

WELL CUTTINGS PROCESSING FORM

SFWMD ID NO.: 111-6 WELL CONST. PERMIT NO.: N/A
WELL NAME: Safe Casing Depth GEOPHY. LOG AVAIL. Yes No
COUNTY: St. Lucie SFWMD GEOPHY. # 111-00000-76

LOCATION: SW 1/4 of NW 1/4 of NW 1/4 of Sec. 20 Twp. 35 Rge. 38
Latitude 27 25 22 Longitude 80 33 40
Planar X 642500 E Planar Y 1123050 N

DRILLER: Tony Lubrano DATE DRILLED 9/13/88 - 9/21/88

DEPTH (ft) 403' ELEVATION (NGVD) +22' (TOPO SURVEY)

NO. OF SAMPLES 84 NO. OF SPLITS 1 DATE SENT N/A

SENT TO: BOG USGS OTHER _____

WATER SAMPLE: CHLORIDES (mg/l) _____
LAB SAMPLE # Field (639)

HYDRAULIC DATA AVAILABLE:
SPECIFIC CAPACITY Yes No
PUMP TEST Yes No

COMPLETION INFO: PLUGGED TEST MONITOR PRODUCTION

DRILLING METHOD: CABLE TOOL JET AUGER
 ROTARY: [Mud Air] [Reverse] [Dual Wall]

CASING: TYPE: PVC GALV. STEEL
DIAMETER: 6" INTERVAL: 0-280'

SCREEN: ONE TYPE: PVC GALV. STEEL
DIAMETER: _____ INTERVAL: _____

GEOLOGIST DESCRIPTION: NO YES _____

COMMENTS: drilled with water from 280' to 400'
water level 10' below casing

PROJECT S.C.D WELL NO. P/W DATE 9/12/88

DEPTH	DESCRIPTION - <small>TYPE, COLOR, HARDNESS, OTHER</small>
102-105	wht-tan shells, fine sand & silt, some s.s.
105-110	
102-105	Green-gray s.s. & silt
105-107	Green clay (Hawth.) phos. Green s.s. a.a.
107-110	DK. green silt & clay phosph. nodules (Hawthorne)
110-122	DK. Green phosphatic silt a.a. (Drilling rate slowed)
122-142	dk green clay, some shell. 130-140
142-162	dk green clay, larger phosph. grains @ 160-162
162-182	as above
182-202	" "
202-210	a.a.
210-222	dk green clay ^{& silty sand} more phos., softer than above
222-240	" " "
240-245	green clay, coarse clastics, phosphate clastics
245-250	green clay, white shell carbonate
250-260	green clay, coarse clastics
260-265	lighter green clay, shell sandstone slow drilling
265-270	clay, coarse clastics, poorly ^{consolidated} sandstone, bit chatter
270-280	clay, coarse clastics, increase in size & quantity of phosph. granules (275-278 bit bouncing)
280 281-282	white to black dolomite. extremely hard
	dk gray dolomite extremely hard
282-287	Gray & Black dolomite 284-285 driller comment "There's nothing there but air."
287-295	Lt. gray clay, phosphatic
295-302	@295 drilling bit chattering (2' max - poorly consol. phosph gray micrite)
300-307	lt gray phosph. silt w/ phosph. granules
307-309	dk gray more phosph. clay w/ phosphate granules
309-320	gray green clay minor phosphatic
320-325	dk gray clay phosphatic / phosph. nodules
325-330	dk gray clay v. phosph. shells (broken small) gray limestone
330-332	a.a.
332-338	V. DK green ^{soft} consol. clay (shale)
338-342	Lt. gray phosph. silty micrite (shells)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PROJECT SCD WELL NO. PW DATE 9/12/88

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
0-2	brown sand
2-4	orange to white sandy clay
4-8	blue clay, sandy
8-15	Sand & wht. silt
15-18	Grey silt, sand with shell
18-20	Shell bed with sand, some silt, Grey shells
20-22	Shell bed, tan-white
21-22	Coarser Shell bed, grey-white & tan
22-25	Shell, coarse & fine wht-tan, grey, some wht silt, sand
25-30	Shell, mostly fine w/some coarse wht-tan, some grey, sand
30-35	a.s. above (a.a.)
35-40	A.A. (coarser shell population, petrif. wood)
40-42	sand, fine dark grey & clay, thin tan shell
42-45	a.a.
45-50	Drill rate slowed down, sand & fine dk gry. silt & clay, some shells
50-55	tan clay & silt a.a., more shells here: small, Drill rate inc. @ 54'
55-60	Shell & ^{green &} grey silt & sand. Faster drill rate thru here
60-62	Sandy clay, gray w/shells Fast drilling
62-65	Fast drillg. Shells & grey clay a.a.
65-67	Shells & sandy silt, grey
67-70	Shells: larger less silt
70-75	wht-tan sandstone & shell, silt mostly shell in sample
75-77	White shells and silty s.s.
77-80	Green-grey silty clay (shower drillg) & shells assorted.
80-82	^{lt.} Grey silt & sandstone, cemented shell conglomerates, shell (Bit chattered)
82-85	Grey silty clay; some shells. Phosphatic
85-87	A.A. clumps of clay. Phosph.
87-90	Silty clay green, gray Small shells, some gray s.s. a.a. Phosph.
90-93	Fast Drilling then slowed 1' back to fast V. Fine sand slips thru screen
93-95	V. coarse shell & sandstone
95-100	V. fine sand, shell: coarse & fine, some silt & s.s. g.a.
100-102	V. fine sand, shells & silt

Fast Drilling

470
500
490

PROJECT _____ WELL NO. _____ DATE _____

DEPTH	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
340-345	micrite, phosphatic poorly consol. obs. granules
345-350	micrite w/ gray phosphatic silty clay & shell
350-353	phosphate granules, green gray phosph. micrite, white shell
353-358	silty green clay, phosphatic
357-362	shell, phosphate, silty sand (lt green) ^{tan to}
362-365	soft green phosph. silt, shell
368-372	green clay, not very phosph.
372-382	lt gray to white phosph poorly to mod. consolid micrite & phosphate, gravel, some green or white silt
382-383	Green phos. silt & clay, white shell & phosphate
383-392	Wht. limest & cemented shell minor phos granules
392-395	DK green dry sandy clay, minor carbonates as above
395-400	lt gray phosphatic micrite, minor green clay
400-	Soft dark green clay & micrite as above phosphatic 10-15 gal/min