

Executive Summary
ROMP Coastal Transect--TR. 4-2

June 13, 1980

G. H. New

Location - ROMP Site TR 4-2 is located adjacent to the NE corner of the Sarasota County yard, approximately one-half mile south of the intersection of S.R. 775 and U.S. Highway 41S in Sarasota County. The well is in the southeastern corner of an area used to store shell material just off of S.R. 775. TR 4-2 is in the SW 1/4, SW 1/4, NW 1/4 of Section 34, Township 39S, Range 19E, and North Latitude 27°02'40" and West Longitude 82°23'57".

Easement - This site was obtained from Sarasota County on July 18, 1978. The construction easement for this site is 35'x100' and includes the perpetual easement which is 20'x20'. The easement is recorded in O.R. Book 1250, pages 1589-1595 at the Sarasota County courthouse.

Geology - This site is located on the Pamlico Terrace at an elevation of approximately 15' above mean sea level and is approximately two miles from the Gulf of Mexico. Geologic information was obtained from 1-7/8" diameter continuous wireline core samples from 50' to a total depth of 609'. An outline of the general geology follows:

<u>DEPTH IN FEET</u>	<u>DESCRIPTION</u>
0'-50'	Undifferentiated recent to Plio-pleistocene age sand and clay.
50'-77'	Venice Clay - a white to green, waxy, well indurated clay, calcereous in places, contains some minor quartz and phosphatic sand in some zones; low porosity and permeability.
77'-437'	<u>Hawthorn Formation</u> - upper and lower members. A micritic white to grey limestone and dolostone, contains lenses of chert and clay. It has a high percentage of quartz and/or phosphatic sands and small pebbles in some sections. This formation has been subjected to

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- 77'-437' significant chemical weathering at this site, resulting in zones of highly transmissive moldic porosity, as well as lenses of dolomite and chert. Some minor organic clays are also present.
- 437'-540' Tampa Formation - Limestone, light cream to white color, contains many fossil beds, some phosphatic and quartz sands, some dolomitized zones, has many molds and highly porous zones.
- 540'-609' Suwannee Formation - Limestone, micrite-biomicrite, light tan to cream white, cocquina-like with numerous small well preserved fossils, in general, it has good porosity.

Hydrology - The hydrology of this site is a complex, multi-layered aquifer system closely resembling that which has been outlined in the work by Horace Sutcliffe of the U.S. Geological Survey in his publications on the area.

The water table occurs at a shallow depth of about 10' (near sea level) and is confined to the upper 75' of the section by the thick sequence of clay which is known locally as the "Venice Clay."

The first artesian zone occurs in the upper member of the Hawthorn Formation at a depth from 170'-235' below land surface. There are some porous zones in the lower portion of this member which exhibit good transmissivity. The highest water level recorded in this zone was approximately 4' below land surface at a depth of 210' below land surface.

The second artesian zone is separated from the first by a sequence of clayey limestone and clay, approximately 20' thick. This zone occurs in the lower Hawthorn member at depths from 240'-460'. While the water level remained constant throughout this section, lithology varied widely. The water levels stayed at approximately 4' above land surface. The upper part of this section is a highly porous limestone

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and dolomite which is probably the greatest producer of water from this aquifer.

The third artesian zone occurs in the Tampa Formation at a depth from 470'-560' and is separated from the Hawthorn aquifers by a thick section of clay and marly limestone. The observed sudden changes in both water quality and hydrostatic head without doubt indicate that the Tampa aquifer is not hydrologically connected to any of the upper aquifers. The water levels in this zone were steadily near 7' above land surface.

The fourth artesian zone encountered was in the Suwannee Formation beginning at a depth of 570' and continuing on below the total depth penetrated by the exploratory core hole. The highest water levels recorded were in this zone and were over 8' above land surface. While there was a slight difference in the water levels encountered between the Tampa and Suwannee Formations (referred to as third and fourth artesian zones, respectively herein). It cannot be determined that the Tampa and Suwannee Aquifers are entirely separate hydrologic zones. The difference in water levels found in these two zones could be accounted for by differences in porosity and development of solution features within the rock. However, the water level differences encountered between the Tampa and Hawthorn aquifers was abrupt enough to indicate hydrologic separation between the Tampa artesian zone and those artesian zones above.

Core Drilling - Continuous wireline core, water samples, and water level measurements were taken during exploratory drilling. This work was accomplished with the District-owned and operated CME-75 drill rig during the period from June 11, 1979, until August 9, 1979. After completion of the coring, the core hole was filled with neat cement slurry.

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Well Construction - The freshwater/saltwater interface monitor into the Tampa Formation was constructed between March 18, 1980, and June 2, 1980. This work was completed with the District-owned and operated Portadrill drill rig. Sixty feet of 12" diameter surface casing was pressure grouted in place initially. Following this, the hole was drilled to 462', and 460' of 7" diameter flush joint ABS plastic well casing was cemented into the well as final casing. A six-inch diameter open hole interval of 15' was drilled out below this from a depth of 460'-475'. The open interval of the well was then developed by injection of direct air into the well bore for approximately 20 minutes. Following this, the well was allowed to flow at a rate of approximately 75 gpm overnight into a nearby pond. The developed well then had a static head of approximately 6-1/2' above land surface. Ten feet of ABS plastic pipe was joined onto the existing 460' to contain this flow. Around the plastic pipe, 10' of 12" diameter steel well casing was welded onto the surface casing above ground and a 4' concrete culvert was set at the base. The annular space around both of these was filled with neat cement and shell material to provide a safe protective base for the well and a sturdy structure to which a U.S. Geological Survey monitoring station could be attached.

Geophysical Logs - Electric, caliper, gamma, temperature, and fluid conductivity logs were run on the core hole by the Sarasota Office of the U.S. Geological Survey.

Type of Monitor - This well was designed to monitor the freshwater/saltwater interface which has been designated as the 250 mg/l isochlor. The open interval of this well has been positioned in the highly productive zone of the Tampa Formation.

Water Quality - During the coring of TR 4-2, water samples were obtained for analysis of chloride, sulfate and conductivity. Both field analysis and the District laboratory's analysis were employed to determine water quality. Potable water is obtainable throughout the water table and from the first two artesian zones to a

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depth of 470'. The chlorides ranged from 15-190 mg/l and the sulfate ranged from 50-250 mg/l. Below 470' and throughout the entire two lower artesian zones, poor quality non-potable water is found. The chlorides below 470' ranged from 290 mg/l to 360 mg/l and the sulfates ranged from 233 mg/l to 1,000 mg/l during coring. A total of 59 water samples were retrieved and analyzed.

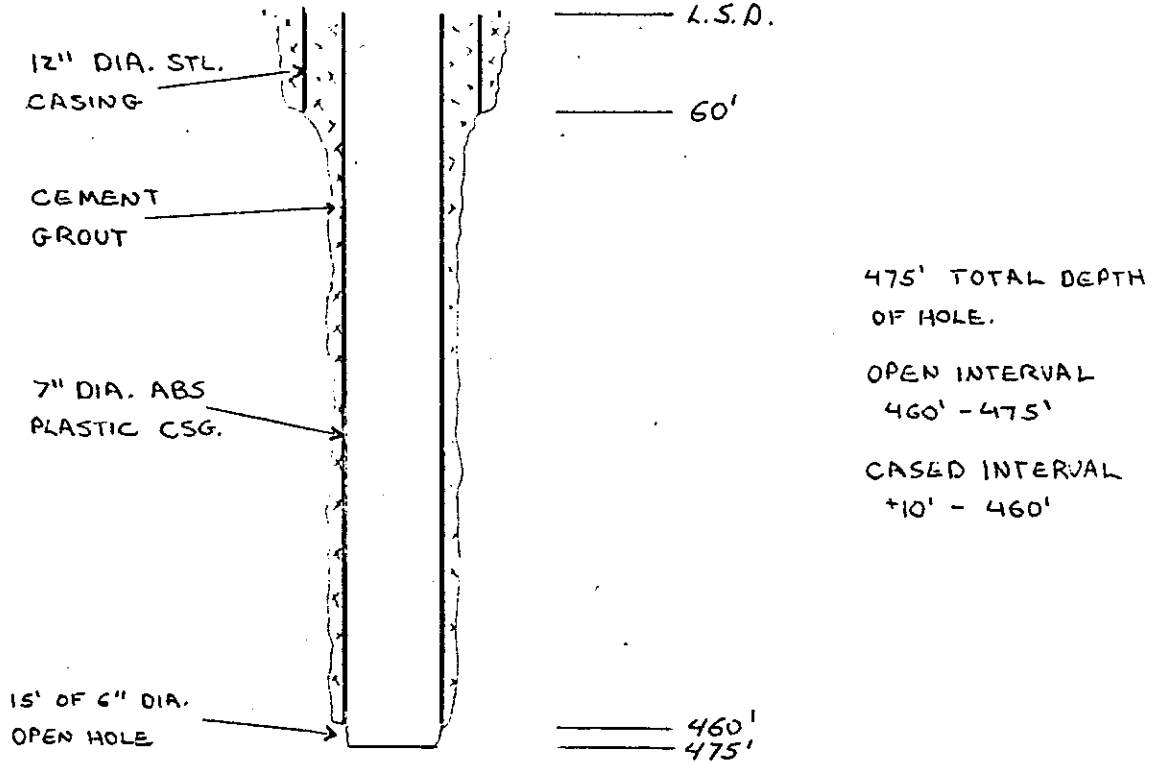
U.S. Geological Survey Notification - The District's Technical Support Division was notified in June 1980 that this well was complete and ready for monitoring.

