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TABLE 5

SUMMARY OF LABORATORY TEST RESULTS

PROJECT: Port Arthur Waterway
AEC 270-94
Contract No. DACW-64-94-M-0608

BORING NO. 94-31

S #	Depth (Feet)	PP (tsf)	SPT Blows per Foot	Visual Classification	MC (%)	UDW (pcf)	LL (%)	PL (%)	Mechanical Analysis % Passing					Torvane (tsf)	QU (tsf)
									#4	#10	#40	#100	#200		
1	0 - 2	0		Gray organic clay (OH) w/shell	85										
2	2 - 4	0		Gray organic clay (OH) w/shell	102									0.06	
3	4 - 6	0		Gray organic clay (OH) w/shell	84	39	78	29							
4	6 - 8	0		Gray organic clay (OH) w/ferrous nodules	92										
5	8 - 10	0		Gray organic clay (OH) w/decomposed plant	106										
6	10 - 12	0		Gray organic clay (OH) w/decomposed plants	93									0.13	
7	12 - 14	0		Gray organic clay (OH) w/decomposed plant	95										
8	14 - 16	0		Gray organic clay (OH) w/decomposed plant	166										
9	16 - 18	0		Gray organic clay (OH) w/decomposed plant	96	50	105	33	99.6	99.5	99.3	99.0	97.8	0.08	
10	18 - 20	0		Gray organic clay (OH)	78									0.14	
11	20 - 22	0		Gray organic clay (OH)	77										
12	22 - 24	0		Gray organic clay (OH) w/shell	71									0.16	
13	24 - 26	0		Gray organic clay (OH) w/shell & sand seams	65										
14	26 - 28	0		Gray organic clay (OH)	87										
15	28 - 30	0		Gray organic clay (OH)	58										
16	30 - 32	0		Gray organic clay (OH)	67										
17	32 - 34	0		Gray organic clay (OH) w/decomposed plant	107										

S#: Sample Number; PP: Pocket Penetrometer Reading; MC: Moisture Content; QU: Unconfined Compressive Strength

JUL - 22 - 94 FRI 15:03

TABLE 5 (continued)

SUMMARY OF LABORATORY TEST RESULTS

PROJECT: Port Arthur Waterway
 AEC 270-94
 Contract No. DACW-64-94-M-0608

BORING NO. 94-31

S #	Depth (Feet)	PP (tsf)	SPT Blows per Foot	Visual Classification	MC (%)	UDW (pcf)	LL (%)	PL (%)	Mechanical Analysis % Passing					Torvane (tsf)	QU (tsf)
									#4	#10	#40	#100	#200		
18	34 - 36	0		Gray organic clay (OH) w/silt seam & decomposed plant	79										
19	36 - 38	0		Gray organic clay (OH) w/decomposed plant	135										
20	38 - 40	0		Gray organic clay (OH) w/decomposed plant	171										
21	40 - 42	0.25		Gray sandy clay (CL)	26									0.09	
22	42 - 44	0.50		Gray sandy clay (CL)	26									0.10	
23	44 - 46	0.50	med	Gray sandy clay (CL)	27	95	37	19	100	100	100	99.5	90.9		0.53
24	46 - 48	0.25		Tan & gray sandy clay (CL) w/sand seams	23									0.09	
25	48 - 50	3.50		Tan & gray sandy clay (CL)	21										
26	50 - 52	2.50	very stiff	Tan & gray sandy clay (CL)	19	112	26	13	100	99.9	99.3	95.9	83.1		1.93

S#: Sample Number; PP: Pocket Penetrometer Reading; MC: Moisture Content; QU: Unconfined Compressive Strength

REVIEWED BY: _____ DATE _____
DATE _____

SUMMARY OF QUESTIONABLE
ERRONEOUS OR MISSING DATA
FOR

PROJECT: LABORATORY TESTING OF SOILS SAMPLES, CONTRACT NO. DACW64-93-M-0299 (GIWW - PT. ATRHUR)

BORING NO. SAMPLE NO. COMMENTS ON TEST RESULTS

Only one test was not performed - Borings No., 94-32, sample 3, Unconfined Compression Test was not performed because the contractor stated the sample was too short.

