FC-HIC1

8050 - 60' Like the preceding.

8060 - 70' Dolomite as above, many cavings.

8070 - 8300' Samples between these depths - grayish tan succros dolomite and hard grayish-tan dolomitic limestone, with irregularly porous appearance due to removal of micro-fossils; varying amounts of anhydrite due to lenses of same as indicated by Schlumberger. Miliolids and Alveolinids noted in some fragments of the dolomitic limestone. Dolomite in part anhydritic. (same as above)

(Examples)

8180 - 90' Mainly grayish-tan and gray succros dolomite.

8200 - 10' 50% dolomite; 50% anhydrite.

8250 - 60' Tan and gray succros dolomite; some anhydrite.

8260 - 70' Like the above.

8290 - 8300' Mainly anhydrite. Some highly porous, hard, tan dolomitic limestone. (See #24 on slide.)

8300 - 10' Tan and gray dense succros dolomite.

8310 - 30' Dolomite as above; 50% anhydrite.

8330 - 40' Dolomite as above; some anhydrite.

8340 - 50' Dull tan and gray succros dolomite, argillaceous dolomite and dolomitic limestone.

8350 - 8400' Samples all similar in generic character, dull tan succros dolomite and anhydrite (in varying amounts corresponding to kicks on Schlumberger) gray and tan hard dolomitic limestone, irregularly porous due to removal of micro-fossils. Some lenses of gypsiferous dolomite.

8400 - 10' Somewhat gypsiferous, tan succross dolomite. Some porous tan, very finely granular dolomite; some anhydrite and anhydritic dolomite; and some tan dolomitic limestone with small light gray spots and some porosity due to removal of fossil material.

8410 - 60' Material like the above with varying amounts of anhydrite as given on Schlumberger. Dolomite irregular somewhat anhydritic.

8450 - 60' Some fragments of dolomitic limestone with many vague traces of fossils and some small, black spots (glauconite?) (see #25 on slide).

8460 - 70' Tan succross dolomite and argillaceous tan dolomitic limestone, irregularly gypsiferous. Anhydrite common.

8470 - 80' Mainly anhydrite.

8480 - 90' No change.

8490 - 8500' Anhydrite, some hard, gray and tan spotted anhydritic and dolomitic limestone.

8500 - 10' Coarsely gray and tan splotched dolomite,(dense and succros and in part argillaceous). A few fragments showing Miliolids and pockets left by removal of similar forms. Some fragments of limestone anhydritic. Some anhydrite, dolomite and dolomitic limestone similar to the above, hard porous fragments common.

8510 - 20' No change.

8520 - 40' Tan, succros, argillaceous dolomite, occasionally porous and showing some faint traces of micro-fossils. About 50% anhydrite.

8540 - 50' Like the above; 50% anhydrite.

8550 - 60' Mainly gray and tan anhydrite, a little dolomite as above.

8560 - 70' Dull gray and tan, anhydritic, irregularly finely porous, very finely granular dolomite.

8570 - 80' Like the preceding, but succros dolomite in part hard and in part argillaceous. Faint traces of an original highly micro-faunal content.

8580 - 90' Anhydrite, some dolomite.

8590 - 8600' Mainly anhydrite.

8600 - 10' Anhydrite, and 25% tan succros dolomite in part porous and in part anhydritic.

8610 - 20' About 50% dolomite and dolomitic limestone, gray and tan, partly porous, partly hard. A few molds of macro-fossils.

8620 - 30' Gray and grayish-tan succros dolomite, argillaceous dolomite, and dolomitic limestone, like the above - 50% anhydrite.

8630 - 40' Material as above. About 25% anhydrite. A few molds of fossil bivalves (for typical specimens of limestone, see #26 to 28 on slide).

8640 - 60' Like the preceding, some chalky dolomite.

8660 - 8700' Samples poorly washed, apparently similar to above; a tan and gray chalky and highly anhydritic dolomite. A few fragments showing a large amount of finely fragmental fossiliferous material and small Miliolids (see #29 on slide).

Miliolids in 8660

8700 - 20' Gray and tan, dense, hard, very finely granular dolomite with many fragments having a highly pitted appearance, from removal of micro-fossils and other fossil material. About 25% anhydrite.

8720 - 30' Like the above, but many fragments anhydritic.

8740 - 50' Mainly anhydrite.

8750 - 70' Same as above.

8770 - 80' Gray and grayish-tan, dense succros dolomite.

8780 - 90' Dolomite as above and hard, dolomitic limestone, 50% anhydrite.

8790 - 8800' Dolomite as above.

8800 - 10' Grayish tan succros dolomite, some anhydrite and some fragments of an oolitic anhydritic limestone, in which oolites are dolomitic and matrix anhydritic (see #29 on slide).

8810 - 20' Materials as above and about 50% anhydrite.

8830 - 40' Grayish-tan succros dolomite, about 75% anhydrite.

8840 - 50' Anhydrite, some dolomite as above.

8880' Probably Top Fredericksburg. Note: No sample cuts (8850 to 9290') - were left out at the well and mildewed.

A few core fragments in this interval.

9017 - 25' Fredericksburg Core #45. Light grayish-tan limestone with irregularly thin partial lenses or broad streaks of a black, muddy sh. (Limestone Fred. in character.)
Note: These cores all small, presumably representative fragments about $\frac{1}{2}$" in thickness.

9030 - 33' Core #47. Light gray or tan, hard limestone, fragments of macro-fossils, some specimens of Quinqueloculina sp. - Cornuspira? sp. - Coskinolina adkinsi. = Coskinolinoides texanus

9025 - 30' Core. Like the preceding.

9033 - 41' Core #48. Hard, light gray, chalky textured limestone like the above. Some specimens of small Miliolids and Ophthalmididae? some of Cornuspira? sp., some black (pyritic) molds of small Ostracods.

9041 - 45' Core #49. Small piece of hard, white, macro-fossiliferous limestone, highly and thickly streaked with black, muddy or tarry? irregular partial lenses.

9045 - 55' Core #50. Several small fragments of a hard, light gray limestone, finely and thickly veined with a black residue. Some gray sections of Lituola and small Miliolids.

9055 - 65' Core #51. Hard, light tan-gray limestone, many fossil fragments generally represented by dark gray pyritised molds. Fragments of macro-fossils, some irregular, thick black, muddy or shaly streaks in limestone (apparently filled crevices), some small Quinqueloculina and other Miliolids and some specimens of Coskinolina adkinsi. (same as above)

9065 - 75' Core #52. Hard, light grayish-tan limestone. Small, wheat-shaped Miliolids as above present, but not abundant.

9075 - 85' Core #53. A tan oolitic dolomite, with some dolomitic fragments of macro-fossil. Dolomite has a honey-combed appearance from removal of many oolites. Material is also somewhat anhydritic

and shows some light gray spots.

9075 - 85' Core #53. Top. Anhydrite.
Another Sample: Brown, oolitic dolomite, moderately finely granular, irregularly porous. Has blebs of anhydrite.

9085 - 87' Core #54. Dark, grayish or olive brown, finely granular dolomite, with oolitic areas indicated by highly and regularly pitted appearance. Material has anhydritic inclusions.

9087 - 92' Core #55. Finely granular, brown, somewhat porous dolomite, with chalky material in the intricacies of dolomite apparently representing very finely broken chalky fossil material. A few gray spots in dolomite (this dolomite finely granular, but grayish-brown - (not light grayish-tan) - and not so fine as to be succros as in much of the Washita dolomite section).

9092 - 94' Core #56. Moderately dense, brown dolomite, irregularly finely porous; porosity due to removal of micro-fossils and fragments.

9094 - 96' Core #57. A light grayish-tan oolitic and highly fossiliferous, chalky, moderately hard limestone, a coquina of oolites, some fragments of macro-fossils, some small Miliolids (often forming cores of oolites), some Ostracods, and a few blebs of anhydrite.

9095 - 9101' Core #58. A soft, chalky, oolitic dolomite.

9101 - 04' Core #59. A highly and finely porous, light brown, dolomitic and oolitic and somewhat anhydritic chalky material, apparently a pseudo-oolite, with very abundant specimens of Quinqueloculina forming cores of oolites. Some Ostracods also present. Some blebs of anhydrite.

9104 - 14' Core #60. Rec. 4'. A dense, olive-gray, finely granular dolomite. Chalky fragmental fossil material common. Some Miliolids.

9104 - 14' Core #60. Rec. 4'. Core of dense, succros dolomite, transversely veined with brownish-black residue, apparently of ferruginous origin since hematitic reddish areas show on the veins and stain the near-by areas. Small Miliolids including some specimens of Nummoloculina, a few sections of Lituola ~~inflata~~ subgoodlandensis and fragments of macro-fossils noted. Prob. var.

9114 - 19' Core #61. Rec. 5'. Dark tan-gray shaly dolomite, dense, with some thin lines highly and moderately finely gray spotted.

9119 - 29' Core #62. Hard, dark gray, very finely pyritic shale. Some small pyritised fossil fragments present.

9129 - 39' Core #63. Gray shaly dolomite. Dark colored transverse veins abundant.

9139 - 44' Core #64. Rec. 5'. Top. Gray, thickly light spotted anhydrite.

9144 - 51' Core #65. Anhydrite like the above.

9151 - 54' Core #66. Rec. 3'. Same as above.

9154 - 59' Core #67. No change.

9159 - 69' Core #68. Tan-gray, succros dolomite.

9169 - 71' Core #69. Anhydrite and many irregular streaks of succros dull grayish shaly brown dolomite.

9171 - 74' Core #70. Hard, brownish-gray succros dolomite with large blebs of anhydrite.

9174 - 81' Core #71. Dull dark grayish-brown, dense, succros dolomite. Has a conglomeritic appearance from being composed of large blebs of anhydrite separated by a dolomitic matrix.

9181 - 88' Core #72. Rec. 4'. Hard, dark gray, thinly laminated calcareous shale.

9185 - 95' Core #73. Rec. 7'. Hard, dense, extremely finely granular (succros) olive-gray dolomite with some blebs of anhydrite.

9195 - 9203 Core #74. Rec. 7½'. Hard, dark gray shale.

9203 - 08' Core #75. Rec. 5'. Hard, light tan limestone with some irregular light gray areas. Small Miliolids common. Material is a finely cemented coquina of small shell fragments, small Miliolids (Quinqueloculina) and some Ostracods, a few specimens of Lituola ~~inflata~~. same as above.

9208 - 15 Core #76. Top. Hard, gray, succros dolomite, with some dark gray vein-like shaly streaks. Some large porous pockets in a macro-fossiliferous portion of the core, coated with a black material (mud-stone?). Hard, gray, chalky, succros dolomite streaked with gray sticky shale. A few small micro-fossils.

9215 - 18' Core #77. Rec. 2½'. Light brown, very finely granular, somewhat finely porous dolomite, with small blebs of anhydrite.

9218 - 20' Core #78. Rec. 2'. Olive-gray, dense succros dolomite, slightly blacked veined.

9220 - 25' Core #79. Top. Anhydrite (light and dark gray).

9225 - 35' Core #80. Rec. 8'. Dark gray shale.

9281 - 84' Core #81. Dense light gray, extremely finely granular dolomite. Some scattered, small, irregularly shaped, black inclusions.

9284 - 86' Core #82. Rec. 1'. Dolomite like the preceding. A few minute black spots.

9306 - 08' Core #83. Light grayish-tan dolomite like preceding in generic character. Some vein-like gray streaks.

9290 - 9300' Gray and tan succros dolomite and about 25% anhydrite.

9300 - 10' Dolomite as above and highly anhydritic (the anhydrite in abundant blebs in matrix of dolomite). A few fragments of light tan, hard, platy limestone, with many specimens of Cornuspira? and a few Quinqueloculinas.

9308 - 12' Core #84. Grayish-tan, succros dolomite.

9312 - 17' Core #85. Rec. 4'. Hard, light grayish-tan succros dolomite.

9328 - 33' Core #86. Rec. 4'. Hard, light tan chalky limestone. Poorly preserved Miliolids fairly common.

9339 - 41' Core #87. Rec. 1½'. Light cream, hard, chalky and very finely dolomitic limestone. Miliolids abundant, also many fragments of macro-fossils. Cornuspira? and Quinqueloculinas are the most common Miliolids.

9341 - 43' Core #88. Top. Grayish-tan hard succros, slightly chalky dolomite. Miliolids (Quinqueloculina and Cornuspira?) abundant and many small, dark gray, irregularly shaped fragments of undetermined material.

9340 - 50' Mainly gray and tan succross dolomite as above, some fragments with many Miliolids.

9350 - 60' Like the preceding. Also some fragments of a grayish-brown, hard, platy limestone, with some Miliolids and other fossil fragments; some of these preserved as gray molds.

9360 - 70' Mainly light tan and gray succros dolomite, occasionally dark gray spotted. Some tan, hard, chalky and somewhat dolomitic limestone with Miliolids. A few fragments of anhydrite.

9370 - 80' Dolomite and some anhydrite as above, also some fragments of a hard, platy, gray and tan, partly dolomitic limestone, with some Miliolids.

9380 - 90' Hard, platy, limestone, as above; a little dolomite and anhydrite. Many oolites possibly washing from an oolitic chalk.

9390 - 9400' Tan, finely granular, porous, highly anhydritic dolomite.

9397 - 99' Core #89. Hard, light grayish tan succros, dense dolomite.

9399 - 9400' Core #90. Finely porous, highly anhydritic, finely granular, light brown dolomite.

9400 - 02' Core #91. Finely granular, porous, grayish-tan dolomite. Dolomite is anhydritic.

9402 - 05' Core #92. Somewhat porous, light grayish-tan succros dolomite.

9405 - 06' Core #93. Dolomite similar to the above, but finely porous and anhydritic.

9406 - 07' Core #94. Dolomite like the above.

9407 - 09' Core #95. Top. Tan succros dolomite, hard dolomite. (Core burned about edge)

9410 - 20' Tan and gray succros dolomite and tan and gray, hard, platy limestone.

9420 - 30' Material like the above, a few fragments of the hard, tan limestone with many Miliolids.

9430 - 40' Like the preceding. Some anhydrite.

9440 - 50' Hard, dark brownish-gray and some hard tan limestone. Some anhydrite. A few fragments with traces of micro-fossils. (Note. Cut samples in 93 and 9400' section all highly chalk-coated and hard to describe accurately even when wet.)

9450 - 60' Mainly gray and tan succros dolomite. Someanhydrite.

9460 - 70' Dolomite as above, also some fragments of a hard, tan and dark gray limestone fragmentary fossil material. Some anhydrite.

9470 - 80' Mainly tan, succros anhydritic dolomite.

9480 - 90' Dolomite and some slightly dolomitic tan chalk. Some anhydrite.

9490 - 9500' Tan and gray, dense succros dolomite. A little anhydrite.

9500 - 10' Dolomite as above, a few fragments of a hard light grayish-brown limestone with darker gray areas. This limestone shows some Miliolids and some black spots.

9510 - 20' Dolomite as above, some dolomitic chalk with many Miliolids, a few fragments of the hard, tan limestone as above.

9520 - 30' No change.

9530 - 40' Several types of tan to grayish-brown, very finely granular dolomite. Some cream-colored, flaky, gray spotted chalk. Some Miliolids in chalk.

9540 - 50' Mainly grayish-tan and brown, irregularly porous, very finely granular dolomite and some hard, dense, tan to grayish-brown dolomitic limestone.