GHN:rls

ROMP COASTAL TRANSECT

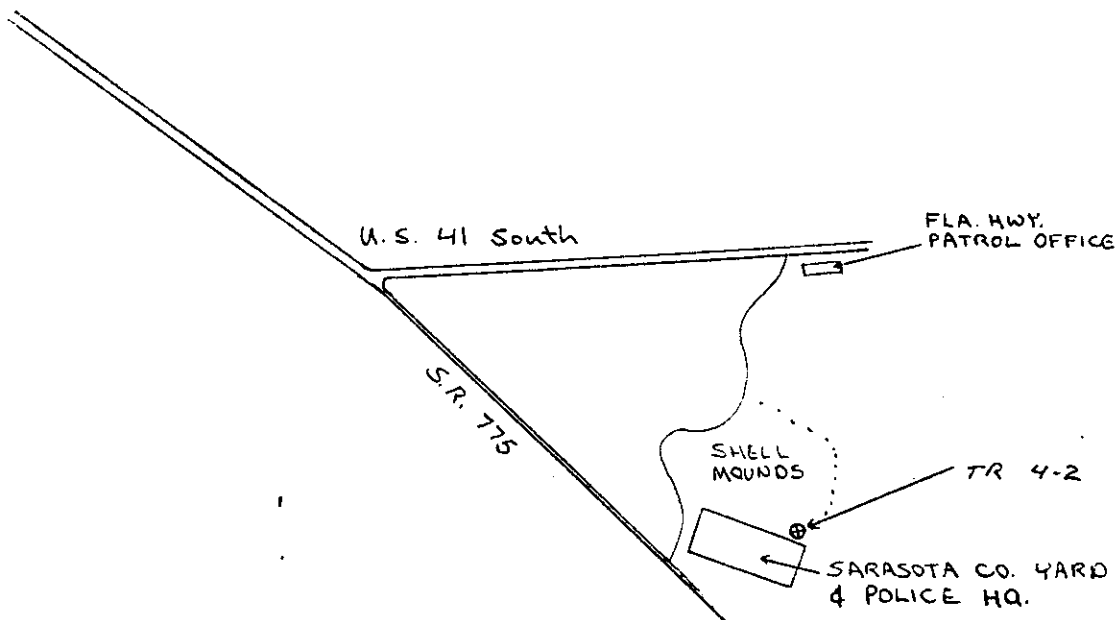
TR 4-2

AS BUILT WELL DIAGRAM



SITE LOCATION DIAGRAM

SARASOTA CO. SW, SW, NW SEC. 34, T. 39S, R. 19E.



30' description
added to
existing log
cored 4/02

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-14871

COUNTY - W-14871

TOTAL DEPTH: 609.5 FT.

LOCATION: T.39S R.19E S.34 A

SAMPLES - NONE

LAT = 27D 02M 40S

LONG = 82D 23M 57S

COMPLETION DATE: N/A

ELEVATION: 15 FT

OTHER TYPES OF LOGS AVAILABLE - NONE

OWNER/DRILLER: S.W.F.W.M.D. [ROMP TR 4-2]

WORKED BY: G. NEW; CODED AND ENTERED BY RICHARD GREEN (10/90)

SITE IS LOCATED ADJACENT TO THE NE CORNER OF THE SARASOTA COUNTY YARD,
APPROX. 1/2 MILE SOUTH OF THE INTERSECTION OF S.R. 775 AND U.S. HIGHWAY 41S.

0. - 77. 090UDSC UNDIFFERENTIATED SAND AND CLAY
77. - 99.5 VENICE CLAVENICE CLAY
99.5 - 437. 122HTRN HAWTHORN GROUP
437. - 540. 122TAMP TAMPA MEMBER OF ARCADIA FM.
540. - . 123SWNN SUWANNEE LIMESTONE

0 - 2 SAND; DARK YELLOWISH BROWN TO MODERATE YELLOWISH BROWN
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SILT-05%, ORGANICS-20%

2 - 4 SAND; MODERATE DARK GRAY TO DARK GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SILT-03%

4 - 8 SAND; LIGHT BROWNISH GRAY TO LIGHT OLIVE GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SILT-02%

8 - 9 SAND; GRAYISH BROWN TO DARK YELLOWISH BROWN
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SILT-05%, ORGANICS-10%

- 9 - 11.5 SAND; MODERATE YELLOWISH BROWN TO DARK GRAYISH YELLOW
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SILT-02%
SAND, QTZ, FEW ACCESSORY MINERALS. WET AT 5.0' BLS
- 11.5- 16.5 SAND; MODERATE YELLOWISH BROWN TO GRAYISH ORANGE
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: ORGANICS-01%
- 16.5- 18.5 SAND; LIGHT GRAYISH BROWN TO GRAYISH BROWN
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: ORGANICS-05%
- 18.5- 21.5 SAND; VERY LIGHT ORANGE TO GRAYISH BROWN
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: SHELL-30%
FOSSILS: MOLLUSKS
SAND, QTZ, INTERBEDDED MOLLUSK SHELL FRAGMENTS
- 21.5- 29 SAND; LIGHT OLIVE GRAY TO OLIVE GRAY
40% POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, SHELL-02%
FOSSILS: MOLLUSKS
- 29 - 30 SAND; MODERATE DARK GRAY TO PINKISH GRAY
40% POROSITY
GRAIN SIZE: COARSE; RANGE: COARSE TO VERY COARSE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, SHELL-04%
LIMESTONE-03%, CLAY-01%
FOSSILS: MOLLUSKS

- 30 - 30.5 DOLOSTONE; DARK YELLOWISH BROWN TO LIGHT OLIVE GRAY
02% POROSITY: MOLDIC, LOW PERMEABILITY; 10-50% ALTERED
SUBHEDRAL
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
GOOD INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT, CALCILUTITE MATRIX
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: QUARTZ SAND-02%, CALCITE-01%
IRON STAIN-01%, PHOSPHATIC SAND-03%
OTHER FEATURES: WEATHERED
FOSSILS: MOLLUSKS, FOSSIL MOLDS
DOLOSTONE, FOSSILIFEROUS, WEATHERED, INTERBEDDED QTZ SAND
PHOSPHATIC SAND AND GRAVEL.
- 30.5- 38 DOLOSTONE; YELLOWISH GRAY TO DARK GRAYISH YELLOW
20% POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
MODERATE INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: QUARTZ SAND-01%, CALCITE-01%
PHOSPHATIC SAND-02%
OTHER FEATURES: WEATHERED, CRYSTALLINE, FOSSILIFEROUS
FOSSILS: MOLLUSKS
- 38 - 44 DOLOSTONE; YELLOWISH GRAY TO DARK GRAYISH YELLOW
20% POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND-01%
OTHER FEATURES: WEATHERED, CRYSTALLINE, FOSSILIFEROUS
FOSSILS: CORAL, MOLLUSKS
- 44 - 47 DOLOSTONE; YELLOWISH GRAY TO DARK GRAYISH YELLOW
20% POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
10-50% ALTERED; SUBHEDRAL
GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
POOR INDURATION
CEMENT TYPE(S): DOLOMITE CEMENT
SEDIMENTARY STRUCTURES: INTERBEDDED
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, QUARTZ SAND-01%
OTHER FEATURES: WEATHERED, CRYSTALLINE, FOSSILIFEROUS
GRANULAR
FOSSILS: MOLLUSKS
DOLOMITE, WEATHERED, MOLDIC, INCREASING PHOSPHATIC SAND.

