

Gasparrillo Injection Well W-15749

7-1928

765 Lithologic Description: W-15749
SFWMD Geophy. Log # 071-46

W-15749

Jul 95

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-15749
TOTAL DEPTH: 1928 FT.
189 SAMPLES FROM 0 TO 1928 FT.

COUNTY - MLEE
LOCATION: T.43S R.20E S.14
LAT = 26D 43M 25S
LON = 82D 15M 35S

COMPLETION DATE: N/A
OTHER TYPES OF LOGS AVAILABLE - NONE

ELEVATION: 6 FT

OWNER/DRILLER: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WORKED BY: MARTIN BALINSKY (4-25-95)

WELL NAME SB-1-SLCS (TW2).

SFWM ID# FOR CUTTINGS IS 071-20.

WELL IS THE GASPARILLO INJECTION WELL IN THE CITY OF BOCA GRANDE

- 0. - 173. 121PCPC PLIOCENE-PLEISTOCENE
- 173. - 760. 122HTRN HAWTHORN GROUP
- 760. - 950. 123SWNN SUWANNEE LIMESTONE
- 950. - 1147. 124OCAL OCALA GROUP
- 1147. - 1928. 124AVPK AVON PARK FM.

- 0 - 30 NO SAMPLES

- 30 - 90 SHELL BED; WHITE TO LIGHT GRAY
35% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-03%, PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS

- 90 - 140 LIMESTONE; MODERATE YELLOWISH BROWN TO PINKISH GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
ACCESSORY MINERALS: IRON STAIN-05%, DOLOMITE-25%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS

- 140 - 143 LIMESTONE; YELLOWISH GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS

- 143 - 150 CLAY; DARK GRAYISH YELLOW
20% POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%

- 150 - 157 CLAY; DARK GRAYISH YELLOW
25% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
UNCONSOLIDATED
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS
- 157 - 180 CALCILUTITE; YELLOWISH GRAY TO PINKISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA
- 180 - 200 CALCILUTITE; YELLOWISH GRAY TO GRAYISH YELLOW
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%
FOSSILS: BENTHIC FORAMINIFERA
- 200 - 258 CALCILUTITE; VERY LIGHT GRAY TO LIGHT GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
UNCONSOLIDATED
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
- 258 - 272 CALCARENITE; GRAYISH YELLOW TO VERY LIGHT GRAY
25% POROSITY: INTERGRANULAR, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
UNCONSOLIDATED
ACCESSORY MINERALS: DOLOMITE-15%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
THERE ARE SOME WELL-FORMED CALCITE CRYSTALS EXISTANT AS
VUGS

- 272 - 340 Limestone; yellowish gray to very light gray
15% porosity: low permeability
grain type: calcilutite, skeletal
45% allochemical constituents
grain size: very fine; range: very fine to fine
moderate induration
cement type(s): calcilutite matrix
accessory minerals: dolomite-20%, phosphatic sand-05%
other features: dolomitic
fossils: mollusks, benthic foraminifera
- 340 - 430 Limestone; yellowish gray to light olive
10% porosity: low permeability
grain type: calcilutite, skeletal
05% allochemical constituents
grain size: very fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix
accessory minerals: phosphatic sand-05%
other features: frosted
fossils: benthic foraminifera
- 430 - 460 Calcilutite; yellowish gray to white
20% porosity: intergranular
grain type: calcilutite, skeletal
45% allochemical constituents
grain size: very fine; range: very fine to fine
poor induration
cement type(s): calcilutite matrix
accessory minerals: phosphatic sand-05%, dolomite-25%
other features: frosted, dolomitic
fossils: benthic foraminifera
- 460 - 510 Calcilutite; very light gray to light gray
15% porosity: low permeability
grain type: calcilutite, skeletal
45% allochemical constituents
grain size: very fine; range: very fine to fine
moderate induration
cement type(s): calcilutite matrix
accessory minerals: phosphatic sand-05%, dolomite-25%
quartz sand-02%
other features: frosted, dolomitic
fossils: mollusks, benthic foraminifera