9550 - 60' Like the preceding. A little anhydrite.

9560 - 70' Same as above. More anhydrite.

9580 - 90' Same dolomite as above, abundant chalk cavings.

9590 - 9600' Dolomite as above, some anhydrite and fragments of a hard, white, gray spotted, chalky limestone, with abundant small Miliolids; abundant chalk cavings.

9600 - 10' Dolomite and some dolomitic and Miliolid chalk. Abundant caving of chalk from Upper Cretaceous section.

9610 - 20' Dolomite like that above. Many chalk cavings.

9620 - 30' Dolomite as above, some fragments of a moderately hard, white,

somewhat dark spotted chalk, with some Miliolids. Abundant chalk cavings.

9630 - 40' Like the preceding. A little anhydrite.

9640 - 50' Some dolomite as above, and many fragments of a tan and gray, chalky and dolomitic hard limestone, with many miliolids and small dark gray spots (see #34 to 36 on slide).

Oil-lease

9650 - 60' Some dolomite and some Milioline tan and gray limestone as above. Abundant cavings. Specimens of Cornuspira? sp. common among the Miliolids.

9660 - 70' Dolomite and a few fragments of limestone as above. A few fragments of anhydrite and abundant chalk cavings.

9680 - 90' Finely granular, tan and grayish-tan dolomite. Some dolomitic, white, Milioline chalk. A few fragments of the light tan-gray, dark-gray spotted Milioline limestone as above.

9690 - 9700' Grayish-tan, very finely granular dolomite and many fragments of light cream and gray, chalky and somewhat finely dolomitic limestone. Limestone is gray spotted and shows many Miliolids.

9700 - 10' Porous and anhydritic, very finely granular, tan and gray dolomite. Some anhydrite and some fragments of the light grayish-tan, gray spotted Milioline limestone as above.

9710 - 20' Light brown and gray, very finely granular dolomite. Some fragments of gray and tan chalky and somewhat dolomitic Milioline limestone (gray spotted) as above. Some fragments of a harder gray and tan-gray spotted limestone with Miliolids.

9720 - 30' Like the preceding and about 25% anhydrite.

9730 - 40' Dolomitic, chalky, Milioline, gray spotted limestone, and some anhydrite. Abundant cavings.

9740 - 50' No change.

9750 - 60' Material as above and about 50% white anhydrite.

9760 - 70' Sample about 75% anhydrite.

9770 - 80' Mainly tan and gray, very finely granular dolomite. Some white, chalky and irregularly dolomitic gray spotted limestone with Miliolids. About 25% anhydrite.

9780 - 90' Like the preceding.

9790 - 9800' Dolomitic and chalky, gray spotted, Miloiline limestone and anhydrite.

9800 - 10' Light grayish tan, chalky and somewhat dolomitic limestone,

highly and finely to rather coarsely dark gray spotted. Vague traces of Miliolids and some blebs of anhydrite in limestone.

9810 - 20' Limestone like the above, some fragments of anhydrite and of dolomite.

9820 - 30' Light grayish-tan spotted limestone as above, chalky to hard in texture. The gray and tan spots apparently represent fragments and small molds of fossils. A few Quinqueloculinas present.

9830 - 40' Limestone as in preceding and gray to tan succros dolomite. Some anhydrite.

9840 - 50' Like the preceding.

9850 - 60 As above, many chalk cavings.

9860 - 70' Like the preceding, more anhydrite.

9870 - 80' Mainly light brown, hard succros dolomite with some blebs of anhydrite.

9880 - 90' Dolomite as in preceding and 50% anhydrite.

9890 - 9900' Dolomite, some anhydrite, many cavings.

9890 - 93' Possibly Top Trinity 9875 by Schlumberger. Core #96. A light olive-brown oolitic dolomite, gray spotted. Traces of Miliolid structure in many of oolites.

9900 - 10' Cavings and some olive-tan, very finely granular dolomite.

9910 - 20' Dolomite as above and many fragments of a hard, olive-gray and tan-gray spotted limestone with some Miliolids.

9925 - 28' Core #97. Rec. 3'. Olive-gray succros dolomite.

9928 - 30' Core #98. Rec. 2'. Dolomite like that in preceding core (minutely crystalline).

9930 - 40' Dolomite as above and cavings.

9940 - 50' No change.

9950 - 60' Tan and grayish-tan minutely to very finely granular dolomite with some anhydrite inclusions.

9960 - 70' Dolomite as above and some hard grayish-tan, gray spotted dolomitic limestone.

9970 - 80' Dolomite and gray spotted limestone as above.

9980 - 90' Dolomite as above and some cream colored, soft, chalky and micro-fossiliferous limestone. Fossils preserved as light

brown (dolomitic?) molds.

9990 - 10,000 Drill Collar sample 9993 had Orbitolina ~~texana~~ minuta. Sample mainly cavings.

9994 - 97' Definite Trinity Core #101, Top. Hard, light grayish-tan, somewhat finely dolomitic limestone, highly tan and dark gray spotted with micro-fossil molds and fossil fragments. Some small Miliolids and some Ostracods noted. Some specimens of Ophthalmididae, & Orbitolina.

10,000 - 10' Cut of hard, tan to brown dolomitic limestone, many black spots representing fragments of micro-fossil molds. Also many fragments of a white, chalky, somewhat gray spotted limestone, with Miliolids and other fossil material. Some dolomite.

10010 - 20' Mainly very finely granular grayish-tan dolomite, occasionally gypsiferous and with some dark gray spots. Many fragments of hard, coarsely gray spotted limestone as in preceding sample.

10020 - 30' Mainly dolomite as noted in preceding sample.

10030 - 40' Like the preceding, some anhydrite. Orbitolina present.

10040 - 50' No change.

10050 - 60' No change.

10050 - 60' (Another sample.) Composed of fragments of a dark grayish-brown, hard, dolomitic limestone, with abundant fossil fragments preserved mainly as dark gray molds.

10060 - 80' No change.

10080 - 90' Dolomite and about 10% anhydrite like that above. A few fragments of hard, gray and tan dolomitic limestone.

10070 - 80' Anhydrite, dolomite and hard, gray and tan dolomitic limestone as above.

10090 - 100' Hard, platy olive-gray and some brownish-gray limestone. Some dolomite and some anhydrite. A few of limestone with fragmental fossil material.

10100 - 110' Like the preceding.

10110 - 20' No change.

10120 - 30' No change.

10130 - 40' Hard, olive-gray (or grayish-tan) platy limestone, somewhat black spotted and with occasional fossil fragments.

10140 - 50' Hard, dark brownish-gray, highly fossiliferous (rather coarsely

fragmental macro- and micro-fossil material) and oolitic limestone. Some Quinqueloculinas.

10150 - 60' Like the preceding.

10161 - 163' Core #102. Succros olive-brown dolomite.

10160 - 70' Fossiliferous, hard, grayish-brown limestone as above and some dolomite as in core above.

10170 - 80' Olive gray and light brown dolomitic chalk and hard dolomitic limestone, coarsely oolitic and with many miliolids and other fossil material (see #37 on slide).

10172 - 182' Core #103. Dark gray shale. A few small Miliolids and a few dark gray pyritised molds of other fossils and fossiliferous fragments.

10180 - 90' Light brown to dark olive-green, hard and dolomitic to almost white and chalky, highly fossiliferous limestone. Part of fossil material represented as dark, gray molds. Miliolids abundant in some fragments.

10190 - 200' Limestone like the preceding.

10200 - 10' Like the preceding.

10210 - 20' No change.

10220 - 30' Fragments of a variable olive gray to tan, hard to chalky and generally highly and coarsely oolitic limestone. Some Miliolids in part Cornuspira?, and some dolomitic fragments with many wheat-shaped Ophthalmididae, (see #38 and 39 on slide).

10230 - 40' Hard, dark to lighter olive-gray and finely gragmental (fossiliferous) limestone, highly gray spotted, irregularly oolitic.

10238 - 40' Core #104. Hard, olive-gray, dolomitic limestone with many fossil fragments and specimens of Ophthalmididae and some Miliolids.

10240 - 50' Hard, dark olive gray and brown, gray spotted, highly fragmental fossiliferous limestone like the above; a few of fragments oolitic.

10250 - 60' Like the preceding.

10262' Approx. top of Sunniland l.s.

10260 - 70' Like the above and 50% anhydrite.

10270 - 80' Same as above.

10280 - 90' No change.

10290 - 300' Like the above, also some fragments of a tan, dolomitic to chalky, Milioline and fragmental fossiliferous limestone.

10289 - 91' Core #105. Rec. 2'. A light brown, partly anhydritic cemented, irregularly chalky and dolomitic coquina of fragmental fossiliferous

material. Some Miliolids.

10291 - 99' Core #106. Rec. 6'. Dark gray shale or mudstone with many fragments of fossils.

10299 - 309' Core #107. Rec. 4 1/3'. Dark brownish-gray dolomitic? shale, some fossil fragments.

10309 - 15' Core #108. Rec. 1'. Light tan-gray, moderately hard limestone, with many fossil fragments giving limestone a tan and light gray spotted appearance.

10300 - 10' Moderately hard, light brown and some dark gray dolomitic limestone, with dark gray fossiliferous fragments and some Miliolids, (see #39 and 40 on slide).

10310 - 20' Like the preceding.

10320 - 30' No change.

10330 - 40' Like the above; fossil material more finely fragmental.

10340 - 50' Like the above, but with many fragments of dense, brown dolomite, very finely granular.

10350 - 60' Dolomite as above about 75% of sample.

10360 - 70' Light brown and dark gray, fragmental fossiliferous limestone as above and about 50% finely granular brown dolomite.

10370 - 80' No change.

10375' Approx. top Punta Gorda.

10380 - 90' Fragmental, fossiliferous limestone as above, a little dolomite.
from Martin-do.

10393 - 97' Core #109. Rec. 3½'. Hard, succros dark brown dolomite, with attached large fragments of anhydrite.

10390 - 400' Brown fragmental fossiliferous dolomitic limestone.

10397 - 407' Core #110. Rec. 10'. Anhydrite.

10400 - 10' Limestone and some dark gray shale, about 50% of sample very finely granular light brown dolomite with many attached fragments of anhydrite. A fragment of Orbitolina texana in one brown fossiliferous limestone fragment. (Prob. caved from overlying fos. l.s.)

10407- 09' Core #111. Anhydrite.

10409 - 16' Core #112. Hard, grayish-tan dolomitic limestone with dark gray spots, possibly representing fossil material.

10410 - 20' Approx. top of Big Anhydrite Sec.? Mainly succros, light brown dolomite and anhydritic dolomite; about 50% anhydrite.

10416 - 21' Core #113. Rec. 5'. Anhydrite.

10421 - 29' Core #114. Rec. 8'. Anhydrite.

10429 - 34' Core #115. Rec. 9'. Top. Hard, dark gray shale.

10438 - 48' Core #116. Top. Dark gray shale.

10448 - 58' Core #117. Rec. 10'. Hard, dense, olive-gray succros dolomite. Some black spots.

10458 - 68' Core #118. Rec. 8½'. Top. Like the preceding. Dark spots, representing fossil material.

10468 - 76' Core #119. Rec. 8". Hard, brown oolitic dolomitic limestone. Large bleb of anhydrite and some fossil fragments.

10475 - 85' Core #120. Rec. 10'. Hard, dark gray shale.

10485 - 90' Core #121. Rec. 4' 3". Hard, dark brownish-gray limestone, with some small gray areas and abundant brown nests of anhydrite crystals.

10490 - 500' Core #122. Rec. 10' Top. Anhydrite.

10500 - 10' Core #123. Rec. 10' Top. Hard, dense, succros, gray dolomite, with abundant brown markings apparently representing partial outlines of fossils and fragmental fossiliferous material.

10510 - 13' Core #124. Rec. 3'. Anhydrite and lenses of hard, dark gray dolomitic shale.

10513 - 21' Core #125. Rec. 8'. Top. Hard, dark gray dolomitic shale or shaly dolomite (succros).
Bot. Grayish-tan succros dolomite.

10521 - 24' Core #126. Dolomite as above.

10524 - 29' Core #127. Top. Dense, succros, grayish-tan dolomite. A fragment of a fish scale.

10533 - 34' Core #129. Hard, gray shale, with fragments of Ostrea-like fossiliferous bivalves.

10534 - 37' Core #130. Bottom. Anhydrite, some paper-thin lenses of black shale.

10537 - 43' Core #131. Rec. 6'. Anhydrite.

10543 - 48' Core #132. Rec. 5'. Top. Anhydrite, some thin lenses of black shale.

10548 - 58' Core #133. Rec. 8'. Dense, dark grayish-brown succros dolomite.

10551 - 52' Core #?. A highly oolitic, dark grayish-brown succros dolomite. A few Ostracods and a few Miliolids.

10558 - 64' Core #124. Rec. 6'. Hard, light gray limestone. Many large blebs of anhydrite.

10564 - 74' Core #135. Rec. 10'. Hard, brown, finely dolomitic and chalky textured limestone.

10574 - 84' Core #136. Rec. 2'. Anhydrite and some streaks of dense, brown, dolomitic limestone.

10584 - 89' Core #137. Rec. 2". Anhydrite.

10589 - 99' Core #138. Rec. 9'. Anhydrite Top. Bot. hard, tan dolomitic limestone with some coarse dark gray, fragmentary fossiliferous material.

10599 - 609' Core #139. Top. Hard, light grayish-tan succros dolomite, with many fine transverse dark colored veins; some with hemitite areas. Bot. Anhydrite.

10609 - 12' Core #140. Anhydrite, some dark brownish-gray, dolomitic shaly areas.

10612 - 17' Core #141. Anhydrite.

10617 - 22' Core #142. Gray and white anhydrite.

10622 - 33' Core #143. Top. Anhydrite.
Bot. Anhydrite.

10633 - 43' Core #145. Anhydrite and tan-gray, hard dolomitic shale.

10643 - 49' Core #146. Rec. 6'. Dark gray shale.

10649 - 54' Core #147. Top. 3½'. Tan-gray, hard, succros dolomite, flecked with small dark spots.
Bot. 2½'. dark gray dolomitic shale.

10654 - 59' Core #147. Anhydrite, some vein-like black dolomitic shaly streaks.

10659 - 64' Core #149. (Not a good core.) Finely gramular dolomite, some anhydrite.
Another sample. Hard, moderately finely gramular, grayish brown dolomite.

10664 - 66' Core #150. Dolomite as above, but porous, anhydritic and with black (tarry?) areas.

Approx. top marine beds, Early Trinity age.

10666 - 69' Core #151. Dark brownish-gray, finely gramular, dolomite, chalky and with some small blebs of anhydrite; a few fragments of macro-fossils.
Another sample. Hard, light gray-tan very finely gramular dolomite, dark gray spotted and streaked. Some Ostracods.
Another sample. Dense grayish-brown, finely gramular anhydritic dolomite.
Another sample. Like the preceding.

10674 - 76' Core #153. Brown porous dolomite and anhydrite.

10676 - 77' Core #154. Dark grayish-brown, very finely granular dolomite.

10677 - 77' 4" Dark grayish-brown, somewhat finely porous, very finely granular dolomite.

10677' 4" - 8" Dolomite as above, some dark gray shale.

10677' 8" - 78' Core #157 Top. Grayish tan, succros, anhydritic dolomite. Bot. Grayish-tan, dense succros dolomite, small brown, vein-like, short, scattered streaks.