- 47 - 51 DOLOSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
 05% POROSITY: INTERGRANULAR; 10-50% ALTERED; SUBHEDRAL
 GRAIN SIZE: MICROCRYSTALLINE
 RANGE: MICROCRYSTALLINE TO FINE; GOOD INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 SEDIMENTARY STRUCTURES: INTERBEDDED
 ACCESSORY MINERALS: PHOSPHATIC SAND-10%, QUARTZ SAND-02%
 OTHER FEATURES: GRANULAR, SPECKLED, CRYSTALLINE
- 51 - 52 DOLOSTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
 03% POROSITY: INTERGRANULAR; 50-90% ALTERED; SUBHEDRAL
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
 MODERATE INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 SEDIMENTARY STRUCTURES: INTERBEDDED
 ACCESSORY MINERALS: PHOSPHATIC SAND-15%, QUARTZ SAND-05%
 OTHER FEATURES: FROSTED, GRANULAR, SPECKLED, WEATHERED
- 52 - 53 DOLOSTONE; YELLOWISH GRAY TO LIGHT GREENISH GRAY
 03% POROSITY: INTERGRANULAR; 10-50% ALTERED; SUBHEDRAL
 GRAIN SIZE: FINE; RANGE: MICROCRYSTALLINE TO MEDIUM
 GOOD INDURATION
 CEMENT TYPE(S): DOLOMITE CEMENT
 SEDIMENTARY STRUCTURES: INTERBEDDED
 ACCESSORY MINERALS: PHOSPHATIC SAND-10%
 OTHER FEATURES: FROSTED, GRANULAR, SPECKLED, WEATHERED
- 53 - 54.5 CALCARENITE; LIGHT BROWNISH GRAY
 POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
 ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
 PHOSPHATIC GRAVEL- %
 FOSSILS: MOLLUSKS
 SOME PHOS. PEBBLES 1MM SIZED. SOME PELECYPOD FOSSILS AND
 MINOR BLUE- GREEN ACCESSORY PHOSPHATE MINERALS. MODERATE TO
 HIGH POROSITY.
- 54.5- 55.5 AS ABOVE
- 55.5- 56 CHERT; MODERATE GRAY TO WHITE
 CHERT AND LIMESTONE, GRAYISH WHITE IN COLOR.
- 56 - 59.5 CALCILUTITE; LIGHT BROWNISH GRAY
 GRAIN TYPE: CALCILUTITE
 ACCESSORY MINERALS: QUARTZ SAND- %, CLAY-%
 MUDSTONE, LIMEY CLAY WITH MINOR QTZ SANDS. MODERATE
 POROSITY.
- 59.5- 64.5 CALCILUTITE; TAN
 GRAIN TYPE: CALCILUTITE
 ACCESSORY MINERALS: PHOSPHATIC SAND-%
 DULL TAN COLOR. ALMOST MARL. ABUNDANT PHOSPHATE GRAINS.
 POROUS MATERIAL.

- 64.5- 66 CALCILUTITE; WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
FEW FOSSILS AND FEW PHOSPHATES. HIGH POROSITY.
- 66 - 69.5 CLAY; TAN
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: PHOSPHATIC GRAVEL- %, QUARTZ SAND-02%
MARLY CLAY, MUDSTONE, CALCILUTITE.;MOD.-LOW POROSITY.
- 69.5- 74.5 CALCILUTITE; WHITE TO LIGHT TAN
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: ORGANICS-01%, PHOSPHATIC SAND- %
CHERT-%
SOME BLACK ORGANICS, SOME BLUE-GREEN PHOS. ACCESSORIES AND
BLACK PHOSPHATE SANDS. HIGH MOLDIC POROSITY.
- 74.5- 77 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, QUARTZ SAND-%
SOME LENSES OF QTZ AND BLACK PHOSPHATES, MINOR BLUE-GREEN
ACCESSORY PHOSPHATES. MOD.-HIGH POROSITY.
- 77 - 79.5 CLAY; WHITE TO DARK GREEN
POROSITY: LOW PERMEABILITY
SOME BROWN ORGANIC STREAKS, SOME MARLY AREAS. IN WHITE
AREAS A MARLY CALCAREOUS MUDSTONE, CLAY HAS SOME SANDY
LENSES.
- 79.5- 84.5 CLAY; DARK GREEN TO LIGHT GREEN
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: SILT-%
VERY FINE PARTICLES, SOME SLIGHTLY SILTY AREAS.
- 84.5- 89.5 CLAY; DARK GREEN TO BROWN
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: ORGANICS-%
SOME BROWN ORGANIC STREAKS, VERY FINE KAOLIN-LIKE MATERIAL.
- 89.5- 94.5 CLAY; LIGHT GREEN TO WHITE
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: CALCAREOUS
SOME LIME, AT PLACES "MARLY", MINOR QTZ SANDS.
- 94.5- 98.5 AS ABOVE
- 98.5- 99.5 CLAY; CREAM TO DARK GREEN
ACCESSORY MINERALS: ORGANICS- %, QUARTZ SAND-%
MARLY CLAY WITH SOME LENSES OF QTZ SAND AND SOME BLACK
ORGANICS.

- 99.5- 104.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: ORGANICS- %, QUARTZ SAND- %
PHOSPHATIC SAND- %
FOSSILS: MOLLUSKS, FOSSIL MOLDS
SOME GRAY QTZ SAND LENSES AND MANY BLACK PHOS. SANDS. SOME
LARGE MOLLUSK MOLDS AND SOME ORGANIC STREAKS. HIGH MOLDIC
POROSITY.
- 104.5- 109.5 LIMESTONE; CREAM TO WHITE
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND-04%
GRADES INTO MORE MOLDIC POROSITY AT BOTTOM.
- 109.5- 114.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: CALCILUTITE, SKELETAL
GOOD INDURATION
FOSSILS: MOLLUSKS, FOSSIL MOLDS
COQUINA-LIKE FORMATION WITH NEARLY COMPLETE CONVERSION OF
ARAGONITE TO CALCITE OF THE SHELL FRAGMENTS IN PLACE. MANY
LARGE MOLLUSK MOLDS. HIGH MOLDIC POROSITY.
- 114.5- 115.5 CLAY; CREAM TO WHITE
POROSITY: LOW PERMEABILITY
OTHER FEATURES: CALCAREOUS
MARLY CLAY.
- 115.5- 119.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC GRAVEL- %
OTHER FEATURES: DOLOMITIC
HIGHLY DOLOMITIZED, ABUNDANT GRAY QTZ SAND PATCHES. GOOD
MOLDIC POROSITY.
- 119.5- 124.5 DOLOSTONE; BLACK TO MODERATE GRAY
POROSITY: LOW PERMEABILITY
DOLOMITE AND CHERT. MOSTLY GREYISH WHITE. HIGHLY
FOSSILIFEROUS WITH CALCITE SPAR LINING ALL OF MOLDIC PORES.
SOME SILICIOUS CEMENT. UPPER FOOT IS DENSE, HARD AND
BLACK, --BOTTOM 4' IS LIGHTER COLORED AND MORE POROUS.
POROSITY IS MODERATE TO LOW.