- 510 - 520 Limestone; dark grayish yellow to pinkish gray
15% porosity: low permeability
grain type: calcilutite, skeletal
grain size: fine; unconsolidated
cement type(s): calcilutite matrix
accessory minerals: phosphatic sand-03%, dolomite-30%
other features: dolomitic
fossils: mollusks, benthic foraminifera
two types of aggregates exist--one is frosty and has a dusky yellow color. the other type is more white and chalky. darker type is higher in dolomite, while other is more calcitic.
- 520 - 540 Limestone; dark grayish yellow to pinkish gray
15% porosity: low permeability
grain type: calcilutite, skeletal
70% allochemical constituents
grain size: fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, sparry calcite cement
dolomite cement
accessory minerals: phosphatic sand-05%, dolomite-45%
other features: frosted, dolomitic
fossils: mollusks
some regions of good dolomitization. some regions where dolomite is the dominant lithology. phosphates included in matrix.
- 540 - 550 Limestone; dark grayish yellow to pinkish gray
15% porosity: low permeability
grain type: calcilutite, crystals
70% allochemical constituents
grain size: fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: phosphatic sand-03%, dolomite-35%
other features: dolomitic
- 550 - 560 Limestone; dark grayish yellow to pinkish gray
15% porosity: low permeability
grain type: calcilutite, crystals
60% allochemical constituents
grain size: fine; range: very fine to fine
moderate induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: phosphatic sand-05%, dolomite-40%
other features: dolomitic
as above, two types of grain aggregates--same types as above. dark aggregates well consolidated, light poorly consolidated.

- 560 - 570 LIMESTONE; LIGHT OLIVE TO WHITE
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-30%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA
- 570 - 610 LIMESTONE; LIGHT OLIVE TO WHITE
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, DOLOMITE-35%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS
- 610 - 620 CALCILUTITE; WHITE TO DARK GRAYISH YELLOW
50% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-20%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS
STILL THE DOLOMITE-DOMINANT DUSKY YELLOW GRAINS PRESENT
BUT NOT EARLY AS MANY AS ABOVE--COULD BE CAVINGS
- 620 - 630 CALCILUTITE; WHITE TO GRAYISH BROWN
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-10%
OTHER FEATURES: DOLOMITIC
GETTING CONSIDERABLY LESS DOLOMITIC--CHALKY LIMESTONE
BECOMING DOMINANT. CHALKY LIMESTONE LESS WELL CONSOLIDATED
THAN DOLOMITE.

- 630 - 640 CALCILUTITE; WHITE TO LIGHT BROWNISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 01% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
- 640 - 650 CALCILUTITE; YELLOWISH GRAY TO VERY LIGHT GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
02% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS
LESS PHOSPHATIC THAN ABOVE SECTION
- 650 - 670 CALCILUTITE; WHITE TO VERY LIGHT GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
SOME DOLOMITIC AGGREGATES AS INCLUSIONS IN WHITE
CALCILUTITE
- 670 - 690 CALCILUTITE; PINKISH GRAY TO VERY LIGHT GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA

- 690 - 700 CALCILUTITE; WHITE TO DARK GRAYISH YELLOW
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
DOLOMITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, DOLOMITE-35%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS
LESS PHOSPHATIC THAN ABOVE SECTION--MORE DOLOMITIC
- 700 - 710 CALCILUTITE; GRAYISH BROWN TO YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
- 710 - 730 CALCILUTITE; YELLOWISH GRAY TO VERY LIGHT GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, DOLOMITE-35%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
- 730 - 740 CALCILUTITE; WHITE TO VERY LIGHT GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, DOLOMITE-10%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA

- 740 - 750 CALCILUTITE; WHITE TO YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 01% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, DOLOMITE-05%
OTHER FEATURES: DOLOMITIC
LAST TWENTY FEET GETTING INCREASINGLY LESS WELL
CONSOLIDATED AND MORE DOMINANTLY CHALKY CALCITIC UNIT
- 750 - 760 CALCILUTITE; WHITE
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO VERY FINE
UNCONSOLIDATED
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
ESSENTIALLY A CHALK AT THIS POINT
- 760 - 780 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO VERY FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC
NO MORE PHOSPHATE GRAINS, AND LESS DOLOMITE. IT IS LIKELY
THAT THE BASE OF THE HAWTHORNE IS ABOUT 760 FEET AND THE
TOP OF THE SUWANEE IS ABOUT 760 FEET.
- 780 - 790 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ACCESSORY MINERALS: DOLOMITE-05%
AT THIS DEPTH THE LIMESTONE HAS UNDERGONE EXTENSIVE
RECRYSTALLIZATION
- 790 - 800 LIMESTONE; YELLOWISH GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL, CRYSTALS
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
FOSSILS: MOLLUSKS