10678 - 82' Core #158. Rec. 4'. Hard, dark grayish-brown, succros dolomite, slightly finely porous; some dark gray (carbonaceous?) areas.

10682 - 87' Core #159. Rec. 5'. Dull grayish-brown succros dolomite, some black-stained (petroleferous residue?) thin partial lenses.

10687 - 92' Core #160. Dolomite as above, with thin black shaly lenses.

10692 - 97' Core #161. Dark grayish-brown succros dolomitic, thin black (muddy) shaly lenses and partial lenses.

10697 - 702' Core #162. Dense, succros, dark grayish-brown dolomite.

10702 - 07' Core #163. Light brown, very finely granular dolomite. Scattered crystals of anhydrite.

10707 - 12' Core #164. Dolomite as above. A few small blebs of anhydrite. a few black, muddy shale inclusions.

10712 - 17' Core #165. Hard, grayish-tan, fragmental fossiliferous limestone. Some grayish-tan succros dolomite.

10717 - 22' Core #166. Grayish-tan succros dolomite.

10722 - 27' Core #167. Dark gray succros dolomite; fragments of fish scale present; some white anhydrite.

10727 - 32' Core #168. Tan and gray succros dolomite.

10732 - 37' Core #169. Rec. 5'. Very minutely granular, tan-gray dolomite, minute scattered black spots.

10737 - 42'. Core #170. Rec. 4'. Hard, black, calcareous shale.

10742 - 45' Core #171. Hard, dark gray shale.

10745 - 50' Core #172. Rec. 5'. Like the preceding.

10750 - 55' Core #173. Rec. 5'. Hard, black, calcareous (dolomitic?) shale. Another sample. Hard, light grayish-tan dolomitic limestone, highly dark gray spotted with fragments of molds of fossil material. Some fragments of fossiliferous bivalves.

10755 - 60' Core #174. Hard, light gray, highly dark gray spotted (fossil fragments) limestone. Some fragments of macro-fossils.

10755 - 61' (61 - 66'?) Core #175. Limestone like the preceding, very highly gray spotted (fragments of fossiliferous molds). Some fragments of fossiliferous bivalves.

10761 - 66' (66 - 71'?) Core #176. Rec. 3'½" Top. Dark brownish-gray, very finely granular dolomite.
Bottom. Dolomite as above, streaked with anhydrite and black muddy shale.

10771 - 76' Core #178. Hard, dark gray dolomitic shale.

10776 - 81' Core #179. Rec. 5'. Bottom. Light gray, very finely black flecked dolomite (succros).

10781 - 86' Core 180#. Rec. 7'. Dense dark grayish-tan, anhydritic dolomite, black spotted with some small glauconite pockets.

10786 - 91' Core #181. Rec. 5'. Hard, grayish-tan dolomite, with thin partial lenses of black, muddy shale.

10791 - 96' Core #182. Rec. 5'. Hard, succros, grayish-tan, finely brownish-gray flecked dolomite.

10796 - 801' Core #183. Rec. 2'. Hard, dense, light grayish-tan, highly dark gray flecked and spotted dolomite, contains a large bleb of anhydrite.

10801 - 06' Core #184. Rec. 3'. Dense, tan, gray-streaked, very finely crystalline dolomite.

10806 - 08' Core #185. Rec. 3'. Greenish-blue unctuous shale (chloritic?). Some pieces of brownish-gray - gray-spotted fragmental fossiliferous limestone.

10808 - 13' Core #186. Light cream colored, moderately coarsely crystalline and porous dolomite with blebs of anhydrite.

10813 - 14' Core #187. Rec. 1'. Dense cream colored dolomite similar to above.

10814 - 19' Core #188. Rec. 1'. Coarsely crystalline, porous anhydritic dolomite.

10819 - 24' Core #189. Like the preceding. Coarsely porous.

10824 - 29' Core #190. Rec. 1' Same as above.

10829 - 32' Core #191. Rec. 2' Light tan, chalky dolomite. Some traces of Miliolids.

10832 - 37' Rec. 4'. Core 192. Top. Light tan porous and anhydritic dolomite, coarsely crystalline.

10842 - 44' Core #194. Rec. 20". Dense tan and gray, coarsely crystalline dolomite.

10844 - 49' Core #195. Bottom. Like the preceding.

10849 - 54'	Core #196. Rec. 5'. Top. Dense tan and gray, more finely crystalline dolomite, large bleb or streak of anhydrite. A stylitic dark stained area.
10859 - 64'	Core #198. Dolomite as in preceding; some blebs of anhydrite.
10864 - 65'	Core #199. Rec. 8". Dense, very finely granular, olive-gray dolomite; some very thin lenses of black, muddy shale.
10865 - 69'	Core #200. Rec. 5'. Dense, very finely granular, grayish-tan dolomite.
10869 - 874'	Core #201. Dark grayish-tan, gray streaked, anhydritic, moderately finely granular, dense dolomite.
10874 - 78'	Core #202. Rec. 5'. Top. Tan-gray, succros, dense dolomite, abundant small shreds of pyritic carbonaceous material.
10878 - 84'	Core #203. Rec. 5'. Dark brownish-gray dense dolomite like the above in texture.
10884 - 89'	Core #204? Hard, dark grayish-brown dense limestone.
10889 - 94'	Core #205? Like the preceding.
10894 - 99'	Core #206? Hard, dark grayish-brown, dolomitic limestone, gray spotted with fragments of fossil material.
10899 - 904	Core #207? Limestone like the preceding. A specimen of Choffatella reported from this depth.
10904 - 06'	Core #208? Material as above. Many specimens of Ophthalmididae (tube-like forms.)
10890 - 900'	Mainly brown and brownish-gray, finely granular dolomite.
10900 - 10'	Dolomite and some hard brown, gray spotted limestone as above.
10910 - 20'	Like the preceding.
10920 - 30'	Dolomite as above, many cavings.
10930 - 40'	Dolomite and hard, grayish-brown, gray-spotted limestone as above; cavings abundant.
10940 - 50'	No change.
10950 - 60'	Like the preceding.
10960 - 70'	No change.
10970 - 83'	Dark brown - gray spotted limestone as above, and very finely granular, brownish-gray dolomite.
10890 - 11000'	Dark gray dolomitic shale, some hard grayish-tan and brown, flaky, gray spotted limestone with some Ophthalmididae (see #43 on slide). This limestone has a somewhat silty appearance.

11000 - 10' Mainly shale as above. Some dolomite and limestone; many cavings.

11010 - 20' Like the preceding.

11030 - 50' Like the preceding, some macro-fossil fragments in shale.

11050 - 60' Shale as above, also a number of fragments of a grayish-brown, highly gray spotted and coarsely oolitic fragmental fossiliferous limestone.

11060 - 70' Shale as above and a few fragments of the oolitic limestone as above. Fairly numerous fragments of a light brown to gray limestone, with abundant moderately finely broken fossil material.

11070 - 80' Shale as above. Also many fragments of a coarsely oolitic and somewhat fossiliferous (fragmental) gypsiferous limestone (see #43 and 44 on slide).

11080 - 90' Like the preceding.

11090 - 110' Mainly dark gray shale, some fragments of oolitic limestone as above, and some of a light brown, hard, black spotted limestone with fragments of fossil material (in part dark gray).

11110 - 20' Shale as above, also many fragments of the oolitic, dark gray spotted limestone as above. A section of a Choffatella present, some fragments of Ophthalmididae and other fossil material (see #45 on slide for limestone, with section of part of Choffatella).

11120 - 30' Sample about 50% dark gray shale and 50% fragments of the coarsely oolitic, gray spotted (fragmental fossiliferous material) light brown and gray limestone. For more fragments of this limestone (see #47 and 48 on slide). Choffatella decipiens present.

11130 - 40' Like the preceding.

11140 - 50' Shale and many fragments of the oolitic, fossiliferous limestone as above.

11150 - 60' Shale and some fragments of the limestone as above.

11160 - 70' Shale and some fragments of the oolitic limestone as above, also fragments of a dark spotted fossiliferous (fragments) dolomitic limestone. A little gypsum.

11170 - 80' Like the preceding. The limestone seems to be variable in color and texture, light brown to dark brownish-gray, soft and chalky to hard and apparently dolomitic and somewhat gypsiferous.

11180 - 90' Sample mainly the highly gray spotted, partly oolitic, fossiliferous (fragmental) limestone as above. Some shale.

11190 - 200' Like the preceding.

11203 - 05' Core #209. Rec. 7'. Brown, very finely granular, somewhat porous dolomite with blebs of anhydrite. Material contains a large

number of gray nodules which apparently represent poorly preserved dolomitic molds of Ostracods and other fragmental microfossil material. A little light green glauconite present in some of these gray molds.

11205 - 207' Core #210. Rec. 2½'. Like the preceding.

11207 - 10' Core #211. Dolomite as above, highly impregnated with small gray molds like those above, giving the core fragments an oolitic appearance.

11210 - 15' Core #212. Grayish -tan, very finely crystalline dolomite, highly gray spotted - spots of various shapes and sizes -, possibly representing remnants of fragmentary fossiliferous material, a few of these glauconitic.
Another fragment, more dense than preceding, some gray spots, possibly in part oolitic, some Miliolids and a fragment of a form with structure suggesting Choffatella(?).

11215 - 20' Core #213. Rec. 3'. Dense, very finely granular, grayish-tan, dolomitic limestone, contains a large amount of fragmentary macro- and micro-fossiliferous material, in part gray or gray outlined. Some Miliolids.

11220 - 22' Core #214. Rec. 2'. Dark gray shale, cutting samples 11200 - 20' also show about 50% dark gray shale.

11222 - 24' Core #215. Gray shale, with fragmentary fossiliferous material; some molds of Choffatella.

11227 - 32 Core #216. Marly gray limestone, many dark gray molds of fragmentary fossiliferous material and some Ostracods. Many specimens of several species of Miliolids.

11232 - 37' Core #217. Dense grayish-tan fossiliferous, gray spotted limestone like the preceding. Specimens of Miliolids and Ophthalmididae, and many gray molds of other micro-fossils and fossiliferous fragments. Some fragments of macro-fossils.

11237 - 42' Core #218. Hard, dense, grayish-tan oolitic limestone. A few specimens of Miliolids and of Ophthalmididae (species same as above).

11242 - 47' Core #219. Same as preceding.

11247 - 52' Core #220. Same as preceding.

11252 - 57' Core #221. Rec. 1'. Light tan, dense, oolitic and Milioline limestone. Miliolids and Ophthalmididae form about 50% to 75% of fossil material and often are cores of oolites.

11257 - 60' Core #222. Rec. 2'6". Dense, tan-gray, highly oolitic limestone. A few Miliolids.

11260 - 63' Core #223. Rec. 3'. Light tan, very finely granular dolomite.

11263 - 68' Core #224. Rec. 26". Light grayish-tan oolitic dolomite.

Dense with oolites more variable in size and generally smaller than in preceding oolitic limestone.

11268 - 73' Core #225. Rec. 2½'. Light grayish-tan dolomitic limestone, with a slightly silty appearance and with many oxidised (light reddish-brown) oolites, and nodules probably representing rolled micro-fossil material.

11273 - 78' Core #226. Rec. 5'. Light grayish-tan dolomitic limestone, moderately finely and rather evenly gray spotted material, has a finely silty appearance.

11278 - 84' Core #227. Rec. 2'6". Like the preceding.

11284 - 88' Core #228. Rec. 1'. Very finely granular, grayish-tan dolomite, gray-spotted (spots often circular suggesting oolites). Some small blebs of anhydrite.

11288 - 92' Core #229. Oolitic limestone, oolites light brown in light gray, dolomitic and silty (?) hard, dense matrix.

11292 - 94' Core #230. Rec. 6". Very finely granular, light grayish-tan dolomite. Small dark gray spots unevenly distributed.
Another piece - same core- like the above, gray spots more abundant, some Miliolids and some fragments of other fossil material.

11290 - 300' Gray spotted, fragmental fossiliferous, and in part oolitic lime-stone and dolomite as in the preceding samples.

11300 - 10' Like the preceding.

11310 - 20' Similar to above; very finely granular, gray-spotted dolomitic fragments relatively more abundant.

11318 - 20' Core #231. Rec. 8". Dark gray, thinly laminated shale.

11320 - 30' Core #232. Rec. 10'. Sample A. Brown dense dolomite with some irregular anhydrite inclusions and many dark gray, some brown and some tan oolites, Ostracod molds and molds of fragments of other macro- and micro-fossils.
B. Anhydrite.

11330 - 33' Core #233 - Rec. 8". Light gray, highly dark gray spotted (oolites) dolomite, very finely granular. Streaks of dark gray shale. Miliolids occasioally form nucleus of oolites.

11333 - 41' Core #234 - Rec. 2'6". Dense, light gray dolomitic limestone, with abundant oolites (partly dark gray and partly light brown). Some blebs of anhydrite. Miliolids often form nucleus of oolites.

11341 - 44' Core #235. Rec. 3'. A. Light gray-tan limestone, densely filled with gray molds of fragmental fossiliferous material, some Miliolids, a few Lituolid forms, fragments of other micro-fossils (not determined) and some small Gastropods and bivalve fragments.

B. Highly micro-fossiliferous limestone, like the above, but with less gray molds, more Miliolids and Ophthalmididae, some Ostracods and a few oolites.

11340 - 50' Cut of light to dark gray, dolomitic to chalky, gray spotted, partly oolitic, micro-fossiliferous limestone as noted in preceding samples.

11344 - 51' Core #236. Rec. 4'. A. Dark gray, oolitic shale? with reddish-brown oxidised thin streaks and lenses; one fragment of lignite. B. Light gray (dolomitic or silty?) calcareous shale, with some streaks of oxidised (reddish-brown) material and some areas thickly packed with black shreds and irregularly small circular areas of non-determined character.

11351 - 56' Core #237. Rec. 2¼'. A. Light gray dolomitic clay shale (has a very finely granular texture and effervesces with cold dilute acid). Small black splotches of carbonaceous? material, irregularly distributed.
B. Dense, light grayish-tan, oolitic dolomite, with a few Miliolids and some fragments of other fossil material. Oolites are light brown. Some gray Ostracod molds with light green filling (pos. glauconite); also, a small gastropod.

11350 - 60' Cut. of gray and grayish-brown and light tan limestone, chalky to hard and dolomitic, frequently highly oolitic; some fragments of dark gray shale. Oolites brown and dark gray in color in various fragments. Some fragmental fossiliferous material.

11360 - 70' Like the preceding.

11370 - 80' Like the above, very finely granular dolomitic limestone. Fragments of dark gray shale proportionally more common than above. A few fragments of anhydrite.

10380 - 90' Light gray and light tan, very finely granular dolomite, irregularly gray spotted. Some fragments of oolitic and fragmentary fossiliferous limestone and dolomite as above; some dark gray shale.

11390 - 400' Like the preceding.

11400 - 10' No change.

11420 - 30' Like the above, with a slight increase in fragments of anhydrite.

11430 - 40' About 50% dark gray shale and 50% dolomite and dolomitic limestone, (many fragments highly oolitic and containing some fragmental fossiliferous material).

11440 - 50' Sample about 50% anhydrite and 50% dark grayish-brown and light tan-gray, partly oolitic, gray spotted, finely granular dolomite and dolomitic limestone, which also carries some fragmental fossil material.

11450 - 60' Like the preceding (possibly 75% anhydrite).

