

## FLA-LAK-01-7

- 0-40 | wh, fqny, A, WS & t<sub>2</sub> sd      Tr. small, musc. flakes
- 40-45 | do
- 45-50 | do
- 50-55 | do
- 55-60 | do + Tr. Mgry, soft cly
- 60-65 | do    now cly, than above
- 65-70 | Lt qry, Mgry, SR, fairly WS, & t<sub>2</sub> sd w/ abund. Mgry, micro, soft, porous ls    Tr. f-m  
blk, phos nodules & forams
- 70-75 | Crmy, micro, soft, porous, highly foss ls w/ some sd as above
- 75-80 | do
- 80-85 | do      Tr. blk, f, phos nodules
- 85-90 | do
- 90-95 | Lt qry, micro, hard, porous ls w/ f. forams (microcoquina) w/ 60% wh, UC qry, R, WS & t<sub>2</sub> sd
- 95-100 | do but 30% sd
- 100-05 | Lt qry, micro, hard, porous, frag - highly foss ls w/ 35% UC, Lt qry, wh, SR, fairly WS & t<sub>2</sub> sd
- 105-110 | 30% ls    70% sd
- 110-115 | 80% ls    20% sd      ls. contains abund ools
- 115-120 | 50% ls    50% sd      All AS (110-115)
- 120-25 | N.S.
- 125-30 | do
- 130-35 | 40% ls    40% sd
- 135-140 | 25% ls    15% sd      Tr. l. wh c f

- 160-70 do  
Cmry w/ some oolite
- 170-80 buff-cmry, microhard, porous, foss ls w/ 20% clean ltay, Ccmry, R, faintly w/ & t & sd
- 180-90 ltay-cmry, microhard, porous, foss-frog-cool ls w/ SCATT, sparry calcite replacement  
+ 5% ltay, Ccmry, R, w/ & t & sd
- 190-00 ls + 30% sd
- 210? do
- 210-20 do but 15% sd
- 220-30 do ls slightly lighter in color than above just 10% sd
- 230-40 ltay, micro, soft, porous, foss ls w/ 40% clean Mcmry, SA, w/ & t & sd
- 240-90 N.S.
- 290-00 tan, vt-microhard, porous dol w/ SCATT, y-small vlys + 45% C-UC, w/ SR, w/ & t & sd
- 300-10 lt tan-cmry, micro, soft, porous, chy, foss ls dol (partially to dol in 290-00)
- 310-20 do
- 320-30 do but only minor dol
- 330-40 do
- 340-50 do
- 350-60 Cmry, micro, porous, soft, chy, foss ls w/ partial dol to a tan, vt, porous hard dol
- 360-70 tan, f-of v, hard, porous, slightly chy dol
- 360-70 do
- 370-80 do + 40% Cmry, micro, soft, porous, chy, foss ls
- 370-80 do
- 380-90 ls acc (270-80) w/ some dol to dol of (260-70)

- 420-30 | do
- 430-40 | do
- 440-45 | 25% sd as above + 1% tan, v-f-micro, hard, porous dol
- 445-70 | N.S.
- 470-80 | Cray - 1% tan, v-f-micro, hard, porous dol w/ abundant vugs left as foss casts
- 480-90 | wh, C-Mg, R, fairly ws, 2% sd w/ 20% 1% tan-1% micro, ind, porous, cly ls  
To dull yel, soft cly
- 490-00 | tan, f-micro, hard, porous dol w scatt, small-lr. vugs
- 490-00 | do tan-Mbrn
- 500-10 | tan, v-f-micro, hard, porous, hardy vuggy dol + Mbrn, micro, hard, ty, dense dol
- 510-20 | do only 20% Mbrn dol
- 520-30 | do only 10% Mbrn dol
- 530-40 | 1% tan, v-f-micro, hard, porous, vuggy dol + 30% Mbrn - tan, micro, hard, ty, dense dol
- 540-50 | do but 40% 1% tan dol, 40% Mbrn-tan dol
- 550-60 | do but 80% " 20% "
- 560-70 | do
- 570-80 | do
- 580-90 | 85% Cray - 1% tan, f-micro, hard, porous <sup>very</sup> vuggy dol + 15% Mbrn - tan, micro, hard, ty, dense dol
- 590-95 | N.S.
- 595-00 | All Cray - 1% tan dol as above
- 600-10 | Cray, f-micro, hard, porous <sup>very</sup> vuggy dol. Relict foss ls structure
- 610-20 | do

440-50 | do Tr. Mgny, Cleary, SA, WS & t<sub>2</sub> sd  
450-60 | N.S.  
460-70 | tan -buff, M-Microhard, porous, <sup>very</sup> slightly arg dol. w/ clear fossils structure  
470-80 | do but all tan & not Arg  
480-90 | do  
490-00 | do  
500-10 | do  
510-20 | N.S.  
520-30 | do  
530-40 | N.S.  
540-50 | do  
550-60 | N.S.  
560-70 | do Tr. clusters of f, clear, sub gtz xtrals  
570-80 | do  
580-90 | N.S.  
590-00 | do  
600-10 | dol + Tr. Cgny, Itgny, R<sub>1</sub> fairly ws & t<sub>2</sub> sd  
610-20 | dol no gtz sd  
620-30 | do  
630-40 | dol Tr. Itgny, Mgny, R<sub>1</sub> WS & t<sub>2</sub> sd  
640-50 | do  
650-60 | do  
660-70 | do no gtz sd