- 124.5- 129.5 DOLOSTONE; LIGHT BROWN TO DARK GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
CEMENT TYPE(S): SPARRY CALCITE CEMENT, SILICIC CEMENT
ACCESSORY MINERALS: PHOSPHATIC SAND- %
PHOSPHATIC GRAVEL- %, HEAVY MINERALS-%
DOLOMITE AND CHERT, DOLOMITE BROWN AND CHERT GRAY. HIGHLY
FOSSILIFEROUS WITH INTERCONNECTING MOLDIC PORES THAT ARE
LINED WITH SPARRY CALCITE. MANY PHOSPHATE SANDS AND PEBBLES
(BLK-BRN COLOR). SOME ZIRCON?, POROSITY IS MODERATE TO HIGH
MOLDIC.
- 129.5- 134.5 DOLOSTONE; CREAM TO WHITE
POROSITY: LOW PERMEABILITY
GOOD INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND- %, HEAVY MINERALS-%
DENSE AND VERY HARD, WELL CEMENTED. SOME BLACK PHOSPHATIC
GRAINS AND CLEAR AMBER APATITE OR ZIRCON? GRAINS.
- 134.5- 139.5 DOLOSTONE; CREAM TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
DENSE AND HARD. CONTAINS FEWER PHOSPHATIC GRAINS AND SOME
LARGE PELECYPOD MOLDS. MODERATE MOLDIC POROSITY.
- 139.5- 144.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND-%
DENSE AND VERY FINE AT THE TOP OF THE SECTION, MORE POROUS
THROUGH THE BOTTOM HALF OF THE SECTION. MANY LENSES OF LT
GRAY PHOSPHATIC AND QTZ MATERIAL WITH CALCIC CEMENT. TOP OF
SECTION IS WELL CEMENTED WITH GOOD POROSITY. THE BOTTOM HAS
BETTER POROSITY AND ALSO HAS SOME MOLDIC POROSITY.
- 144.5- 149.5 LIMESTONE; CREAM TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
MODERATE INDURATION
ACCESSORY MINERALS: QUARTZ SAND-10%, PHOSPHATIC SAND-10%
APPROX. 20% PHOS. AND QTZ SANDS WITH SOME LARGER SUBANGULAR
QTZ SANDS. FRIABLE WITH FAIR-GOOD CEMENTATION. POROSITY IS
HIGH WITH SOME MOLDIC POROSITY.
- 149.5- 154.5 LIMESTONE; CREAM TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
ORGANICS-%
SOME BROWN ORGANICS. BLACK AND BRN PHOSPHATE SANDS. PHOS.
AND QTZ SAND AS HIGH AS 20%.

- 154.5- 159.5 LIMESTONE; VERY LIGHT GRAY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
OTHER FEATURES: CHALKY
HIGH PHOS. AND QTZ SAND CONTENT. MATERIAL IS GENERALLY GOOD
OR WELL CEMENTED WITH SOME LENSES OF V.F. POORLY CEMENTED
LIMEY SANDS OR PACKSTONE AND SOME CLAY OR MARL (CALCILUTITE
LENSES). POROSITY IS MODERATE-HIGH. FOSSILS ARE RARE.
- 159.5- 164.5 LIMESTONE; VERY LIGHT GRAY
GRAIN TYPE: CALCILUTITE, SKELETAL
POOR INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND- %, QUARTZ SAND- %
CHERT-%
APPROX. 25% DK BLACK AND BRN PHOSPHATIC SAND AND QTZ SANDS.
MANY PURPLE AND BLUE-GREEN SPOTS OF HIGHLY WEATHERED OR
LEACHED PHOS. ACCESSORY MINERALS. POORLY CEMENTED AND WELL
SORTED MATERIAL. SOME SMALL NODULES OF DK GREENISH CHERT.
POROSITY IS HIGH AND THIS SANDSTONE HAS A CROSS-BEDDED
APPEARANCE.
- 164.5- 165.5 CLAY; DARK GREENISH GRAY
POROSITY: LOW PERMEABILITY
- 165.5- 167.5 LIMESTONE; CREAM TO WHITE
BIOMICRITE, GOOD POROSITY.
- 167.5- 169.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CHERT- %, PHOSPHATIC GRAVEL-%
MARL WITH ABUNDANT CHERT NODULES AND LARGE PHOSPHATE
PEBBLES. FAIR-POOR CEMENT, GOOD POROSITY THROUGHOUT.
- 169.5- 170.5 LIMESTONE; CREAM TO WHITE
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: CHERT- %, PHOSPHATIC GRAVEL-%
BLACK CHERT NODULES AND PHOS. PEBBLES. FAIR CEMENT.
MODERATE-GOOD POROSITY.
- 170.5- 173 LIMESTONE; VERY LIGHT GRAY TO CREAM
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %
PHOSPHATIC GRAVEL- %, QUARTZ SAND- %
OTHER FEATURES: DOLOMITIC
HIGHLY DOLOMITIZED. SOME CLEAR BOTROIDAL SILICIOUS OOZE
COATING MANY LARGE SOLUTION CAVITIES. PHOSPHATE PEBBLES AND
SAND GRADE OUT TOWARDS BOTTOM OF SECTION. HIGH MOLDIC
POROSITY- MANY LG PELECYPOD MOLDS.

- 173 - 174.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
ORGANICS- %, PHOSPHATIC GRAVEL-%
SOME LENSES OF BROWN AND BLACK ORGANICS WITH BOTH PHOS.
PEBBLES (BLACK) AND QTZ SANDS. WELL CEMENTED WITH SOME THIN
CLAYS. HIGH MOLDIC POROSITY.
- 174.5- 179.5 LIMESTONE; CREAM TO LIGHT GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %
PHOSPHATIC GRAVEL-%
MICRITE WITH A HIGH PERCENTAGE OF BROWN AND BLACK PHOS.
PEBBLES AND SANDS, RANGES FROM A VERY POORLY CEMENTED LOOSE
MATERIAL TO A WELL CEMENTED PARTIALLY DOLOMITIZED LS WITH
AS MUCH AS 35% PHOSPHATE. SOME AREAS ARE MARLY, VERY POORLY
SORTED. POROSITY IS GOOD-HIGH.
- 179.5- 182.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: PHOSPHATIC SAND- %, QUARTZ SAND- %
CHERT-%
POORLY SORTED MATERIAL COMPOSED OF MANY PHOS. AND QTZ SANDS
CEMENTED WITH CALCITE AND SOME GRAY CHERT NODULES. GOOD
POROSITY.
- 182.5- 184.5 DOLOSTONE; LIGHT GRAY TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GOOD INDURATION
ACCESSORY MINERALS: PHOSPHATIC GRAVEL- %
PHOSPHATIC SAND- %, CHERT-%
DOLOMITIZED MICRITIC LS. WITH SOME LIGHT BROWNISH CLAYEY OR
PUNKY LENSES AND SOME GRAYISH CHERTS. HIGH MOLDIC POROSITY.
WELL CEMENTED AND HARD.
- 184.5- 189.5 DOLOSTONE; LIGHT GRAY TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
ACCESSORY MINERALS: CLAY- %, PHOSPHATIC GRAVEL- %
PHOSPHATIC SAND-%
DOLOMITIZED LIMESTONE, WITH MANY THIN LENSES OF GRAY CHERT.
POORLY SORTED MATERIAL CONTAINING PHOS. PEBBLES AND SANDS
THROUGHOUT AS WELL AS SOME GRAY- GREEN TO BROWN CLAYS. GOOD
MOLDIC POROSITY.
- 189.5- 190.5 DOLOSTONE; MODERATE GRAY TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRADE AT BOTTOM TO:

