

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-17986
 TOTAL DEPTH: 2370 FT.
 470 SAMPLES FROM 10 TO 2370 FT.
 COMPLETION DATE: N/A
 OTHER TYPES OF LOGS AVAILABLE - NONE

COUNTY - PB99
 LOCATION: T.47S R.41E S.19
 LAT = 26D 21M 20S
 LON = 80D 17M 46S
 ELEVATION: 12 FT

OWNER/DRILLER:SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WORKED BY:CINDY FISCHLER SFWMD # PBF-10 099-2 5FT. INTERVALS
 COMPLETED DECEMBER 1999. THERE IS NO MARKED CHANGE IN LITHOLOGY BETWEEN
 HAWTHORN AND OCALA. THE PICK IS BASED ON THE PRESENCE OF NUMMULITES AND
 THE LACK OF ANY FOSSILS TO PLACE IT IN THE SUWANNEE OR AVON PARK.
 ACCORDING TO THE LITERATURE THERE IS NO SUWANNEE IN THIS AREA AND THE
 PRESENCE OF OCALA IS QUESTIONABLE. THE PRESENCE OF SAND AND PHOSPHATE IS
 PUZZLING AND MAY BE CAVINGS. THE PICK FOR THE AVON PARK IS BASED ON THE
 PRESENCE OF DICTYOCONUS AND RECRYSTALLIZED ECHOIDS. THIS PICK COULD BE
 SLIGHTLY EARLIER AS ONE DICTYOCONUS AMERICANUS IS FOUND AT 1135-1140FT.
 THERE IS NO DISTINCT CHANGE IN LITHOLOGY.

- 10. -205 . 121PCPC PLIOCENE-PLEISTOCENE
- 205. -975 . 122HTRN HAWTHORN GROUP
- 975. -1150 . 124OCAL OCALA GROUP
- 1150. -2070 . 124AVPK AVON PARK FM.
- 2070. -2370 . 124OLDM OLDSMAR LIMESTONE

- 0 - 10 NO SAMPLES

- 10 - 15 SANDSTONE; LIGHT OLIVE GRAY TO WHITE
 10% POROSITY: INTERGRANULAR, MOLDIC
 GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
 ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; LOW SPHERICITY
 MODERATE INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: SHELL-30%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION, CALCAREOUS
 FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, ECHINOID, BARNACLES
 SMALL FRAGMENTS OF LIMESTONE AND SHELL. SHELL FRAGMENTS ARE
 VERY WEATHERED. LITHOLOGY VARIES FROM A CALCAREOUS
 SANDSTONE TO A SANDY LIMESTONE. SMALL AMOUNT OF IRON
 STAINING.

- 15 - 20 SHELL BED; YELLOWISH GRAY
 20% POROSITY: INTERGRANULAR; UNCONSOLIDATED
 ACCESSORY MINERALS: LIMESTONE-10%
 FOSSILS: MOLLUSKS, ECHINOID, BARNACLES, CORAL, BRYOZOA
 GASTROPODS. LIMESTONE FRAGMENTS SAME AS ABOVE. SHELL IS
 LESS WEATHERED.

- 20 - 45 SANDSTONE; YELLOWISH GRAY TO LIGHT GRAY
 10% POROSITY: INTERGRANULAR, MOLDIC
 GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
 ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; LOW SPHERICITY
 MODERATE INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX

ACCESSORY MINERALS: SHELL-50%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION, CALCAREOUS
 FOSSILS: MOLLUSKS, BRYOZOA, ECHINOID, CORAL, BARNACLES
 GASTROPODS. SHELL FRAGMENTS MORE WEATHERED THAN ABOVE.
 SANDSTONE MORE RECRYSTALLIZED THAN PREVIOUS. SOME
 RECRYSTALLIZED CLAM AND GASTROPOD CAST AND SANDY CAST OF
 BURROWS. ABOUT 10-15% SANDY, SHELLY LIMESTONE FRAGMENTS
 TOWARD BOTTOM.

45 - 50 SHELL BED; YELLOWISH GRAY TO LIGHT GRAY
 15% POROSITY: INTERGRANULAR; UNCONSOLIDATED
 ACCESSORY MINERALS: QUARTZ SAND-35%
 FOSSILS: MOLLUSKS, BRYOZOA, CORAL, ECHINOID
 SAND IS IN THE FORM OF SMALL CALCAREOUS SANDSTONE FRAGMENTS
 WITH SOME RECRYSTALLIZATION.

50 - 65 SANDSTONE; YELLOWISH GRAY TO LIGHT GRAY
 15% POROSITY: INTERGRANULAR, MOLDIC
 GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE
 ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; LOW SPHERICITY
 MODERATE INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
 ACCESSORY MINERALS: SHELL-40%, PHOSPHATIC SAND-<2%
 FOSSILS: CORAL, BRYOZOA, MOLLUSKS, BARNACLES, ECHINOID
 SMALL FRAGMENTS OF CALCAREOUS, SHELLY SANDSTONE AND LOOSE
 SHELL FRAGMENTS.

65 - 70 NO SAMPLES

70 - 110 SANDSTONE; YELLOWISH GRAY
 10% POROSITY: INTERGRANULAR
 GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE
 ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; LOW SPHERICITY
 GOOD INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
 ACCESSORY MINERALS: SHELL-30%, PHOSPHATIC SAND- 3%
 LIMESTONE-25%
 OTHER FEATURES: CALCAREOUS
 FOSSILS: CORAL, MOLLUSKS, BARNACLES, BRYOZOA
 FRAGMENTS OF RECRYSTALLIZED, SHELLY SANDSTONE AND SANDY
 SHELLY, RECRYSTALLIZED LIMESTONE. PHOSPHATE IS FINE
 GRAINED. LIMESTONE INCREASES WITH DEPTH UNTIL IT IS ABOUT
 EQUAL PARTS SANDSTONE AND LIMESTONE. SHELL FRAGMENTS
 DECREASE SLIGHTLY.