- 800 - 810 Limestone; yellowish gray
20% porosity: low permeability
grain type: calcilutite, crystals
10% allochemical constituents
grain size: very fine; range: very fine to fine
poor induration
cement type(s): calcilutite matrix
- 810 - 830 Limestone; white
15% porosity: low permeability
grain type: calcilutite, crystals, skeletal
10% allochemical constituents
grain size: very fine; range: very fine to fine
moderate induration
cement type(s): calcilutite matrix
fossils: mollusks
The past twenty feet of section has undergone only minor recrystallization, so there are considerably fewer large grains.
- 830 - 840 Limestone; grayish orange to dark grayish yellow
10% porosity: low permeability
grain type: calcilutite, crystals, skeletal
70% allochemical constituents
grain size: fine; range: very fine to medium
good induration
cement type(s): sparry calcite cement, calcilutite matrix
fossils: mollusks
- 840 - 850 A fair amount of recrystallization--some of the aggregates are high in shell content, almost like coquina.
- 850 - 870 Limestone; very light gray to grayish orange
10% porosity: low permeability
grain type: calcilutite, crystals, skeletal
20% allochemical constituents
grain size: fine; range: very fine to medium
good induration
cement type(s): calcilutite matrix
fossils: mollusks
- 870 - 880 Limestone; grayish orange to grayish brown
15% porosity: low permeability
grain type: calcilutite, crystals
65% allochemical constituents
grain size: fine; range: very fine to medium
good induration
cement type(s): sparry calcite cement, calcilutite matrix

- 880 - 900 Limestone; Very Light Gray
15% Porosity: Low Permeability
Grain Type: Crystals, Calcilutite
75% Allochemical Constituents
Grain Size: Fine; Range: Very Fine to Medium
Good Induration
Cement Type(s): Sparry Calcite Cement, Calcilutite Matrix
- 900 - 910 Limestone; Very Light Orange to Light Brownish Gray
15% Porosity: Low Permeability
Grain Type: Crystals, Calcilutite
65% Allochemical Constituents
Grain Size: Fine; Range: Very Fine to Medium
Good Induration
Cement Type(s): Sparry Calcite Cement, Calcilutite Matrix
Still dominantly calcite crystals, but some aggregates of brown and gray colored noncrystalline forms.
- 910 - 930 Limestone; Very Light Orange to Light Olive Gray
15% Porosity: Low Permeability
Grain Type: Crystals, Calcilutite
75% Allochemical Constituents
Grain Size: Fine; Range: Very Fine to Medium
Good Induration
Cement Type(s): Sparry Calcite Cement, Calcilutite Matrix
Fossils: Mollusks
- 930 - 940 Calcilutite; Very Light Orange to Moderate Yellowish Brown
20% Porosity: Low Permeability
Grain Type: Crystals, Calcilutite
80% Allochemical Constituents
Grain Size: Fine; Range: Very Fine to Medium
Poor Induration
Cement Type(s): Sparry Calcite Cement, Calcilutite Matrix
Fossils: Mollusks
- 940 - 950 Calcilutite; Very Light Orange to Moderate Yellowish Brown
15% Porosity: Low Permeability
Grain Type: Crystals, Calcilutite
85% Allochemical Constituents
Grain Size: Fine; Range: Very Fine to Medium
Moderate Induration
Cement Type(s): Sparry Calcite Cement, Calcilutite Matrix

- 950 - 970 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
CORALS PRESENT. THEIR EXISTENCE, COMBINED WITH THE
DIFFERENCE IN INDURATION (MODERATE TO POOR) SUGGESTS THAT
THE CONTACT BETWEEN THE OCALA FORMATION LIES AT ABOUT 950
FEET.
- 970 - 993 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA
CORALS PRESENT.
- 993 - 1010 CALCILUTITE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
FOSSILS: MOLLUSKS
CONES AND ECHINOID SPINES PRESENT. CONE TYPE DIFFICULT TO
DETERMINE
- 1010 - 1020 CALCILUTITE; MODERATE ORANGE PINK
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
ECHINOID SPINES PRESENT
- 1020 - 1027 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
FOSSILS: MOLLUSKS
CORALS PRESENT

- 1027 - 1040 LIMESTONE; YELLOWISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
FOSSILS: MOLLUSKS
- 1040 - 1057 LIMESTONE; YELLOWISH GRAY TO GRAYISH ORANGE
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
- 1057 - 1060 LIMESTONE; YELLOWISH GRAY TO LIGHT BROWNISH GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
FOSSILS: MOLLUSKS
- 1060 - 1083 CALCILUTITE; VERY LIGHT ORANGE
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
LEPIDOCYCLINA PRESENT
- 1083 - 1090 LIMESTONE; LIGHT BROWN TO WHITE
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
85% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS
NUMMULITES PRESENT
- 1090 - 1110 LIMESTONE; YELLOWISH GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA

