Sheet1

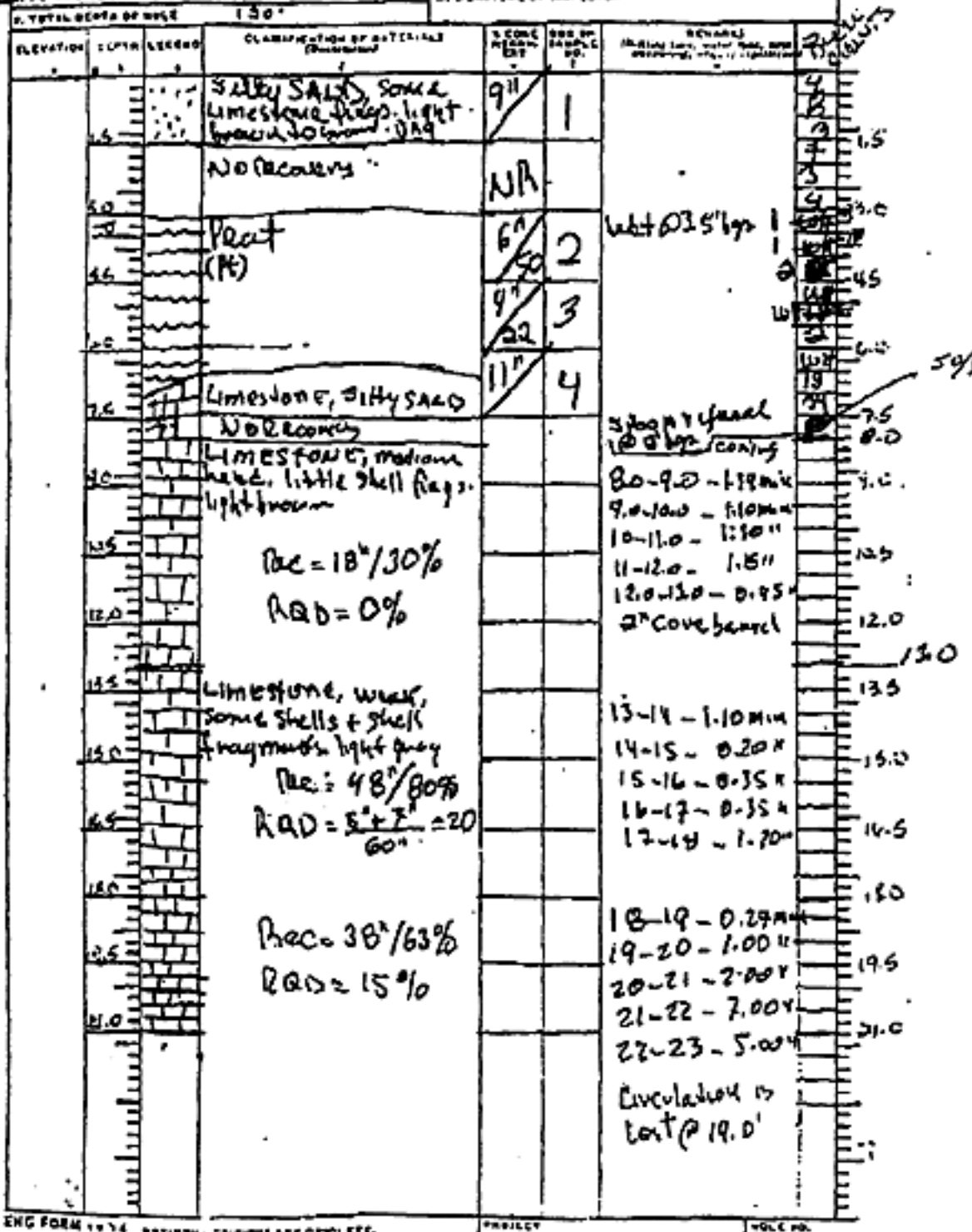
Recharge Test Data Record										
Core Boring Number CB-RS-5-5										
Date Of Test 10/27/99										
Test Performed by Nathan Bryan										
Ground Water Level 3.08 - ft. bgs										
Casing Size 3.0-inches										
Casing Depth 125.0 - ft.										
Hole Diameter at point of test 3.0 - inches										
				A	B		C	D	E	F
From Depth Elevation	To Depth Elevation	Time Start	Time Stop	Total Time	Depth to Ground Water before test	Depth to Ground Water after test	Stickup above Ground	Total Head	Total Water Injected	Gallons Per Minute
Feet (bgs)	Feet (bgs)	Min	Min	Min	Feet	Feet	Feet	Feet B+C	Gal	GPM E/A
125.0	130.0	0	5	5	3'1"	3'5"	5.0	8'1"	60	12

NOTES:
1. Record water take with the water maimained at the top of casing.
2. Water depth must be measured immediately before the recharge test.
3. Water depth shall be recorded after test, and noted if changed.
4. Typical test time is 5 minutes.

