

WELL DRILLER'S LOG

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT Okeechobee WELL NO. OKS 82 DATE 12-12-90

Mud rotary - 5 7/8" drag bit. Samples taken w/ wire strainer

w/ polymer	DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
	0800	On site
	0823	Begin drilling
	0831	Top head down (THD) @ 18'
(0-18')	→	0'-18' fine sand, organics. Rapid color changes in mud, esp. the 1st 10 ft. Desander sample taken to represent fines
	0836	Trip out, add 20' stabilizer to bottom (18'-38')
	0845	THD @ 38'
(18'-28')	→	18'-28' organics (black), poorly sorted sand.
(28'-38')	→	28'-38' poorly sorted Fe-stained sand. trace clay desander sample taken
	0850	redrilled last rod. A bit more clay returned @ end
	0900	Add 20' DP (for 38'-58')
	0914	THD @ 58'
(38'-48')	→	38'-48' poorly sorted sand; "loose" consolidation (friable) Fe-stained
(48'-58')	→	48'-58'. As above; increase in clay. Driller notes denser formation material around 55'
	0920	Add 20' DP (for 58'-78')
	0923	Mixing mud
	0935	Resume
	0946	THD @ 78'
(58'-63')	→	58'-63' Poorly sorted sand, small amt. clay
(63'-73')	→	63'-73' As above, w/ some coarse sand grains. More clay
(73'-78')	→	73'-78' As above, w/ some large angular sand grains. Stringer of sandstone around 75'.

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Time DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
	Add 20' DP (78'-98')
78-88 → 1000	78'-88' green-gray clay & sand
88-98' →	88'-98' light gray sandy phosphatic clay. Shell appears @ ~90', increasing w/ depth
1012	Add 20' DP (for 98'-118')
1024	THD @ 118' Note: some mud loss this interval (98-118)
98-108' →	98'-108' shell hash, coarsening w/ depth. Sand, small amt. clay
108-115' →	108'-115' shell hash, whole shell, some sand
115-118' →	115'-118' Coarse shell (gastropod, coral, barnacles, scallops, etc.), plus small amt. limestone. Bit chatter this interval.
1034	Add 20' DP (118-138)
1050	Mix more mud, add polymers. Pete + Dave arrive to log.
1052	Resume
1105	THD @ 138'
118-133' →	118-133 Coarse shell fragments, whole shell, stringer of calcareous ss (or sandy ls). Bit chatter.
133-138' →	133-138 Shell as above, finer w/ depth. Clay @ bottom of rod. Softer drilling
1112	Add DP (138'-158')
1123	THD @ 158'
138-148' →	138'-148 fine shell (echinoid, mollusk)
148-158' →	148'-158' As above, w/ small amt gray clay

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DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
1130	Add 20' DP (for 158'-178')
1144	THD @ 178'
158'-170'	158'-170' greenish clay & fine shell - shell diminishing w/ depth
170'-178'	170'-178' top of Hawthorn. Sandy green phosphatic clay, small amt. clay
1200	Trip out
1240	Begin logging. Logs run: Caliper, single pt, 16" - 64" resistivity, SP, natural gamma
Well completion:	
<p>Asked for (bottom up) 20' blank, 40' screen, 120' screen. Bottom of hole caved in; we cut about 11' off the top of casing. Assuming the casing rises 2' above land surface; bottom is finished specs:</p>	