- 1110 - 1115 Limestone; LIGHT GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CRYSTALS, CALCILUTITE, SKELETAL
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS
LEPIDOCYCLINA PRESENT
- 1115 - 1147 Limestone; YELLOWISH GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA
LEPIDOCYCLINA, NUMMULITES PRESENT
- 1147 - 1180 Limestone; LIGHT GRAY TO WHITE
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
THERE APPEARS TO BE A LITHOLOGIC CHANGE, WITH THE EXISTENCE
OF DOLOMITE IN SIGNIFICANT AMOUNTS HERE. THIS SUGGESTS A
LITHOLOGIC BREAK BETWEEN THE OCALA FORMATION AND THE AVON
PARK FORMATION.
- 1180 - 1200 Limestone; LIGHT GRAY TO WHITE
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA

- 1200 - 1220 Limestone; light gray to white
10% porosity: low permeability
grain type: calcilutite, skeletal
10% allochemical constituents
grain size: very fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: dolomite-40%
other features: dolomitic
fossils: benthic foraminifera
bryozoans present.
- 1220 - 1230 Limestone; light gray
10% porosity: low permeability
grain type: calcilutite, skeletal
15% allochemical constituents
grain size: very fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: dolomite-25%
other features: dolomitic
fossils: benthic foraminifera
bryozoans present.
- 1230 - 1240 Limestone; white
10% porosity: low permeability
grain type: calcilutite, skeletal
10% allochemical constituents
grain size: very fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: dolomite-40%
other features: dolomitic
fossils: benthic foraminifera
- 1240 - 1250 Limestone; light gray to white
10% porosity: low permeability
grain type: calcilutite, skeletal
10% allochemical constituents
grain size: very fine; range: very fine to fine
good induration
cement type(s): calcilutite matrix, dolomite cement
accessory minerals: dolomite-45%
other features: dolomitic
fossils: benthic foraminifera

- 1250 - 1260 LIMESTONE; WHITE TO LIGHT GRAY
 10% POROSITY: LOW PERMEABILITY
 GRAIN TYPE: CALCILUTITE, SKELETAL
 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
 GOOD INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
 ACCESSORY MINERALS: DOLOMITE-30%
 OTHER FEATURES: DOLOMITIC
 FOSSILS: BENTHIC FORAMINIFERA
 BRYOZOANS PRESENT.
- 1260 - 1270 LIMESTONE; LIGHT GRAY TO WHITE
 10% POROSITY: LOW PERMEABILITY
 GRAIN TYPE: CALCILUTITE, SKELETAL
 10% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
 GOOD INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
 ACCESSORY MINERALS: DOLOMITE-30%
 OTHER FEATURES: DOLOMITIC
 FOSSILS: BENTHIC FORAMINIFERA
- 1270 - 1280 DOLOSTONE; VERY LIGHT GRAY
 20% POROSITY: INTERGRANULAR; 90-100% ALTERED; SUBHEDRAL
 GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
 GOOD INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 ACCESSORY MINERALS: CALCITE-05%
 OTHER FEATURES: CALCAREOUS
- 1280 - 1290 DOLOSTONE; DARK GRAYISH YELLOW
 15% POROSITY: LOW PERMEABILITY; 90-100% ALTERED; SUBHEDRAL
 GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
 MODERATE INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 ACCESSORY MINERALS: CALCITE-05%
 OTHER FEATURES: CALCAREOUS
 FOSSILS: BENTHIC FORAMINIFERA
- 1290 - 1300 DOLOSTONE; GRAYISH ORANGE
 15% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
 GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO VERY FINE
 MODERATE INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 ACCESSORY MINERALS: CALCITE-05%
 OTHER FEATURES: CALCAREOUS
 FOSSILS: BENTHIC FORAMINIFERA