- 190.5- 194.5 DOLOSTONE; MODERATE GRAY TO WHITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, QUARTZ SAND-%
HIGHLY DOLOMITIZED CALCARENITE, CONTAINING QTZ SAND AND A
HIGH PERCENTAGE OF BLK AND BRN PHOS. SANDS. A DENSE, HARD
AND WELL CEMENTED MATERIAL HAVING MODERATE POROSITY.
- 194.5- 195.5 DOLOSTONE; MODERATE GRAY TO DARK GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
ACCESSORY MINERALS: CHERT-%
- 195.5- 198.5 DOLOSTONE; MODERATE GRAY TO WHITE
VERY PURE, DENSE, HARD WITH WELL SORTED AND CEMENTED GRAINS
OF MUCH LOWER POROSITY.
- 198.5- 199.5 DOLOSTONE;
VERY DENSE AND PURE, GRADES INTO A GREY PUNKY MATERIAL
WITH LOW POROSITY.
- 199.5- 200.5 CLAY; DARK GREENISH GRAY TO WHITE
POROSITY: LOW PERMEABILITY
OTHER FEATURES: CALCAREOUS
SOME THIN WHITE LIMY LENSES. VERY FINE W/ LOW POROSITY.
- 200.5- 201.5 DOLOSTONE; LIGHT BROWN TO GRAYISH GREEN
POROSITY: LOW PERMEABILITY
GOOD INDURATION
ACCESSORY MINERALS: CLAY-%
VERY CONSISTENT, WELL SORTED AND CEMENTED.
- 201.5- 204.5 CALCARENITE; LIGHT GRAY TO WHITE
GRAIN SIZE: VERY FINE
ACCESSORY MINERALS: PHOSPHATIC SAND-%
UNIFORM, WELL COMPACTED AND CEMENTED CALCAREOUS SILTSTONE.
VERY MINOR PHOSPHATE. MODERATE POROSITY.
- 204.5- 209.5 LIMESTONE; LIGHT GRAY TO WHITE
ACCESSORY MINERALS: PHOSPHATIC SAND- %, QUARTZ SAND- %
CLAY-%
CALCAREOUS SILTSTONE. WELL SORTED AND HOMOGENOUS. A FINE
SUGARY APPEARANCE, IN SOME PLACES FRIABLE. MINOR PHOS. AND
QTZ SANDS. POROSITY IS MOD-GOOD.
- 209.5- 214.5 LIMESTONE; LIGHT GREEN
ACCESSORY MINERALS: CLAY- %, ORGANICS-%
CLAYEY MARL, STREAKS OF DK GREEN CLAYS AND SOME BROWN
ORGANIC STREAKS. FINE WELL SORTED AND CEMENTED MATERIAL
GRADES AT BOTTOM INTO FINER, DENSER MATERIAL. POROSITY IS
FAIR TO MODERATE.

- 214.5- 219.5 LIMESTONE; VERY LIGHT GRAY
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: FINE; GOOD INDURATION
CLAYEY CALCILUTITE. WELL SORTED AND CEMENTED SILTSTONE
HAVING SOME MOLDIC POROSITY. MODERATE POROSITY OVERALL.
- 219.5- 221.5 LIMESTONE; LIGHT GRAY TO LIGHT TAN
CLAYEY LS, HAVING SOME BROWNISH ORGANIC LENSES (SAME AS
ABOVE) WITH THE ADDITION OF SOME MINOR PHOS. GRAINS AND
MORE MOLDIC POROSITY. POROSITY GOOD.
- 221.5- 224.5 DOLOSTONE; LIGHT GRAY TO MODERATE GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC, VUGULAR
ACCESSORY MINERALS: SPAR- %
FOSSILS: MOLLUSKS, FOSSIL MOLDS
DOLOMITIZED LS, MANY VUGS OF CALCITE SPAR. HIGH MOLDIC
POROSITY.
- 224.5- 229.5 DOLOSTONE; LIGHT GRAY TO BROWN
POROSITY: VUGULAR, POSSIBLY HIGH PERMEABILITY, MOLDIC
WITH A LARGE AMOUNT OF CRYPTOCRYSTALLINE, VUGGY, HIGH MOLDIC
POROSITY.
- 229.5- 235.5 AS ABOVE
- 235.5- 239.5 DOLOSTONE; CREAM TO WHITE
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: PHOSPHATIC SAND- %, ORGANICS-%
VERY DENSE AND HARD WITH FEW MOLDIC PORES-A HOMOGENOUS
APPEARANCE. MINOR PERCENTAGE OF VERY EVENLY DISTRIBUTED
BLACK AND BRN PHOS. SANDS ARE PRESENT AW WELL AS SOME
ORGANIC STREAKS. LOW-MOD. POROSITY.
- 239.5- 243.5 DOLOSTONE; LIGHT TAN
POROSITY: LOW PERMEABILITY
GRAIN SIZE: MICROCRYSTALLINE; GOOD INDURATION
SEDIMENTARY STRUCTURES: MOTTLED
DENSE AND HARD. VERY FEW MOLDS. SOME GREY, SLOTCY AREAS.
- 243.5- 244.5 LIMESTONE; WHITE TO BROWNISH GRAY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
SPAR- %
OTHER FEATURES: CHALKY
SOME LENSES OF CALCITE AND QTZ SANDS, THE REST IS A VERY
CHALKY LS WITH THIN, FINE, BLACK STREAKS OF PHOSPHATE
SANDS. POROSITY IS MODERATE.
- 244.5- 248.5 DOLOSTONE; LIGHT GRAY TO LIGHT BROWN
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC, VUGULAR
ACCESSORY MINERALS: ORGANICS-%
MANY MOLDS OR VUGS OF BRN CRYSTALLINE CALCITE, SOME DK GRAY
ORGANIC BANDS. HIGH MOLDIC POROSITY.

- 248.5- 249.5 LIMESTONE; CREAM TO LIGHT GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: ORGANICS- %, PHOSPHATIC SAND-%
SLPOTCHY, DENSE, HARD, PARTIALLY DOLOMITIZED. FEW MOLDIC
PORES, SOME BLACK ORGANICS AND MINOR PHOSPHATE SANDS.
LOW-MODERATE POROSITY.
- 249.5- 254.5 DOLOSTONE; LIGHT GRAY TO BROWN
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
SOME BLUE-GREEN WEATHERED PHOSPHATE ACCESSORIES. GOOD
MOLDIC POROSITY. FRIABLE IN PLACES.
- 254.5- 259.5 DOLOSTONE; LIGHT GRAY TO MODERATE BROWN
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
ACCESSORY MINERALS: SPAR- %
FOSSILS: MOLLUSKS, FOSSIL MOLDS
MATRIX IS GRAY WITH MANY MOLLUSK MOLDS FILLED WITH CALCITE
SPAR, UPPER PART OF SECTION IS FRAIABLE AND CRUMBLY, THE
REST IS HARD. SOME MARBLE-LIKE ROCK.
- 259.5- 264.5 AS ABOVE
WITH SOME LIGHT CREAMY MICRITE THAT IS CHALKY.
- 264.5- 269.5 DOLOSTONE;
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
ACCESSORY MINERALS: CALCILUTITE- %, QUARTZ SAND- %
PHOSPHATIC SAND-%
HARD GRAY DOLOMITE AND FINE, FRIABLE MICRITE. MICRITE
CONTAINS SOME QTZ AND PHOS. SANDS. POROSITY GOOD.
- 269.5- 274.5 CALCARENITE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-%
FRIABLE, A HIGH PERCENTAGE OF QTZ SAND. VERY POROUS.
- 274.5- 276.5 AS ABOVE
- 276.5- 279.5 DOLOSTONE; LIGHT GRAYISH BROWN
POROSITY: POSSIBLY HIGH PERMEABILITY
HARD AND DENSE, GRADES AT BOTTOM INTO A CALCARENITE, VERY
LOOSE, SIMILAR TO BEACH SAND. POROSITY GOOD.
- 279.5- 284.5 SANDSTONE; LIGHT GRAY TO MODERATE GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY, INTERGRANULAR
GOOD INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- %, CALCILUTITE-%
75% QTZ SAND WITH MINOR PHOSPHATE. A WELL CEMENTED QTZ
BEACH SAND.