- 890-900 do
- 900-100 do
- 910-200 do
- 920-300 do
- 930-400 do
- 940-500 do
- 950-600 do a few org pieces
- 960-700 N.S.
- 970-800 lt tan, microhard, porous, v vuggy dol w relict foss ls structure. Tr, enh, lt brn, C, gtz xrals
- 980-900 N.S.
- 990-1000 lt tan, microhard, porous, vuggy - dense dol w some relict foss ls texture. Tr, Mbn chrt + lg-small, sub, clear, gtz xrals, + lt brn, C, enh, gtz xrals
- 1000-1010 do
- 1010-200 lt tan, microhard, porous, v vuggy dol w relict foss ls structure. Tr, brn chrt + sub, clear, lg-small gtz xrals
- 1020-300 do + yel brn, C, enh, gtz xrals
- 1030-400 do
- 1040-500 dol + Tr, clear, Mg, SR, WS gtz sd w a few sub pieces + Tr, selenite + Tr, chrt
- 1050-600 dol + Tr, dk brn chrt, gtz ASC (1040-50). Some replacement by yel brn, enh, C, dol xrals
- 1060-750 dol + Tr, chrt + 10% gtz sd as above
- 1070-800 dol + Tr, chrt + Tr, gtz sd as above + Tr, Ad as above

Gyp 15-14 pockets + 15 wh, soft mura

1100-10 | t tan, microhard, porous, vuggy, gyp<sup>↑</sup> dol w some relict foss ls texture.

Tr. loose, wh, micro soft gyp + lt qtz, Mg qtz, R, WS qtz sd w some sub pieces.

1110-20 | do + Tr. loose silicate

1120-30 | do + Tr. dk brn chrt

1130-40 | t tan, metallic, hard, porous, saccc dol

1140-50 | dol + Tr. qtz, chrt, gyp + silicate All as above (1120-30)

1150-60 | t tan, micro, hard, porous, vuggy, gyp<sup>↑</sup> dol w some relict foss ls texture

Tr. loose wh, soft, pure gyp + clear silicate. Gyp is in pockets in dol

1160-70 | N.S.

1170-80 | do + Tr. lt qtz, Mg qtz, R, WS qtz sd

1180-90 | do some pieces of qtz are sub relicts

1190-00 | do

1200-10 | t tan, micro, hard, porous, vuggy dol w some relict foss ls texture. Tr. Mg qtz, clear, R,

WS, qtz sd w some pieces being sub relicts. Tr. wh-brn chrt chips Tr. silicate,

+ wh, micro, soft gyp

1210-20 | do + 15% off wh, micro, hard, porous, slightly, dolc ls

1220-30 | do many pieces are slightly carb

1230-40 | tan, micro, hard, porous, vuggy dol w some relict foss ls texture Tr. wh, micro, soft gyp

+ clear, Mg qtz, R, WS qtz sd w a few euh-sub clusters of relicts + Tr. brn chrt

A few pieces of dol are carb

1240-50 | do but dolc dolc ls

1250-60 | do

1260-70 | do

1290-00 | It-Mtx, f-Cxraly, hard, fairly porous dol Tr, qtz +cht as above

1300-05 | do + 10% dkbn-Mqny, Cxraly, sacc, porous hard, qtz dol

1305-15 | do but dkbn sacc dol is 50%

1315-30 | Crny, micro, hard, porous dol w/ abund clear, Mqny, SR, WS qtz sd, Some relat foss ls reviv

1330-35 | do

1335-40 | do

1340-50 | N.S.

1350-60 | Tan, Mtxraly, hard, fairly tight, sometimes sacc dol

1360-70 | do but It-Tax-crny + Tr, sd as (1315-30)

1370-80 | dol as (1360-70) + 40% sd as (1315-30)

1380-90 | do

1390-10 | Tan-crny, Mtxraly, hard, fairly tight, sometimes sacc dol w/ some clear Mqny, SA, qtz sd

1410-20 | do + 30% crny, micro, hard, porous ls

1420-30 | do about 30% of each

1430-40 | do

1440-50 | Crny, micro, hard, porous, slightly foss ls + 20% clear, f gny, SA, WS qtz sd

1450-60 | Crny, micro, hard, porous, dol w/ 20% sd as (1440-50)

1460-70 | do

1470-80 | do

1480-90 | do but dolc ls

1490-00 | N.S.

1500-00 | Mtx. of offwh-crny, micro, hard, porous, vuggy dol + brn-tan, micro, hard, fairly tight  
dense dol + Tr, Mn. clear, SR, v. dark, sorted qtz sd

1610-20 | do + a few clusters of clay, small, etc. & x-rays

1620-30 | do

1630-40 | N.S.

1640-50 | do

1650-60 | do

1660-70 | do

1670-80 | do

1680-90 | do

1690-00 | do

1700-10 | do

1710-20 | do

1720-35 | do

1730-50 | do

1750-70 | do

1770-80 | do

1780-00 | do

1800-20 | do

1820-40 | do

1840-50 | do



LOCATION : 535' from S line, 895' from E line,  
 SE/4 of SE/4 Sec. 17, T24S, R25E.  
 12 miles south of Groveland.

COUNTY : Lake

ELEVATION : 113.66 (Oil Scouts)

CONTRACTOR : Sam E. Wilson, Jr., El Dorado, A

STARTED : Feb. 26, 1935

COMPLETED : (Inactive since May 13, 1937)

DEPTH : 6129'

CASING : 130' of 16"; 510' of 12"; 2200' of 4  
 lb. 9-5/8".

USE : Oil test

QUALITY :

REMARKS : Driller's log from 0-1947', Schl. 1  
 from 2200 to 6113'. Schl. from  
 Riley. (No. 1 abandoned at about  
 500' caving trouble) 548 samples  
 from 0-5600'. Interval sheet was  
 made from envelopes, Oct. 30, 19  
 217 samples brought in by S. A.  
 Stubbs and J. C. Simpson, given  
 them by Wm. G. Blanchard, May  
 16, 1941, beginning at 2258' and  
 continuing to 3833'. See AAPG  
 Bulletin, Vol. 28, #12, Dec. 1944.  
 Plate 5, Figures 7A, B. See  
 Journal of Paleontology, Vol. 19,  
 No. 2, March 1945, p. 147.