- 1300 - 1305 DOLOSTONE; LIGHT BROWNISH GRAY TO GRAYISH ORANGE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO VERY FINE
GOOD INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-05%
OTHER FEATURES: CALCAREOUS
THE PAST 25 FEET OF SECTION CONSIST OF DOLOMITE WITH ZONES
OF CALCITE, PERHAPS REFLECTANT OF INCOMPLETE
DOLOMITIZATION.
- 1305 - 1310 CALCILUTITE; DARK GRAYISH YELLOW
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
CEMENT TYPE(S): PHOSPHATE CEMENT, CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA
ESSENTIALLY, A CRYSTALLINE LIMESTONE UNIT.
- 1310 - 1325 DOLOSTONE; MODERATE YELLOWISH BROWN
15% POROSITY: LOW PERMEABILITY; 90-100% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-05%
OTHER FEATURES: CALCAREOUS
THIS UNIT DOMINANTLY DOLOMITIC, IN CONTRAST TO THE UNIT
ABOVE. INCLUDES CALCITIC ZONES.
- 1325 - 1335 LIMESTONE; DARK GRAYISH YELLOW TO VERY LIGHT GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CRYSTALS, SKELETAL
75% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA
NUMMULITES PRESENT
- 1335 - 1380 LIMESTONE; WHITE TO MODERATE YELLOWISH BROWN
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: DOLOMITIC
FOSSILS: BENTHIC FORAMINIFERA

- 1380 - 1390 CALCILUTITE; VERY LIGHT GRAY TO LIGHT BROWNISH GRAY
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
- 1390 - 1398 CALCILUTITE; WHITE
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-10%
OTHER FEATURES: DOLOMITIC
THE PRECEEDING 63 FEET DOMINANTLY CALCITIC, BUT CONTAIN
DOLOMITIZED ZONES.
- 1398 - 1410 CALCARENITE; GRAYISH ORANGE
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
- 1410 - 1420 CALCILUTITE; GRAYISH ORANGE
20% POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
- 1420 - 1440 CALCILUTITE; GRAYISH ORANGE
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT

- 1440 - 1460 CALCILUTITE; GRAYISH YELLOW
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: DOLOMITIC
- 1460 - 1470 CALCILUTITE; VERY LIGHT ORANGE
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-25%
OTHER FEATURES: DOLOMITIC
- 1470 - 1480 CALCILUTITE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-20%
OTHER FEATURES: DOLOMITIC
- 1480 - 1490 CALCARENITE; DARK GRAYISH YELLOW TO VERY LIGHT GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
- 1490 - 1500 CALCARENITE; DARK GRAYISH YELLOW TO VERY LIGHT GRAY
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-30%
OTHER FEATURES: DOLOMITIC

- 1500 - 1520 **CALCARENITE; GRAYISH ORANGE**
15% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-45%
OTHER FEATURES: DOLOMITIC
THE PRECEEDING 80 FEET CALCAREOUS, WITH ZONES OF
DOLOMITIZATION PRESENT.
- 1520 - 1530 **DOLOSTONE; VERY LIGHT ORANGE**
15% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS
- 1530 - 1540 **NO SAMPLES**
- 1540 - 1550 **DOLOSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY**
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: CALCAREOUS
- 1550 - 1600 **DOLOSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY**
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCITE-05%
OTHER FEATURES: CALCAREOUS
SAMPLES ARE COVERED WITH MODERATE AMOUNTS OF CHALK, BUT
BELOW THAT SURFACE IT IS DOMINANTLY DOLOMITIC, WITH
CALCAREOUS ZONES.
- 1600 - 1610 **LIMESTONE; GRAYISH ORANGE**
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CRYSTALS, CALCILUTITE
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
ACCESSORY MINERALS: DOLOMITE-35%
OTHER FEATURES: DOLOMITIC

- 1610 - 1620 DOLOSTONE; YELLOWISH GRAY
15% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
ACCESSORY MINERALS: CALCITE-05%
OTHER FEATURES: CALCAREOUS
- 1620 - 1630 LIMESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CRYSTALS, CALCILUTITE
70% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
- 1630 - 1660 LIMESTONE; VERY LIGHT ORANGE
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-35%
OTHER FEATURES: DOLOMITIC
- 1660 - 1670 LIMESTONE; VERY LIGHT ORANGE TO LIGHT GRAY
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%
OTHER FEATURES: DOLOMITIC
- 1670 - 1680 DOLOSTONE; DARK GRAYISH YELLOW
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-25%
OTHER FEATURES: CALCAREOUS
THERE IS A DISTINCT CHANGE IN COLOR AT THIS LEVEL
INDICATING A POSSIBLE LITHOLOGICAL CHANGE. COLOR IS
DARKER.

