## WELL CUTTINGS PROCESSING FORM

SFWMD ID NO.:	085-33		ELL CONST. RMIT NO.:	N/A	
WELL NAME:	monneue Af	OT GI	OPHY. LOG	AVAIL.	YesNo
COUNTY	Martin	SF	WMD GEOPH	14.# <u>0850</u> 0	18000
LOCATION:	<u>SE</u> 1/4 of <u>SW</u>	1/4 of <u>SW</u>	1/4 of Sec. <u> </u>	Twp. <u>39</u>	Rge. <u>40</u>
Latitude	270246	Lo	ngitude	801758	3
Planar X	728050	727050 Pla	anar Y	986500	
DRILLER:	Tonylubra	no DA	ATE DRILLED	Aug. 15,	1989
DEPTH (ft)	130' ELEV	ATION (NG	VD) <u>22</u>	(⁄) TOPO	() SURVEY
NO. OF SAMPLES	NO. 0	F SPLITS	2 DATES	SENT	
SENT TO:	(V) BOG (	) USGS	()OT	HER	
WATER SAMPLE:	CHLORIDES LAB SAMPL	(mg/l) E #	•		
HYDRAULIC DAT	A AVAILABLE: SPECIFIC CAPA PUMP TEST	CITY	Yes Yes	_No _No	
COMPLETION INF	O: ()PLUGGE	D ()TES	T ()MONI	TOR (Y) PROI	DUCTION
DRILLING METHO	DD: ( ) CABLE TO	OOL ()JE Y: [√]Mu	T ()AUGER d []Air	R [ ] Reverse [	] Dual Wall
CASING:	TYPE: (Y)PY	/C ()GAI <u>6"</u> INT	V. ()STEEL ERVAL:	30'	
SCREEN:	TYPE: (YP) DIAMETER:	/C ()GAL <u>(o"</u> INT	V. ()STEEL ERVAL:	30'-70'	
GEOLOGIST DESCRIPTION: ( ) NO ( YYES					
COMMENTS:			· · · · · · · · · · · · · · · · · · ·	•	
ranch manager-Jim Haygood 287-3046					

## SOUTH FLORIDA WATER MANAGEMENT DISTRICT

## PROJECT Martin APT'SWELL NO. MW 1 DATE 8/15/89 Monneue Ranch

	<del>                                     </del>	Monneue kanan
	DEPTH •	DESCRIPTION - ROCK TYPE, COLOR, HARDNESS, OTHER
	0-2	white sand
-	2-3	dk brown sand.
	3-4	med. brown sand, minor silt
\$}r (	4-5	Silty, clayer sand.
<u> </u>	5-7	gray silty sand
	7-10 .	sandstone, fine sand
	10-12	pinkish whole & broken shell
	12-14	as above with sandstone
• ©	14-21	orange, gray shell, sandstone (Slower, grinding)
	21-25	fine Sand
	25-30	fine sand-sized shell fragments, pinkish
	30-32	hard alk gray sandstone & pink whole & broken Shell.
	<i>3</i> 2-35	gray limeston, minor shell
	35-451	onay Shelly limesomo.
	51-54	hard grey limestone & Shell Fragments
	54-59	sand, fine shell fragm., minor limestone
	59-62	orange shell (whole & broken), gray limestone
	62-66	fire sand, mod. cemented Dimestone, Shell fragm.
	66-71	White & orange Shell Gragm. may sandstone
	71-74	soft & mod. hard gray sandstone, shell
o	74-80	Soft Silty Sandstone, shell frag.
	80.85	gray Sitt shell fragm.
	85-91	silt, shell, sand
	91-105	shellfragm, fine sand, minor sitt, poorly consol linestone
	105-111	poorly consol. limestone, shelle fragm.
•	111-115	phosphatic limeston, shell
	115-124	gray green phosph. Micritic shell fragm. silt chatter
	124-132	dk groen silf, limestone (bit chatter), shell fragm.
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	1	1

LITHOLOGIC WELL LOS PRINTOUT

SOURCE - SFWMD

WELL NUMBER: W- 33 TOTAL DEPTH: 00130 FT. 33 SAMPLES FROM 0 TO 130 FT.