110 - 205 LIMESTONE; YELLOWISH GRAY
 10% POROSITY: INTERGRANULAR, MOLDIC
 GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
 MODERATE INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 ACCESSORY MINERALS: QUARTZ SAND-40%, SPAR-10%, SHELL-25%
 PHOSPHATIC SAND- 2%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION
 FOSSILS: BRYOZOA, MOLLUSKS, BARNACLES, CORAL
 BENTHIC FORAMINIFERA

LITHOLOGY VARIES: SANDY, SHELLY LIMESTONE; CALCAREOUS SHELLY SANDSTONE; AND A SHELLY MICRITE. FEW OF THE FRAGMENTS ARE IRON STAINED. THE SAND IS SLIGHTLY FINER GRAINED TOWARD BOTTOM. ABOUT 2-3% OF THE SAMPLE IS SILT AND CLAY CLAST - BECOMES LESS WITH DEPTH.

- 205 - 230 SILT; YELLOWISH GRAY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-25%, PHOSPHATIC SAND- 3%
SHELL- 5%, MICA-<1%
OTHER FEATURES: CALCAREOUS
FOSSILS: SPICULES, MOLLUSKS, BARNACLES, ECHINOID
ABOUT 30% OF THE SAMPLE IS SILT COVERED CALCAREOUS SANDSTONE AND SHELLY, SANDY LIMESTONE, PROBABLY CAVINGS. PHOSPHATE IS VERY FINE TO SILT SIZE. SAND IS FINE TO VERY FINE GRAINED. LOOSE SHELL FRAGMENTS VARY WIDELY IN SIZE. TRACE OF PEAT AT 220-225FT.
- 230 - 270 SILT; LIGHT OLIVE GRAY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND-10%
SHELL- 3%, MICA-<1%
OTHER FEATURES: CALCAREOUS
FOSSILS: SPICULES, MOLLUSKS
CLAYEY SILT. PHOSPHATE IS VERY FINE TO SILT SIZE. SAND IS FINE TO VERY FINE GRAINED. TRACE OF PEAT. <5% LIMESTONE AND SANDSTONE AS ABOVE INCREASES WITH DEPTH.
- 270 - 280 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SILT-30%, SHELL-15%
PHOSPHATIC SAND-10%, QUARTZ SAND-25%
FOSSILS: MOLLUSKS
LITHOLOGY VARIES: PHOSPHATIC, CLAYEY SILT; CALCAREOUS SANDSTONE; AND SHELLY, SANDY LIMESTONE. PHOSPHATE VERY FINE TO SILT SIZE.
- 280 - 290 SILT; LIGHT OLIVE GRAY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: LIMESTONE-20%, QUARTZ SAND-25%
SHELL-10%
FOSSILS: BARNACLES, MOLLUSKS
LITHOLOGY VARIES AS ABOVE BUT THERE IS MORE CLAYEY SILT THAN LIMESTONE AND SANDSTONE. TRACE OF MICA.
- 290 - 300 SANDSTONE; LIGHT OLIVE GRAY TO YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE
LOW SPHERICITY; GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: LIMESTONE-30%, PHOSPHATIC SAND- 5%
SILT-25%, SHELL-15%

OTHER FEATURES: CALCAREOUS
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
LITHOLOGY VARIES: CALCAREOUS, PHOSPHATIC, SHELLY SANDSTONE
SANDY, FINELY GROUND SHELLY LIMESTONE AND CLAYEY SILT WITH
SOME SHELL FRAGMENTS. LIMESTONE INCREASES TOWARD BOTTOM.

- 300 - 330 LIMESTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: QUARTZ SAND-25%, SILT-15%, SHELL-20%
PHOSPHATIC SAND- 3%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, BENTHIC FORAMINIFERA
SHARKS TEETH
MOLDIC, SANDY AND SHELLY LIMESTONE WITH FINE GRAINED
PHOSPHATE AND A CLAYEY SANDY SILT. SILT INCREASES TO ABOUT
50% WITH DEPTH. FEW LARGE SHELL FRAGMENTS.
- 330 - 365 SILT; LIGHT OLIVE GRAY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: MICA- 2%, PHOSPHATIC SAND- 2%
QUARTZ SAND-20%, SHELL- 3%
FOSSILS: SPICULES, ECHINOID, BARNACLES, BRYOZOA, MOLLUSKS
GASTROPODS. CLAYEY, SANDY SILT. SAND IS FINE TO VERY FINE
GRAINED. PHOSPHATE IS VERY FINE GRAINED. TRACE OF LIMESTONE
PROBABLY CAVINGS. SHELL INCREASES TO ABOUT 5% WITH DEPTH.
- 365 - 380 LIMESTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, BIOGENIC, SKELETAL
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SILT-25%, SHELL-20%, QUARTZ SAND-30%
MICA-<2%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, VERTEBRATE
BARNACLES
TURRITELLA. LITHOLOGY VARIES: SHELLY, SANDY LIMESTONE
CALCAREOUS SANDSTONE; AND CLAYEY, SANDY SILT. SILT
INCREASES TOWARD BOTTOM.
- 380 - 480 SILT; LIGHT OLIVE GRAY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-<1%, QUARTZ SAND-25%, MICA- 3%
LIMESTONE-<1%
FOSSILS: BENTHIC FORAMINIFERA, SPICULES, SHARKS TEETH
CLAYEY, SANDY SILT. SAND IS FINE TO VERY FINE GRAINED.
TRACE OF PHOSPHATE. INCREASE IN LIMESTONE AT 400-405FT.
ONLY.