- 284.5- 285.5 SANDSTONE; LIGHT GRAY TO MODERATE GRAY
 POROSITY: POSSIBLY HIGH PERMEABILITY
 CALCARENITE, FRIABLE, POROUS.
- 285.5- 289.5 LIMESTONE; LIGHT BROWNISH GRAY
 POROSITY: POSSIBLY HIGH PERMEABILITY
 GOOD INDURATION
 ACCESSORY MINERALS: QUARTZ SAND-40%, CLAY-%
 GRADES FROM A WELL CEMENTED QTZ CALCARENITE TO A CLAYEY QTZ
 CALCARENITE AND BACK. OVERALL POROSITY IS HIGH EXCEPT IN
 CLAYEY ZONES.
- 289.5- 294.5 SANDSTONE; CREAM TO WHITE
 POROSITY: POSSIBLY HIGH PERMEABILITY; GOOD INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: CLAY-%
 WELL CEMENTED CALCAREOUS QTZ SANDSTONE WITH SOME THIN
 LENSES OF VERY SANDY CLAY. POROSITY GOOD.
- 294.5- 299.5 LIMESTONE; VERY LIGHT GRAY TO MODERATE GRAY
 DOLOMITE AND CALCITE CEMENTED FINE QTZ SANDSTONE, MORE QTZ
 SAND AT BOTTOM OF SECTION. POROSITY FAIR-MODERATE.
- 299.5- 301.5 LIMESTONE; LIGHT GRAY TO LIGHT BROWN
 POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
 ACCESSORY MINERALS: SPAR- %, CLAY- %
 FOSSILS: MOLLUSKS, FOSSIL MOLDS
 BIOSPARITE. ABUNDANT MOLLUSK MOLDS. FAIR CEMENT. FRIABLE IN
 MOST AREAS, SOME CLAYEY ZONES. HIGH MOLDIC POROSITY.
- 301.5- 304.5 LIMESTONE; CREAM TO LIGHT GRAY
 POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
 GRAIN TYPE: CALCILUTITE
 ACCESSORY MINERALS: SPAR- %
 FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, FOSSIL MOLDS
 SOME SPARITE. FRIABLE. HIGH POROSITY.
- 304.5- 307 CALCARENITE; LIGHT GRAY TO MODERATE GRAY
 POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
 GOOD INDURATION
 OTHER FEATURES: DOLOMITIC
 DENSE, HARD. WELL CEMENTED QTZ CALCARENITE. SOME MOLDS.
- 307 - 309.5 CALCARENITE; DARK GRAY TO BROWN
 POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
 GOOD INDURATION
 OTHER FEATURES: DOLOMITIC
 WELL CEMENTED. MANY MOLDS. HIGH POROSITY.
- 309.5- 314.5 DOLOSTONE; VERY LIGHT GRAY TO LIGHT BROWN
 GOOD INDURATION
 HARD, DENSE, WELL CEMENTED, HIGHLY DOLOMITIZED LS. SOME
 GREENISH-BLACK STREAKS, FEW MOLDS. POROSITY FAIR.

- 314.5- 319.5 LIMESTONE; LIGHT GRAY
PARTIALLY DOLOMITIZED SPARITE OR MICRITE. WELL CEMENTED
DENSE, HOMOGENOUS APPEARANCE. ALMOST NO OPEN MOLDS OR
PORES, SOME FRIABLE ZONES. MODERATE POROSITY.
- 319.5- 321 LIMESTONE; LIGHT GRAY TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND-10%, PHOSPHATIC SAND-10%
OTHER FEATURES: DOLOMITIC
FOSSILS: MOLLUSKS, FOSSIL MOLDS
BIOMICRITE, WELL CEMENTED, 15-20% MIX OF PHOS. AND QTZ
SANDS. MANY SMALL OPEN PORES. SOME DARK SANDY STREAKS.
POROSITY MODERATE-HIGH.
- 321 - 324.5 LIMESTONE; LIGHT GRAY TO MODERATE GRAY
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
ACCESSORY MINERALS: PHOSPHATIC SAND-10%, QUARTZ SAND-10%
CLAY-%
MICRITE, CALCARENITE, 15-20% QTZ AND PHOS. SANDS. CALCIC
CEMENTS, SOME THIN CLAYS, FRIABLE, DENSE, WELL COMPACTED
HOMOGENEOUS. POROSITY GOOD.
- 324.5- 329.5 LIMESTONE; LIGHT GRAY
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
CLAY-%
WITH DK GRAY TO BLACK ORGANIC VEINS THROUGHOUT, MINOR
AMOUNT OF CLAYS, SOME FOSSIL MOLDS, WELL CEMENTED AND
COMPACTED. POROSITY IS GOOD-HIGH.
- 329.5- 334.5 CALCARENITE; LIGHT GRAY TO CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GOOD INDURATION
ACCESSORY MINERALS: ORGANICS- %, QUARTZ SAND- %
PHOSPHATIC SAND-%
WELL CEMENTED AND COMPACTED, MANY DK GRAY VEINS OF
ORGANICS, CALCIC, QTZ, AND PHOSPHATE SANDS, SOME FRIABLE
ZONES. POROSITY GOOD.
- 334.5- 339.5 CALCARENITE; MODERATE GRAY TO WHITE
ACCESSORY MINERALS: ORGANICS- %, PHOSPHATIC SAND-%
SALT AND PEPPER GRAY AND WHITE APPEARANCE, MANY PHOSPHATIC
SANDS, FAIR CEMENT, FRIABLE, MANY ORGANIC BANDS OR STREAKS.
POROSITY IS MODERATE-GOOD.

- 339.5- 344.5 CALCARENITE;
A LIGHTER SALT AND PEPPER COLOR. CLAYEY IN SPOTS. SOME
AREAS OF MORE CONCENTRATED PHOSPHATES. A CALCIC CEMENTED
BEACH SAND. POROSITY MODERATE TO GOOD.
- 344.5- 348.5 AS ABOVE
CLAYEY. GRADES FROM LIGHTER TO DARKER GRAY WITH CHANGES IN
THE CONCENTRATION OF PHOSPHATE SAND.
- 348.5- 349.5 CLAY; DARK GREEN
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND-%
SANDY, DENSE.
- 349.5- 354.5 CLAY; DARK GREEN
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND-%
CLAY AND SANDS- UPPER 1' CLAY, GRADES BACK AND FORTH FROM
CLAY TO V. SANDY CLAY.
- 354.5- 359.5 AS ABOVE
CLAY W/ VARIABLE AMOUNTS OF WELL CEMENTED BEACH SANDS.
- 359.5- 364.5 CLAY; MODERATE GRAY TO DARK GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %, ORGANICS-%
SILT TO CLAY SIZED PARTICLES, WELL COMPACTED, FAIR SORTING
GRADES FROM PURE CLAY TO A VERY ARENACEOUS CLAY. POROSITY
FAIR TO LOW.
- 364.5- 369.5 SILT; LIGHT GRAY
POROSITY: LOW PERMEABILITY
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: QUARTZ SAND- %, CLAY- %
PHOSPHATIC SAND- %, CALCILUTITE-%
CLAYEY SILTSTONE. A LARGE % OF SAND AND SILT SIZED QTZ
PHOS., AND CALCIC PARTICLES. WELL SORTED, COMPACTED AND
CEMENTED. POROSITY LOW.
- 369.5- 374.5 CLAY; VERY LIGHT GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: PYRITE- %, QUARTZ SAND- %, SILT- %
PHOSPHATIC SAND- %
OTHER FEATURES: CALCAREOUS
CLAY AND LIME- STREAKED WITH MANY GRAY, BROWN, AND BLACK
LENSES OF ORGANICS, SOME MARLS, MINOR QTZ AND PHOSPHATE
SANDS AND SILTS. SOME EUHEDRAL PYRITE CRYSTALS IN BLACK
ORGANIC ZONES. POROSITY LOW.