0-40 White, fine, rounded, quartz sand, probably Hawthorn

50 Same

60 Gray, white, fine, soft, lime, fossiliferous.

70 Same, top of Ocala (Jackson) Eocene

80 Same, non-fossiliferous

90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230,

240 Same

250 Missing activity cavity 2 ft.

260 Gray, white soft lime

270, 280, 290, 300, 310, 320, 330, 340, 350, 360, Same.

370 Gray, brown lime

380 Brown lime, calcite.

390 Buff, lime, calcite

400 Same

410 Dark, brown, dense, lime

500 Brown lime - top brown lime  
510 Dark, brown lime  
520 Same  
530 Same and calcareous  
540, 550, 560, 570, 580, 590, 600 Same.  
610 Same very fossiliferous  
620 Same, non-fossiliferous  
630 Same  
640, 650, Same  
660 Light, brown to buff lime  
670 Brown, dense, lime  
680 Brown to buff lime  
690 Same and dark calcite  
700 Same, no calcite  
710 Brown, buff and white lime.  
720, 730, 740, 750, 760, 770, 780, 790, 800, Same  
810 White, buff lime, lignite  
820 White, brown lime  
830 Same  
840 Same, slightly fossiliferous  
850 Soft, gray lime  
860, 870 Same  
880, 890, 900, Same, lignite  
910 Same  
920 Same, recrystalline  
930 Same, recrystalline  
940 Same, recrystalline  
950 Light, buff and dark brown lime, lignite  
960 Soft light buff lime  
970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100  
1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230,  
1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360,  
1370, 1380, 1390, 1400, 1410, 1420, 1430, Same.  
1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570,  
1580, 1590, Chalk  
1600 Anhydrite 1 foot.  
1610 Brown lime  
1620, 1630 Same  
1640 Missing  
1650 Brown lime  
1660, 1670, 1680 Same  
1690, 1700 Chalk  
1700 Chalk  
1710 Brown lime  
1720, 1730, Same

2190, 2195, 2200 Same  
2205 Same and anhydrite  
2210 Same  
\* 2215 Same, more anhydrite  
2225 Soft dark gray brown sandy lime  
2230 Same  
2235 Dark gray calcareous shale  
2236 Soft light gray argillaceous lime or marl  
2238 Soft, dark, gray, calcareous, shale  
2240 Same

July 15, 1937 (FN 508)

2242 Soft, nearly black calcareous shale  
2244 Same  
2246 Dark, gray, brown, medium hard argillaceous lime  
2248, 2250, 2252, Same  
2254 Soft, nearly black calcareous shale  
2256 Same  
2258 Soft, brown gray calcareous shale  
2261 Soft, brown gray argillaceous lime  
2262 Blue gray shaly argillaceous lime  
2267 Soft, brown, gray, argillaceous, lime  
2268 Flint boulder  
2271 Soft, brown, gray, argillaceous lime  
2274 Gray, black calcareous shale  
2280 Soft, brown, gray, argillaceous lime  
2283 Gray, black calcareous shale  
2301 Gray white chalk rocks  
2315 Dense gray argillaceous lime  
2331 Same, but slightly banded  
2345 White to gray chalk rock  
2352 Dark black shale gumbo and argillaceous lime  
2355 Whitish lime  
2365 Chalk  
2380 Chalk and white clay  
2385 White chalk  
2391 Chalk and white clay  
2392 Calcareous shale, argillaceous lime, and some anhydrite  
2397 Gray, argillaceous lime and white chalk  
2410 Gray argillaceous lime and white chalk  
2418 Dark calcareous shale and gray argillaceous lime  
2425 Same  
2434 Anhydrite, dark, calcareous shale, and brown argillaceous lime  
2444

- 2492 Solid anhydrite, some gray lime breaks  
 2515, 2570 Same  
 2573 Chalk  
 2576 Dense gray dolomitic lime with anhydrite inclusions  
 2580 Solid anhydrite  
 2584 Gray lime with anhydrite inclusions  
 2591 Solid anhydrite  
 2593 Gray lime and black gray shale  
 2615 Chalk  
 2618 Soft buff gray lime  
 2623 Same with anhydrite  
 2651 Anhydrite gray brown lime inclusions  
 2676 Light brown porous granular lime  
 2680 Dark anhydrite  
 2696 Very hard anhydrite and gray brown lime. Total depth

NOTE: The section from 2695 to 3066 was predominately anhydrite of varying shade and colors from dark browns and grays to light pinks to white. This puts the main massive anhydrite section from 2434 to 3066 showing 632' total thickness. This section throughout is interspersed with breaks of gray to buff to white lime and some soft whitish buff granular chalk lime.

- 3066-3074 Anhydrite and gray lime  
 3077 Gray banded, fossiliferous, argillaceous lime, anhydrite inclusions  
 3084 Same with 1" massive anhydrite  
 3090 Dense gray, white, fossiliferous, lime with blue to white massive anhydrite  
 3115 Dense, gray to porous, recrystalline lime, secondary anhydrite cementing  
 3118 Soft gray to white chalk, consisting principally of round fossils, probably oolitic  
 3120 Gray banded to gray salt and pepper oolitic lime, anhydrite cementing  
 3123 Same, but very oolitic  
 3127 Same, but denser and less oolitic, few inches gray white fossiliferous chalk at bottom  
 3131 Gray white to chalk, fossiliferous lime, oolitic, anhydrite cementing and anhydrite inclusions  
 3139, 3143 Same  
 3147 Soft gray white salt and pepper chalky fossiliferous lime, anhydrite inclusions  
 3151 Same and few inches gray white chalk marl at bottom  
 3155 Gray, white soft, salt and pepper fossiliferous lime to dark