COUNTY - MARTIN

LOCATION: T.39S R.40E S.25 C

LAT = N 270 02M 46

LON = W BOD 17M 58

COMPLETION DATE - 08/15/89

ELEVATION - 022 FT

OTHER TYPES OF LOGS AVAILABLE - GEOLOGIST, ELECTRIC, GAMMA, CALIPER

OWNER/DRILLER: MONREVE RANCH APT SITE; DRILLER; T. LUBRANO

WORKED BY: E. HOPKINS & K. ADAMS; SAMPLE QUALITY: GOOD

- 0 2 SAND; YELLOWISH GRAY; 20% POROSITY, INTERGRANULAR;
  GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM;
  ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED;
  ACCESSORY MINERALS: ORGANICS-01%;
  OTHER FEATURES: FROSTED:
- 2 3 SAND; BLACK; 15% PORDSITY, INTERGRANULAR, LOW PERMEABILITY; GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE; ROUNDNESS: SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED; ACCESSORY MINERALS: ORGANICS-01%; OTHER FEATURES: FROSTED;
- 3 4 SAND; DARK YELLOWISH BROWN; 15% POROSITY, INTERGRANULAR;
  GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE;
  ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED;
  ACCESSORY MINERALS: ORGANICS-10%, IRON STAIN-%;
- 4 5 SAND; DARK YELLOWISH BROWN; 15% POROSITY, INTERGRANULAR; GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO COARSE; ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED; ACCESSORY MINERALS: SILT-10%, IRON STAIN-%; COARSE GRAINS FROSTED
- 5 7 SAND; OLIVE GRAY; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY; GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO COARSE; ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED; ACCESSORY MINERALS: CALCILUTITE-15%, IRON STAIN-%;
- 7 10 SANDSTONE; LIGHT OLIVE GRAY TO LIGHT OLIVE; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY; GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM;
  ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; MODERATE INDURATION;
  CEMENT TYPE(S): CALCILUTITE MATRIX;
  ACCESSORY MINERALS: CALCILUTITE-15%, SILT-05%;
  FOSSILS: FOSSIL FRAGMENTS;
- 10 12 SHELL BED; VERY LIGHT ORANGE; 25% POROSITY, INTERGRANULAR, POSSIBLY HIGH PERMEABILITY, ;
  UNCONSOLIDATED;
  ACCESSORY MINERALS: QUARTZ SAND-05%;
  FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, BRYDZDA;
- 12 14 AS ABOVE WITH 5% SANDSTONE PIECES