Boring 94-27	1	Description on Plate 2 indicates shell from samples 1 - 12, but it is only listed on sample 1,5,7,8,& 12 on Table 1.
	14-16	Plate 2 and Table 1 do not agree on description, should be either Sandy Silt or Silt w/sand Moisture contents are given but not ordered.
94-28	1	Table 2 states w/shell from 0-2 feet, Plate 3 does not.
	15	Table 2 states w/ferrous nodules from 28-30 feet, Plate 3 does not.
	20-23	Plate 3 states w/calcareous nodules, ferrous nodules & sand seams Table 2 does not show the sand seams for sample 20 or the calcareous and ferrous nodules for sample 23
	22	Plate 3 states slickensided below 50 feet. Table 2 shows slickensided from 48-50 and 50-52 feet.
94-30	9	Table 4 states w/shell from 16-22 feet, Plate 5 states shell from 18-22 feet.
94-31	1	Plate 6, beginning description should state w/shell 0-6 feet to agree with Table 5.
	3	Plastic limit performed not ordered,
	18	Table 5 states w/silt seams & decomposed plants, (Plate 7) states silt seams but not decomposed plants Plate 6 is for boring 94-31
94-32	22	Table 6 states LL 188, Plate 7 shows no LL value

PROJECT: Port Authur Waterway

BORING 94-31

DATE MAY 25, 1994

TYPE 3" CORE

LOCATION SEE PLAN

PROJECT NO. 270-94

DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS/FOOT	M.C. %	U.D.W. PCF	COMPRESSION STRENGTH, TSF				-200 MESH	LIQUID LIMIT	PLASTIC LIMIT
							☐ POCKET PENETROMETER ☐ CONFINED COMPRESSION ☐ UNCONFINED COMPRESSION ☐ TORVANE	0.5	1	1.5	2		
0			Elevation: -										
0			Very soft Gray Organic (OH) w/shell		85								
4					102								
4			W/ferrous nodules @ 6'-8'		84	39						78	(29) NOT ORDERED
8			W/decomposed plant @ 8'-18'		92								
8					106								
12					93								
12					95								
16					166								
16					96	50					98	105	33
20					78								
20					77								
24			W/shell @ 22'-26'		71								
24			W/sand seams @ 24'-26'		65								
28					87								
28					58								
32			W/decomposed plant @ 32'-34'		67								
32					107								
36			W/silt seams @ 34'-36'		79								
36			W/decomposed plant below 36'		135								
40					171								
40			Very soft gray Sandy Clay (CL)		26								

