Hole No.CB-KRR96-D-ND2

DRILLING LOG | DIVISION: South Atlantic | INSTALLATION: Jacksonville District | SHEET 1 OF 4

1. PROJECT: Kissimmee River Restoration Monitoring Wells
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY: Corps of Engineers
4. HOLE NO. (As shown on drawing title and file number): CB-KRR96-D-ND2
5. NAME OF DRILLER: Tim Holem
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED
7. THICKNESS OF BURDEN: Ft.
8. DEPTH DRILLED INTO ROCK: 0 Ft.
9. TOTAL DEPTH OF HOLE: 83.0 Ft.
10. SIZE AND TYPE OF BIT: See Remarks
11. DATUM FOR ELEVATION SHOWN (TBM or MSL):
12. MANUFACTURER'S DESIGNATION OF DRILL: Failing 314
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: disturbed: 36 undisturbed: 0
14. TOTAL NUMBER OF CORE BOXES:
15. ELEVATION GROUND WATER: 2.6' depth 7-23-95
16. DATE HOLE STARTED: 7/18/96 COMPLETED: 7/25/96
17. ELEVATION TOP OF HOLE:
18. TOTAL CORE RECOVERY FOR BORING: 74
19. SIGNATURE OF GEOLOGIST: Bob Ross

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS Bit or Barrel	BLOWS/.5'
n/a	.0						0
	.5		SAND, fine quartz, gray. (SP-SM)	73	1	Split Spoon	2, 3, 2
	1.7		SAND, fine quartz, light gray. (SP)				
	3.0		SOFT ORGANIC SILT grading into SOFT ORGANIC CLAY, trace fine quartz sand, black. (CL)	100	2	Split Spoon	2, 2, 3 — 2.5
	5.0		SILTY SAND, fine quartz sand, little silt, gray. (SM)	67	3	Split Spoon	0, 1, 1
	7.5		SOFT ORGANIC CLAY, little fine quartz sand, black. (CL)	80	4	Split Spoon; 6" casing to 6.0'	0, 0, 0 — 5
				87	5	Split Spoon; 6" casing to 7.5' overwashed 0.2'	1, 2, 3 — 7.5
	8.5		CLAYEY SAND, Fine quartz sand, black. (SC)	53	6	Split Spoon	1, 1, 10
			SAND, fine quartz, light gray. (SP) This is Florida Sugar sand. 7/18/96, stop for weekend. 7/23/96, resume drilling. water levels from over the weekend are: In post hole 4 foot deep, water at 2.6' depth. In drill hole 10.5 ' deep, water at 1.8 feet deep. The values should indicate true water levels.	80	7	Split Spoon; 6" casing to 10.5'	10, 11, 13 — 10
				100	8	Split Spoon	4, 3, 2
				87	9	Split Spoon	7, 10, 13 — 12.5
				100	10	Split Spoon; 6"casing to 15.0' casing hard driving	5, 11, 15 — 15
				87	11	Split Spoon	7, 8, 15
	17.5			87	12	Split Spoon	4, 5, 6 — 17.5
	18.5		Below depth 17.5', the sand is fine to coarse grained quartz.	100	13	Split Spoon; 6" casing to 19.5' casing hard driving	5, 5, 7
			SILTY FINE QUARTZ SAND, some silt, trace clay, light gray. (SM)	80	14	Split Spoon	7, 5, 4 — 20
				87	15	Split Spoon	7, 8, 9 — 22.5
						(continued)	

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DRILLING LOG (Cont. Sheet)

ELEVATION TOP OF HOLE Ft.