- 374.5- 379.5 CLAY; DARK GREENISH GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: ORGANICS- %, PYRITE-01%
QUARTZ SAND- %
OTHER FEATURES: CALCAREOUS
MINOR BLACK AND BRN ORGANIC STREAKS. GRADES AT BOTTOM TO A
LIMEY ARENACEOUS GREY CALCILUTITE.
- 379.5- 384.5 CLAY; LIGHT GRAY TO MODERATE GRAY
POROSITY: LOW PERMEABILITY; GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
OTHER FEATURES: CALCAREOUS
COMPACT. VERY LIMEY IN SPOTS.
- 384.5- 389.5 CLAY; MODERATE GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND-%
SILT TO CLAY SIZED PARTICLES, SOME SMALL WELL ROUNDED QTZ
AND PHOS. SANDS.
- 389.5- 394.5 CLAY; MODERATE GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: CHERT- %, ORGANICS-%
VARYING SHADES OF GRAY. FINER AND MORE INDURATED THAN
ABOVE. MANY DARK ORGANIC LENSES, SOME THIN CHERT LENSES.
- 394.5- 399.5 CLAY; CREAM TO WHITE
POROSITY: LOW PERMEABILITY; GOOD INDURATION
ACCESSORY MINERALS: CALCILUTITE- %, QUARTZ SAND- %
OTHER FEATURES: CALCAREOUS, CHALKY
VERY CALCIC AND CHALKY, FINE AND WELL LITHIFIED MATERIAL.
- 399.5- 401.5 LIMESTONE; CREAM
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: VERY FINE; GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: CHALKY
MICRITE AND MARL. DENSE, HARD.
- 401.5- 402.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: CALCILUTITE
MICRITE, SOME MOLDS AND CRYSTALLINE CALCITE, FRIABLE, GOOD
POROSITY.
- 402.5- 404.5 CLAY; CREAM TO LIGHT GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: CALCAREOUS
MARLY OR LIMEY, WITH SOME WELL MIXED PATCHES OF GRAY QTZ
BEACH SAND. SHALEY APPEARANCE (MUDSTONE?) SHOWS SOME
FISSILITY?. POROSITY IS LOW.

- 404.5- 409.5 LIMESTONE; WHITE
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %
OTHER FEATURES: CHALKY
CLAYEY MICRITE.
- 409.5- 414.5 CLAY; LIGHT GRAY TO MODERATE GRAY
POROSITY: LOW PERMEABILITY; GOOD INDURATION
SEDIMENTARY STRUCTURES: FISSILE
OTHER FEATURES: CALCAREOUS
LIMEY, SHALE-LIKE WITH SOME FISSILITY, SILTSTONE?, OR
MUDSTONE, HARD AND DENSE, WELL SORTED AND WORKED.
- 414.5- 418.5 AS ABOVE
- 418.5- 419.5 LIMESTONE;
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: VERY FINE; GOOD INDURATION
ACCESSORY MINERALS: CLAY- %
OTHER FEATURES: CHALKY
FOSSILS: BENTHIC FORAMINIFERA
DENSE, HARD. ABUNDANT SORITES.
- 419.5- 424.5 CALCILUTITE; LIGHT GRAY TO MODERATE GRAY
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
ACCESSORY MINERALS: CLAY- %
FOSSILS: BENTHIC FORAMINIFERA
CLAY- LIMEY MUDSTONE, SOME SORITES. HARD, DENSE.
- 424.5- 429.5 AS ABOVE
SOME MINOR SANDS WITH SOME ORGANIC STREAKS.
- 429.5- 434.5 CLAY; VERY LIGHT GRAY
GOOD INDURATION
ACCESSORY MINERALS: QUARTZ SAND-%
SAME, FINE, HARD, THIN QTZ SAND FINELY SPREAD THROUGHOUT.
CLAY GRADES FROM NO CRACKS TO SOME FISSILITY, MUDSTONE
LIKE.
- 434.5- 436.5 AS ABOVE
MEDIUM GREENISH GRAY, MOTTLED APPEARANCE.

- 436.5- 439.5 DOLOSTONE; LIGHT BROWNISH GRAY
POROSITY: PIN POINT VUGS, MOLDIC, LOW PERMEABILITY
GOOD INDURATION
ACCESSORY MINERALS: SPAR-%
DOLOMITIZED LS, HARD, DENSE, CLAY-LIKE APPEARANCE-- EXCEPT
VERY HARD, MODERATE MOLDIC POROSITY, MICRO VUGGY MOLDS ARE
LINED WITH CALCITE SPAR.
- 439.5- 441.5 DOLOSTONE; CREAM TO WHITE
GRAIN SIZE: FINE; GOOD INDURATION
FINE DOLOMITIZED MICRITE, HARD, DENSE, SOME MOLDS. POROSITY
FAIR.
- 441.5- 444.5 LIMESTONE; CREAM TO WHITE
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, CALCILUTITE, CRYSTALS
ACCESSORY MINERALS: QUARTZ SAND- %
FOSSILS: MOLLUSKS, FOSSIL MOLDS
BIOMICRITE, FRIABLE, ABUNDANT MOLLUSK MOLDS, SOME CALCITE
OOZE COATING MOLDS. POROSITY IS HIGH.
- 444.5- 449.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
ACCESSORY MINERALS: QUARTZ SAND- %, PHOSPHATIC SAND- %
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, FOSSIL MOLDS
BIOMICRITE, FRIABLE, ALL SHELL MATERIAL HAS BEEN CALCIFIED.
POROSITY IS GOOD.
- 449.5- 453.5 LIMESTONE; CREAM TO WHITE
POROSITY: POSSIBLY HIGH PERMEABILITY
ARENACEOUS MICRITE, FEWER MOLDS, VERY FRIABLE, CLAYEY OR
PUNKY IN SPOTS. POROSITY IS HIGH.
- 453.5- 454.5 CLAY; LIGHT GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %, CALCILUTITE-%
- 454.5- 459.5 CLAY; CREAM
POOR INDURATION
ACCESSORY MINERALS: QUARTZ SAND- %, CALCILUTITE-%
VERY MARLY AND ARENACEOUS CLAY WITH QTZ AND LIMEY SANDS.
CRUMBLY AND POORLY CEMENTED. POROSITY IS FAIR.

- 459.5- 464.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE, PELLET
GOOD INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, FOSSIL MOLDS, FOSSIL FRAGMENTS
BIOMICRITE, THE UPPER 1' IS FRIABLE AND THE BOTTOM 4' IS
WELL CEMENTED AND NOT FRIABLE, HIGHLY FOSSILIFEROUS
ABUNDANT MOLLUSK MOLDS AND SHELLS (ALL CONVERTED TO
CALCITE). MANY FECAL PELLETS OR OOLITES 1-2 MM IN DIAMETER.
POROSITY IS MOLDIC AND HIGH.
- 464.5- 469.5 LIMESTONE; CREAM TO LIGHT BROWN
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, CALCILUTITE
GOOD INDURATION
BIOMICRITE. WELL CEMENTED AND HARD. MANY LARGE MOLDS.
- 469.5- 474.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
MODERATE INDURATION
BIOMICRITE. WELL CEMENTED IN SOME ZONES AND FRIABLE IN
OTHERS. MANY SMALL MOLDS AND FEW LARGE MOLDS. FEWER
FOSSILS. SOME GREEN STAINS IN PORES. HIGH POROSITY.
- 474.5- 479.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
OTHER FEATURES: HIGH RECRYSTALLIZATION
FOSSILS: MOLLUSKS, FOSSIL MOLDS
BIOMICRITE. HIGHLY FOSSILIFEROUS, MANY WELL PRESERVED
TURRITELLA. LOTS OF CALCIFICATION, APPARENTLY THE RESULT OF
GROUND WATER SOLUTION, SOME GREEN STAINS IN MOLDS, WELL
CEMENTED IN MOST AREAS, HOWEVER, MOSTLY IT IS FRIABLE.
POROSITY IS HIGH.
- 479.5- 482 CALCILUTITE; CREAM
OTHER FEATURES: DOLOMITIC
PARTIALLY DOLOMITIZED AS ABOVE.
- 482 - 484.5 LIMESTONE; CREAM TO WHITE
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
DOLOMITIZED MICRITE. FEW FOSSILS, HARD, DENSE.