BORING DRILLED TO _____ FEET WITHOUT DRILLING FLUID

WATER ENCOUNTERED AT _____ FEET WHILE DRILLING

WATER LEVEL AT _____ FEET AFTER _____ HOURS

DRILLED BY _____ DG CHECKED BY _____ OL LOGGED BY _____ WS

ENGINEERING CORP.
GEOTECHNICAL ENGINEERS

PROJECT: Port Authur Waterway

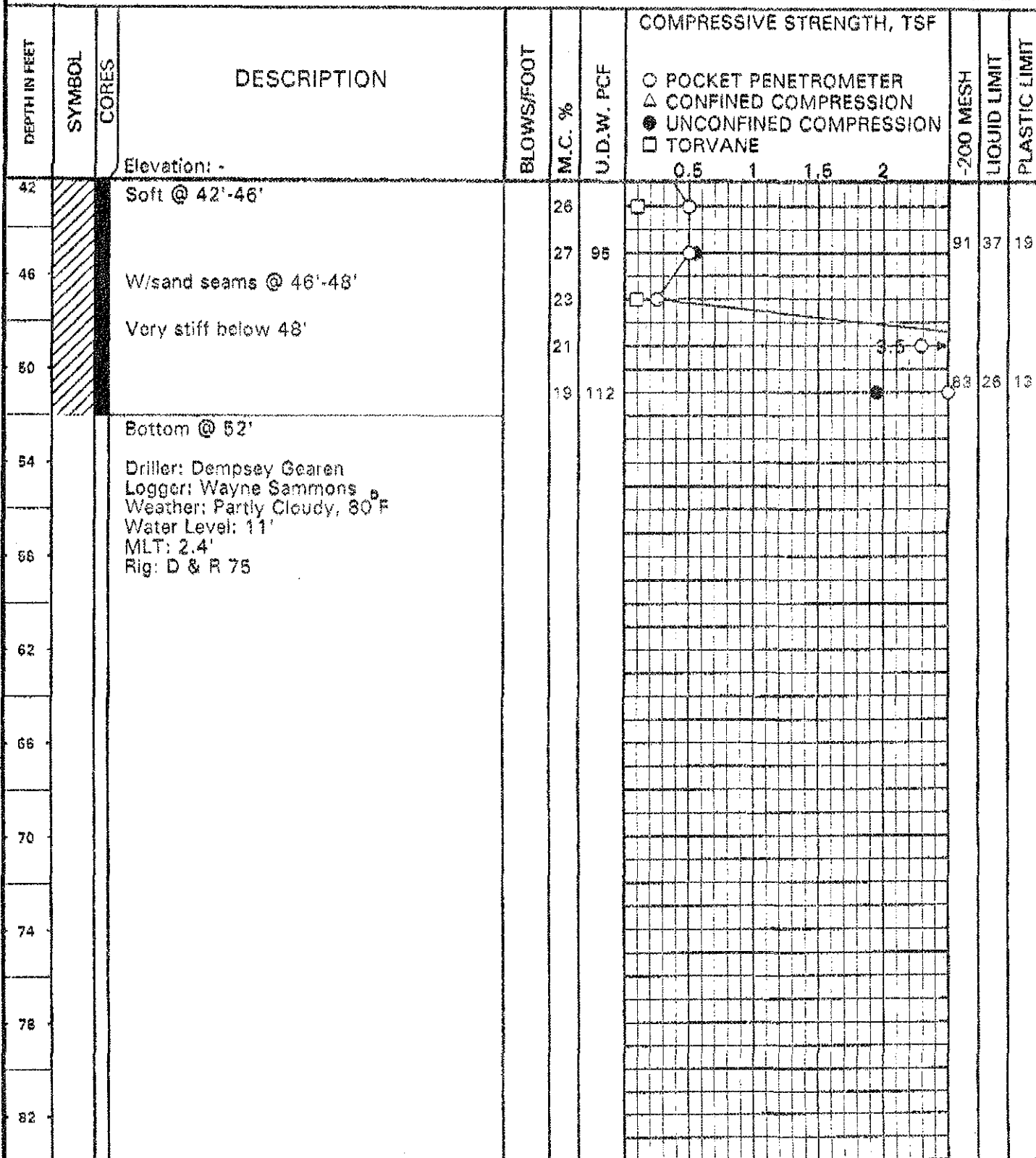
BORING 94-31

DATE MAY 25, 1994

TYPE 3" CORE

LOCATION SEE PLAN

PROJECT NO. 270-94



BORING DRILLED TO _____ FEET WITHOUT DRILLING FLUID

WATER ENCOUNTERED AT _____ FEET WHILE DRILLING

WATER LEVEL AT _____ FEET AFTER _____ HOURS

DRILLED BY _____ DG CHECKED BY _____ QL LOGGED BY _____ WS

LOG OF BORING

PROJECT: Port Arthur
FOR:

BORING NO: 94-31
LOCATION:

DATE: 5-25-94 JOB NO: BORING TYPE 3" Core
DRILLER: Dempsey Green REPORT NO. GROUND ELEV.:

