore hole and the large shell bed at 81 feet. Boring terminated at 90 feet on 10/6/05.		134			
95			129			
100			124			

PL (%) NM (%) LL (%)
▲ FINES (%)
● SPT (bpf)
10 20 30 40 50 60 70 80 90 100



SOIL TEST BORING VOGTLE.GPJ LAW_GIBB.GDT 7/31/06

DRILLER:	Jimmy Oglesby (MACTEC)
EQUIPMENT:	CME-75 (Auto-Hammer)
METHOD:	Rotary Wash with Mud
HOLE DIA.:	6 inches
REMARKS:	Plant Grid: N 7989.75, E 8179.26 Boring is offset 7 feet SSE from C-1005

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

SOIL TEST BORING RECORD

BORING NO.: C-1005A
PROJECT: ALWR - ESP
LOCATION: PLANT VOGTLE, BURKE COUNTY, GA
DRILLED: October 6, 2005
PROJECT NO.: 6141-05-0227 **PAGE 2 OF 2**

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