PROJECT: Kissimmee River Restoration Monitoring Wells

INSTALLATION: Jacksonville District

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS Bit or Barrel	BLOWS/.5'
n/a	22.5						22.5
				87	16	Split Spoon	5 5 7
				93	17	Split Spoon 6" casing to 25.5'	7 6 6
				100	18	Split Spoon	6 4 4
	27.0						25
			SILT, coarse silt to a very fine quartz sand, this is a gradational change from the silty sand above, trace of pea sized weathered shell and shell fragments, trace clay, gray, dark gray below 29.0'. (ML)	100	19	Split Spoon	3 4 6
	29.0			100	20	Split Spoon 6" casing to 30.0'	5 5 9
				100	21	Split Spoon	7 7 10
				100	22	Split Spoon stopped drilling due to lighting	5 6 7
	33.0						27.5 30 32.5
			Below 33.0', some gravel sized pieces of indurated silt. Over night water reading, 1.7' deep in the 4 ' post hole, 2.9' deep in the 33' deep drill hole.	100	23	Split Spoon	5 10 15
				100	24	Split Spoon	8 10 17
	37.0		gravelly from 37' to 38'	100	25 Bag Jar	5 Foot Sampler	2 6 15 18
	38.0						35 37.5
	40.5		From 40.5'to 41', sandy rock fragments with shell, a 2" whole shell, all in the silt matrix.				40
	41.0		Silt is dark gray.	87	26	Split Spoon	13 4 4 9
				76	27 Bag	5 Foot Sampler	6 8
					27a Bag Jar		11 24 32
				80	28	Split Spoon	42.5 45 47.5 5 4 7
				76	29		6
	50.0					(continued)	50

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DRILLING LOG (Cont. Sheet)

ELEVATION TOP OF HOLE Ft.

PROJECT: Kissimmee River Restoration Monitoring Wells

INSTALLATION: Jacksonville District

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS Bit or Barrel	BLOWS/.5'	
n/a	50.0							50
			SILTY SAND, silty, fine quartz sand, trace clay, trace pea sized weathered shell and shell fragments, gray. (SM)	76	29	5 Foot Sampler Lost pipe wrench in hole	10 15 28 50	52.5
	55.0		Below 55', less silt, dark gray	66	30	5 Foot Sampler	6 4 5 8 12	55 57.5
	59.0		CLAY, little sand sized weathered shell fragments, brown. (CL)	93	30	Split Spoon	1 2 6	60
	60.5		SANDY SILT, some fine quartz sand, trace weathered shell fragments, brown. (ML)	90	31	5 Foot Sampler	2 3 3 4 7	62.5 65
	64.8		At 64.8', a 1/8" thick shell layer.					
	66.0		SAND, fine quartz, traced sand sized shell, gray. (SP) This is Florida sugar sand. 7/25/96, morning water level, 0.5 deep with drill hole at 67'	0		Split Spoon	12 30 50#	
				0		Wash	wash	
				0		4" Diamond DT =2.8 min 100% Water Return	drill	67.5
				20	32	5 Foot Sampler Split spoon from 69'-70.5, 46/42/52 Sample 32, 1.5' Rec.	7 26 88 115 275	70 72.5
					33			
				60	34	Split Spoon 3' fall-in, rewashed	2 15 39	75
				0		Wash, rewashed twice due to fall-in	wash	
						(continued)		77.5

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DRILLING LOG (Cont. Sheet)

ELEVATION TOP OF HOLE Ft.

PROJECT
Kissimmee River Restoration Monitoring Wells

INSTALLATION
Jacksonville District

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS Bit or Barrel	BLOWS/.5'
n/a	77.5						
				0		Wash, rewashed twice due to fall-in	wash
	81.0			87	35	Split Spoon	23 22 31
			CLAYEY SAND, fine quartz sand, lenses of sand, lenses of clay, soft sand sized pebbles of siltstone, trace indurated sands. (SC)	47	36	Split Spoon	6 4 4
	83.0						

NOTE:

Soils are field visually classified in accordance with the Unified Soils Classification System.

Samples recovered using a Standard SPLIT SPOON (1-3/8" I.D. x 2" O.D.) Drive with a 140# hammer, 30" drop; or a 5 foot long sampler with a 2" I.D. driven with a 300# hammer.

Recharge test 30'-66.5', water dropped 0.3' in 3 min. from top of 6" casing which is 6" above the ground. Estimated head is 1.1'.

Recharge test 30'-74' with casing 5.5' above the ground, estimated head about 6 ', 1.2 gpm.

Artesion flow; hole depth at 77' and casing 0.5 feet above ground measured at 2 liters/minute.

This hole is not to be used for water samples because of the lost pipe wrench in the hole; but, 2 Piezometers were set in this hole:

Upper Piezometer, 2" slotted PVC from 12 to 17' depth, coarse sand pack (6-20 gradation) from 8.7 to 17.0'.

Lower Piezometer, 2" slotted PVC from 73.5 to 79' depth, coarse sand pack (6-20 gradation) from 65.0 to 79.0 feet.

Other zones were back filled with bentonite.

77.5
80
82.5
85
87.5
90
92.5
95
97.5
100
102.5
105