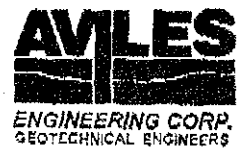
Depth in Feet	Sample Type & No.	Symbol	Elevation in Feet	Blows / Foot	LEGEND	
					S-Shelby Tube	D-Denison Barrel
					P-Penetration Test	J-Jar
					■ - Core	☒ - Penetration Sample
					☐ - No Recovery	
					▽ - Static Water Table	▼ - Hydrostatic Water Table
PEN.						DESCRIPTION OF STRATUM
	S-1			0		Very Soft L.G. SiCL Jar Sample
	S-2			0		Very Soft L.G. SiCL Jar Sample
5	S-3			0		Very Soft L.G. SiCL Jar Sample
	S-4			0		Very Soft L.G. SiCL Jar Sample
	S-5			0		Very Soft Li. Gr. SiCL w/wood
10	S-6			0		Very Soft Li. Gr. SiCL w/wood
	S-7			0		Very Soft Li. Gr. SiCL w/wood
15	S-8			0		Very Soft Li. Gr. SiCL w/wood
	S-9			0		Very Soft Li. Gr. SiCL
	S-10			0		Very Soft Li. Gr. SiCL
20	S-11			0		Very Soft Li. Gr. SiCL
	S-12			0		Very Soft Li. Gr. SiCL
25	S-13			0		Very Soft Li. Gr. SiCL
	S-14			0		Very Soft Li. Gr. SiCL Jar Sample
	S-15			0		Very Soft Li. Gr. SiCL
30	S-16			0		Very Soft Li. Gr. SiCL
	S-17			0		Very Soft D. Gr. SiCL w/wood
35	S-18			0		Very Soft D. Gr. SiCL w/wood
	S-19			0		Very Soft D. Gr. SiCL w/wood
	S-20			0		Very Soft D. Gr. SiCL w/wood
40	S-21			.25		Very Soft Li. Gr. SiCL
	S-22			.50		Soft Li. Gr. SiCL
45	S-23			.50		Soft Li. Gr. SiCL

2/2

BORING NO: 94-31
LOCATION:

GROUND ELEV.: _____

						LEGEND				
Depth in Feet		Sample Type & No.	Symbol	Elevation in Feet	Blows / Foot	S-Shelby Tube	D-Danison Barrel	P-Penetration Test	J-Jar	
						■ - Core	☒ - Penetration Sample	☐ - No Recovery		
						▽ - Static Water Table	▼ - Hydrostatic Water Table			
						PEN	DESCRIPTION OF STRATUM			
		S-24			.25	Very soft Li. G. CL Si				
- 50 -		S-25			3.50	Very stiff Li. G. CL Si				
		S-26			2.50	Very stiff Li. G. CL Si				
- 55 -						Rig: D & R 75 Driller: Dempsey Greener Logger: Wayne Sammons, Weather: Partly cloudy, 80°F MLT: +2.4' Water Level: 11'				



PROJECT: Port Authur Waterway

BORING 94-31

DATE MAY 25, 1994

TYPE 3" CORE

LOCATION SEE PLAN

PROJECT NO. 270-94

DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS/FOOT	M.C. %	U.D.W. PCF	COMPRESSIVE STRENGTH, TSF				200 MESH	LIQUID LIMIT	PLASTIC LIMIT
							○ POCKET PENETROMETER	△ CONFINED COMPRESSION	● UNCONFINED COMPRESSION	□ TORVANE			
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					106								
12					93								
					95								
16					166								
					96	50					98	105	33
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WATER ENCOUNTERED AT _____ FEET WHILE DRILLING