Encl - 11

DRILLING LOG

1. PROJECT	CSE "S"
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	Law Engineering / U.S. Drilling
4. HOLE NO. (As shown on drawing title and file number)	CB-5-5
5. NAME OF DRILLER	W. Candelaria
6. DIRECTION OF HOLE	☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	3.5
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	130'
10. INSTALLATION	Jacksonville District
11. SIZE AND TYPE OF BIT	
12. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
13. MANUFACTURER'S DESIGNATION OF DRILL	CME-55
14. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
15. TOTAL NUMBER CORE BOXES	
16. ELEVATION GROUND WATER	
17. DATE HOLE	STARTED 10/21/99 COMPLETED
18. ELEVATION TOP OF HOLE	
19. TOTAL CORE RECOVERY FOR BORING	%
20. SIGNATURE OF INSPECTOR	



ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	Blows/6 in.
	1.5		Silty SAND, some limestone frags. light brown to brown. DRY	9"	1		4, 8, 3
	5.0		No Recovery	NR			7, 3, 4
	6.0		Peat (Pt)	6"/50	2	Wet @ 3.5' bgs	1, 1, 2, 10
	6.5			9"/22	3		10, 12, 10
	7.5		Limestone, silty SAND	11"	4		19, 24
			No Recovery			Stopped refusal @ 8' bgs / coring	
	9.0		LIMESTONE, medium hard, little shell frags. light brown			8.0-9.0 - 1.19 min 9.0-10.0 - 1.10 min 10-11.0 - 1.30" 11-12.0 - 1.15" 12.0-13.0 - 0.45" 2" Core barrel	
	10.5		Rec = 18"/30% RQD = 0%				
	12.0						
	13.5		Limestone, weak, some shells + shell fragments, light gray			13-14 - 1.10 min 14-15 - 0.20" 15-16 - 0.35" 16-17 - 0.35" 17-18 - 1.70"	
	15.0		Rec = 48"/80% RQD = $\frac{5"+7"}{60"}$ = 20				
	16.5						
	18.0		Rec = 38"/63% RQD = 15%			18-19 - 0.29 min 19-20 - 1.00" 20-21 - 2.00" 21-22 - 7.00" 22-23 - 5.00"	
	19.5						
	21.0					Circulation is lost @ 19.0'	

50/6"

13.0

ENG FORM 1836 PROJECT HOLE NO.

DRILLING LOG (Core Sheet) Hole No. CB-S-5

CSF "S" Jacksonville Outpost

Limestone, weak, sand filled solution holes, light brown to white, some shells + shell frags.

Rec = 26"/43%
RQD = 0%

Rec = 48"/80%
RQD = 33%

Rec = 48"
RQD = 17%

Rec. = 36"/60
RQD = 0%

RQD = ~~0%~~ 57%
Rec. = 7"/
Limestone, weak.