- 3184 Same  
3188 Gray, white, salt and pepper, oolitic lime, to dense gray banded lime, limited anhydrite inclusions  
3192 Same with small amount white chalk, no anhydrite, inclusions  
3196, 3200, 3204, Same  
3208 Same with anhydrite inclusions at bottom  
3216 Gray white, oolitic lime, anhydrite inclusions and anhydrite cementing  
3220, 3224, 3226, Same  
3230 Gray, white oolitic lime to dense hard gray lime  
3236 Same  
3240 Same, with some anhydrite inclusions, small shell break and evidence cross bedding  
3244 Dense, medium soft gray lime  
3248 Same with 2 feet anhydrite stringer  
3252 Gray, white soft chalky lime  
3256 Soft, gray, white chalky lime  
3260 Dense, gray to soft gray white, chalky lime  
3264 Gray, white, chalky and oolitic lime  
3268 Same, anhydrite cementing still present  
3272 Same, also small anhydrite inclusions  
3276 Gray, white chalk to oolitic to dense gray, white, lime anhydrite cementing  
3280, 3284, 3288,\*3300, 3304, 3308, 3312, 3316, 3320, 3324, 3328, 3334, 3340,\*32  
Same  
3346 Same with small lignitic inclusions  
3351 Same with lignitic inclusions  
3356, 3360, 3365, 3370, Same  
3375 Same with dark banding showing, cross bedding  
3380 Same  
3385 Same with darker gray more argillaceous  
3390 Gray lime and gray shale breaks  
3395 Dense, gray, lime, banded here and there, one small shale break  
3400 Two small shale partings balance gray, lime, heavily cemented with anhydrite  
3405 Soft, gray, argillaceous, lime, one small black shale break  
3406 Dense, gray, argillaceous lime  
3407 Same  
3410 Gray, argillaceous, lime, same, anhydrite cementing  
3413 Gray to dark gray to black argillaceous lime, anhydrite cementing  
3415 Very porous gray broken, spongy sinter-like lime, believe carrying heavy sulphur water  
3417 Same but more dense, with specks of chalk inclusions  
3425 Gray lime recrystallized solution cavities filled with chalk calcite and some selenite

- 3450 Same, but less solution, evidence Inoceramus  
3454 Same  
3458 Same, but more chalk filled  
3462 Chalky lime  
3466 Same  
3470 Chalky lime, heavy inclusions calcite  
3474 Same  
3478 Dark, brown, gray, recrystalline, lime solution cavities throughout  
3482 Same  
3486 Lime conglomerate and brettechia  
3490 Soft white chalk  
3494, 3498 Same  
3502 Same with calcite and fossils  
3506, 3514, 3519, 3523, 3528, 3533, 3538, 3543, 3548, 3553, 3558, 3563 Same  
3568 Same, with anhydrite inclusions  
3588 Gray brown crystalline lime, solution pitted  
3598 Same  
3670 Pure white soft chalk  
3700, 3720, 3740, 3765, 3795, 3815 Same  
3876 Pure white soft chalk  
4150, 4205, 4250 Same  
4280 Same with small shale break  
4340 Pure white chalk  
4365 Same  
4400 Same with some carbonaceous material  
4430 Pure white soft chalk  
4460, 4495, 4510 Same  
4530 Same with considerable carbonaceous, material  
4545 Same  
4575 Chalk carrying gray to amber angular to subangular sand and continuous inclusions of carbonaceous material  
4605 Chalk carrying increasing amounts carbonaceous material  
4635 Chalk and carbonaceous material  
4650 Same  
4675 Pure white soft chalk  
4710 Same  
4740 Chalk with black gas carrying shale breaks  
4770 Blue gray marl and gray lime all carrying gas, small black shale break  
4800 Lime conglomerate, blue gray marl, gray lime, and black shale breaks of about one inch thickness, all carrying gas  
4825 Lime conglomerate with small one inch shale breaks  
4850 Blue gray lime conglomerate with breaks of black carbonaceous shale  
4850 Blue gray chalky lime and marl, shale breaks, some gas, lime badly fractured.

5605 Light brown, porous sugary lime  
 5616 Same  
 5621 Anhydrite, dense light gray  
 5635 Anhydrite, dense blackish gray  
 5642 Light gray lime, looks like sinter  
 5644 Very porous blackish gray lime  
 5645-1/2 Lime, light gray sugary porous  
 5648 Lime, sugary slightly porous, tall spired, gastropod and the fossils  
  
 5650 Same  
 5655 Lime, light gray with much included dark material like coquina  
 5670 Lime, dark, gray  
 5676 Sandy gray limestone  
 5680, 5684, 5689, Same  
 5694 Same, but quite hard  
 5700, 5705 Same  
 5710 Lime, gray, with streaks of black shale  
 5715, 5720 Same  
 5725 Gray shale and limestone  
 5730, 5735, 5740 Same  
 5745 Gray lime and shale hard and soft streaks  
 5750 Lime, dense and hard with streaks of shale  
 5755 Lime, blackish gray, impure, somewhat porous  
 5760 Lime, light gray to brown gray scattered pores  
 5765 Lime, light gray, porous  
 5770, 5775 Same  
 5778 Lime, dense except for few pores. Light gray  
 5780 Lime, light gray, sugary  
 5785 Lime, dark gray, dense except for few scattered pores  
 5790 Lime, dark gray, slight porosity, blackish particles.  
 5800 Lime, dark gray impure argillaceous.  
 5806 Lime, shale conglomerate fossiliferous.  
 5811 Lime, brown, porous sand gray sandy.  
 5816 Gray lime and shale.  
 5831 Same.  
 5836 Lime, gray.  
 5841 Black shale with small sand breaks.  
 5843 Lime, dark gray dense.  
 5847 Lime, light gray, sugary.  
 5854, 5860, 5863, 5869 Same.  
 5874 Some porous small openings.  
 5875 Lime dull gray dense and with few small pores.  
 5878 Same.  
 5881 Lime, feels and looks gritty, many small black grains.  
 5889 Lime, dull gray, sugary highly porous.