480 - 490 SILT; LIGHT OLIVE GRAY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: LIMESTONE-30%, MICA-<2%
QUARTZ SAND-10%, SHELL-<2%
OTHER FEATURES: DOLOMITIC
LIMESTONE IS DOLOMITIC. TRACE OF PHOSPHATE.

490 - 495 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SILT-25%, MICA-<1%, QUARTZ SAND-20%
SHELL- 5%
OTHER FEATURES: DOLOMITIC, MEDIUM RECRYSTALLIZATION
POORLY WASHED SAMPLE. LIMESTONE VARIES: VERY SANDY
PHOSPHATIC LIMESTONE SOME WITH SHELL FRAGMENTS; AND A
DOLOMITIC MICRITE WITH MEDIUM TO HIGH RECRYSTALLIZATION.
SOME OF THE SILT IS DOLOSILT.

495 - 505 SILT; YELLOWISH GRAY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX, DOLOMITE CEMENT
CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: LIMESTONE-15%, SHELL-<1%
QUARTZ SAND- 5%
OTHER FEATURES: DOLOMITIC, LOW RECRYSTALLIZATION
TRACE OF PHOSPHATE. DOLOSILT PRESENT.

505 - 550 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: MOTTLED
ACCESSORY MINERALS: PHOSPHATIC SAND- 3%, SHELL- 5%
QUARTZ SAND- 5%, SILT- 8%
OTHER FEATURES: DOLOMITIC, MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BRYOZOA, ECHINOID, BENTHIC FORAMINIFERA
POORLY WASHED. MICROCRYSTALLINE MICRITE. SHELL FRAGMENTS
INCREASE TO ABOUT 40% WITH DEPTH.

550 - 575 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-35%, PHOSPHATIC SAND- 3%

SILT-15%, QUARTZ SAND-20%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, ECHINOID, BENTHIC FORAMINIFERA, BRYOZOA
CRUSTACEA
GASTROPODS, TURRITELLA. POORLY WASHED. LITHOLOGY VARIES:
MICROCRYSTALLINE MICRITE SLIGHTLY DOLOMITIC; SHELLY, SANDY
RECRYSTALLIZED LIMESTONE; PHOSPHATIC SILT SOME OF THE SILT
MAY BE DOLOSILT. SOME OF THE SHELLS ARE ENCRUSTED WITH
BRYOZOA, ROOTLET OR BURROW CAST OF SAND AND SPAR. <2% MICA.
PHOSPHATIC BONE FRAGMENT.

- 575 - 735 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-20%, PHOSPHATIC SAND- 3%
QUARTZ SAND- 5%
FOSSILS: MOLLUSKS, BARNACLES, ECHINOID, BRYOZOA
POORLY WASHED. CALCILUTITE AND SHELL FRAGMENTS; SMALL
AMOUNT OF SANDY LIMESTONE. PHOSPHATE IS VERY FINE TO SILT
SIZE. SHELL FRAGMENTS VARY WITH DEPTH. TRACE OF MICA.
- 735 - 765 SHELL BED; YELLOWISH GRAY
UNCONSOLIDATED
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: LIMESTONE-20%, CALCILUTITE-25%
PHOSPHATIC SAND- 3%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
POORLY WASHED. HARD TO PICK A LITHOLOGY FOR THIS INTERVAL
IT APPEARS TO BE MOSTLY SHELL FRAGMENTS WITH MUCH
RECRYSTALLIZATION; ALSO POORLY TO UNCONSOLIDATED
CALCILUTITE; AND PHOSPHATIC AND SANDY LIMESTONE WITH MEDIUM
INDURATION. APPEARS TO BE A SMALL AMOUNT OF DOLOSILT. SHELL
DECREASES SLIGHTLY WITH DEPTH AND LIMESTONE INCREASES.
- 765 - 860 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: SHELL-15%, PHOSPHATIC SAND-<2%
CHERT-<2%
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
SHARKS TEETH
SLIGHTLY DOLOMITIC. SHELL FRAGMENTS DECREASE WITH DEPTH TO
5-10%. PHOSPHATE INCREASES TO ABOUT 3-5% WITH DEPTH. SMALL
AMOUNT OF ROUNDED GRANULE SIZE PHOSPHATE FROM 800-860FT.
TRACE OF CALCAREOUS DOLOMITE FROM 825-860FT.
- 860 - 865 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC

40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL-10%, PHOSPHATIC SAND-<2%
QUARTZ SAND- 5%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, PLANT REMAINS
LITHOLOGY VARIES: PREDOMINENTLY A POORLY INDURATED
CALCILUTITE WITH <1% PHOSPHATE AND ROOT TRACES THROUGHOUT
SMALLER AMOUNT OF MOLDIC, SANDY LIMESTONE IRON STAINED WITH
LOW TO MEDIUM RECRYSTALLIZATION.

865 - 915 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CHERT-<1%, SHELL-<5%
PHOSPHATIC SAND-<1%
FOSSILS: SHARKS TEETH, ECHINOID, MOLLUSKS, PLANT REMAINS
SOME OF THE CLALCILUTITE IS MOTTLED WITH FINE SANDY SILT.

915 - 955 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, CALCILUTITE, BIOGENIC
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: GRAVEL; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: SHELL-50%, CALCILUTITE-35%
PHOSPHATIC SAND-<1%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, BRYOZOA
BENTHIC FORAMINIFERA
POORLY WASHED. MOST OF THIS INTERVAL APPEARS TO BE
RECRYSTALLIZED SHELL FRAGMENTS. TRACE OF SILTY CLAY CAST.
CALCILUTITE DECREASES WITH DEPTH.