- 14 20 SHELL BED; VERY LIGHT ORANGE TO MODERATE LIGHT GRAY; 20% POROSITY, INTERGRANULAR, POSSIBLY HIGH PERMEABILITY; UNCONSOLIDATED; FOSSILS: SPICULES, FOSSIL FRAGMENTS, BRYOZOA, MOLLUSKS; WITH 10% SANDSTONE PIECES, DRILL BIT GRINDING SLOWER
- 20 25 SAND; GRAYISH BROWN; 20% POROSITY, INTERGRANULAR;
  GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO MEDIUM;
  ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; MEDIUM SPHERICITY; UNCONSOLIDATED;
  ACCESSORY MINERALS: SHELL-15%;
- 25 30 SAND; YELLOWISH GRAY TO VERY LIGHT ORANGE; 25% POROSITY, INTERGRANULAR; GRAIN\_SIZE: MEDIUM; RANGE: MEDIUM TO COARSE; ROUNDNESS:SUB-ROUNDED; LOW SPHERICITY; UNCONSOLIDATED; ACCESSORY MINERALS: SHELL-40%; OTHER FEATURES: FROSTED; FOSSILS: FOSSIL FRAGMENTS:
- 30 32 SHELL BED; YELLOWISH GRAY TO MODERATE BRAY; 25% POROSITY, INTERGRANULAR; UNCONSOLIDATED; ACCESSORY MINERALS: LIMESTONE-20%, CALCILUTITE-02%; WITH 20% DARK GRAY SANDSTONE
- 32 35 SANDSTONE; YELLOWISH GRAY TO MODERATE GRAY; 15% POROSITY, INTERGRANULAR, PIN POINT VUGS; GRAIN SIZE: FINE; RANGE: FINE TO MEDIUM; ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX; ACCESSORY MINERALS: CALCILUTITE-20%, SHELL-05%; SAND GRAINS APPEAR FUSED, SOME SANDSTONE CONTAINS FINE SHELL FRAG
- 40 LIMESTONE; MODERATE GRAY TO YELLOWISH GRAY; 15% POROSITY, INTERGRANULAR, MOLDIC; GRAIN TYPE: INTRACLASTS, BIOGENIC; 60% ALLOCHEMICAL CONSTITUENTS; GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT; ACCESSORY MINERALS: QUARTZ SAND-50%, CALCITE-20%, CALCILUTITE-20%; FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS;
- 40 45 AS ABOVE
- 45 51 SANDSTONE; YELLOWISH GRAY TO MODERATE GRAY; 15% POROSITY, INTERGRANULAR, PIN POINT VUGS; GRAIN SIZE: FINE; RANGE: FINE TO MEDIUM; ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX; ACCESSORY MINERALS: CALCILUTITE-20%; FOSSILS: FOSSIL MOLDS;
- 51 54 AS ABOVE
  WITH 30% LOOSE SHELL FRAGM, 1% PHOSP GRANULES
- 54 59 SHELL BED; GRAYISH ORANGE; 25% POROSITY, INTERGRANULAR; UNCONSOLIDATED;
  ACCESSORY MINERALS: PHOSPHATIC GRAVEL-01%, QUARTZ SAND-02%;
  FOSSILS: FOSSIL FRAGMENTS;
  WITH 5% SANDSTONE PIECES

- 59 62 SHELL BED; GRAYISH ORANGE; 25% POROSITY, INTERGRANULAR, POSSIBLY HIGH PERMEABILITY; UNCONSOLIDATED; FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS; WITH 10% SANDSTONE, MOSTLY WHOLE TELLINA BIVALVES
- 62 66 SANDSTONE; MODERATE GRAY TO GRAYISH ORANGE; 15% POROSITY, INTERGRANULAR, PIN POINT VUGS; GRAIN SIZE: FINE; RANGE: FINE TO MEDIUM; ROUNDNESS:SUB-ROUNDED; MEDIUM SPHERICITY; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX; ACCESSORY MINERALS: CALCILUTITE-15%, SHELL-15%, PHOSPHATIC SAND-01%;
- 71 LIMESJONE; LIGHT OLIVE GRAY TO YELLOWISH GRAY; 15% POROSITY, INTERGRANULAR; GRAIN TYPE: INTRACLASTS, BIOGENIC; 70% ALLOCHEMICAL CONSTITUENTS; GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT; ACCESSORY MINERALS: QUARTZ GAND-50%, SHELL-30%, CALCILUTITE-15%, CALCITE-05%; FOSSILS: FOSSIL FRAGMENTS;
- 71 74 SANDSTONE; LIGHT OLIVE GRAY; 15% POROSITY, INTERGRANULAR, PIN POINT VUGS; GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE; ROUNDNESS: SUB-ROUNDED; MEDIUM SPHERICITY; GOOD INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX; ACCESSORY MINERALS: CALCILUTITE-20%, PHOSPHATIC SAND-01%; FOSSILS: FOSSIL FRAGMENTS;
- 74 80 SANDSTONE; LIGHT OLIVE GRAY; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY; GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO FINE; ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY; POOR INDURATION; CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX; ACCESSORY MINERALS: CALCILUTITE-15%, SILT-07%, SHELL-05%;
- 80 85 SAND; GREENISH GRAY; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE;
  ROUNDNESS:SUB-ROUNDED; MEDIUM SPHERICITY; UNCONSOLIDATED;
  ACCESSORY MINERALS: CALCILUTITE-20%, SILT-05%, SHELL-05%, PHOSPHATIC SAND-01%;
  FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA, MOLLUSKS;
- 95 91 LIMESTONE; MODERATE GRAY; 12% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN TYPE: INTRACLASTS, BIOGENIC; 30% ALLOCHEMICAL CONSTITUENTS;
  GRAIN SIZE: FINE; RANGE: FINE TO COARSE; POOR INDURATION;
  CEMENT TYPE(S): CALCILUTITE MATRIX;
  ACCESSORY MINERALS: SHELL-40%, CALCILUTITE-40%, QUARTZ SAND-20%;
  FOSSILS: FOSSIL FRAGMENTS, SPICULES;
- 91 95 LIMESTONE; YELLOWISH GRAY; 12% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN TYPE: INTRACLASTS, BIOGENIC; 50% ALLOCHEMICAL CONSTITUENTS;
  GRAIN SIZE: FINE; RANGE: FINE TO COARSE; POOR INDURATION;
  CEMENT TYPE(S): CALCILUTITE MATRIX;
  ACCESSORY MINERALS: SHELL-40%, CALCILUTITE-40%, QUARTZ SAND-20%;
  FOSSILS: BENTHIC FORAMINIFERA, BARNACLES, BRYDZOA, SPICULES, FOSSIL FRAGMENTS;
- 95 100 AS ABOVE