- 5900 Lime, light gray dense impure with many dark particles.  
5911 Same.  
5916 Limestone, sand and shale.  
5921, 5925, 5930, 5935, Same.  
5940 Lime, dark banded with white calcite, many small pores.  
5945 Lime dark, porous, some pores obviously once contained fossils.  
5950 Lime, dark gray, impure.  
5956 Gray, lime with streaks of shale.  
5961 Same.  
5966 Lime, sand and shale.  
5968 Lime, dark gray rather dense with many small pores.  
5971 Top gray lime, bottom gummy shale.  
5976 Light gray, dense sugary lime and shale.  
5981 Lime, dark gray sugary quite porous, also some shales with sand and anhydrite inclusions.  
5986 Same.  
5991 Lime dark gray dense.  
6000 Lime light gray porous fine grained.  
6002 Lime, impure argillaceous.  
6005 Same.  
6010 Lime, dense gray.  
6015 Same.  
6020 Lime, dark gray and shale.  
6025 Lime, shale, many shells.  
6030 Same.  
6034 Lime, light gray dense almost lithographic.  
6040 Lime, very impure, shaly dark gray.  
6045 Shells, shale, lime, thin sand streaks, small flakes of muscovite.  
6050 Sandstone or arkose with about 20% grains look like red orthoclase but may be quartz.  
6054 Top 6" black shale, then 1½ feet of tight gray lime and very porous brown white and reddish sandstone probably arkose.  
6057 Sandstone probably arkose some gray dense lime.  
6060 Same with some shale streaks.  
6062, 6064, 6068, Same.  
6072 Same looks like conglomerate.  
6075 All purplish red clay about 30% quartz and feldspar which is sharp and irregular.  
6079 Same, more hard grains 1/16" or less.  
6083 Same, but more clay.  
6086 Same, but hard grains are larger.  
6089 Same.  
6101 Same, with red clay and quartz and red feldspar about 20%.  
6106 Granite with quartz, orthoclase feldspar, biotite and very little dark



Mr. H. J. Weeks  
Philadelphia, Pa.

Dear Sir:

Cuttings samples have been examined from the Oil Dev. Company, Gulf Exploration Company #2 well, map loc. Sec. 17, 24S, 25E, in Lake County, Florida.

The samples are described as follows:

0-65	Fine white sand, mica.
65-90	Fine white quartz, calcareous, abundant fauna, including Heterostegina.
90-95	Coarse sand, chalk, Operculina, Heterostegina, Lepidocyclina.
95-120	Same.
125-130	Chalk, very fossiliferous large Lepidocyclinas.
130-135	Chalk, coarse sand, Operculina, Lepidocyclina, Quinqueloculina, etc.
135-160	Same.
160-170	Same.
170-180	Chalk, Lepidocyclina, Operculina. Dictyoconus.
180-190, 190-200, 200-210, 210-220, 220-230	Same.
230-240	Fine quartz, abundant weathered forams.
280-290	Coarse to fine quartz, chalk, cream colored finely crystalline lime.
300-310	Same.
310-320	Porous, white chalk fossiliferous, slightly oolitic.
320-330	Same.
350-360	Finely crystalline lime, fossiliferous, chalk, porous and weathered.
360-370	Finely crystalline lime, porous, very little chalk.
370-380	Finely crystalline lime and chalk.
390-400	Same.
400-420	Finely crystalline lime, fine white sand, little chalk.
420-430	Same.
430-440	Same, sand increasing.
440-445	Hard crystalline lime, fine crystalline lime, little sand.
470-480	Porous, cream colored lime.
480-490	Coarse to fine quartz, little porous and hard lime

530-540, 540-550, 570-580 Same.  
580-590 Same.  
590-600 Finely crystalline porous lime, cream colored.  
600-610, 620-630, 630-640 Same.  
640-650 Same, coarse to fine quartz.  
650-660 Same.  
660-670 Porous cream colored lime.  
670-680, 680-690, 690-700, 700-710, 720-730, 730-800 Same.  
800-810 Coarse to fine quartz, porous cream colored lime.  
810-820 Mostly porous cream colored lime.  
820-950 Same.  
950-960 Hard white lime, cream colored porous lime.  
960-970 Same.  
980-990 Same, little carbonaceous brown fine sand.  
990-1000 Hard cream colored lime, porous lime, little carbonaceous brown fine sand, few chert.  
1000-1010 Same.  
1010-1020 Hard, cream colored and porous lime.  
1020-1030 Same.  
1030-1040, 1040-1050 Same.  
1050-1060 Cream colored, soft lime.  
1060-1070, 1070-1080 Same.  
1080-1090 Same; little anhydrite.  
1090-1100 Same; little anhydrite.  
1100-1110, 1110-1120, 1120-1130, 1130-1140, 1140-1150, 1150-1160, 1160-1170, 1170-1180, 1180-1190, 1190-1200 Same.  
1200-1210 Fine crystalline cream colored lime, little sand, little hard white lime.  
1210-1220, 1220-1230, 1230-1240, 1240-1250 Same.  
1250-1260 Porous cream colored lime, sand, selenite.  
1260-1270 Same.  
1270-1280 Porous cream colored lime, hard lime, little sand.  
1280-1290, 1290-1300 Same.  
1300-1305 Same, porous finely crystalline lime or dolomite, some sand.  
1305-1315 Same, some brown chert.  
1315-1330 Same, more sand, less lime.  
1330-1345 Sand, porous lime.  
1340-1350 Fine crystalline porous lime, white porous lime, little chert.  
1350-1360, 1360-1370, 1370-1380, 1380-1390 Same.  
1390-1410 Slightly porous, cream colored lime.  
1410-1420 Same.  
1420-1430 Slightly porous cream and white lime.  
1430-1440 Same.  
1440-1450 Same.  
1450-1460 Fine crystalline lime, little fine sand.