WATER LEVEL AT _____ FEET AFTER _____ HOURS

DRILLED BY DG CHECKED BY OL

LOGGED BY WS

PROJECT NO. 270-94

PROJECT: Port Authur Waterway

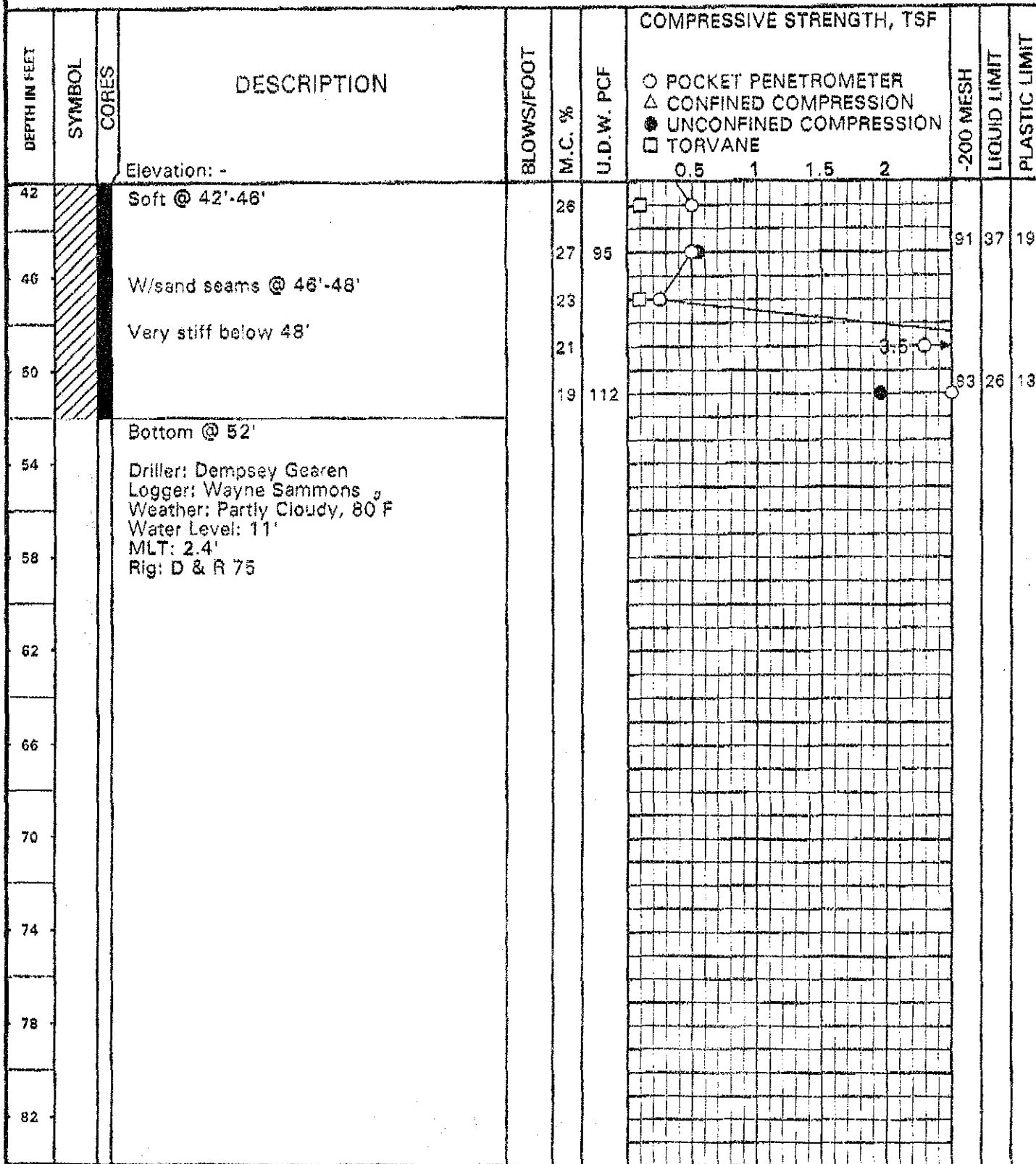
AVILES
 ENGINEERING CORP.
 GEOTECHNICAL ENGINEERS

BORING 94-31

DATE MAY 25, 1994

TYPE 3" CORE

LOCATION SEE PLAN



BORING DRILLED TO _____ FEET WITHOUT DRILLING FLUID

WATER ENCOUNTERED AT _____ FEET WHILE DRILLING

WATER LEVEL AT _____ FEET AFTER _____ HOURS

DRILLED BY DG CHECKED BY QL LOGGED BY WS

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Contract No. DACW-64-94-M-0608

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TABLE 5 (continued)

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S#: Sample Number; PP: Pocket Penetrometer Reading; MC: Moisture Content; QU: Unconfined Compressive Strength

TABLE 5 (continued)