11468 - 73' Core #238. A. Finely granular, grayish-brown dolomite, thickly and vaguely darker spotted.
B. Moderately dense tan dolomitic and anhydritic limestone. Many coarse, rounded qtz. grns., rather regularly distributed.

11473 - 75' Core #239. Rec. 1'. A. Light grayish-brown, very finely crystalline dolomite, highly and finely gray spotted, some blebs of anhydrite, scattered rounded medium qtz. grains.

11475 - 80' Core #240. (Apparently not consolidated) fragments of hard, brown, very finely granular anhydritic dolomite.

11480 - 83' Core #241. Rec. 1'7". Dense, oolitic, grayish-brown limestone, some fragmental fossiliferous material. Some specimens of Ophthalmididae (cf. Spirophthalmidium).
B. Same as preceding.
Also, 3rd. fragment of light grayish tan limestone, highly impregnated with dark gray oolites and mold and fragmentary molds of Ostracods and other fossils. One specimen showing structure of Choffatella?.

11483 - 86 Core #242. Rec. 1'6". A. Hard, light grayish tan limestone, irregularly streaked with black, muddy shale and has areas filled with dark gray oolites and molds of fragmental fossil material. Some fragments of fossil bivalves and a section of a coiled arenaceous foram noted.

11486 - 89 Core #243. Rec. 1'5". A. Limestone similar to above, filled with molds of Ostracods and rounded molds of fragmental fossil material (part gray, part light brown), a few Miliolids.
B. Same as preceding.

11489 - 92' Core #244. Rec. 3'. Dense, very finely granular, grayish-tan dolomite with many dark gray spots, contours of which suggest original micro-fossil molds, now very frequently filled with anhydrite. Some blebs of anhydrite.

11492 - 97' Core #245. Rec. 3'. A. Light grayish-tan dolomitic and silty limestone with many dark gray molds of Ostracods and rounded mold fragments of other fossil material. Some small fragments of macro-fossils, also apparently water worn.
B. Light brown, dense, very finely granular dolomite, some blebs of anhydrite, some dark gray molds of fossil fragments as above; these comparatively rare.

11497 - 502' Core #246. Rec. 5'. A. Light grayish tan dolomite, streaked with a thin, irregular web-like pattern of gray dolomitic shale.
B. Light grayish-tan, very finely granular dolomite, irregularly splotched with groups of dark gray spots representing Ostracod molds and molds of other fossil fragments.

11502 - 7' Core #247. Rec. 3½'. Grayish-tan dolomite like the above, some dark gray spots like the preceding in character.

11510 - 20' Grayish-tan dolomite like the above, some fragments highly dark gray spotted.

11524 - 30' Core #251. Rec. 6'. Dark gray, non-calcareous, thinly laminated shale.

11530 - 38' Core #252. Rec. 4'. Light grayish-brown, finely granular, dense anhydritic dolomite, abundant dark gray irregular streaks and splotches.

11551 - 52' Core #253. Rec. 1'. Oolitic, light tan, finely granular dolomite. Material is packed with oolites and rounded molds of micro-fossils and fossil fragments. Molds are hard and chalky in appearance. Some blebs of anhydrite.

11552 - 55' Core #254. Rec. 2'. A highly oolitic, light grayish-tan dolomite.

11555 - 56' Core #255. Rec. 1'. Unconsol. portion of core, like preceding in character.

11556 - 57' Core #256. Rec. 1'. Finely granular, grayish-tan dolomite, abundant, vaguely defined, gray oolites, variable in size.

11557 - 58' Core #257.- Rec. 1'. A hard, dolomitic, light grayish-tan, highly oolitic limestone. A few specimens of Ophthalmididae (cf. Spirophthalmidium), a few small, many chambered, Textularian foram.

11558 - 60' Core #258. Rec. 2'. Dense, finely granular, light tan dolomite, filled with hard, chalky molds and fragmentary molds of fossil material.

11560 - 63' Core #259. Rec. 15". Like the preceding. Some blebs of anhydrite.

11563 - 64' Core #260. Rec. 6". Light grayish-tan, very finely granular, finely gray spotted dolomite.

11560 - 70' Cut - mainly light grayish-tan, very finely granular dolomite, many fragments with abundant dark gray nodules; many of the fragments oolitic.

11570 - 80' Light grayish-tan, very finely granular dolomite and dolomitic limestone; many fragments highly oolitic, others with many fragments of fossil material, usually worn and rounded.

11580 - 90' Like the preceding.

11590 - 600' Cut of tan, highly oolitic limestone and gray, hard, partly dolomitic, highly oolitic limestone, highly dark gray spotted.

11600 - 10' Like the preceding.

11610 - 20' No change.

11620 - 30' No change.

11630 - 40' No change.

11640 - 41' Core #261. Rec. 6". Unconsolidated and partly burned fragments of core.

11640 - 50' Cut - grayish-tan, very finely granular dolomite with abundant dark gray, oolitic nodules and some inclusions of anhydrite.

11651 - 60' Like the preceding. (An Orbitolina texana reported from this sample, none seen by this writer).

11672 - 73' Core #263. Rec. 1'. Dark gray clay shale, calcareous and slightly micaceous.

11673 - 76' Core #264. Rec. 2'. Hard, light grayish-tan, dense, very finely granular dolomite.

11676 - 77' Core #265. Rec. 1'. A dense, dolomitic, very highly fragmental fossiliferous limestone, with many thin irregular veins filled with a brownish-black ferruginous, muddy shale and a thin coating of the same on eroded pockets in the limestone.

11677 - 681' Core #266. Rec. 3'. Hard, light grayish-tan limestone, similar to preceding, but not veined as above. Some Ostracods, oolites and a few Miliolids only determinable fossils. Major portion of fossil material rather coarsely broken and apparently rolled. Many of fossil molds gray in color, giving a gray spotted appearance to limestone.

11681 - 83' Core #267. Rec. 1'. Dense, dolomitic limestone, a mass of rolled micro-fossils and fossil fragments and oolites as above. Portions of limestone show staining and some infiltration of gray muddy shale.

11690 - 700' Cut of light brown, highly gray spotted dolomitic limestone and very finely granular dolomite, highly oolitic and fragmental fossiliferous as above.

11700 - 10' Like the preceding.

11710 - 20' As above, also many fragments of a finely granular, light brown dolomite with abundant fine dark spots (possibly carbonaceous material).

11720 - 30' Mainly tan, very finely crystalline dolomite, sparcely to highly gray spotted (rounded gray fragments of fossil molds, Ostracods and oolites). Some anhydrite.

11730 - 40' Light brown, very finely granular, highly gray spotted dolomite, many fragments with small gray spots, possibly representing carbonaceous material. A few fragments highly fossiliferous and oolitic as above.

11740 - 50' Tan and gray, very finely granular dolomite as above. About 20% anhydrite.

11750 - 60' Tan and gray, very finely granular, gray spotted (oolitic and fragmental micro-fossiliferous) dolomite, about 10% anhydrite.

11760 - 70' Like the above, about 50% anhydrite.

11770 - 80' Like the preceding. Some dark gray shale.

11780 - 90'	Similar to above. About 50% anhydrite.
11790 - 800'	Like the preceding. Also some dark gray shale.
11800 - 10'	About 50% anhydrite, 50% grayish-brown, gray spotted, very finely crystalline dolomite. A little dark gray shale.
11810 - 20'	Like the preceding.
11820 - 30'	About 1/3 anhydrite, 1/3 dolomite as above, and 1/3 gray shale.
11830 - 40'	Mainly gray spotted, brown to tan dolomite and dolomitic limestone like that above and dark and lighter gray calcareous shale. Some anhydrite.
11840 - 50'	Like the preceding.
11850 - 60'	Mainly light brown-gray spotted crypto-crystalline dolomite. Some gray shale; a little anhydrite.
11860 - 70'	Mainly gray and grayish-brown, chalky, gray-spotted, crypto-crystalline dolomite. Some anhydrite. Gray spots abundant in dolomite which is in part oolitic. Also, many elliptical molds in shale; fossils representing small Ostracods?. A few fragments with many nests of moderately large, dark brown dolomite crystals.
11870 - 80'	Like the preceding.
11880 - 90'	Dolomitic limestone like the preceding.
11890 - 900'	Limestone like the above. A little gray shale. A few fragments of anhydrite.
11900 - 10'	Like the preceding.
11910 - 20'	No change.
11920 - 30'	No change.
11932 - 42'	Core #274. Rec. 7'. Dark gray shale and dense, light brown crypto-crystalline dolomite. A few areas with black spots, elliptical and round.
11940 - 50'	Cut, light tan and gray, hard, crypto-crystalline, irregularly gray spotted dolomite. Some dark gray shale. A few fragments of anhydrite.
11950 - 60'	Mainly light brown, hard, crypto-crystalline dolomite. Some dark gray shale.
11960 - 70'	Dolomite as above and about 50% dark gray shale.
11970 - 80'	Dolomite as above, some gray shale.
11980 - 90'	No change.
11990 - 12000'	No change.

12000 - 10' No change.

12010 - 20' No change.

12020 - 30' Tan and gray, flaky, crypto-crystalline dolomite, about 10% fissile dark gray and some gray-green shale. Dolomite is frequently dark gray spotted; spots generally moderately small and rounded to elliptical in shape (spores?). Some light brown dolomite as above.

12030 - 40' Like the preceding.

12038 - 48' Core #275. Hard, dark olive-gray, dense dolomite or dolomitic limestone.

12050 - 60' Gray and tan flaky, hard, crypto-crystalline dolomite; many fragments with few to many dark gray rounded to broadly elliptical spots, generally moderately small. Some dark gray shale.

12060 - 70' Like the preceding, about 10% dark gray shale.

12070 - 80' Like the above, fewer gray spotted fragments.

12080 - 90' Limestone as above and about 50% dark gray and some greenish gray fissile shale. A little anhydrite.

12090 - 100' Like the preceding.

12100 - 10' Dolomite as above, about 50% - anhydrite and some shale 50%.

12110 - 20' Like the preceding.

12122 - 24' Core #276. Rec. 2'6". Olive gray dolomite. Hard, dense, irregular areas with many dark gray, rounded to broadly elliptical spots (spores?).

12124 - 126 Core #277. Rec. 1'7". Dark gray non-calcareous shale, with scattered, medium sized, rounded quartz grains.

12120 - 30' Mainly tan and gray, partly gray spotted limestone as above Core #277. Some dark gray shale and anhydrite.

12147 - 50' Core #278. Rec. 2'. Dense, light olive-gray dolomite (crypto-cryst.), thin lines of dark gray shale.

12150 - 60' Dense tan and light olive-gray, hard crypto-crystalline dolomite. A few fragments with moderately coarse, imbedded, well rounded, quartz grains.

12170 - 80' Like the preceding and about 10% dark gray and some dark greenish gray fissile shale. More dolomitic limestone fragments with sand grains as above.

12175.3 ft of clayatica fig jim martin

12180 - 90' Dolomitic limestone as above. Also, many fragments of sandy, light tan, dolomitic limestone (sand grains medium to moderately coarse), some fragments of a white, very finely, even-grained sandstone, and highly and very finely sandy, light greenish-gray,

Basal S. age (?)

calcareous clay shale; fragments of dark gray shale; a few fragments of unctuous sandy green shale; some fragments of fissile purplish-red shale. For these transitional materials see #13 to 19 on slide 2.

12190 - 200' Like the preceding.

12200 - 10' No change.

12210 - 20' Like the preceding. Some fragments of a white, medium-grained, calcareous quartz sandstone, grns. sub-angular (see #20 on slide 2).

12231 - 35' Core #279. Rec. 21". Hard gray, highly sandy, non-calcareous clay-shale or shaly sandstone; sand grains clear-rounded quartz, medium to coarse in size. Majority of grains medium. (See #21 on slide.)

12235 - 40' Core #280. Top 1½'. White, argillaceous, moderately coarsely grained, clear quartz sandstone (some grains of chalcedony), grains moderately coarse.
Bottom 1½'. Hard, light green, non-calcareous clay-shale. Scattered grains of medium sized, rounded quartz and some of chalcedony. Some fine quartz grains also present.

12240 - 43' Core #281. Rec. 1'. Soft white sandstone, grains coarse to very coarse, rounded to sub-angular quartz, soft white clay cement.

12243 - 45 Core # 282. Like the preceding.

12245 - 50' Core #283. Rec. 5'. Gray, mustard and red mottled, coarsely sandy clay-shale.
Bottom 4'. Moderately well consolidated, white argillaceous, finely grained sandstone. Some dark gray and a little light green mica.

12250 - 54' Core #284. Rec. 6". White, medium grained, argillaceous sandstone, some black and colorless mica. A trace of chlorite. Sand grains etched.

12254 - 58' Core #285. Rec. 3'6". Light green, highly sandy clay shale or shaly sandstone - grains fine to coarse, fine grains strongly predominate. A few small streaks of carbonaceous material.

12260 - 62' Core #287. Rec. 14". Moderately hard, light green, argillaceous, fine to medium grained, etched quartz sandstone.

12262 - 65' Core #288. Rec. 3'. Dull purplish-gray red, argillaceous sandstone. Sand grains rounded, etched very fine to medium (poorly sorted) clear quartz.

12265 - 70' Core #289. Rec. 4'. Argillaceous sandstone, mainly rounded, medium grained, etched quartz in waxy, dull purplish-red gray matrix.

12270 - 74' Core #290. Rec. 4'. Light green-reddish mottled, highly sandy clay-shale. Sand grains rounded - poorly sorted, very fine to coarse.

12274 - 76' Core #291. Rec. 15". Soft white argillaceous sandstone, grains coarse to very coarse, clear, etched, sub-angular quartz.

12276 - 81' Core #292. (washed) Poorly sorted (fine to very coarse) sub-angular, etched, quartz sand. Some fragments showing a dull dark, greenish-red, reddish mottled, waxy clay-shale matrix.

12281 - 86' Core #293. (washed) Fine to medium grained, rounded to sub-angular, etched, quartz sand. Many fragments of a light grayish-tan, fine-grained sandstone (little cementing material). Some fragments of a waxy green, sandy clay shale.

12286 - 92' Core #294. (washed) Top. Dull reddish brown gray, argillaceous and micaceous sandstone. Sand poorly sorted, very fine to coarse, sub-angular etched, micaceous black and colorless. Bottom. White sand, fine to coarse, coarse grains common, sub-angular, etched quartz. A few grains of pink feldspar. A few fragments of green, sandy, waxy clay shale.

12292 - 96' Core #295. (washed) Sand like the preceding. Also a few fragments of dull, purplish-grayish-red shale, which may represent the matrix for the sand.

12296 - 99 Core #296. (washed) Top. Fine, etched quartz sand, with some medium and moderately coarse grains.
Bottom. Fine to moderately coarse quartz sand, sub-angular with crystal faces noted on many grains and grains irregularly stained, a light red.

12299 - 12306' Core #297. (washed) Sand similar to preceding, but etched. Apparently in dull purplish-red-gray waxy matrix.

12300 - 10' Fine to moderately coarse sand. Fragments of dull brownish and purplish-red shale. Some fragments of green shale and cavings.

12310 - 20' Like the preceding. More cavings.

12314 - 20' Core. (washed) Medium grained, well sorted, clear quartz, sub-angular, crystal faces common on sand grains.

12320 - 29' Core #301. Light green, slightly arenaceous, soft sandstone. Sand grains medium to coarse, sub-angular etched.
(Another sample) White, medium to coarse-grained sandstone. Small amount of (apparently quartz) cement. Grains sub-angular, clear with crystal faces common.
(Another sample) Light green, argillaceous, medium to coarse-grained, soft colorless etched quartz sandstone.