955 - 975 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BRYOZOA
ABOUT 35% OF THIS INTERVAL IS RECRYSTALLIZED SHELL
FRAGMENTS AS ABOVE. SANDY PHOSPHATIC LIMESTONE; POORLY
INDURATED MICRITE; AND <1% GREENISH FISSILE CLAY.

975 - 995 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC

GRAIN TYPE: CALCILUTITE, SKELETAL, SKELTAL CAST
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND- 2%, SHELL-40%
QUARTZ SAND- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, BRYOZOA
SHARKS TEETH, ECHINOID
SMALL CLAM CAST. SEVERAL NUMMULITES PRESENT. INTERVAL IS
FINELY FRAGMENTED. LITHOLOGY VARIES: POORLY INDURATED
CALCILUTITE WITH SOME PHOSPHATE; SANDY, PHOSPHATIC
FOSSILIFEROUS LIMESTONE; AND WHAT APPEARS TO BE LOOSE
RECRYSTALLIZED SHELL FRAGMENTS GRANULE SIZE. NUMMULITES
INCREASE WITH DEPTH.

995 - 1015 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND- 3%, QUARTZ SAND-10%
SHELL-30%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, SHARKS TEETH
ECHINOID
CLAM CAST, MANY NUMMULITES. LITHOLOGY VARIES: SANDY
PHOSPHATIC LIMESTONE; POORLY INDURATED MICRITE SOME WITH
SAND. TRACE OF CLAY AND CHERT.

1015 - 1025 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND- 5%, QUARTZ SAND-15%
SHELL-20%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, ECHINOID
2 RECRYSTALLIZED DICTYOCONUS, FEW NUMMULITES. LITHOLOGY
VARIES: SANDY, PHOSPHATIC LIMESTONE; MICROCRYSTALLINE
MICRITE; POORLY INDURATED MICRITE. <1% PHOSPHATIC GRAVEL.
INTERVAL IS FINELY FRAGMENTED-SOME PIECES HAVE FINE GRAINED
QUARTZ SAND AND PHOSPHATE; OTHER PIECES ARE MEDIUM TO
COARSE GRAIN SAND AND PHOSPHATE. PROBABLY CAVINGS.

1025 - 1145 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRANULE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT

ACCESSORY MINERALS: SHELL- 5%, QUARTZ SAND- 3%
GLAUCONITE-<1%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
CRUSTACEA, MILIOLIDS
NUMMULITES, CLAM AND GASTROPOD CAST. FINELY FRAGMENTED
SAMPLES-COARSE TO GRANULE SIZE PIECES. SAMPLE IS TOO
FRAGMENTED TO ESTIMATE ALLOCHEMS. TRACE OF PHOSPHATE.
GLAUCONITIC FORAMS AND VERY FINE GRAINS OF GLAUCONITE IN
LIMESTONE WITH VERY FINE TO SILT SIZE QUARTZ SAND. SPARRY
CALCITE <5%. NUMMULITES SPARSE WITH DEPTH. TRACE OF CHERT.
DICTYOCONUS AMERICANUS.

1145 - 1150 NO SAMPLES

1150 - 1190 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL-<5%, DOLOMITE-<2%
QUARTZ SAND-<2%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, MILIOLIDS
CLAM AND GASTROPOD CAST. MEDIUM TO HIGH RECRYSTALLIZATION.
TRACE OF PHOSPHATE. TRACE OF GLAUCONITE (GLAUCONITIC FORAMS
AND VERY FINE GRAINS OF GLAUCONITE). SAND IS VERY FINE TO
SILT SIZE. SAMPLES NOT QUITE AS FRAGMENTED AS PREVIOUS
INTERVAL. TRACE OF CHERT. DOLOMITE DECREASES WITH DEPTH TO
0. SEVERAL DICTYOCONUS OF VARIOUS SIZES. RECRYSTALLIZED
ECHINOID AND ECHINOID FRAGMENTS. ABOUT 5-10% OF SAMPLE IS
VERY PALE ORANGE PACKSTONE AND INCREASES WITH DEPTH TO
40-50% AT BOTTOM.

1190 - 1195 PACKSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
15% POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, CRYSTALS
90% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: ORGANICS-<1%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, SHARKS TEETH
ALGAE
MANY DICTYOCONUS, RECRYSTALLIZED ECHINOID AND ECHINOID
FRAGMENTS. PACKSTONE TO GRAINSTONE FINELY FRAGMENTED.
MEDIUM TO HIGH RECRYSTALLIZATION. <10% LIMESTONE AS
ABOVE-SANDY, WITH SOME VERY FINE GRAINED PHOSPHATE AND
TRACE OF GLAUCONITE. <1% MEDIUM TO COARSE GRAINED
PHOSPHATE.

1195 - 1230 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS

GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 8%, SPAR- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, BRYOZOA, MOLLUSKS
CORAL
MANY DICTYOCONUS, MANY NUMMULITES. A LOT OF PIPE SCALE
PRESENT. LITHOLOGY VARIES: FOSSILIFEROUS PACKSTONE
LIMESTONE WITH VERY FINE GRAINED PHOSPHATE AND SAND; MOLDIC
LIMESTONE WITH VARYING AMOUNT OF RECRYSTALLIZATION. ABOUT
1% PHOSPHATIC GRAVEL, PROBABLY CAVINGS. PYRITIZED FORAM.
SHARK TOOTH, TEXTULARIA, DISCORINOPSIS GUNTERI.