- 1680 - 1700 LIMESTONE; DARK GRAYISH YELLOW
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
80% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): SPARRY CALCITE CEMENT, CALCILUTITE MATRIX
DOLOMITE CEMENT
ACCESSORY MINERALS: DOLOMITE-40%, PHOSPHATIC SAND-05%
OTHER FEATURES: DOLOMITIC
STILL DARKER IN COLOR, BUT AGAIN MORE CALCITIC.
- 1700 - 1710 DOLOSTONE; VERY LIGHT ORANGE
15% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, SPARRY CALCITE CEMENT
CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCITE-25%
OTHER FEATURES: CALCAREOUS
- 1710 - 1720 LIMESTONE; DARK GRAYISH YELLOW
10% POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE, CRYSTALS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO FINE
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, DOLOMITE CEMENT
SPARRY CALCITE CEMENT
ACCESSORY MINERALS: DOLOMITE-45%
OTHER FEATURES: DOLOMITIC
- 1720 - 1730 DOLOSTONE; GRAYISH BROWN
15% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MODERATE INDURATION
ACCESSORY MINERALS: CALCITE-20%
OTHER FEATURES: CALCAREOUS
SOME NICELY DEVELOPED DOLOMITE RHOMBS PRESENT.
- 1730 - 1740 DOLOSTONE; GRAYISH OLIVE TO GRAYISH YELLOW
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
MODERATE INDURATION
ACCESSORY MINERALS: CALCITE-25%
OTHER FEATURES: CALCAREOUS
SOME VERY DARK AGGREGATES AND SOME LIGHTER ONES. LIGHTER
ONES STILL DUSKY YELLOW, SO NOT AS LIGHT AS SOME OF THE
EARLIER SECTION. DARK AGGREGATES STRONGLY DOLOMITIC (CA.
90%).

- 1740 - 1750 DOLOSTONE; MODERATE OLIVE BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-20%
OTHER FEATURES: CALCAREOUS
A FEW WHITE AGGREGATES, 60-70% CALCITIC, MIXED IN AMONG
DOMINANTLY DOLOMITIC AGGREGATES WHICH ARE DARK IN COLOR.
- 1750 - 1760 DOLOSTONE; MODERATE OLIVE BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: CALCAREOUS
A SIGNIFICANT AMOUNT OF DOLOMITIC CRYSTAL RHOMBS.
- 1760 - 1780 DOLOSTONE; MODERATE OLIVE BROWN TO GRAYISH OLIVE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-30%
OTHER FEATURES: CALCAREOUS
- 1780 - 1800 DOLOSTONE; DARK GRAYISH YELLOW TO GRAYISH OLIVE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS
- 1800 - 1810 DOLOSTONE; DARK GRAYISH YELLOW TO MODERATE YELLOWISH BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: CALCAREOUS
LEPICOCYCLINA PRESENT.
- 1810 - 1840 DOLOSTONE; OLIVE GRAY TO DARK GRAYISH YELLOW
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS

- 1840 - 1850 DOLOSTONE; DARK YELLOWISH BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: CALCAREOUS
MOST OF SAMPLES IS NEARLY PURE BROWN DOLOMITE, BUT SOME
WHITE CHALKY LIMESTONE AGGREGATES ARE PRESENT AS WELL.
- 1850 - 1860 DOLOSTONE; OLIVE GRAY
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS
- 1860 - 1870 DOLOSTONE; GRAYISH OLIVE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS
- 1870 - 1890 DOLOSTONE; MODERATE OLIVE BROWN TO GRAYISH OLIVE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-10%
OTHER FEATURES: CALCAREOUS
- 1890 - 1898 DOLOSTONE; GRAYISH OLIVE
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-25%
OTHER FEATURES: CALCAREOUS
- 1898 - 1906 DOLOSTONE; DARK YELLOWISH BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-20%
OTHER FEATURES: CALCAREOUS
- 1906 - 1920 DOLOSTONE; MODERATE BROWN TO GRAYISH BROWN
10% POROSITY: LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-25%
OTHER FEATURES: CALCAREOUS

1920 - 1928 DOLOSTONE; LIGHT GRAYISH BROWN TO LIGHT BROWN
10% POROSITY; LOW PERMEABILITY; 10-50% ALTERED; ANHEDRAL
GRAIN SIZE: VERY FINE; RANGE: VERY FINE TO MEDIUM
GOOD INDURATION
ACCESSORY MINERALS: CALCITE-15%
OTHER FEATURES: CALCAREOUS

1928 TOTAL DEPTH