12329 - 34' Core #302. Shaly, slightly micaceous sandstone or highly sandy shale. Light greenish-gray. Sand grains sub-rounded, etched.

12334 - 39' Core #303. Moderately hard, light gray, non-calcareous clay shale, irregularly and generally very finely sandy, with scattered moderately coarse grains of clear quartz.

12339 - 44' Core #304. Light greenish-gray, argillaceous sandstone. Sand poorly sorted, fine to moderately coarse.

12344 - 48' Core #305. Soft light gray, argillaceous sandstone. Grains colorless, etched, sub-rounded, quartz size, coarse to very coarse.

12348 - 54' Core #306. Well consolidated, light greenish-gray, argillaceous sandstone, grains clear quartz, poorly sorted, fine to coarse, etched.

12354 - 56' Core #307. Well consolidated, argillaceous, light olive sandstone. Sand grains fine to coarse, etched. Many fragments of black (reed-like) carbonaceous material.

12356 - 57' Core #308. Light pinkish-cream, slightly argillaceous, soft sandstone, grains sub-angular, generally medium to moderately coarse, frequently showing some crystal faces.

12360 - 70' Cut of sand, some waxy green sandy shale, some purplish-red shale and many cavings.

12370 - 75' Core #310. Soft argillaceous sandstone in a cream and dull grayish purplish red, waxy matrix. Grains generally coarse to very worn, sub-rounded, etched. Some fragments of purplish-red clay shale.

12375 - 81' Core #311. Soft sandstone, with dull reddish-tan, clay matrix, grains coarse to very coarse, rounded, etched.

12381 - 86' Core #312. Similar to above, but grains medium to moderately coarse.

12386 - 90' Core #313. Red, green-gray mottled, waxy, highly sandy mud-stone. Sand fine to coarse.

12390 - 94' Core #314. Dark reddish-gray, sandy, waxy mud-stone.

12394 - 407' Core. (washed) Medium to moderately coarse grained, sub-rounded, etched, quartz sand in pinkish-tan clay matrix.

12407 - 26' Dull red, sandy shale, apparently with large nodules of light dull red, somewhat sandy limestone.

12400 - 10' Fine to coarse, sub-rounded, etched sand. Many fragments of dark purplish-red, waxy shale. Some fragments of yellowish-green shale. Some cavings.

12410 - 20' Like the preceding.

12426 - 30' Core. (washed) Medium-grained sand in dark purplish-red, waxy matrix.

12430 - 36' Core. (washed) Dull dark purplish-red, highly sandy mud-stone. Sand rounded, etched, generally medium-grained with some moderately coarse grains.

12436 - 41' Core. (washed) Sand as above in a dark dull purplish-red, waxy matrix.

12441 - 46' Core. (washed) Same as preceding. Probably a highly sandy, dull, dark red mud-stone.

12446 - 50' Core. (?) (washed) Dark purplish-red shale and sand as above, cavings of various other materials.

12446 - 47' Core. Grayish, purplish-red, sandy clay shale and large nodular fragments of light grayish-red, somewhat sandy limestone. Sand is rounded and poorly sorted.

12447 - 53' Core. Like the preceding.

12453 - 60' Core. Top. Mottled light purplish-red and very light green sandy clay shale, apparently with large, somewhat sandy lime nodules in same colors.
Sample marked "A". Medium to coarse grained, rounded etched sand in dull grayish-red clay matrix.
Bottom. Sand like the preceding in deep mustard colored, red mottled matrix.
Another sample. Hard, irregularly sandy, light red and white mottled limestone. Sand grains poorly sorted (possibly a large nodule or lime streak in the sandy shale).

12460 - 70' Cut of dull dark purplish-red, sandy clay shale. Some fragments of reddish, slightly sandy limestone, cavings of various other materials.

12470 - 80' Like the preceding.

12480 - 90' No change.

12490 - 500' Red shale as above and many fragments of light reddish-tan, somewhat sandy limestone (probably nodular in sandy shale), cavings of various other materials.

12504 - 07' Core #324. Rec. 3'. Soft, pinkish, argillaceous sand, grains coarse to very coarse, clear quartz, sub-angular to rounded, etched.

12507 - 10' Core #325. Like the preceding.

12510 - 18' Core #326. No change.

12518 - 24' Core #327. No change.

12524 - 27' Core #328. (washed) Poorly sorted, fine to very coarse quartz sand, pinkish in color, some grains showing crystal faces.

12527 - 32' Core #329. Better consolidated, somewhat argillaceous sandstone, similar to above in generic character.

12532 - 42' Core #330. Rec. 9'. Soft, light green sandstone, with bentonitic and somewhat chloritic matrix. Sand is poorly sorted, fine to coarse, sub-angular, etched.

12542 - 44' Core #331. Rec. 18". Apparently a large hard, pinkish limestone nodule in a light dull red clay shale.

12544 - 50' Bag, but no sample.

12553 - 58' Bag, but no sample.

12550 - 60' Cut of fine to coarse sand. Many fragments of dark purplish-red, sandy clay shale, fragments of somewhat sandy, light pink (probably nodular) limestone. Some cavings.

12558 - 63' Core #334. Rec. 3'. Dull purplish-gray, argillaceous sandstone. Sand fine to medium, rounded, etched.

12560 - 70' Coarse to very coarse sand. Many fragments of dark purplish-red sandy shale. Cavings of various other material.

12570 - 80' Like the above, with some fragments of the pinkish, irregularly sandy, nodular? limestone.

12580 - 90' Same as above.

12590 - 600' A little fine sand in bag.

12600 - 10' No marked change. Fine to very coarse sand and fragments of dark purplish-red sandy clay shale. A few sandy fragments of nodular limestone.

12610 - 20' Similar to above. Proportionately more sand, less shale.

Top - Pre-Mesozoic rocks

12618 - 25' Core #336. Dull dark brownish-red sandy shale. Small grains of feldspar and some chlorite, (altered and weathered volcanic rock).
Bottom. Bright green, red streaked shale (altered and weathered volcanic rock).

Diabase rock

12620 - 30' Cut of materials as in last cutting samples above. Also, some fragments of extrusive volcanic rock (see #22 to 24 on slide 2).

12630 - 40' Cut like the above, with about 25% of sample the black, extrusive volcanic rock.

12640 - 50' Like the preceding. A few green (chloritic?) areas in the black material (see #25 and 30 on slide).

DS-30 DIABASE, GRN-570' IN PART

12650 - 60' Like the preceding. Greenish fragments of the extrusive volcanic rock more common.

12660 - 62' Core #339(?) Rec. 8'. Some dark red shale, which looks like a shale coating of a core.

12664 - 67' Core #338. Rec. 2'. Black igneous material and some of hard greenish and black material as in cuts above.

E. R. Applin

FL-HIL 2

Humble Oil & Refining Co.
G. C. Carlton, No. 1
Sec. 34, T.38S., R.29E.
Highlands County, Florida
Report By: E. R. Applin
Date: August 1951
Humble Oil & Refining Co. samples.

Report on samples from Humble Oil & Refining Company, G. C. Carlton, No. 1, Highlands County, Florida. (Humble cut.)

(The following samples very poorly washed, had to practically guess at material.)

In Cedar Keys L.S.

5000 - 10' Anhydrite and hard, light grayish-tan or gray and tan limestone. The tan limestone is highly gypsiferous, and gray shows many small rounded pockets left by removal of fossil material.

5010 - 20' Like the preceding.

5020 - 30' No change.

5030 - 40' Like the above, less anhydrite.

5040 - 60' No change.

5060 - 70' Tan, hard, gypsiferous limestone. Limestone is irregularly porous and shows traces of an original, fairly abundant micro-faunal content.

5070 - 80' Tan and some gray limestone, as above; some anhydrite.

5080 - 90' Moderately hard, tan and some gray limestone as above; about 25% anhydrite.

5090 - 5100' No change.

5100 - 10' Moderately hard, tan, finely porous, gypsiferous limestone; some fragments of a similar gray limestone (limestone probably gray and tan mottled); a few fragments of anhydrite.

5110 - 20' Like the preceding.

5120 - 30' Tan and gray, moderately hard, generally finely porous limestone like the above. Some anhydrite.

5130 - 50' No change.

5150 - 60' Mainly tan, (very finely granular textured), finely porous, gypsiferous limestone; some anhydrite. Porosity in limestone due to removal of original micro-fossils and fragmental fossiliferous content. A few specimens of Miliolids filled with gypsum noted. Limestone apparently with some gray areas.

5160 - 70' Like the preceding.

5170 - 5230' No change.

5230 - 40' Top Upper Lawson	Moderately hard, tan, highly and finely porous (leached fossil material) gypsiferous and dolomitic limestone. Small gray areas in limestone. Some fragments anhydrite.
5240 - 5320'	No change.
5320 - 30'	Like the above, a few fragments of white chalk also present.
5330 - 40' (Top U. Cret. by Jim Martins)	Material as above, coated with chalk and many small fragments of chalk.
5340 - 50'	Chalk and chalk-coated white dolomite. A few specimens of a Rotalid foram. (This species characteristic, but undescribed.)
5350 - 60'	Material as above.
5359 - 61'	Core #49. Anhydrite and chalk; a few molds of Orbitoides brownii ? and some specimens of Miscellanea-like Rotalid?
5360 - 70'	Very poorly washed sample of chalk, white dolomite, and some anhydrite. Some poor specimens of Rotalid? as above.
5380 - 90'	Like the preceding. Mainly white chalk and some chalk-coated, white dolomite. ← Miscellania !
5390 - 5400'	Like the preceding. Some fragments of Inoceramus.
5400 - 10'	Finely granular and finely porous, light tan dolomite.
5410 - 20'	Like the preceding.
5420 - 40'	No change.
5440 - 50'	Dolomite as above; a little anhydrite.
5450 - 60'	Dolomite as above, some chalk, some fragments of calcitised macro-fossils.
5460 - 80'	No change.
5480 - 90'	Soft white chalk, some calcitised fragments of macro-fossils.
5490 - 5500	Like the preceding, soft white chalk and chalk-coated fos. fragments.
5500 - 5520'	Samples too chalky and chalk coated to work satisfactorily.
5520 - 30'	A chalk-coated, finely granular, tan dolomite.
5540 - 50' Lower Lawson	Like the preceding. A few chalky specimens of Lepidorbitoides.
5550 - 60'	Material as above. Chalk-coated, light tan dolomite and soft white chalk. Dolomite slightly gypsiferous. An occasional specimen of Lepidorbitoides.

✓

7300 - 10' White chalk, moderately hard, scattered small dolomite crystals.

7310 - 7400' Moderately hard white chalk. Some Inoceramus prisms.

7400 - 7590' White chalk as above; a few fragments of black, (tar-stained) chalk. (Samples poorly washed.)

7590 - 7600' Chalk as above. Fragments of light brown to black (tar-strkd., stained and somewhat "speckled") chalk much more common. A few fish scale fragments in the stained material. Many fragments of the chalk with a large amount of very finely fragmental calcitic material (probably fragmental fossil material). (See #3 and 15 on slide.)

7600 - 10' Like the preceding.

7610 - 20' As above, also many fragments of the chalk with thickly scattered small dolomite? crystals (see #4 and 16 on slide).

7620 - 30' Chalk and many fragments of stained chalk as above. A few fragments of the dolomitic? chalk as in preceding sample.

7630 - 50' No change.

7650 - 60' Like the above, still more of the black to light brown (tar?) stained and strkd. marly chalk. Dark stained and speck. fragments about 50%. (See #5 and 17 on slide.)

7660 - 80' No change.

7680 - 90' Possible Upper Atkinson? Chalk like the above, but fewer fragments of the stained chalk and a few fragments of a moderately hard, light grayish-tan chalky limestone.

7690 - 7720' Like the preceding.

7720 - 30' Dark stained and strkd. fragments again abundant, at least 50% of sample.

7730 - 7780' Like the preceding.

7780 - 90' M. & L. Atkinson Materials as above with many brown to black stained and strkd. chalk fragments, also numerous fragments of a black sp., some specimens of Gumbelina, Globigerina and small disk-shaped calcitic forms. (See #6 & 7 - 18 & 19 on slide.)

7790 - 7800' Samples mainly hard black sh. and a few fragments of hard brown limestone. Some of the disk-shaped calcitic bodies, a few specimens of Trochammina sp., a few Globigerinas (for limestone see #8 and 20 on slide).

7800 - 30' No change.

7830 - 40' Black sh. as above and some fragments of a light gray, hard, chalky limestone and cavings.

7850 - 60' Like the preceding.

7860 - 70' Sh. and chalky limestone as above. Fine sand also common in this sample and a very few small fragments of blue-green sh. (See #21 on slide). Some Ostracods in the sh.

7870 - 80' Material as above, also many fragments of a grayish-brown, very finely granular, dense domomite. (See #22 on slide.)

Top Lower Cretaceous (7850 by Schlumberger)

7880 - 90' Cavings and many fragments of a hard, brown, porous dolomite, (porosity due to removal of fossil material).

7890 - 7900' Like the preceding.

7900 - 40' No change.

7940 - 50' Dolomite as above, some fragments showing trace of chalky micro-fossiliferous molds.

7950 - 60' Hard, dark grayish-brown, very finely granular dolomite, like the above.

7948 -82 Core #14. Top Rec. 4'. Brownish-gray dolomitic sh.

7978 - 82' Bottom. Dense, very finely granular brownish-gray, shaly dolomite, with small blebs of anhydrite.

7989 - 94' Core #15. Top. Light tan, very finely granular dolomite, irregular veins filled with a brownish-black petrolif? material. Bottom. Light tan, chalky dolomite, irregularly broadly strkd. with darker grayish-brown areas of non-chalky, very finely granular dolomite.

7970 - 80' Dolomite as above, a few fragments of anhydrite.

7980 - 90' Dolomite and many fragments of anhydrite.

7990 - 8000' Brown and white anhydrite, a little dolomite.

8000 - 10' Anhydrite and some fragments of light tan succros dolomite, a few fragments of tan dolomite and anhydritic limestone showing some sections of an Alveolinids? and Miliolid forms. (See #23 on slide.)

Nummoloculina heimi

8010 - 20' Tan dolomite and many fragments of a tan, dolomitic limestone. Many small pockets and pores in this limestone due to removal of micro-fossil material.

8020 - 30' Anhydrite and anhydritic dolomite and dolomitic limestone.

8030 - 40' Anhydrite and very finely granular tan-gray dolomitic anhydrite.

8040 - 50' Mainly grayish-tan, succros dolomite.