1230 - 1325 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SPAR-10%, SHELL- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID, BRYOZOA, BENTHIC FORAMINIFERA, ALGAE
MILIOLIDS
MANY RECRYSTALLIZED ECHINOID AND ECHINOID FRAGMENTS. MEDIUM
TO HIGH RECRYSTALLIZATION. PELLETAL PACKSTONE; MOLDIC
LIMESTONE WITH PINPOINT VUGS; MICRITE; AND A SMALL AMOUNT
OF SANDY LIMESTONE PROBABLY CAVINGS. DICTYOCONUS VARY FEW
TO MANY.

1325 - 1340 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 3%, CHERT-<1%, SPAR-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID, BENTHIC FORAMINIFERA, MOLLUSKS, ALGAE
MANY DICTYOCONUS, MANY RECRYSTALLIZED ECHINOID AND ECHINOID
FRAGMENTS. PELLETAL-FORAMINIFERAL PACKSTONE; MICRITE
MOLDIC FOSSILIFEROUS LIMESTONE; SMALL AMOUNT OF SANDY
LIMESTONE PROBABLY CAVINGS. MEDIUM TO HIGH
RECRYSTALLIZATION.

1340 - 1380 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 8%, SPAR- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, ALGAE, MOLLUSKS

BRYOZOA
GYPSINA, TEXTULARIA, NUMMULITES, SPIROLINA, MANY
DICTYOCONUS. FINELY FRAGMENTED PIECES-SAND TO GRAVEL SIZE
(CALCARENITE). FORAMINIFERA, PELLETS, MICRITE, ECHINOID AND
ECHINOID FRAGMENTS RECRYSTALLIZED. TRACE OF CHERT.

- 1380 - 1420 Limestone; yellowish gray
15% porosity: intergranular, moldic, pin point vugs
grain type: pellet, skeletal, calcilutite
80% allochemical constituents
grain size: fine; range: microcrystalline to gravel
moderate induration
cement type(s): calcilutite matrix, sparry calcite cement
accessory minerals: shell- 3%, spar- 3%
other features: medium recrystallization
fossils: benthic foraminifera, echinoid, miliolids, algae
many dictyoconus, nummulites, Lituonella. Pelletal
foraminiferal packstone-grainstone; micrite; small amount
of very fine grained sandy phosphatic limestone and
phosphatic gravel probably cavings.
- 1420 - 1460 Packstone; yellowish gray
15% porosity: intergranular, moldic, pin point vugs
grain type: pellet, calcilutite, skeletal
85% allochemical constituents
grain size: fine; range: microcrystalline to gravel
moderate induration
cement type(s): calcilutite matrix, sparry calcite cement
accessory minerals: shell- 3%
fossils: mollusks, echinoid, benthic foraminifera, algae
bryozoa
Lituonella, many dictyoconus. Pelletal, foraminiferal
packstone; micrite; slightly dolomitic vuggy micrite; some
sandy phosphatic limestone cavings. Trace of organics.
Trace of phosphatic gravel cavings. Shell fragments
decrease with depth. Trace of algae\micrite laminations.
- 1460 - 1465 NO SAMPLES
- 1465 - 1595 Packstone; yellowish gray to very light orange
15% porosity: intergranular, moldic, pin point vugs
grain type: skeletal, pellet, calcilutite
85% allochemical constituents
grain size: fine; range: microcrystalline to gravel
moderate induration
cement type(s): calcilutite matrix, sparry calcite cement
accessory minerals: shell-<1%
other features: medium recrystallization
fossils: benthic foraminifera, echinoid, mollusks
miliolids
Lituonella, many dictyoconus, Textularia, Spirolina
Fabularia. Trace of algae\micrite laminations. Pelletal
foraminiferal packstone; micrite with varying amount of
recrystallization. Trace of organics. Trace of pyrite.
- 1595 - 1660 Limestone; yellowish gray to very light orange
10% porosity: intergranular, moldic, pin point vugs

GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 2%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, MOLLUSKS
POORLY WASHED. DICTYOCONUS, FABULARIA. THIS INTERVAL IS
LESS FRAGMENTED THEN PREVIOUS INTERVAL. SOME OF THE MICRITE
IS POORLY INDURATED. MICRITE WITH VARYING AMOUNTS OF
RECRYSTALLIZATION; PELLETAL, FORAMINIFERAL PACKSTONE. TRACE
OF ORGANICS AND PYRITE. TRACE OF ALGAE\MICRITE LAMINATIONS.
2CM CLAM SHELL AT 1610-1615FT.

1660 - 1810 LIMESTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
15% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL-<2%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, MOLLUSKS
ABUNDANT DICTYOCONUS VARIOUS SIZES. LITHOLOGY VARIES:
MICRITE WITH 5-45% ALLOCHEMS WITH VARYING AMOUNT OF
RECRYSTALLIZATION AND PINPOINT VUGS; PELLETAL
FORAMINIFERAL PACKSTONE; SOME LARGER PIECES OF CALCAREOUS
SANDSTONE WITH IRON STAINING PROBABLY CAVINGS. A 3 X 15CM
SANDY CLAM CAST WITH IRON STAINING PROBABLY CAVINGS. TRACE
OF ORGANICS AND IRON SULFIDE. PLANT MATERIAL FOUND TOWARD
BOTTOM-CAVINGS? GRAVEL SIZE PIECE OF FRACTURED QUARTZ
FOUND AT 1760-1765FT., AND 1CM SIZE PIECE OF QUARTZ AT
1775-1780FT.

1810 - 1840 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
DICTYOCONUS. MICRITE AND PELLETAL FORAMINIFERAL PACKSTONE.
APPEARS TO BE HAWTHORN MATERIAL MIXED WITH AVON PARK
PROBABLY CAVINGS. GRAVEL SIZE PHOSPHATE; MICACEOUS, SANDY
SILT; SANDY PHOSPHATIC LIMESTONE; AND SHELL MATERIAL
APPEARS RECENT. SOME OF THE LIMESTONE IS DOLOMITIC. ABOUT
20-30% OF THE INTERVAL IS SANDY SILT. BONE FRAGMENTS
SHARKS TOOTH, TURRITELLA.