1500-1500 Porous cream colored lime.  
 1593-1601 (Core). Lime rhomboidal crystals.  
 1601-1610 (Cut). Brown hard lime, porous lime Orbitolina.  
 1610-1620, 1620-1630 (Cut). Same.  
 1640-1645 (Core). Finely crystalline lime.  
 1640-1650 (Cut). Hard brown lime, porous cream colored lime.  
 1650-1660, 1660-1670, 1670-1680, 1700-1710, 1710-1720 Same. (Cut).  
 1720-1730 Hard brown lime, porous lime, Dictyoconus. (Cut).  
 1730-1750 Same. (Cut).  
 1745-1755 (Core). Porous white lime.  
 1750-1770 (Cut). Porous white lime, brownish hard lime.  
 1770-1780, 1780-1800 Same. (Cut).  
 1800-1820, 1840-1850 Same. (Cut).  
 1871-1878 (Core). Hard brownish dolomite.  
 1878-1947 (Top core). Hard crystalline lime brown.  
 1878-1947 (Mid. Core). Hard crystalline lime, brown, Anhydrite.  
 1878-1947 (Bot. core). Hard crystalline lime, brown.  
 1947-1958 (Core). Hard white lime, crystalline brown lime.  
 1958-1974 (Core). Hard dense dolomite.  
 1978-1988 (Core). Hard dense dolomite, and white lime.  
 1988-2000 (Core). Hard dense dolomite.  
 2000-2005 (Core). Hard dense dolomite.  
 2005-2010 (Core). Hard dense white dolomite.  
 2010-2014 (Core). Finely crystalline porous dolomite or lime.  
 2014-2045 (Core). (Top). Hard brown dolomite.  
 2014-2045 (Core). (Mid). Porous white dolomite.  
 2014-2045 (Core). (Bot). Hard gray dolomite.

### SUMMARY

0-90	Fine white sand.
90-170	Ocala limestone.
170-180	First Dictyoconus horizon.
490-500	Top Brown lime section.
980-990	Top carbonaceous fine sand silty.
1080-1090	First Anhydrite noted.
1720-1730	Second Dictyoconus horizon.
1871-1878	Brown dolomite.

There are many very porous zones in this lime section.

No shows of oil could be detected with acetone from the cuttings and core samples. If present the shows must be extremely light.

or low, without seeing samples from the other wells drilled in this vicinity.

A general regional subsurface map can be draw on the fossil zones using the water wells drilled in peninsular Florida.

Yours truly,

J. A. Waters

✓ 1055-60 | Crmp, porous, soft, slightly foss ch

1593-01 | Itbuff, fixally, soft, porous, chy dol w/ lenses of whyming hard anh

1640-45 | Itbuff, v fixally, soft, porous, chy, slightly sig. dol w/ numerous lenses of whitish micro-  
C raly, soft anh

✓ 1745-55 | buff, micro, porous, rdy, chy, pct. ls *Cl* - *Dryocopus* from F. V. ...

1871-78 | Itbny, fixally, porous, vuggy, hard, slightly chy dol

1878-47 Top | Ittag, v fixally, porous, vuggy, hard, v chy dol

✓ 1878-47 Middle | off wh, soft, porous ch w/ abund disseminated, dk bny, C, anh dol r rals

1947-58 | Itbny, C raly, hard, porous, highly vuggy, porous, sacc dol

1958-74 | Itbny, micro, hard, tight, dense dol w/ scatt. lg. vgs filled w/ Itbny, C raly dol

✓ 1978-88 | Itdry - Itbuff, micro, porous, hard dol w/ relief foss m raly? replaced by clean, M raly  
Anh. One corner of core is Itbny, v fixally, hard, porous dol w/ one pocket of  
wh C raly Anh

1988-00 | Mbny, micro, hard, tight, dense dol w/ several vgs filled w/ Mbny, C raly dol

+ Mbny, fixally, hard, tight, dense dol + Ittag, micro, hard, fairly tight dol w/ small  
patches of Ittag, v fixally Anh

2000-05 | dk bny, M raly, hard, tight, dense dol

2005-10 | Itbny, micro, hard, tight, dense dol

2010-14 | Vdk bny, micro, hard, tight, dense dol w/ 40% of rock covered by lg. vgs filled w/  
dk bny, fixally, porous sacc dol

2014-45 Top | buff, micro, hard, tight, dense dol

✓ 2014-45 Middle | Itbuff, micro, hard, porous, chy dol w/ scatt. v connected, lg. small vgs filled w/  
f raly dol. Some relief foss visible

SE/4 of SE/4, Sec. 17, T24S, R23E.  
12 miles south of Groveland.

COUNTY : Lake  
 ELEVATION : 113.66 (Oil Scouts)  
 CONTRACTOR: Sam E. Wilson, Jr., El Dorado, Ar  
 STARTED : Feb. 26, 1935  
 COMPLETED: (Inactive since May 13, 1937)  
 DEPTH : 6129'  
 CASING : 130' of 16"; 510' of 12"; 2200' of 40 I  
 9-5/8"  
 USE : Oil test  
 QUALITY :  
 REMARKS : Driller's log from 0-1947', Schl. log  
 from 2200 to 6113'. Schl. from Rile  
 (No. 1 abandoned at about 500' caving  
 trouble) 548 samples from 0-5600'.  
 Interval sheet was made from  
 envelopes, Oct. 30, 1947. 217 sam  
 brought in by S. A. Stubbs and J. C.  
 Simpson, given them by Wm. G.  
 Blanchard, May 16, 1941, beginning  
 at 2258' and continuing to 3833'.  
 See AAPG Bulletin, Vol. 28, #12,  
 Dec. 1944. Plate 5, Figures 7A, B.  
 See Journal of Paleontology, Vol. 19  
 No. 2, March, 1945, p. 147.