Rec. = 8"/
RQD = 0%

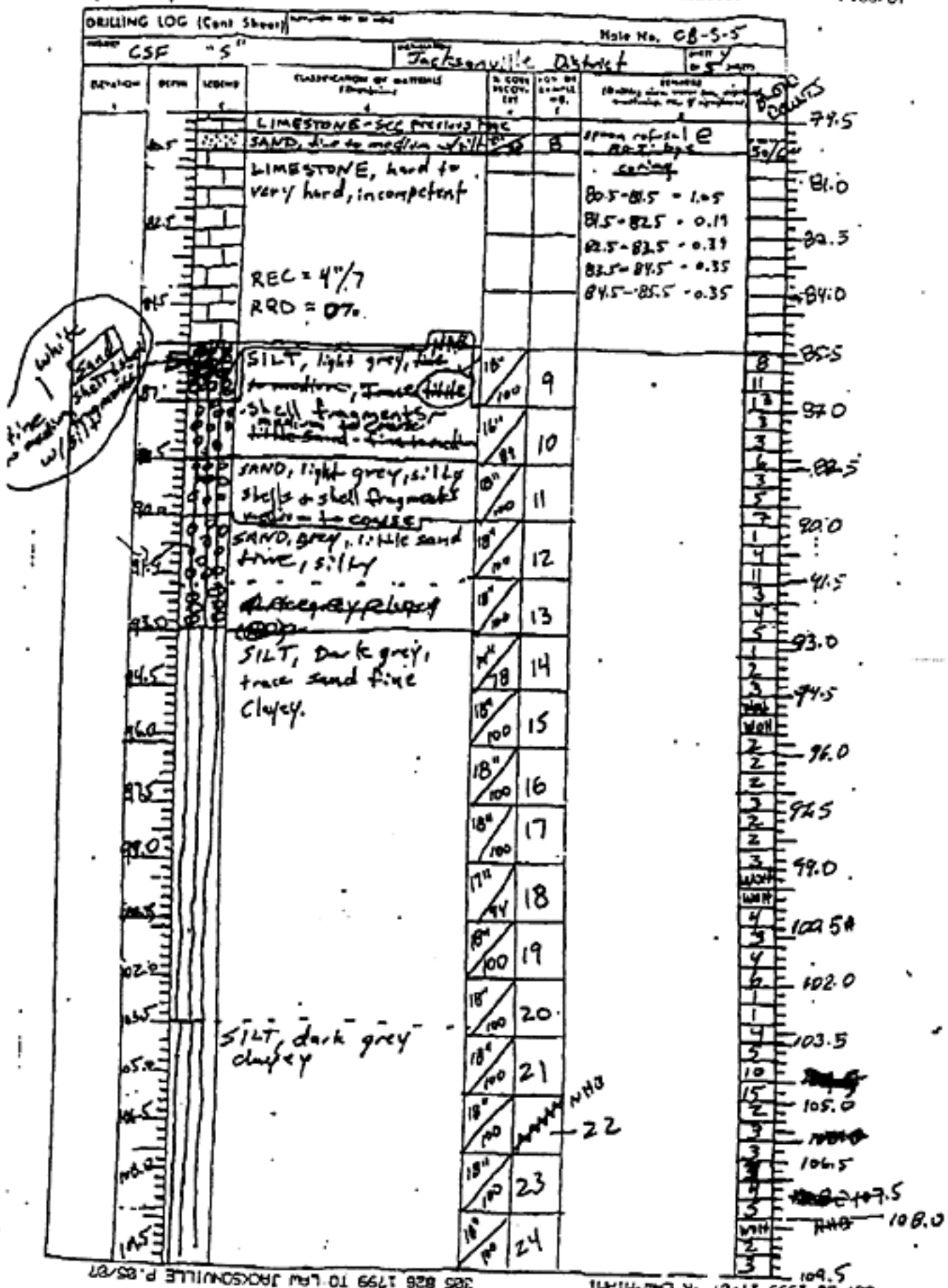
23-24	1.95 min
24-25	1.30 "
25-26	1.00 "
26-27	0.20 "
27-28	1.10 "
28-29	1.30 min
29-30	1.00 "
30-31	1.00 "
31-32	8.20 "
32-33	1.10 "
33-34	1.95 min
34-35	1.0 "
35-36	2.20 "
36-37	7.0 "
37-38	3.0 "
38-39	1.5 min
39-40	0.0 "
40-41	8.20 "
41-42	1.40 "
42-43	0.20 "
43-44	2.40 min
44-45	1.20 "
45-46	0.20 "
46-47	0.10 "
47-48	0.10 "
48-49	0.20 "
49-50	1.80 min
50-51	0.20 "
51-52	0.20 "
52-53	1.20 "