1840 - 1845 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC

GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
DICTYOCONUS. MICRITE AND PELLETAL, FORAMINIFERAL PACKSTONE.
APPEARS TO BE HAWTHORN AND AVON PARK MIXED. SANDY
PHOSPHATIC LIMESTONE, MUCH LESS SILT THAN ABOVE. SOME OF
THE LIMESTONE IS DOLOMITIC. GRAVEL SIZE PHOSPHATE. PROBABLY
CAVINGS.

1845 - 1860 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL- 5%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
MANY DICTYOCONUS SOME LARGE, MANY SMALL ECHINOIDS. TRACE OF
ORGANICS. SANDY PHOSPHATIC LIMESTONE PROBABLY CAVINGS.
PELLETAL, FORAMINIFERAL PACKSTONE; MOLDIC MICRITE WITH
PINPOINT VUGS; SOME POORLY INDURATED CHALKY LIMESTONE.

1860 - 1865 LIMESTONE; YELLOWISH GRAY TO WHITE
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MICROCRYSTALLINE
RANGE: MICROCRYSTALLINE TO GRAVEL; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL-<3%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA
DICTYOCONUS. DRILLING CEMENT PRESENT. <1% DOLOMITIC
LIMESTONE. CHLAKY WHITE LIMESTONE WITH POOR INDURATION
MICRITE; AND SOME SANDY PHOSPHATIC LIMESTONE PROBABLY
CAVINGS.

1865 - 1885 LIMESTONE; WHITE TO YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MICROCRYSTALLINE
RANGE: MICROCRYSTALLINE TO GRAVEL; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 8%
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, BRYOZOA
DICTYOCONUS, FEW LARGE SHELL FRAGMENTS. DRILLING CEMENT
PRESENT. LITHOLOGY VARIES: CHALKY WHITE LIMESTONE WITH POOR

INDURATION; MICRITE; <1% CALCAREOUS, SUCROSIC DOLOMITE
TRACE OF SANDY LIMESTONE CAVINGS. <1% IRON SULFATE.

- 1885 - 1890 LIMESTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL-10%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
POORLY WASHED. DICTYOCONUS. APPEARS TO BE AVON PARK AND
HAWTHORN MIXED. ABOUT 20% MICACEOUS, SANDY SILT. REST OF
INTERVAL CONSISTS OF: MICRITE WITH VARYING AMOUNT OF
ALLOCHEMS; DOLOMITIC LIMESTONE; MICROCRYSTALLINE MICRITE
SANDY, PHOSPHATIC LIMESTONE WHICH IS PROBABLY CAVINGS.
- 1890 - 1920 LIMESTONE; YELLOWISH GRAY TO LIGHT GRAY
8% POROSITY: INTERGRANULAR, MOLDIC, VUGULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL- 5%, DOLOMITE- 8%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: ECHINOID, BENTHIC FORAMINIFERA, BRYOZOA
BARNACLES
DICTYOCONUS. DRILLING CEMENT PRESENT. SANDY PHOSPHATIC
LIMESTONE AND PHOSPHATIC GRAVEL PROBABLY CAVINGS. DOLOMITE
IS CALCAREOUS. SOME OF THE LIMESTONE PIECES ARE SMOOTH AND
ROUNDED. MICROCRYSTALLINE MICRITE; MOLDIC LIMESTONE; LARGE
AMOUNT OF SANDY PHOSPHATIC LIMESTONE. DOLOMITE DECREASES
WITH DEPTH.
- 1920 - 1970 LIMESTONE; YELLOWISH GRAY
10% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: SHELL- 5%, DOLOMITE- 2%
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, BARNACLES
BRYOZOA, MOLLUSKS
MANY DICTYOCONUS, VARIOUS SIZES. TURRITELLA, CLAM SHELLS
AND CASTS. SOME OF THE LIMESTONE IS SMOOTH AND ROUNDED.
LITHOLOGY VARIES: PELLETAL FORAMINIFERAL PACKSTONE
MICROCRYSTALLINE MICRITE; SANDY PHOSPHATIC LIMESTONE
PROBABLY CAVINGS. PIECE OF PHOSPHATIC BONE. DOLOMITE IS
CALCAREOUS AND MOLDIC AND SOME OF THE ALLOCHEMS APPEAR
PHOSPHATIC. TRACE OF CHERT AND PYRITE.

1970 - 1995 CALCARENITE; YELLOWISH GRAY TO WHITE
15% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY COARSE; RANGE: MICROCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 3%
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
ABUNDANT DICTYOCONUS. PLANT MATERIAL PRESENT. INTERVAL IS
FRAGMENTED VERY COARSE TO GRANULE SIZE.

1995 - 2025 LIMESTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 3%, DOLOMITE-<1%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA
MANY DICTYOCONUS. LITHOLOGY VARIES: FORAMINIFERAL, PELLETAL
PACKSTONE; MOLDIC MICRITE; SANDY PHOSPHATIC LIMESTONE
PROBABLY CAVINGS. DOLOMITE IS BROWN TO GRAY AND CALCAREOUS.
POORLY INDURATED CALCILUTITE PRESENT.