- 100 105 SHELL BED; LIGHT OLIVE GRAY; 20% POROSITY, INTERGRANULAR; UNCONSOLIDATED; ACCESSORY MINERALS: CALCILUTITE-15%, QUARTZ SAND-10%; FDSSILS: FOSSIL FRAGMENTS, MOLLUSKS, BARNACLES, SPICULES, WORM TRACES;
- 105 111 SHELL BED; LIGHT GRAY TO LIGHT OLIVE GRAY; 20% POROSITY, INTERGRANULAR; UNCONSOLIDATED; ACCESSORY MINERALS: CALCILUTITE-10%, QUARTZ SAND-10%, PHOSPHATIC SAND-01%; FOSSILS: FOSSIL FRAGMENTS, BRYDZOA, BARNACLES, MOLLUSKS, BENTHIC FORAMINIFERA;
- 111 115 LIMESTONE; LIGHT OLIVE GRAY; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN TYPE: INTRACLASTS, BIOGENIC; 55% ALLOCHEMICAL CONSTITUENTS;
  GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE; POOR INDURATION;
  CEMENI TYPE(S): CALCILUTITE MATRIX;
  ACCESSORY MINERALS: CALCILUTITE-45%, QUARTZ SAND-30%, SHELL-25%, PHOSPHATIC SAND-01%;
  FOSSILS: FOSSIL FRAGMENTS, BARNACLES, BENTHIC FORAMINIFERA, SPICULES, BRYOZOA;
- 115 120 LIMESTONE; LIGHT OLIVE GRAY; 15% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN TYPE: INTRACLASTS, BIOGENIC; 40% ALLOCHEMICAL CONSTITUENTS;
  GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE; POOR INDURATION;
  CEMENT TYPE(S): CALCILUTITE MATRIX;
  ACCESSORY MINERALS: CALCILUTITE-60%, QUARTZ SAND-30%, SHELL-10%, PHOSPHATIC SAND-01%;
  FOSSILS: FOSSIL FRAGMENTS;
- 120 124 AS ABOVE
- 124 132 SAND; OLIVE GRAY; 20% POROSITY, INTERGRANULAR, LOW PERMEABILITY;
  GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO FINE;
  ROUNDNESS:SUB-ANGULAR; MEDIUM SPHERICITY; UNCONSOLIDATED;
  ACCESSORY MINERALS: CALCILUTITE-15%, SILT-05%, PHOSPHATIC SAND-03%;
  FOSSILS: FOSSIL FRAGMENTS;
- 132 TOTAL DEPTH