DRILLING LOG (Cont Sheet) Hole No. CB-5-5

CSF "S" Jacksonville District

ELEVATION	DEPTH	LEGEND	DESCRIPTION OF MATERIALS	% CORE RECOVERY	SOIL OR SAMPLE NO.	REMARKS
49.5						
49.0			LIMESTONE, weak			
52.5						
			SAND, fine to medium	12"/67	5	split spoon spoon refusal @ 54' bgs.
54.0						9 15
			LIMESTONE, moderately hard, fairly continuous. some shells & shell fragments. REC = 37"/77% RQD = 20.5"/43%			Coring 54-55 - 0.40 55-56 - 0.40 56-57 - 0.30 57-58 - 1.23
59.5			Competent REC = 34"/57% RQD = 16"/27%			58-59 - 1.23 59-60 - 1.22 60-61 - 0.31 61-62 - 0.26 62-63 - 0.29
61.5						
63.0			SAND, (SM), fine to medium, light grey, some limestone fragments	10"/56 3"/30	6 7	split spoon spoon refusal @ 65' bgs 8 9 11 20/3"
64.5						
66.0			LIMESTONE, moderately hard, competent REC = 39"/65 RQD = 23.5/39			65-66 - 0.38 66-67 - 1.11 67-68 - 1.38 68-69 - 1.30 69-70 - 1.32
67.5						
69.0			moderately hard, competent, shelly w/ cavity at 72-73 bgs & 74-76 bgs REC = 23"/34 RQD = 4.25"/7			70-71 - 1.43 71-72 - 1.20 72-73 - 0.13 73-74 - 0.60 74-75 - 0.10
70.5						
72.0						
73.5						
75.0			Incompetent REC = 15"/25 RQD = 0%			75-76 - 0.31 76-77 - 0.32 77-78 - 0.53 78-79 - 1.08 79-80 - 1.02
76.5						
78.0						
79.5						

NHB START 10-25-99



DRILLING LOG (Cont Sheet) Hole No. CB-5-5

CSF "5" Jacksonville District

Elevation	Depth	Classification of Materials	% Core Recovery	Log of Sample No.	Remarks	Blow Counts
		LIMESTONE - see previous page				79.5
	80.5	SAND, fine to medium w/silt	18" / 100	8	spoon refusal @ 80.5' bgs	50/6"
		LIMESTONE, hard to very hard, incompetent			coring	81.0
	82.5				80.5-81.5 = 1.05	
					81.5-82.5 = 0.19	82.5
					82.5-83.5 = 0.39	
		REC = 4"/7			83.5-84.5 = 0.35	
	84.5	RQD = 0%			84.5-85.5 = 0.35	84.0
		SILT, light grey, ~~fine to medium~~, ~~Trace~~ little shell fragments ~~medium to coarse~~ ~~little sand - fine to medium~~	18" / 100	9		85.5
	87.0		16" / 89	10		87.0
	88.5	SAND, light grey, silty shells & shell fragments medium to coarse	18" / 100	11		88.5
	90.0	SAND, grey, little sand fine, silty	18" / 100	12		90.0
	91.5	~~Dark grey clayey~~	18" / 100	13		91.5
	93.0	SILT, Dark grey, trace sand fine Clayey.	14" / 78	14		93.0
	94.5		18" / 100	15		94.5
	96.0		18" / 100	16		96.0
	97.5		18" / 100	17		97.5
	99.0		17" / 94	18		99.0
	100.5		18" / 100	19		100.5
	102.0		18" / 100	20		102.0
	103.5	SILT, dark grey clayey	18" / 100	21		103.5
	105.0		18" / 100	NHB 22		105.0
	106.5		18" / 100	23		106.5
	108.0		18" / 100	24		107.5
	109.5					108.0

white fine to medium sand shell fragments w/silt

DRILLING LOG (Cont Sheet) Hole No. CB-5-5

Project CSF "5" Jacksonville District

Elevation	Depth	Classification of Materials	% Core Recovery	RQD or Sample No.	Remarks	Blow Counts
		See previous page				108.0 see previous page
	108.5	SILT, dark grey, clayey	18"/100	25		109.5
	111.0	SAND, fine quartz, silty light grey (SM)	18"/100	26		111.0
	112.5		18"/100	27		112.5
	114.0		12.5"/69	28		114.0
	115.5		10"/56	29		115.5
	117.0	SILT, little sand fine, grey, clayey	4"/22	30		117.0
	118.5		18"/100	31		118.5
	120.0		24"/100	32	NHB	120.0 No water return
	121.5					121.5 Rods Fell Penetrated 3-ft
	123.0	shell Fragments medium trace	18"/100	33		123.0 2-ft spoon recovered
	124.5	SILT, medium to gravel size limestone light grey cementous	17"/94	34		124.5
	126.0		15"/83	35		126.0
	127.5		17"/94	36		127.5
	129.0	LIMESTONE, fairly continuous, moderately hard			coring 129-130 - 1.02	129.0
	130.5	NHB REC = 10"/83 RQD = 5"/42 Boring Terminated at 130'				130.0 130.5

Silt, grey