2025 - 2055 LIMESTONE; WHITE TO YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, MOLDIC, PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, SKELETAL, BIOGENIC
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: SHELL- 3%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, ECHINOID
MANY DICTYOCONUS. TRACE OF ORGANIC LAMINATIONS (ALGAE).
LITHOLOGY VARIES: POORLY INDURATED CALCILUTITE
FORAMINIFERAL, PELLETAL, PACKSTONE WITH MANY DICTYOCONUS
VUGGY WHITER MICRITE WITH NO DICTYOCONUS; AND A MOLDIC
SANDY, PHOSPHATIC LIMESTONE WITH ORGANICS PROBABLY CAVINGS.

2055 - 2070 LIMESTONE; YELLOWISH GRAY TO LIGHT GRAY
10% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
PIN POINT VUGS
GRAIN TYPE: CALCILUTITE, CRYSTALS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%, SHELL- 3%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS
DICTYOCONUS. VUGGY PELLETAL MICRITE; CALCAREOUS DOLOMITE
SANDY, MOLDIC LIMESTONE PROBABLY CAVINGS.

- 2070 - 2145 DOLOSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
 10% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
 PIN POINT VUGS; 50-90% ALTERED; ANHEDRAL
 GRAIN SIZE: VERY FINE; RANGE: MICROCRYSTALLINE TO FINE
 GOOD INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 DOLOMITE CEMENT
 ACCESSORY MINERALS: LIMESTONE-20%, SHELL-<1%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION
 FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS
 POORLY WASHED. FEW DICTYOCONUS. TRACE OF ORGANICS.
 CALCAREOUS APHANITIC DOLOMITE; MICROCRYSTALLINE DOLOMITE
 WITH SOME CALCAREOUS ALLOCHEMS. LIMESTONE AS DESCRIBED
 ABOVE. LIMESTONE DECREASES WITH DEPTH TO <5%.
- 2145 - 2150 DOLOSTONE; OLIVE GRAY TO VERY LIGHT ORANGE
 10% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
 SUBHEDRAL
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO FINE
 MODERATE INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
 CALCILUTITE MATRIX
 ACCESSORY MINERALS: LIMESTONE-10%
 OTHER FEATURES: HIGH RECRYSTALLIZATION, SUCROSIC, COQUINA
 FOSSILS: BENTHIC FORAMINIFERA
 FEW DICTYOCONUS AND SHELLS. DRILLING CEMENT PRESENT.
 APPEARS TO HAVE CAVINGS: CALCAREOUS PHOSPHATIC SILT, AND A
 SANDY LIMESTONE SOMETIMES PHOSPHATIC. APHANITIC DOLOMITE
 AND A FINE CRYSTALLINE, POROUS, VUGGY DOLOMITE. TRACE OF
 PYRITE.
- 2150 - 2155 DOLOSTONE; GRAYISH BROWN TO OLIVE GRAY
 5% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
 SUBHEDRAL
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO FINE
 GOOD INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
 OTHER FEATURES: HIGH RECRYSTALLIZATION, SUCROSIC
 VUGGY, APHANITIC DOLOMITE WITH DOLOSPAR FILLING THE VUGS
 FINE EUHEDRAL, POROUS, VUGGY DOLOMITE.
- 2155 - 2170 DOLOSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
 10% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
 SUBHEDRAL
 GRAIN SIZE: MICROCRYSTALLINE
 RANGE: CRYPTOCRYSTALLINE TO FINE; MODERATE INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
 OTHER FEATURES: SUCROSIC, HIGH RECRYSTALLIZATION
 APHANITIC, DOLOMITE; AND SUCROSIC, VUGGY DOLOMITE. DOLOSPAR
 COATS SOME PIECES. SOME OF THE DOLOMITE IS DARKER GRAYISH
 BROWN. TRACE OF ORGANICS.
- 2170 - 2180 DOLOSTONE; GRAYISH BROWN
 5% POROSITY: INTERCRYSTALLINE, VUGULAR; 90-100% ALTERED
 SUBHEDRAL
 GRAIN SIZE: MICROCRYSTALLINE

RANGE: CRYPTOCRYSTALLINE TO FINE; GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
OTHER FEATURES: SUCROSIC, HIGH RECRYSTALLIZATION
APHANITIC DOLOMITE AND A MICROCRYSTALLINE VUGGY DOLOMITE.
SOME OF THE VUGS AND DOLOMITE ARE COATED WITH DOLOSPAR.
SAML L AMOUNT OF DARK GRAY DOLOMITE.

2180 - 2185 DOLOSTONE; GRAYISH BROWN TO LIGHT OLIVE GRAY
5% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: MICROCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO FINE; GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: PYRITE-<1%, LIMESTONE- 2%
OTHER FEATURES: HIGH RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA
APHANITIC, VUGGY DOLOMITE WITH DOLOSPAR AND FLECKS OF
PYRITE; APHANITIC DOLOMITE WITH RECRYSTALLIZED ALLOCHEMS.
LIMESTONE IS POOR TO MEDIUM INDURATION PROBABLY CAVINGS.

2185 - 2200 DOLOSTONE; MODERATE YELLOWISH BROWN TO GRAYISH BROWN
15% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: CRYPTOCRYSTALLINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
OTHER FEATURES: HIGH RECRYSTALLIZATION, SUCROSIC
FOSSILS: VERTEBRATE
DICTYOCONUS, AND TRACE OF LIMESTONE PROBABLY CAVINGS. TRACE
OF ORGANICS. APHANITIC, VUGGY DOLOMITE WITH SOME
DOLOSPAR-GOOD INDURATION; EUHEDRAL TO SUBHEDRAL, POROUS
VUGGY, POORLY INDURATED, MICROCRYSTALLINE DOLOMITE.