FL-HIL9

FLA-HI-OT-1

70-80	80% crmy, vf xtalline, hard, sdy, phosphatic, porous dol	10% c-m, w rd phos	10% m, clean, rnd qtz sd	
80-90	-do-			
90-160	N.S.			
160-70	90% c, clean, wrd qtz sd	5% wh, micro-xtlyls w/ blk specks	tr phos, dol	
170-80	80% sd	15% ls	Tr phos, brn calc cmt dly	
180-90	80% sd now c-f	20% ls		
190-200	60% sd	10% ls	30% pebble c sd size, rd-Ang phos	
200-10	85% sd	5% ls	10% phos, ACrw teeth	
210-20	70% sd	5% ls	25% phos	
220-30	40% sd	15% phos	45% wh, f xtalline, phosphatic, porous dol	
230-40	20% sd	10% phos (c-f now)	70% wh, f xtalline, porous dol	
240-50	45% sd	10% phos	45% dol	
250-60	50% sd	10% vc-f, rd phos	40% s.f.	
260-70	45% sd	10% phos	45% s.f.	
270-80	50% sd	15% phos	35% s.f.	
280-90	50% sd	35% wh, micro, ind ls	10% phos	5% s.f.
290-300	20% sd	65% ls	5% phos	10% s.f.
300-10	25% sd	60% ls	5% phos	10% s.f.
310-20	10% sd	60% wh, micro, ind ls w/ frags of phos & shells	Tr. phos	10% s.f.
320-30	N.S.			
330-40	15% sd	80% wh, micro-crypto, fossil frag ind ls	Tr. phos.	5% s.f.

340-50 | 5% M, clean, rd qtz sd | 95% lt-m brn, f crystalline dol | 90% wh, micro, hrd ls w/ f sd size phos & fossil casts

350-60 | 5% sd | 15% dol | 80% ls

360-70 | — do —

370-80 | 5% sd | 10% dol | 85% ls

380-90 | — do —

390-400 | 10% sd | 15% dol | 75% ls

400-10 | 5% sd | 10% dol | 85% ls

410-20 | 5% sd | 10% dol | 85% ls

420-30 | 5% sd | 10% dol | 85% ls | has remnants of coal

430-40 | 10% sd | 5% dol | 85% ls

440-50 | 5% sd | 5% dol | 90% ls

450-60 | Tr. sd | 10% dol | 90% ls

460-70 | N. S.

470-80 | 5% sd | 10% dol | 85% ls

480-90 | 10% sd | 15% dol | 75% ls

490-500 | 20% lt-m brn, f-micro dol w/ | 80% ls
c-f phos. grains

500-10 | — do —

510-20 | — do — | Tr. uc phos pebbles

520-30 | 20% sd as above | 80% lt-m brn-wh, micro-f grn, hard, porous-tight ls w/ m-f phos.

530-40 | 5% sd | 95% wh, micro-f grn, hard ls w/ m-f phos

540-50 | N. S.

550-60 | 20% sd | 80% ls

560-70 | 20% sd 80% lt-mgry-crmy-wh, micro-fgrn, sdy, phosphoric ls

570-80 | 50% m-f, clean, rd-ang qtz sd 10% brngy, crypto, hard, tight dol 20% s.f.
20% fgrn, tight, phosphoric, calc [illegible]

580-90 | 30% sd 25% s.f. 45% ss

590-600 | 10% sd 5% s.f. 60% ss 15% dol as (570-80) 5% uc-r, rd phos

600-10 | 10% sd 5% s.f. 60% ss 5% dol 5% phos 25% wh-crmy, vf-micro, ind ls, some sdy & phosphoric

610-20 | -do-

620-30 | 40% sd 5% s.f. 20% dol 5% phos 30% ls

630-40 | 25% sd 35% dol 40% ls

640-50 | 20% sd 20% dol 60% ls Tr. phos

650-60 | 90% crmy, micro, ind ls Tr. sdy ls, dol, s.f.

660-70 | 90% crmy ls 5% ltgry, sdy, phosphoric, ind ls Tr. dol, s.f., sd

670-80 | 90% crmy ls 5% ltgry ls 5% s.f.

680-90 | -do- Tr. sd

690-710 | N.S.

710-20 | 50% m-f, clean rd qtz sd 35% crmy, micro, frag, ind ls 15% ltgry, micro, v sdy, phosphoric, ind ls

720-30 | 40% sd 40% crmy ls 40% ltgry ls

730-40 | -do-

↓ OCALA JX.

740-50 | 100% crmy, micro, foss, porous, ind ls Abundant forams

750-60 | -do-

760-70 | -do-

770-80 | -do-

780-90 | -do-

790-800 | -do-

800-10 | -do- | Tr. phos, sd

810-20 | -do- | slightly less porous than above

820-30 | -do- | Tr. phos, vf-gry sdy phosphatic ls

830-40 | 100% crm-y, micro, porous, soft, foss ls | abundant forams & bryozoans

840-50 | -do-

850-80 | N.S.

880-90 | Same (840-50)

890-900 | -do-

900-10 | -do-

910-20 | -do-

920-30 | -do-

930-40 | -do-

940-50 | -do-

950-60 | -do-

960-1412 | N.S. | ↕ A. Park - Claiborne

1412-44 | 100% vltn-y, chy, micro, porous, soft ls w/ blk specks | Tr. foss ls

1444-2455 | N.S. | ↕ Wilcox - Oldsmar

2455-2710 | 60% ls as (830-40) | 40% brn, vf-m xtalline, hard, tight dol

2710-20 | 20% ls as (830-40) | 80% brn-m brn, micro-f xtalline, hard, tight dol

2720-30 | 15% ls | 85% dol

2730-40 | 25% ls | 75% dol

2740-50 | 50% ls | 50% dol

2750-60 | 55% ls | 45% dol

2760-80 | 80% wh-crm-y, micro, frag-foss, soft, porous ls | 20% dol

2740-70	-do-	
2770-80	-do-	
2780-90	95% ls	5% dol
2790-00	90% ls	10% dol
2800-10	85% ls	15% dol
2810-20	50% ls	50% dol
2820-30	60% ls	40% dol
2830-40	50% ls	50% dol
2840-50	-do-	but ls is now somewhat dolte
2850-60	-do-	
2860-70	60% ls	40% dol
2870-80	100% lt-dk brn-brngry, micro, hard, tight, dense dol w/ a few scattered vugs	
2880-90	-do-	w/ a few crystalline, sacc. grains
2890-00	100% lt-dk brn-brngry, micro-crystalline, dense, hard, tight dol w/ scattered vugs & some inclusions of anh. Relict ool ls texture is evident in dol	
2900-10	-do-	
2910-20	-do-	
2920-30	-do-	
2930-40	-do-	but no relict ls texture
2940-50	-do-	
2944-59	60% brngry, micro, hard, tight, dense dol w/ a few widely scattered, small vugs	40% crmy, vf-f xtalline, porous, vuggy dol
2945A	20% lt-dk brn, micro, hard, tight, dense dol	80% crmy, vf-f xtalline, porous dol
2945 B	25% lt-dk brn dol	75% crmy dol
2945 C	10% lt-dk brn dol	90% crmy dol

2945-47 | - do -

2945-49 | 15% brn dol | 85% crmy dol

2950-60 | 20% lt-dk brn-ltgry-brngry, micro, hard, dense dol w/ a few vugs
80% crmy, micro-f xtalline, porous, vuggy dol

2960-70 | 30% dense dol | 70% porous dol

2970-80 | 40% dense dol | 60% porous dol

2980-90 | 80% dense dol | 20% porous dol

2990-00 | 95% dense dol | 5% porous dol | orange stain on many pieces

3000-10 | 100% dense dol (micro-crystalline)

3010-20 | 100% ltgry, micro porous/hard dol w/ scattered vugs

3020-30 | - do -

3030-40 | 90% ltgry, porous dol | 10% wh, f xtalline anh

3040-50 | 60% porous dol (ltgry-crmy) | 10% anh | 30% brn-gry-brngry, micro, hard, dense dol

3050-60 | 85% porous dol | 10% anh | 5% dense dol

3060-70 | 75% porous dol | 20% anh | 5% dense dol

3070-80 | 75% porous dol | 20% anh | 5% dense dol

3070 | 80% porous dol | 20% anh | Tr. dense dol

3080-90 | 90% porous dol | 10% anh

3090-00 | 80% porous dol | 20% anh

3100-10 | 80% porous dol | 15% anh | 5% dense dol

3110-20 | 90% crmy, micro, porous, vuggy dol | 10% anh | Tr dense dol

3120-30 | 75% porous dol | 25% anh | Tr. dense dol

3130-40 | - do -

3140-50 | 45% porous dol | 50% anh | 5% dense dol

3150-60 | 70% wh, f xtalline anh | 30% lt-dk brn, micro, hard, dense dol

3160-70	— do —			
3170-80	70% Anh	5% dense dol	25% cream, micro, porous dol	
3180-90	80% Anh	10% dense dol	10% porous dol	
3190-00	— do —			
3200-10	— do —			
3210-20	— do —			
3220-30	95% Anh		5% porous dol	
3230-40	— do —			
3240-50	90% Anh	5% dense dol	5% porous dol	
3250-60	50% Anh	25% dense dol	25% porous dol	[illegible]
3260-70	35% Anh		65% porous dol	
3270-80	85% Anh		15% porous dol	
3280-90	— do —			
3290-00	50% Anh		50% porous dol, now slightly vuggy & foss. molds visible	
3300-10	40% Anh		60% porous dol	
3310-20	35% Anh		65% porous dol	
3320-30	50% Anh		50% porous dol	
3330-40	40% Anh		60% porous dol	
3340-50	80% Anh		20% porous dol	
3350-60	50% Anh		50% porous dol	
3360-70	70% Anh		30% porous dol	
3370-80	— do —			
3380-90	80% Anh		20% porous dol	
3390-4200	N.S.			
4200-10	10% Anh (wh-lt brn)	5% dense dol as above	85% gray, micro [illegible], vuggy, porous, gypsiferous ls w/ relict ool ls texture	[illegible]

4210-20	-do-		
4220-30	-do-		
4230-40	50% Anh		50% ls
4240-50	50% anh	5% dense dol	45% ls
4250-60	30% anh		70% ls
4260-70	70% anh		30% ls
4270-80	50% Anh		50% ls
4280-90	70% Anh		30% ls
4290-00	60% anh		40% ls
4300-10	90% Anh		10% ls
4310-20	85% anh		15% ls
4320-29	N.S.		
4329 A	70% Anh		30% ls
4329 B	30% Anh		20% porous ls · 50% crmy, [illegible], porous, vuggy, dol
4330-40	20% Anh		80% ls
4340-50	-do-		
4350-60	50% Anh		50% ls
4360-70	-do-		
4370-80	40% Anh		60% ls
4380-90	-do-		
4390-00	50% Anh		50% ls
4400-10	70% Anh		30% ls
4410-20	80% Anh		20% ls
4420-30	100% anh		
4430-40	-do-		

4440-50	-do-
4450-60	-do-
4460-70	-do-
4470-80	-do-
4480-90	-do-
4490-00	-do-
4500-10	-do-
4510-20	-do-
4520-40	M.S.
4540-50	15% Anh 85% cray-lt brn gy micro, porous, Anhydritic [illegible]
4550-60	-do-
4560-70	40% Anh 60% ls
4570-80	-do-
4580-90	100% Anh
4590-00	-do-
4600-10	-do-
4610-20	-do-
4620-30	80% Anh 20% cray, micro hard, Anhydritic ls, porous
4630-40	-do-
4640-50	-do-
4650-60	90% Anh 10% ls
4660-70	-do-
4670-80	-do- ls now cray-brngy
4680-90	95% Anh 5% ls
4690-00	50% Anh 50% ls

4700-10	80% Anh	20% ls
4710-20	95% Anh	5% ls
4720-30	100% Anh	
4730-40	- do -	
4740-50	60% Anh	40% ls has a few widely scattered vugs
4750-60	40% Anh	60% ls
4760-70	30% Anh	70% ls
4770-80	25% Anh	75% ls
4780-90	- do -	
4790-10	N.S.	
4810-20	15% Anh	85% ls
4820-30	20% Anh	80% ls
4830-40	- do -	
4840-50	10% Anh	90% ltgry microgrnd. porous Anhydritic ls w/ a few scattered vugs.
4850-60	- do -	
4860-70	5% Anh	95% ls
4870-80	Tr. Anh	100% ls
4880-90	- do -	
4890-00	- do -	
4900-10	- do -	
4910-20	- do - ls mod ltgry-gray	
4920-30	- do -	
4930-40	- do -	
4940-50	- do -	
4950-60	- do -	

4960-70	10% Anh gypsite
4970-80	-do-
4980-90	-do-
4990-00	-do-
5000-10	-do-
5010-20	5% anh gypsite
5020-30	10% Anh gypsite
5030-40	-do-
5040-50	5% Anh gypsite
5050-60	-do-
5060-70	100% ls mostly cmy vein substrate
5070-80	-do- Tr anh
5080-90	-do-
5090-00	-do- mostly gyp
5100-10	-do-
5110-20	-do-
5120-30	gypsite ls 5% anh, ind ch Tr anh
5130-40	-do-
5140-50	100% cmy, mixed vugsy, porous hard anhydrite ls
5150-60	-do-
5160-70	-do-
5170-80	-do-
5180-90	-do-
5190-00	-do-
5200-10	-do-

5210-20 | -do-

5220-30 | -do-

5230-40 | -do- Tr. lt brn, f xtalline dol

5240-50 | -do-

5250-60 | -do-

5260-70 | -do-

5270-80 | -do-

5280-90 | -do-

5290-300 | -do-

5300-10 | -do-

5310-20 | -do- Tr. cmy-wh, ch

5320-30 | 65% | 5% lt brn, f xtalline dol 30% cmy-wh ind ch

5330-40 | 80% | 20% dol

5340-50 | 10% | 10% dol 80% ch

5350-60 | 10% c xtalline, lt dk brn, cmy sacc dol 90% cmy, micro, vugs, fossil chyls

5360-70 | 10% dol 90% chyls Tr. Anh

5370-80 | 10% dol 90% chyls

5380-90 | -do-

5390-00 | -do-

5400-10 | 20% dol 80% chyls

5410-20 | 80% dol 20% chyls

5420-30 | 60% chyls 95% lt-dk brn, cmy, c-mxtalline, sacc, porous dol w/ scattered vugs, has replaced ch ls

5430-40 | -do-

5440-50 | -do-

5450-60 | 90% chyls 80% dol

5460-70 | - do - chls crmy-wh

5470-80 | - do -

5460-90 | 50% chyls 50% dol

5490-00 | 70% chyls 30% dol

5500-10 | 90% wh-crmy, vuct ch 10% dol

5510-20 | 85% ch 15% dol

5520-30 | 90% ch 10% dol

5530-40 | 40% ch 60% dol

5540-50 | 30% ch 70% dol

5550-60 | 50% ch 50% dol

5560-70 | 70% ch 30% dol

5570-80 | 50% ch 50% dol

5580-90 | 20% ch 80% dol

5590-10 | N.S.

5610-20 | 50% ch 50% dol

5620-30 | - do -

5630-40 | 10% ch 90% dol

5640-50 | 100% f.-m xtalline, lt brn-crmy, porous dol w/ scattered vugs

5650-60 | - do -

5660-70 | 40% dol 40% ch

5670-80 | 60% dol 40% crmy wh microxtl, porous chyls

5680-90 | 90% dol 10% chyls f. s.f.

5690-00 | 50% dol 50% chyls

5700-10 | 60% dol 40% ls

5710-20 | - do -

5720-30 | 50% dol 50% ls

5730-40 | 90% dol 10% ls

5740-50 | 60% dol 40% ls

5750-60 | 40% dol 60% ls

5760-70 | 50% dol 50% ls

5770-80 | -do-

5780-90 | -do-

5790-00 | 40% dol 60% ls

5800-10 | 100% wh, ind ch Tr. dol

5900-10 | -do-

5910-20 | -do-

5920-50 | N. S.

