LITHOLOGIC WELL LOG PRINTOUT SOURCE - FGS

WELL NUMBER: W-17794 COUNTY - DADE99
TOTAL DEPTH: 178 FT. LOCATION: T.54S R.38E S.11
SAMPLES - NONE LAT = 25D 44M 51S
LON = 80D 29M 53S
COMPLETION DATE: 25/ 7/96 ELEVATION: 5 FT
OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER:SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WORKED BY:CINDY FISCHLER. 025-20 DLBS-9 SFWMD GEOPHY # 025000023 SOUTH MIAMI NW FLA PLANAR X 665208 STATE COORD. Y 514218 ACTUAL FOOTAGE IS LESS THAN INTERVAL GIVEN. COMPLETED OCT. 1999.

0.	-172	.	121PCPC	PLIOCENE-PLEISTOCENE
172.	-175	.	122HTRN	HAWTHORN GROUP

0 - 1 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND- 5%, SPAR- 8%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: OOLITES

1 - 3 PEAT; GREENISH BLACK
15% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
MODERATE INDURATION
CEMENT TYPE(S): ORGANIC MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SHELL-20%
FOSSILS: MOLLUSKS
MANY FRESHWATER GASTROPODS.

3 - 5 LIMESTONE; VERY LIGHT ORANGE TO GRAYISH BROWN
10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE, OOLITE CLAST, CRYSTALS
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
FOSSILS: OOLITES, PLANT REMAINS
ABOUT 50% OF INTERVAL IS PEAT AS ABOVE. LIMESTONE IS COATED
WITH PEAT.

5 - 9 LIMESTONE; GRAYISH BROWN
20% POROSITY: INTERGRANULAR, VUGULAR, MOLDIC

GRAIN TYPE: CALCILUTITE, OOLITE CLAST, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND- 5%, SILT-15%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: OOLITES, PLANT REMAINS
LIMESTONE IS COATED WITH SANDY SILT. LARGE SOLUTION VOIDS PRESENT. SILT INCREASES WITH DEPTH TO ABOUT 20%.

9 - 13 LIMESTONE; YELLOWISH GRAY TO GRAYISH ORANGE
10% POROSITY: INTERGRANULAR, PIN POINT VUGS, MOLDIC
GRAIN TYPE: CALCILUTITE, OOLITE CLAST, SKELETAL
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
IRON CEMENT
SEDIMENTARY STRUCTURES: MOTTLED
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: OOLITES, MOLLUSKS, BENTHIC FORAMINIFERA
PLANT REMAINS
SOME IRON STAINING. SOLUTION VOIDS ARE PRESENT. LITHOLOGY VARIES: SOME OF THE LIMESTONE IS SANDY WITH OOLITIC TEXTURE; IRON STAINED LIMESTONE IS MORE RECRYSTALLIZED AND
LESS OOLITIC.

13 - 15 WACKESTONE; VERY LIGHT ORANGE
5% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRANULE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA
MANY OF THE ALLOCHEMS ARE RECRYSTALLIZED CLAM AND GASTROPOD
CAST.

15 - 35 LIMESTONE; WHITE TO YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, VUGULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELTAL CAST, PELLET
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: CRYPTOCRYSTALLINE TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-20%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, CRUSTACEA
GASTROPOD AND CLAM CAST. DRUSY CALCITE COATING ON SOME OF

THE PIECES. MEDIUM RECRYSTALLIZATION. FEW PIECES SPOTTED WITH VERY FINE BLACK MATERIAL IN THE MATRIX MAY BE ORGANICS
OR IRON SULFIDE. HIGHLY MOLDIC TOWARD BOTTOM.

35 - 43 WACKESTONE; WHITE
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR- 5%, QUARTZ SAND-<5%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, OSTRACODS MILIOLIDS, CRUSTACEA
CLAM AND GASTROPOD CAST AND MOLDS. MEDIUM TO POOR INDURATION. ABOUT 5% SHELL FRAGMENTS SOME ARE RECRYSTALLIZED.

43 - 50 WACKESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE, SKELTAL CAST, CRYSTALS
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, WORM TRACES
ABUNDANT CLAM AND GASTROPOD MOLDS. INCREASE IN RECRYSTALLIZATION TOWARD BOTTOM ABOUT 15% SPAR. NOT QUITE AS MOLDIC TOWARD BOTTOM.