- 484.5- 489.5 LIMESTONE; CREAM
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
OTHER FEATURES: DOLOMITIC
SOME CLAY MARL, MOST OF THE LS IS PARTIALLY DOLOMITIZED
FEW FOSSILS OR MOLDS, SOME TURQUOISE COLORED STAINS OF
CLAYEY MATERIAL- PROBABLY WEATHERED PHOSPHATE ACCESSORY
MINERALS.
- 489.5- 494.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
OTHER FEATURES: WEATHERED
VERY FRIABLE, MOST FOSSILS HAVE BEEN HIGHLY WEATHERED AND
CAN NO LONGER BE RECOGNIZED. HIGH POROSITY.
- 494.5- 499.5 AS ABOVE
SOME HARD CALCITE PEBBLES.
- 499.5- 504.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: FINE
FRIABLE, LIKE A CRUMBLY LIMESTONE CLAY, POWDERY, FEW
FOSSILS, POROSITY IS HIGH.
- 504.5- 509.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
GRAIN SIZE: FINE
FRIABLE, SLIGHTLY COARSER THAN ABOVE, SOME BLUE-GREEN PHOS.
ACCESSORIES, POROSITY IS HIGH.
- 509.5- 514.5 LIMESTONE; CREAM
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
MODERATE INDURATION
LESS FRIABLE, BETTER LITHIFIED, MANY MOLDS.
- 514.5- 519.5 AS ABOVE
ONLY COARSER, BETTER LITHIFIED STILL, SOME CALCIFIED
FOSSILS. CONTAINS MANY SMALL MOLDS. VERY POROUS MATERIAL .
- 519.5- 524.5 CALCARENITE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE, SKELETAL
GOOD INDURATION
OTHER FEATURES: FOSSILIFEROUS
FOSSILS: MOLLUSKS, BENTHIC FORAMINIFERA, FOSSIL MOLDS
A FOSSIL HASH ALL OF CALCITE COMPOSITION, MANY LARGE MOLDS
1-4 MM IN DIAMETER, GOOD CEMENTATION, FRIABLE, POOR
COMPACTION, FAIR SORTING. EXCELLENT POROSITY.

- 524.5- 529.5 LIMESTONE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
GRAIN TYPE: BIOGENIC, CALCILUTITE
BETTER CEMENT. LARGER MOLDS UP TO 1.5 CM IN DIAMETER.
- 529.5- 534.5 LIMESTONE; CREAM
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: BIOGENIC, CALCILUTITE
BIOMICRITE, UPPER HALF OF SECTION IS THE SAME. LOWER PART
OF SECTION GRADES INTO A WELL CEMENTED AND HARD LS. BOTTOM
PART IS LIGHT BROWN-CREAM, W/ SOME POCKETS OF CLAY, FEWER
LARGE MOLDS, MANY SMALL MOLDS, FRIABLE, HIGHLY WEATHERED
SLIGHTLY LESS POROUS.
- 534.5- 539.5 LIMESTONE; CREAM
GRAIN TYPE: CALCILUTITE
FINE MICRITE OR VERY FINE CALCARENITE. PUNKY ALMOST MARLY
FEW FOSSILS, GOOD COMPACTION AND SORTING. MODERATE
POROSITY.
- 539.5- 542.5 CALCARENITE; CREAM TO WHITE
POROSITY: LOW PERMEABILITY
GRAIN SIZE: VERY FINE
OTHER FEATURES: WEATHERED
HAS A LEACHED APPEARANCE. MOST FOSSILS WEATHERED OUT , HARD
AND DENSE, LOW POROSITY- CALCILUTITE. HAS INCREASING
DENSITY AND HARDNESS AT BOTTOM OF SECTION.
- 542.5- 545.5 CALCILUTITE; WHITE
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
GOOD INDURATION
CHALK, LEACHED OR BLEACHED APPEARANCE, VERY HARD, DENSE
ALL FOSSILS DESTROYED, VERY FINE MATERIAL SILT TO CLAY
SIZED. A FAULT ZONE WITH SLICKENSIDES APPROX. 6" LONG
VERTICALLY AND APPROX 2" HORIZONTALLY. COMPOSED OF CALCITE
STRINGERS AND SMASHED OR SMEARED PYRITE CRYSTALS. TWO
APPARENT PLANES OF MOVEMENT AT APPROX 115 DEGREES TO EACH
OTHER. THE LONGEST DIRECTION OF MOVEMENT IS VERTICAL AND
THE SHORTER ONE HORIZONTAL.
- 545.5- 549.5 LIMESTONE; WHITE TO CREAM
POROSITY: LOW PERMEABILITY
GRAIN TYPE: CALCILUTITE
SEDIMENTARY STRUCTURES: MOTTLED
OTHER FEATURES: CHALKY
DENSE, HARD, SOME POCKETS OF CALCARENITE, FEW FOSSILS
PUNKY, MOTTLED, SOME POCKETS OF CHALK-LIKE CALCITE
POROSITY IS LOW-MODERATE.

- 549.5- 553.5 CLAY; MODERATE GRAY
POROSITY: LOW PERMEABILITY
ACCESSORY MINERALS: QUARTZ SAND- %, CALCILUTITE-%
MINOR GREEN LENSES. VERY LIMY AND ARENACEOUS CLAY. PUNKY.
- 553.5- 559.5 CALCARENITE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL MOLDS
FOSSIL HASH, LEPIDOCYCLINA FAVOSA?, MANY SMALL MOLDS.
FRIABLE, SOME PUNKY OR CLAYEY AREAS. HIGH POROSITY.
- 559.5- 564.5 CALCARENITE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
FOSSILS: BENTHIC FORAMINIFERA, MOLLUSKS, FOSSIL MOLDS
FOSSIL HASH, VERY FRIABLE, POORLY CEMENTED AND COMPACTED
SOME MOLDS AND SMALL BROWN POCKETS OF CLAY. VERY POROUS.
- 564.5- 569.5 CALCARENITE; CREAM TO LIGHT BROWN
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC
OTHER FEATURES: WEATHERED
FOSSIL HASH, COMPOSED ALMOST ENTIRELY OF CALCITE. A
WEATHERED COQUINA IN APPEARANCE, VERY FRIABLE, MANY SMALL
MOLDS, FOSSILS NOT RECOGNIZABLE DUE TO WEATHERING. (GROUND
WATER SOLUTION).
- 569.5- 574.5 CALCARENITE; LIGHT BROWN
POROSITY: POSSIBLY HIGH PERMEABILITY
FOSSILS: MOLLUSKS, ECHINOID
FOSSL HASH, 95%+ CALCIC COMPOSITION, MANY SMALL MOLLUSK
FOSSILS, POROSITY IS HIGH.
- 574.5- 579.5 AS ABOVE
- 579.5- 584.5 CALCARENITE; CREAM
POROSITY: POSSIBLY HIGH PERMEABILITY, MOLDIC, VUGULAR
FOSSILS: CORAL, BENTHIC FORAMINIFERA, MOLLUSKS, ECHINOID
FOSSIL HASH, NEARLY ALL CALCITE COMPOSITION, ABUNDANT
FOSSILS, ACRAPORA CERVICORNUS. VERY FRIABLE, SOME AMOUNTS
OF WHITE CLAY OR LIME IN SOME PORES. HIGH MACRO MOLDIC
POROSITY THROUGHOUT.
- 584.5- 589.5 AS ABOVE
- 589.5- 598.5 EXCEPT MORE LITHIFIED AND HAVING SMALLER
MOLDS, SOME GREEN STAINS LINING MOLDS. MANY TURRITELLA
FOSSILS.
- 598.5- 594.5 LIMESTONE; CREAM
POROSITY: MOLDIC, POSSIBLY HIGH PERMEABILITY
GRAIN TYPE: CALCILUTITE
OTHER FEATURES: FOSSILIFEROUS
WITH LARGER MOLDIC PORES, AND SLIGHTLY BETTER LITHIFIED
FRIABLE, AND VERY POROUS.

594.5- 599.5 LIMESTONE; CREAM

GRAIN TYPE: CALCILUTITE

SMALLER PORES AND FEWER FOSSILS DUE TO WEATHERING OR
GROUNDWATER SOLUTION.

599.5- 604.5 CALCARENITE; CREAM

POROSITY: POSSIBLY HIGH PERMEABILITY

GOOD INDURATION

OTHER FEATURES: FOSSILIFEROUS

FRIABLE, WELL LITHIFIED, FEW MOLDS, HOMOGENEOUS WITH FEW
PARTICLES LARGER THAN SAND SIZED. MANY SMALL FOSSILS
POROSITY IS HIGH.

604.5- 609.5 CALCARENITE; CREAM

POROSITY: POSSIBLY HIGH PERMEABILITY

FRIABLE, WELL SORTED AND COMPACTED TO A SEMI-DENSE MASS
MANY MICRO MOLDS AND PORES, MICROCOQUINA. GOOD POROSITY.

609. TOTAL DEPTH