5950-60 | SAME (5800-10)

5959-64 | 50% ch 50% crnxy, enh gyp xtals

5960-70 | 100% ch

5969-79 | 70% ch 30% gyp

5979-89 | -do-

5980-90 | 70% buff, crnxy, ind ch ls 20% vf-m xtalline, brn, hard dol 10% brn, fissile, calc sh

5989-99 | 90% wh, ind ch 10% crnxy, enh gyp xtals

5990-00 | 80% buff, crnxy, ind ch ls 20% vf-m xtalline, brn, hard dol

6000-10 | 50% buff ls 40% dol 10% wh, f xtalline Anh

6010-20 | 90% wh-crnxy, ind ch Tr. dol, Anh

6020-30 | 90% wh-crnxy, ind ch Tr. dol

6030-40 | 95% wh-crnxy, Micro, ind ch ls 5% dol

6040-50 | N. S.

6050-60 | -do-

6060-70 | -do-

6070-80 | 95% chyls 5% brn, fissile, calc cly, red

6080-90 | 100% chyls

6090-00 | -do-

6100-10 | -do- [wh-ul trans? some dolte [illegible]] [6190-00 N.S.]

6200-10 | -do-

6210-20 | -do-

6220-30 | N.S.

6230-40 | Same (6100-10)

6240-50 | -Do-

6250-60 | -do-

6260-70 | -do-

6270-80 | -do-

6280-90 | -do-

6290-00 | -do-

6300-10 | -Do-

6310-20 | Same (6100-10)

6320-40 | N.S.

6340-50 | 80% chls 20% brn, blocky, calc cly

6350-60 | -do-

6360-70 | -do-

6370-80 | 80% brn, blocky, calc cly 20% chyls

6380-90 | 50% cly 50% ls

6390-00 | 100% ls

6400-10 | 10% dly 90% ls

6430-40 | 5% dly 95% ls

6440-50 | N.S.

6450-60 | 100% ls

6500-10 | 100% ls Tr. brn, vf xtalline dol

6550-60 | —do—

6600-10 | —do— Tr. dol & brn dly

6650-60 | —do—

6650-70 | —do—

6670-80 | 100% wh, ind chy ls

6680-00 | N.S.

6700 | 80% wh-brn, ind, micro chy ls 20% brn blocky, calc, ind dly

6700-10 | 80% chy ls 5% dly 15% brn-gry, vf xtalline, hard, tight dol

6710-20 | 80% ls 20% dol

6720-30 | 95% ls 5% dol

6790-00 | 100% ls Tr. dol

6800-10 | —do—

6900-10 | —do—

7000-10 | —do—

7010-40 | N.S.

7040-50 | Same (7000-10)

7050-60 | —do—

7070-00 | —do— [illegible] Tr. hard, blk, blocky, calc sh

7100-10 | 100% wh-v lt gry, micro, ind chy ls w/ dol [illegible] but less chy than above

7150-60 | —do— —

7200-10 | — do —

7250-60 | — do — Tr. gry, m xtalline dol

7300-10 | — do —

7350-60 | 100% chy ls, less chy than above

7360-80 | N. S.

7380-90 | SAME (7350-60) NOT v chy AT All

7390-00 | — do — Tr. blk, blocky, calc sh, hard

7400-10 | — do —

7450-60 | — do — ls not chy

7500-10 | — do —

7510-20 | — do —

7520-30 | — do —

7530-50 | N. S.

7550-60 | 95% ls 5% blk, blky, hard, calc sh w/ well developed Alternating streaks of light & dk material (Fm. Austin)

7600-10 | — do —

7640-50 | 90% ls 10% sh

7650-60 | 60% ls 40% dk gry, brn gry, blocky, hard, calc sh w/ well developed alternating bands of light & dark material

7660-70 | N. S.

7670-80 | 80% ls 20% sh

7680-90 | 100% ls Tr. sh

7690-00 | — do —

7700-10 | 95% ls 5% sh

7710-20 | — do —

7720-30	60% ls	40% sh			
7730-40	40% ls	60% sh			
7740-50	50% ls	50% sh			
7750-60	80% ls	20% sh			
7760-70	50% ls	50% sh			
7770-80	- do -				
7780-90	50% ls	35% sh	15% dk gry-black	fossil, calc, hard sh	
7790-00	50% ls	45% lt gry sh	5% blk sh		
7800-10	35% ls		65% blk sh		
7810-20	20% ls	55% lt gry sh	75% blk sh		
7820-30	5% ls	55% lt gry sh	40% blk sh	50% lt brn gry-gry, micro-xln, hard, tight ds	Tr blk cht
7830-40	30% ls	10% lt gry sh	40% blk sh	30% lt brn gry ls	
7840-50	45% ls	55% lt gry sh	45% blk sh	55% lt brn gry ls	
7850-00	45% ls	55% lt gry sh	45% blk sh	55% lt brn gry ls	
7860-70	55% ls		20% blk sh	25% v lt gry-wh, vf-f xln, chalky, porous dol	wash
7870-80	70% ls		25% blk sh	5% lt brn gry ls	
7880-90	50% ls	35% blk sh	90% brn-gry-brn gry, micro-f xln, chalky, very-tight-porous dol		
7890-00	55% ls	35% blk sh	90% dol		
7900-10	10% ls	10% blk sh	80% dol		
7910-20	- do -				
7920-30	10% ls	20% blk sh	70% dol		
7930-40	5% ls	5% blk sh	90% dol		
7940-50		5% blk sh	95% dol		
7950-60	10% ls	5% blk sh	85% dol		
7960-70	5% ls	10% blk sh	85% dol		

7970-80	5% blk, fissile, hard, platy sh	5% wh-crmy-lt gry, micro, xtal ls	90% lt brn gry-lt gry-lt brn, micro-xtalline, vuggy-tight, porous-dense dol	
7980-90	15% sh	10% wh-brn, v f xtalline Anh	75% dol	
7990-00	15% sh	70% Anh	15% dol	
8000-10	10% sh	45% Anh	45% brn-dk brn gry, micro, porous dol w/ scattered vugs	
8010-20	Tr sh	10% Anh	85% dol now porous-tight	5% ls as (7970-80)
8020-30	Tr sh	15% Anh	80% dol	5% ls
8030-40	Tr sh	20% Anh	80% dol w/ some relict ool ls Texture	Tr ls
8040-50	5% sh	5% Anh	90% crmy, micro-f xtalline, porous-tight, dol w/ scattered vugs	Tr ls
8050-60	-do-			
8060-70	5% sh	50% Dol	45% crmy, micro, ool [illegible]	A few Ostracods picked
8070-80	10% sh	60% dol	30% ls	Tr Anh
8080-90	20% sh	60% dol	5% ls	15% Anh
8090-00	10% sh	65% dol	5% ls	20% Anh
8100-10	15% sh	50% dol	5% ls	30% Anh	Tr apple gn, waxy, soft sh
8110-20	5% sh	85% dol, more vugs than above	5% ls	5% Anh
8120-30	- do -			
8130-40	Tr sh	100% crmy-lt brn gry, micro-f xtalline, tight-porous, vuggy dol		
8140-50	5% sh	85% dol	5% ls	5% Anh
8150-60	Tr sh	95% dol		Tr Anh
8160-70	Tr sh	95% dol	Tr ls	Tr Anh
8170-80		70% dol No vugs	10% ls	20% Anh

8180-90 | 95% bands, micro-porous dol | 5% anh, tr pyrite, anh

8190-00 | 85% dol | 5% anh | Rock as above | Rock as above

8200-10 | 70% dol | 25% anh | 5% sh

8210-20 | 85% dol | 5% anh | sh | slt

8220-30 | 35% dol | 30% anh | 35% sh

8230-40 | 70% dol | 25% anh | 10% sh

8240-50 | 90% dol | 10% anh | 5% sh | 5% slt

8250-60 | 80% dol | 10% anh | 5% sh | 5% slt

8260-70 | 95% dol | 5% slt

8270-80 | 80% dol | 10% anh | 10% sh | Tr slt

8280-90 | 55% dol | 40% anh | 5% sh

8290-00 | 50% dol | 40% anh | 10% sh

└ w/ some vugs

8300-10 | 95% dol | 5% slt

8310-20 | 75% dol | 20% anh | 5% sh

8320-30 | 85% dol | 5% anh | 5% sh | slt

8330-40 | 95% dol w/ no vugs | Tr anh, sh, slt

8340-50 | 45% dol | 20% anh | 15% sh

8350-60 | 25% dol | 70% anh | 5% sh

8360-70 | 95% dol | 5% anh | Tr sh

8370-80 | 55% dol | 40% anh | 5% sh

8380-90 | 80% dol | 15% anh | 5% sh

8390-00 | 50% dol | 50% anh | Tr sh

8400-10 | 100% dol | Tr sh

8410-20 | 90% dol | 10% anh | Tr sh

└ Lighter than Above

8420-30	-do-			
8430-40	-do-			
8440-50	100% dol	Tr. sh, anh	Lg micro-m xtalline	
8450-60	75% dol	10% anh	15% sh	
8460-70	75% dol	10% anh	15% sh	
8470-80	85% dol	10% anh	5% sh	
8480-90	50% dol	40% anh	Tr. sh	
8490-00	60% dol	10% anh	5% sh	25% anh - crmy, micro, ind chy ls
8500-10	70% dol	5% anh	25% ls	
8510-20	50% dol		50% ls	
8520-30	75% dol	15% anh	5% sh	5% ls
8530-40	100% dol	Tr. anh, ls		
8540-50	35% dol	5% sh	60% ls	
8550-60	100% dol			
8560-70	100% dol	Tr. sh, anh		
8570-80	45% dol	45% anh	10% sh	
8580-90	10% dol	80% anh	10% sh	
8590-00	-do-			
8600-10	40% dol	60% anh	Tr. sh	
8610-20	80% dol	20% anh	Tr. sh	
8620-30	85% dol	10% anh	5% ls	
8630-40	60% dol	5% anh	10% ls	
8640-50	40% dol	Tr. sh, anh	10% ls	
8650-60	80% dol	Tr. sh, anh	20% ls	
8660-70	75% dol	5% sh	20% ls	

8670-80	10% sh	5% ls	5% anh	80% dol
8680-90	5% sh		5% anh	90% dol
8690-00	5% sh	5% ls	10% anh	80% dol
8700-10		5% ls	10% anh	85% dol
8710-20		60% ls		40% dol
8720-30	— do —			
8730-40	N.S.			
8740-50	30% sh	25% ls	50% anh	5% dol
8750-60	20% sh	10% ls	70% anh	
8760-70	10% sh	75% ls	5% anh	10% dol
8770-80	Tr. sh	10% ls		90% dol
8780-90	Tr. sh	5% ls		95% dol
8790-00		40% ls		60% dol
8800-10		10% ls		90% dol
8810-20	N.S.			
8820-30			10% anh	60% dol
8830-40	5% sh		55% anh	40% dol
8840-50		5% ls	40% anh	55% dol
8850-8920	N.S.			
8920-30	100% gry - brn - brngsh gry, micro, cryptohard, tight, ls w/ scattered vugs			Fredk.
8930-9020	N.S.			
9020-30	100% gry-brngsh gry, micro, cryptohard, dense biolastic ls			
9030-40	100% gry-crmy, micro, cryptohard, dense biolastic ls Abundant oolites			
9040-50	— do —			
9050-60	— do —			

9060-70 | 100% Mgry, crypto dense, tight ls w/ scattered bioclasts

9070-80 | -do-

9080-90 | 100% ls [illegible] -gry, micro-fxl'line, porous dol

9090-00 | 95% Mgry, crypto dense tight bioclastic ls - cmy, micro-xl ls [illegible] dol

9100-10 | 85% ls | 15% dol | Tr anh

9110-20 | 80% ls | 20% dol | Tr anh

9120-30 | 70% ls | 25% dol | 5% anh

9130-40 | 90% ls (bio) | 10% cmy, microporous, vsl dol | bio = bioclastic * calcite ls

9140-50 | 30% bioclastic ls | 70% anh

9150-60 | 20% bio ls | 60% anh

9160-70 | 40% bio ls | 60% anh

9170-80 | -do-

9180-90 | 40% bio ls | 60% anh

9190-00 | 95% bio ls | 5% anh

9200-10 | -do-

9210-20 | 40% bio ls | 60% anh

9220-30 | N.S.

9230-40 | 30% bio ls | 70% anh

9240-50 | 25% bio ls | 75% anh

9250-60 | 30% bio ls | 60% dol as (9080-90) | 10% anh

9260-70 | 85% bio ls | 15% dol

9270-80 | 5% bio ls | 20% dol | 75% anh

9280-90 | 95% dol | 5% anh

found 1 piece of blk, calc, v fissile sh. It had v good fissility & the cuttings broke out easily. In slide

9290-00 | 90% dol 10% anh

9300-10 | -do-

9306-08 | 100% brn, f xtalline, porous, vugs, hard dol

9308-12 | -do-

9310-20 | 10% bio ls 80% dol as(porous) 10% anh

9320-30 | 30% bio ls 70% dol

9330-40 | -do-

9336-41 | 100% crmy, micro porous dol ls, calcified

9340-50 | 20% bio ls 75% dol 5% anh

9341-43 | 100% lt brn gry, f xtalline, porous dol as a complete replacement of an oolitic bio ls

9350-60 | 10% bio ls 90% dol

9360-70 | 80% dol 20% crmy-gry, micro xtal chy ls

9370-80 | 30% bio ls 20% dol 50% chy ls

9380-90 | 50% bio ls 5% dol 40% chy ls 5% blk, fissile, hard, calc sh

9390-00 | 75% bio ls 20% dol 5% anh

9399-00 | 100% brn, f xtalline, porous, vuggy, anhydritic dol

9400-10 | 65% bio ls 30% chy ls 5% dol

9400-02 | Samis (9397-00)

9402-05 | 100% brn gry, f-m xtalline, porous dol w/ some vugs

9405-06 | -do-

9406-07 | 90% blush gry, crypto, hard, dense ls Tr. dol as (9402-05)

9407-09 | N.S.