0-38-40	Sand, slightly yellow, with minute mica flakes
	Recent - Pleistocene
	Pliocene
40-45	White fine grained sand, with minute mica flakes.
45-50	White fine grained sand, with minute mica flakes.
50-55	White fine grained sand, with minute mica flakes.
55-60	Fine white, slightly stained, sand, fine mica flakes and few dark grains. Not phosphatic.
	Pliocene
	Miocene
60-65	Fine grayish white sand and grains of dark colored mineral, mica flakes. Slightly phosphatic.
65-70	Rather coarse grayish white sand, mica flakes, small fragments of light colored rock and grains of dark mineral. Calcareous and phosphatic. <u>Quinqueloculina</u> , <u>Gypsina</u> , <u>Operculina</u> , <u>Textularia</u> fragment.
70-75	Same, but sand grains finer and in less amount. <u>Operculina</u> ,

## Miocene

## Eocene

- 90-95 Fairly coarse sand and fragments of gray limestone with Lepidocyclus, Heterostegina, Operculina, Gypsina.
- 95-100 Gray porous, fossiliferous limestone. Heterostegina?, Lepidocyclus, Operculina willcoxi, O. ocalana?
- 100-105 Same. Lepidocyclus, Operculina willcoxi, Heterostegina, Gypsina.
- 105-110 Same. Lepidocyclus, Operculina willcoxi, Heterostegina, Gypsina.
- ?
- 110-115 Gray, porous fossiliferous limestone, with considerable percentage of coarse sand. Lepidocyclus, Operculina willcoxi, O. ocalana, Heterostegina, Gypsina.
- 115-120 Gray, porous, fossiliferous limestone, slightly sandy.
- ?
- 125-130 Lepidocyclus, Operculina willcoxi, Heterostegina, Gypsina.
- ?
- 130-135 Gray, porous fossiliferous limestone, slightly sandy.
- ?
- 130-135 Gray, porous fossiliferous limestone, some sand. Lepidocyclus, Operculina willcoxi.
- 135-140 Gray porous fossiliferous limestone, some sand. Lepidocyclus, Operculina, fragment of echinoids and fragment of pecten.
- 140-150 Gray, porous fossiliferous limestone, some sand.
- ?
- Lepidocyclus, Heterostegina, Operculina, Gypsina, and fragment of Laganum dalli?
- 150-160 Gray, porous fossiliferous limestone, some sand.. Orbitoid foraminifera. Lepidocyclus ocalana, Operculina.
- 160-170 Same.
- 170-180 Gray, porous fossiliferous limestone. Coskinolina, Lepidocyclus, Operculina, Laganum dalli?
- 180-190 Gray porous fossiliferous limestone. Coskinolina.
- 190-200 Gray porous fossiliferous limestone. Dictyoconus, Lepidocyclus, fragment echinoderm spine? Operculina.
- ?
- 210-210 Gray, porous, fossiliferous limestone, some sand. Dictyoconus, Lepidocyclus, Operculina, Coskinolina, fragment of echinoderm spine and of Laganum dalli.
- 210-220 Gray porous, fossiliferous limestone. Very little sand. Lepidocyclus, Dictyoconus, Operculina, Laganum dalli, fragment of a small gastropod?.
- 220-230 Grayish and light brown or tan fossiliferous limestone. Lepidocyclus, Operculina, Dictyoconus, fragment of echinoderm spine.
- 230-240 Finely powdered brown limestone with fine quartz sand. Operculina and other poorly preserved foraminifera.
- 290- ? Brown fossiliferous limestone with considerable rather coarse and fine sand. Lepidocyclus, Operculina, Dictyoconus, Gypsina.
- 300-310 Same

- light colored, somewhat chalky, limestone. Dictyoconus,  
Operculina? and other fragments of fossils.
- 360-370 (2 samples). Brown sugary limestone, somewhat crystalline.  
Dictyoconus, Operculina, and a few other poorly preserved  
foraminifera.
- 370-380 (2 samples). Brown crystalline limestone. Operculina.
- 380-390 Brown rather finely powdered, somewhat chalky, limestone. Dictyoconus,  
Operculina and some other fossils.
- 390-400 Light brown, rather finely powdered limestone. Dictyoconus,  
Operculina and other foraminifera.
- 400-420 Brown crystalline limestone, finely powdered. Dictyoconus.  
Fine quartz sand.
- 420-430 Brown, crystalline limestone, finely powdered and fine quartz sand.  
Dictyoconus, Operculina?
- 430-440 Brown, crystalline limestone, finely powdered. Dictyoconus,  
Textularia.
- 440-445 Brown, crystalline limestone, hard and porous. Dictyoconus,  
Operculina, Textularia.
- 470-480 Light brown, hard, porous limestone.
- 480-490 Light brown, finely powdered, limestone, with quartz sand.  
Dictyoconus.
- 490-500 Brown crystalline limestone. Dictyoconus, Operculina, and other  
foraminifera.
- 500-510 Same.
- 510-520 Same, with some lighter colored limestone.
- 520-530 Same, with some lighter colored limestone.
- 530-540 Light colored, porous limestone with some hard brown limestone.  
Fossil casts noted.
- 540-550 Same. Dictyoconus.
- 550-560 Same, with some sand.
- 560-570 Same. Dictyoconus.
- 570-580 Same, no sand.
- 580-590 Light colored, porous and hard crystalline brown limestone.
- 590-600 Dark cream colored limestone.
- 600-610 Same.
- 610-620 Same, with some fossil shell fragments.
- 620-630 Same. Dictyoconus, Operculina, Globulina?
- 630-640 Same, with fossil shell fragments and quartz sand.
- 640-650 Hard light brown, porous, crystalline limestone.
- 660-670 Hard light brown, porous, crystalline limestone.
- 670-680 Hard light brown, porous, crystalline limestone.
- 680-690 Same. Gypsina.
- 690-700 Hard light brown, porous, crystalline limestone.
- 700-710 Same.
- 720-730 Same.
- 740-750