2200 - 2205 DOLOSTONE; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
5% POROSITY: INTERGRANULAR, INTERCRYSTALLINE, VUGULAR
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: CRYPTOCRYSTALLINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, DOLOMITE CEMENT
ACCESSORY MINERALS: LIMESTONE-20%
OTHER FEATURES: HIGH RECRYSTALLIZATION
DOLOMITIC LIMESTONE WITH DOLOSPAR FILLING VUGS AND
REPLACING ALLOCHEMS; AND A MORE COARSELY CRYSTALLINE
BROWNISH GRAY DOLOMITE.

2205 - 2210 DOLOSTONE; GRAYISH BROWN
10% POROSITY: INTERCRYSTALLINE, VUGULAR; 90-100% ALTERED
SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: CRYPTOCRYSTALLINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
OTHER FEATURES: SUCROSIC, HIGH RECRYSTALLIZATION
SUCROSIC DOLOMITE AND A VUGGY, MICROCRYSTALLINE DOLOMITE.

2210 - 2215 DOLOSTONE; GRAYISH BROWN TO VERY LIGHT ORANGE
5% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
SUBHEDRAL

GRAIN SIZE: VERY FINE; RANGE: CRYPTOCRYSTALLINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT

2215 - 2240 DOLOSTONE; GRAYISH BROWN
5% POROSITY: INTERCRYSTALLINE, VUGULAR; 50-90% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: CRYPTOCRYSTALLINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
OTHER FEATURES: HIGH RECRYSTALLIZATION
TRACE OF POORLY INDURATED WHITE LIMESTONE PROBABLY CAVINGS.
FINELY, CRYSTALLINE, POROUS, VUGGY DOLOMITE; APHANTIC
DOLOMITE; AND A MORE COARSELY CRYSTALLINE DOLOMITE. ALL
WITH VARYING AMOUNTS OF VUGGINESS. COLOR DARKENS WITH
DEPTH.

2240 - 2245 LIMESTONE; YELLOWISH GRAY
5% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
GRAIN TYPE: CRYSTALS, CALCILUTITE
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE- 5%
OTHER FEATURES: HIGH RECRYSTALLIZATION, DOLOMITIC
DOLOMITE PROBABLY CAVINGS. DOLOMITIC LIMESTONE WITH
RECRYSTALLIZED ALLOCHEMS AND MANY PIECES COATED WITH
DOLOSPAR OR SPARRY CALCITE. TRACE OF GLAUCONITE AND PYRITE.

2245 - 2250 DOLOSTONE; LIGHT GRAY TO VERY LIGHT ORANGE
5% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
50-90% ALTERED; SUBHEDRAL
GRAIN SIZE: MICROCRYSTALLINE
RANGE: CRYPTOCRYSTALLINE TO FINE; GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: LIMESTONE-10%
OTHER FEATURES: HIGH RECRYSTALLIZATION
DRILLING CEMENT PRESENT. VERY FINE GRAINED DOLOMITE WITH
DOLOSPAR AND RECRYSTALLIZED ALLOCHEMS.

2250 - 2280 PACKSTONE; YELLOWISH GRAY
15% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
GRAIN TYPE: PELLET, SKELETAL, CRYSTALS
95% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: MEDIUM RECRYSTALLIZATION
FOSSILS: BENTHIC FORAMINIFERA, ECHINOID
DICTYOCONUS. FEW LARGER PIECES OF FINE GRAINED DOLOMITE AS
ABOVE PROBABLY CAVINGS. RECRYSTALLIZED SHELL FRAGMENTS.
FRAGMENTED PELLETAL PACKSTONE WITH FINE GRAINED DOLOMITE
RHOMBS.

2280 - 2285 PACKSTONE; YELLOWISH GRAY
 10% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
 GRAIN TYPE: PELLET, SKELETAL, CRYSTALS
 80% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
 MODERATE INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
 DOLOMITE CEMENT
 ACCESSORY MINERALS: DOLOMITE-35%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION
 FOSSILS: BENTHIC FORAMINIFERA, ECHINOID
 PELLETAL, FORAMINIFERAL PACKSTONE WITH FINE GRAINED
 DOLOMITE RHOMBS; AND DOLOMITE THAT IS APHANITIC TO
 SUCROSIC. MEDIUM TO HIGH RECRYSTALLIZATION. DICTYOCONUS.

2285 - 2320 PACKSTONE; YELLOWISH GRAY
 15% POROSITY: INTERGRANULAR, INTERCRYSTALLINE
 GRAIN TYPE: PELLET, SKELETAL, CRYSTALS
 90% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO GRAVEL
 POOR INDURATION
 CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
 DOLOMITE CEMENT
 ACCESSORY MINERALS: DOLOMITE-15%
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION
 FOSSILS: BENTHIC FORAMINIFERA, ECHINOID
 FORAMINIFERAL, PELLETAL PACKSTONE TO GRAINSTONE WITH FINE
 GRAINED DOLOMITE RHOMBS; AND DOLOMITE THAT IS APHANITIC TO
 SUCROSIC AND VUGGY. ABOUT 3% RECRYSTALLIZED SHELL
 FRAGMENTS. DOLOMITE DECREASES WITH DEPTH. DICTYOCONUS.

2320 - 2370 PACKSTONE; YELLOWISH GRAY
 20% POROSITY: INTERGRANULAR, MOLDIC
 GRAIN TYPE: PELLET, SKELETAL, CALCILUTITE
 90% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO GRAVEL
 MODERATE INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
 OTHER FEATURES: MEDIUM RECRYSTALLIZATION
 FOSSILS: BENTHIC FORAMINIFERA, ECHINOID, MILIOLIDS
 BRYOZOA
 FORMINIFERAL, PELLETAL PACKSTONE. DICTYOCONUS.
 RECRYSTALLIZED SHELL AND ECHINOID AND ECHINOID FRAGMENTS.

2370 TOTAL DEPTH