SUMMARY OF LABORATORY TEST RESULTS

Port Arthur Waterway

3C 270-94

Contract No. DACW-64-94-M-0608

BORING NO. 94-31

PP (tsf)	SPT Blows per Foot	Visual Classification	MC (%)	UDW (pcf)	LL (%)	PL (%)	Mechanical Analysis % Passing					Torvane (tsf)	QU (tsf)
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0		Gray organic clay (OH) w/decomposed plant	171										
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0.50		Gray sandy clay (CL)	27	95	37	19	100	100	100	99.5	90.9		0.53
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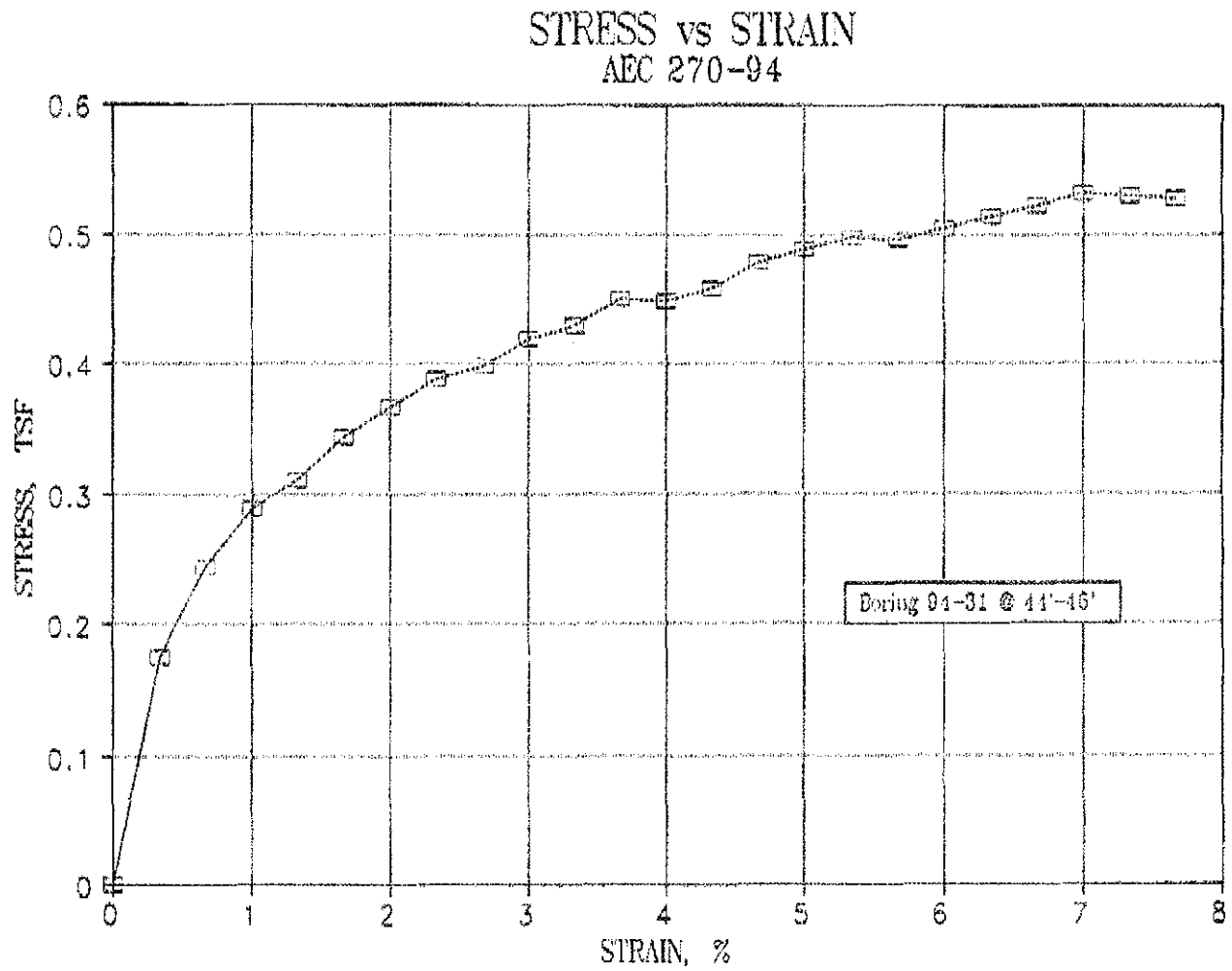
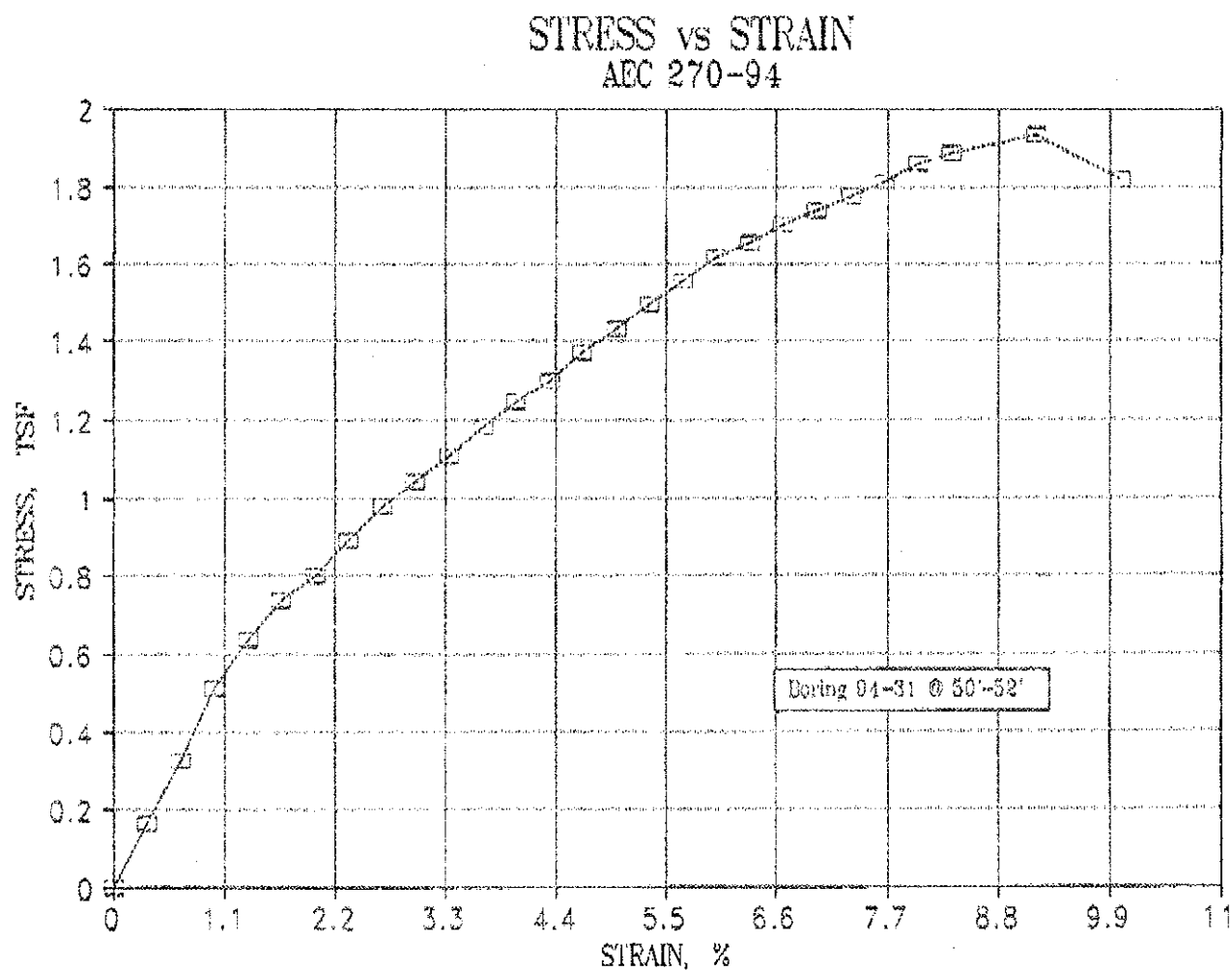


FIGURE 11

**FIGURE 12**