9410-20 | 60% gry-brn, micro-crypto, dense ls 40% chy ls as (9360-70)

9420-30 | 50% gry crypto, hard, dense ls 50% chy ls

9430-40 | 40% gry ls 60% chy ls

9440-50	90% gry-lt gy brn crypto, hard, dense ls w/ scattered bio 10% lt gy-cmy, micro, porous
9450-60	40% crypto ls 60% micro ls chy [illegible]
9460-70	-do-
9470-80	20% crypto ls 80% micro ls
9480-90	15% crypto ls 85% micro ls
9490-00	15% crypto ls 75% micro ls 10% lt brn, f xln, slightly sugary dol, porous
9500-10	10% crypto ls 45% micro ls 45% dol
9510-20	50% micro ls 50% dol
9520-30	-do-
9530-40	40% micro ls 60% dol
9540-50	50% micro ls 50% dol
9550-60	-do-
9560-70	45% micro ls 50% dol 5% lt [illegible], [illegible] sh
9570-80	30% micro ls 70% dol
9580-90	60% micro ls 40% dol
9590-00	70% micro ls 30% dol
9600-10	-do- ls has some foss.
9610-20	60% micro ls 40% dol
9620-30	80% cmy-gry, micro, porous, scattered bio ls 20% dol
9630-40	95% bio ls 5% dol
9640-50	80% bio ls 20% dol
9650-60	-do-
9660-70	-do-
9670-80	N.S.
9680-90	50% bio ls 50% dol

9690-00	30% bio ls	70% dol	Tr. anh	
9700-10	20% bio ls	70% dol	10% wh-gry, uf- micro anh	
9710-20	-do-			
9720-30	-do-			
9730-40	10% bio ls	40% dol	20% anh	10% blk-gry fissile, hard, calc sh
9740-50	40% bio ls	60% dol		
9750-60	50% bio ls	25% dol	25% anh	
9760-70	60% bio ls		40% anh	
9770-80	10% bio ls	90% dol	90% anh	
9780-90	14. S.			
9790-00		15% dol	85% brn crypto dense- crm micro porous, ls w/ scattered bio	
9800-10	10% Anh	40% dol	50% ls	
9810-20		15% dol	85% ls	
9820-30		40% dol	60% ls	
9830-40	Tr. Anh	25% dol	75% ls	
9840-50	Tr. Anh	15% dol	85% ls	Tr. gn-gry, calc, blocky sh
9850-60	10% anh		90% ls	
9860-70	10% anh	10% dol	80% ls	
9870-80	10% anh	75% dol	15% ls	
9880-90	15% anh	70% dol	15% ls	
9890-00	40% lt-gry-brn-gry, fossiliferous, hard dol		40% wh-ltgry, micrgrnd. ls	Interm.
	20% gry-dkgry, fissile calc sh			
9900-10	40% dol	10% sh	15% anh ls	25% brn-gry, micro-crypto, hard, tight bio ls
9910-20	40% dol		60% bio ls but bio are widely scattered	
9920-30	50% dol		50% bio ls	

9925-38	100% brngry, mssv, porous dol		
9938-30	-do-	v slightly finer grained than above	
9930-40	50% dol as(9910-20)	50% bio ls as(9910-20)	
9940-50	70% dol	30% bio ls	
9950-60	70% dol	30% bio ls	v wh, crystalline anh
9960-70	50% dol	50% bio ls w/ more bio than above	
9970-80	50% dol	45% bio ls	5% wh, porous, micro, sol ls
9980-90	-do-		
9990-00	45% dol	45% bio ls	Tr. sol ls
10,000-10		100% bio ls	
10,010-20	5% dol	95% bio ls	
10,020-30	60% dol	40% bio ls	
10,030-40	-do-	fewer bio than above	
10,040-50	70% dol	30% bio ls	
10,050-60	50% dol	50% wh-crmy-vltgry, micro, ind ls	Tr. bio ls
10,060-70	50% dol	40% bio ls	10% wh, vf crystalline anh
10,070-80	55% dol	20% micro ls	16% bio ls 15% anh
10,080-90	50% dol	30% micro ls	20% bio ls 10% anh
10,090-00	80% mgry, crypto, dense, hard ls	10% micro ls	10% dol
10,100-10	-do-		
10,110-20	50% gry ls	45% micro ls	5% dol
10,120-30	50% gry ls w/ some bio	40% micro ls	10% dol
10,130-40	85% brngry-ltgry, crypto-micro, hard ls w/ bio	5% dkgry, fissile, calc sh	10% dol
10,140-50	N.S.		

10,150-60	100% ls w/ bio			
10,160-70	5% dol	40% ls w/ bio	55% crmy, micro, porous ls	
10,170-80		60% ls w/ bio	40% micro ls	
10,180-90		20% ls w/ bio	80% micro ls	
10,190-00		80% ls w/ bio	20% micro ls	
10,200-10		— do —		
10,210-20		50% ls w/ bio	50% micro ls	
10,220-30		95% ls w/ bio	5% micro ls	
10,230-40		— do —		
10,240-50	10% dol	85% ls w/ bio	5% micro ls	Bowmanland
10,250-60		100% ls w/ bio	Fn. Anh	
10,260-70		95% ls w/ bio	15% wh, vf xtalline anh	
10,270-80		85% ls w/ bio	15% micro ls	10% anh
10,280-90		45% ls w/ less bio than above	50% micro ls	5% anh
10,290-00		95% ls w/ more bio (also crmy) than above		5% anh
10,300-10		100% ls w/ bio		
10,310-20		— do —		
10,320-30		— do —		
10,330-40		80% ls w/ bio	20% bny, vf xtalline, porous dol	
10,340-50		10% ls w/ bio	70% dol	20% wh-crmy, ind ch
10,350-60		— do —		
10,360-70	50% gny-bny, crypto, dense bio ls		30% dol	20% ch
10,370-80	80% bio ls		10% dol	10% ch
10,380-90	45% bio ls		5% dol	20% wh, f-micro Anh

E. Gordon

10,390-00	70% bio's w/ [illegible] above		10% dol	20% anh
10,400-10	65% bio's		5% dol	30% anh
10,410-20	55% bio's		5% dol	40% anh
10,420-30	45% bio's		5% dol	50% anh
10,430-40	35% bio's	5% blk, blocky, hard sh	10% dol	50% anh
10,440-50	20% bio's	5% blk-gry, blocky, fissile sh	35% dol	40% anh
10,450-60	10% bio's		10% dol	80% anh
10,460-70	10% bio's		20% dol	70% anh
10,470-80	85% bio's w/ abundant bio		5% dol	10% anh
10,480-90	90% bio's			10% anh
10,490-00	- do -			
10,500-10	70% bio's			30% anh
10,510-20	55% bio's, some pieces dolite		15% dol	30% anh
10,520-30	55% bio's		20% dol	25% anh
10,530-40	50% bio's		30% dol	20% anh
10,540-50	40% bio's	Dk gry, fissile sh	10% dol	50% anh
10,550-60	25% bio's	Dk gry, fissile, calc sh	25% dol	30% anh
	10% crnyl ind chyl's			
10,560-70	50% bio's w/ many pieces dolite and/or anhydrite			50% anh
10,570-80	60% bio's	10% crnyl ind chyl's		30% anh
10,580-90	60% bio's			40% anh
10,590-00	50% bio's	10% chyl's		40% anh
10,600-10	60% bio's			40% anh
10,610-20	- do -			
10,620-30	- do -			

10,630-40 | 50% bio ls 50% Anh

10,640-50 | N.S.

10,650-60 | 50% bio ls 45% Anh 5% dk-lt gry, fissile sh

10,660-70 | 15% bio ls 10% Anh 75% brn-gry-crmy, f-vf xralline, porous-tight dol (Laminated) Tr. sh

10,670-80 | 20% bio ls 5% Anh 75% dol, vf-m xralline, porous

10,680-90 | 85% brn-brn gry f-m xralline, porous dol 15% dk gry, fissile sh Tr. bio ls, Anh, crmy chy ls

10,690-00 | 80% dol 10% sh 10% crmy, ind, chy ls

10,700-10 | 85% dol 10% sh 5% chy ls

10,710-20 | 80% dol 10% sh 10% chy ls

10,720-30 | -do- Tr. bio ls

10,730-40 | 20% dol 30% chy ls 50% gry-brn, crypto, dense bio ls

10,740-50 | 50% dol 30% chy ls 20% bio ls

10,750-60 | 40% dol 20% chy ls 40% bio ls

10,760-70 | N.S.

10,770-80 | 5% dol 75% chy ls 20% bio ls

10,780-90 | 15% dol 25% chy ls 50% bio ls much is dol'z & Anhydrous 10% dk-lt gry, fissile sh

10,790-00 | 20% chy ls 75% bio ls 5% sh

10,800-10 | 10% chy ls 90% dolic bio ls

10,810-20 | N.S.

10,820-30 | 10% chy ls 45% dolic bio ls 45% buff, c xralline, dense, tight dol

10,830-40 | N.S.

10,840-50 | 10% chy ls 15% dolic bio ls 65% dol 10% dk gry-grn gry, fissile sh

10,849-54 | 100% brn, gypsiferous, c xralline, hard, dense dol

10,850-60 | 5% chy ls 5% dolic bio ls 85% buff-brn dol 5% sh

AS(10,820-30)

10,859-64 | SAME AS(10,849-54)

10,860-70 | 5% chy ls   5% dolic bio ls   90% buff-brn dol

10,864-65 | 100% dk brn, c xralline, hard, tight, dense dol only slightly finer grained than (10,849-54)

10,864-69 | 100% lt brn, vf xralline, hard, tight, dense dol

10,869-74 | 100% dk brn, vf-f xralline, hard, dense, gypsiferous dol. Gyp is c xralline, euh

10,870-80 | 15% chy ls   50% dolic bio ls   5% sh   30% buff-brn dol   All AS(10,860-70)

10,874-79 | 100% dk brn, m xralline, hard, dense dol

10,874-89 | 100% dk brn gry, m xralline, hard, dense dol

10,880-90 | 5% sh AS(10,870-80)   95% buff brn dol AS(10,870-80)

10,884-89 | 100% M gry, crypto, hard, dense ls w/ small veinlets & pods of pyr

10,889-94 | -do- but now brn gry

10,890-00 | 10% chy ls AS(10,870-80)   5% dolic bio ls AS(10,870-80)   85% dol AS(10,870-80)

10,894-99 | 100% dk brn gry, crypto, dense bio ls w/ pyr in blebs, veinlets & partial replacement of bioclasts.

10,899-04 | 100% dk brn gry, micro, dense dolic bio ls

10,900-10 | 60% chy ls AS(10,870-80)   20% dol AS(10,870-80)   20% dolic bio ls AS(10,870-80)

10,904-06 | 100% M gry, crypto, hard, dense ls w/ scattered bio & pyr

10,910-20 | 95% dol AS(10,870-80)   5% dolic bio ls AS(10,870-80)

10,920-30 | 10% chy ls AS(10,870-80)   85% buff-gry, c-f xralline, hard, dense dol   5% buff-gry, crypto, dense ls

10,930-40 | 5% chy ls   85% dol   10% ls

10,940-50 | 80% dol   10% dk gry, fissile, calc sh   10% ls

10,950-60 | 70% dol   30% gry-brn, crypto, dense bio ls

10,960-70 | -do-

10,970-80 | 50% dol   50% bio ls

10,970-83 | 60% dol   40% bio ls

10,983-90	N. S
10,990-00	5% dol 5% bio ls 90% dk gry, fissile, hard, calc sh
11,000-10	— do —
11,010-20	— do —
11,020-30	— do —
11,030-40	100% sh
11,040-50	— do —
11,050-60	5% dol 5% bio ls 90% sh
11,060-70	10% bio ls 90% sh
11,070-80	25% gry-brn, crypto, tight, dense, bio-ool ls somewhat doltz w/ blebs of pyr 75% sh
11,080-90	15% ls 85% sh
11,090-00	5% ls 95% sh
11,100-10	30% ls 70% sh
11,110-20	20% ls 80% sh
11,120-30	40% ls 60% sh
11,130-40	— do — Tr. dol
11,140-50	30% ls 70% sh Tr. dol, anh
11,150-60	30% ls now anhydritic 70% sh Tr. dol
11,160-70	40% ls 60% sh Tr. dol
11,170-80	— do —
11,180-90	50% ls 50% sh
11,190-00	40% ls, anhydritic & or dolic 60% sh — not calc → essentially completely doltz bio ls
11,200-10	— do —
11,203-05	100% lt brn, anhydritic, porous, micro, bio ls
11,205-07	100% dk brn, anhydritic, dolic, vuggy, porous, micro-vf grained bio ls

11,207-10	-do-	bur dk brn-dk gry	
11,210-20	25% ls as (11,190-00)	75% sh as (11,190-00)	
11,220-30	-do-		
11,221-30	-do-		Tr pyr
11,230-40	40% ls	60% sh	
11,240-50	-do-		
11,250-60	15% ls	65% sh	20% crmy, micro, ind, v chy ls
11,260-70	-do-		
11,270-80	30% bio ls	65% sh	5% chy ls
11,280-90	40% ls	55% sh	5% chy ls
11,290-00	45% ls	50% sh	5% chy ls
11,300-10	60% ls	40% sh	
11,310-20	-do-		
11,320-30	40% ls	40% sh	20% wh crm, micro, sel anh
11,330-40	80% ls	20% sh	
11,340-50	70% ls	30% sh	
11,350-60	-do-		
11,360-70	80% ls	20% sh	
11,370-80	95% ls	5% sh	
11,380-90	-do-		
11,390-00	-do-		
11,400-10	20% ls	40% sh	40% crmy-brn, vf-f xlline, porous dol
11,410-20	-do-		
11,420-30	40% ls	40% sh	20% dol
11,430-40	30% ls	30% sh	30% dol, 10% wh, vf xlline Anh

11,440-50	20% ls	20% sh	20% dol	30% anh	Tr. pyr.
11,450-60	15% ls	5% sh	30% dol	50% anh	Tr. pyr, lim.
11,460-70	40% ls	20% sh	15% dol	25% anh	
11,470-80	50% ls	20% sh	10% dol	20% anh	
11,475-80	90% calc bnyf-m xtalline, porous, slightly wxy dol			10% ls	
11,480-90	65% ls	5% sh	30% dol as (11,470-80)	Tr. anh	
11,490-00	70% ls	10% sh	20% dol		
11,501-10	70% ls	5% sh	25% dol		
11,511-20	40% ls	20% sh	40% dol		
11,521-30	35% ls	15% sh	40% dol	10% wh, vf xalline anh	
11,530-40	25% ls	25% sh	40% dol	10% anh	
11,538-40	20% ls	20% sh	50% dol	10% anh	
11,538-50	15% ls	15% sh	45% dol	5% anh	
11,550-60	75% ls	10% sh	10% dol	5% anh	
11,551-52		- do -			
11,560-70	65% ls	15% sh			
11,570-80	80% ls	20% wh-crmy, ind ch			
11,580-90	70% ls	30% ch			
11,590-00	60% ls	10% sh	40% ch		
11,600-10	95% ls	5% sh			
11,610-20	90% ls	10% sh			
11,620-30	35% ls	10% sh	55% ch as above		
11,621-30	90% ls	10% sh			
11,630-40	40% ls	5% sh	55% ch as above		
11,640-50	45% ls	20% sh	35% ch		

12,690-00	SAME AS (12,670-80)
12,700-10	-do- Altered more than above
12,710-20	-do- SMALL AMT of ASH
12,720-30	brn-gn basaltic rock Altered as above 5% ASH
12,730-40	-do-
12,740-50	-do-
12,750-60	-do- Also calcite alteration Tr. ASH
12,760-70	reddish brn-gn-grey basaltic rock w/ calcite, chlorite & serpentinite Alteration
12,770-80	-do-
12,780-90	N.S.
12,790-00	SAME (12,760-70)
12,800-10	-do-
12,810-20	-do-
12,820-30	-do- Tr. malachite
12,830-40	-do-
12,840-50	-do-
12,850-60	-do- but now mostly rusty reddish brn w/ little Alteration
12,860-70	-do-
12,870-80	N.S.
12,880-90	-do- but equal AMTS of grey & red rock w/ scattered Amygdals
12,890-00	-do-
13,000-10	-do-
13,010-20	-do-
13,020-30	-do-
13,030-40	-do-

Highlands Co. WELL (ERA)

7810-20 Ostracoda and Blue-gray silt.

8000-10 Nummoloculina heimi

9030-34 IM Core - Coskinolinoides texanus.

9104-14 Core - Litiola subcoalingensis

Frag. var. Nummoloculina

9994-9902 Core Orbitolina sp.

10400-10 O. Texana and cones.

10904-06 Core (Operculina) (Core lost pieces)

10990-11,000 - Cores - "

11110-20 Chrysalidina sp.

11120-30 "

12618-21 - Austin Valo. Ry.