50 - 57 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-15%, QUARTZ SAND-40%, SHELL-15%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES
LITHOLOGY VARIES: SANDY, SHELLY LIMESTONE TO CALCAREOUS SHELLY SANDSTONE. SAND IS PREDOMINANTLY MEDIUM TO COARSE GRAINED. FEW PIECES APPEAR TO BE SANDY CONCRETIONS - THIS SAND IS FINE GRAINED. LOOSE SHELL FRAGMENTS TOWARD BOTTOM.

57 - 80 SHELL BED; MODERATE LIGHT GRAY TO LIGHT GRAY
30% POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-15%, SPAR- 5%
FOSSILS: MOLLUSKS, BARNACLES
GASTROPDS. SHELL FRAGMENTS ARE LARGE UP TO 5CM. LARGE

BARNACLES ARE PRESENT (1CM).

80 - 93 SHELL BED; YELLOWISH GRAY TO LIGHT OLIVE GRAY
30% POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-30%, PHOSPHATIC SAND- 3%
FOSSILS: MOLLUSKS, BARNACLES, ECHINOID, BRYOZOA
GASTROPODS. SHELL FRAGMENTS ARE SMALLER THAN PREVIOUS. SAND
IS POORLY SORTED. 70% OF INTERVAL IS LOOSE SHELL BED
REMAINING PART IS SHELL, SAND, AND CALCILUTITE WITH MEDIUM
INDURATION.

93 - 101 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, SKELTAL CAST
95% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-35%, PHOSPHATIC SAND- 3%
SHELL-50%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, BENTHIC FORAMINIFERA, BRYOZOA
BARNACLES
GASTROPOD AND CLAM CAST. MOST SHELL MATERIAL IS FINELY
GROUND. ABOUT 50% OF INTERVAL IS LOOSE SHELL FRAGMENTS FROM
97-101FT.

101 - 130 SHELL BED; YELLOWISH GRAY TO MODERATE LIGHT GRAY
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: LIMESTONE-15%, QUARTZ SAND-10%
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES, BRYOZOA
GASTROPODS. MANY TURRITELLA. LIMESTONE IS VERY SANDY AND
SHELLY "COQUINA LIKE". LIMESTONE DECREASES TO A TRACE
TOWARD BOTTOM. ABOUT 10% SHELLY, CALCAREOUS SANDSTONE WITH
POOR INDURATION.

130 - 132 LIMESTONE; YELLOWISH GRAY
25% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SILT-10%, SHELL-35%, QUARTZ SAND-30%
PHOSPHATIC SAND-<2%
FOSSILS: MOLLUSKS, ECHINOID, BARNACLES

GASTROPODS.

132 - 145 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-30%, QUARTZ SAND-40%
PHOSPHATIC SAND-<2%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, CORAL, WORM TRACES
BENTHIC FORAMINIFERA, BRYOZOA
TURRITELLA MOLDS AND OTHER VERY LARGE MOLDS. LITHOLOGY VARIES: SHELLY, SANDY LIMESTONE TO SHELLY, CALCAREOUS SANDSTONE. SOME PARTS OF THIS INTERVAL ARE "COQUINA LIKE".
MANY WORM TRACES. POSSIBLE STORM DEPOSIT. POORLY SORTED.

145 - 172 SHELL BED; VERY LIGHT ORANGE TO YELLOWISH GRAY
UNCONSOLIDATED
FOSSILS: MOLLUSKS, BARNACLES, BRYOZOA, ECHINOID GASTROPODS. 10-15% OF INTERVAL IS SMALL PIECES OF PHOSPHATIC, CALCAREOUS SANDSTONE. SANDSTONE DECREASES WITH DEPTH.

172 - 175 SAND; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: FINE TO GRAVEL
ROUNDNESS: SUB-ROUNDED TO ROUNDED; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SHELL-35%, PHOSPHATIC SAND- 2%
SILT-15%
FOSSILS: MOLLUSKS, BARNACLES, BRYOZOA, ECHINOID
SHELL ENCRUSTED WITH BRYOZOAN.

175 TOTAL DEPTH