840-850	Same.
850-860	Same.
860-870	Same. <u>Operculina</u> .
870-880	Same.
880-890	Same. <u>Operculina</u> .
890-900	Same. <u>Operculina</u> , and fragment of limestone with a little carbonaceous material.
900-910	Hard, light brown, porous, crystalline limestone, some carbonaceous material. <u>Operculina</u> .
910-920	Hard, light brown, porous, crystalline limestone. Fossil shell fragments.
920-930	Hard, light brown, porous, crystalline limestone. <u>Operculina</u> , some sand.
930-940	Same, with some sand.
940-950	Same. <u>Operculina</u> , fragment of <u>Lepidocyclina</u> . Some sand grains.
950-960	Same. <u>Operculina</u> . Some sand grains.
970-980	Same. Some sand grains.
990-1000	Same. Some sand and fragment of chert.
1000-1010	Same. Few poorly preserved foraminifera noted.
1010-1020	Same. <u>Operculina</u> , <u>Dictyoconus</u> and fossil fragment.
1020-1030	Same. Some sand.
1030-1040	Same.
1040-1050	Same. Fragment of <u>Operculina</u> and some carbonaceous material. Chert.
* 1050-1060	Same. <u>Dictyoconus</u> , <u>Operculina</u> , <u>Quinqueloculina?</u> Chert.
1060-1070	Hard, light brown, porous, crystalline limestone. (Dolomitic?).
1070-1080	Same. Fragment of anhydrite.
1080-1090	Same. <u>Operculina</u> . Some anhydrite.
1090-1100	Same. <u>Operculina</u> . Some anhydrite.
1100-1110	Same.
1110-1120	Same. <u>Operculina</u> . Fragment of Selenite.
1120-1130	Same.
1130-1140	Same. Some chert.
1140-1150	Same. <u>Operculina</u> .
1150-1160	Same.
1160-1170	Same. <u>Lepidocyclina</u> , <u>Operculina</u> , <u>Selenite</u> .
1170-1180	Same. <u>Selenite</u> , some sand.
1180-1190	Same. <u>Operculina</u> and fragments of shells.
1190-1200	Same. <u>Anhydrite</u> , <u>Operculina</u> .
1200-1210	Same. Gypsum.
1210-1220	Same. Gypsum, <u>Operculina</u> and a fragment of chert.
1220-1230	Same with some gypsum and fragments of hard white limestone.
1230-1240	Same with little sand, Gypsum, <u>Operculina</u> .

- 1330-1335 Same, with considerable sand. Few poorly preserved Dictyoconus and Operculina.
- 1335-1340 Brown crystalline limestone, somewhat sandy.
- 1340-1350 Brown crystalline, porous, limestone with some white limestone. Operculina, Dictyoconus, and a flake of gypsum.
- 1350-1360 Hard, cream colored, somewhat porous limestone.
- 1360-1370 Hard, cream colored limestone with little sand. Some chert, gypsum. Operculina.
- 1370-1380 Cream colored limestone, somewhat sandy. Gypsum, Operculina.
- 1380-1390 Same.
- 1390-1400 Cream colored limestone, some sand, little chert. Operculina.
- 1410-1420 Same. No gypsum or fossils noted. No chert.
- 1420-1430 Same. No gypsum or fossils noted. No chert.
- 1430-1440 Cream colored sandy limestone. Fossil fragments.
- 1440-1450 Finely powdered cream colored limestone.
- 1450-1460 Same.
- 1460-1470 Same.
- 1470-1480 Same, some sand.
- 1480-1500 Same, some sand and hard fragments of lime. (Dolomite?).
- 1500-1560 Cream colored limestone, very sandy. Dictyoconus, Quinqueloculina, and other foraminifera. A flake of Gypsum.
- ✓ 1593-1601 Core fragments. Calcium sulphate made of anhydrite on one edge, selenite on the other with a small amount of cream colored limestone attached to the edge of the selenite.
- 1601-1610 Hard brown and some porous white limestone with considerable percentage of sand. Operculina, Dictyoconus, and a few flakes of gypsum.
- 1610-1620 Hard brown limestone, some sand. Dictyoconus, Operculina, Quinqueloculina. Gypsum fragment.
- 1620-1630 Same. Dictyoconus, Operculina, and a Turritella-like foraminifera, chert fragments.
- ✓ 1640-1645 Core. light cream colored, finely crystalline limestone.
- 1640-1650 Hard brown limestone.
- 1650-1660 Hard brown limestone, some gypsum flakes and sand. Dictyoconus, Operculina.
- 1660-1670 Hard brown and cream colored limestone. No fossils.
- 1670-1680 Cream colored, somewhat sandy limestone. Operculina, Dictyoconus.
- 1680-1690 Cream colored limestone.
- 1690-1700 Same.
- 1700-1710 Same. Dictyoconus.
- 1710-1720 Hard brown limestone, somewhat sandy.
- 1720-1730 Brown limestone. Dictyoconus.
- 1730-1750 Cream colored limestone.

1878-1947

(Dolomitic). Top core. Hard light brown crystalline limestone.  
Middle core. Fairly hard, white limestone with crystals of gypsum.  
Bottom core. Hard, brown (sugary) crystalline limestone.  
(Eocene)

Portion of core from 1946 feet was tested for oil in laboratory of U. S. Geological Survey with reported result "petroleum practically absent" (August 27, 1935).

1947-1958

Core. Hard, dark brown crystalline limestone.

1958-1974

Core. Hard, dark brown, dense dolomite.

1978-1988

Core. Hard, grayish-white, dolomitic limestone.

1988-2000

Core. Hard, dark brown, dense dolomite.

2000-2005

Core. Hard, darker brown, dense dolomite.

2005-2010

Core. Hard dense, gray dolomite.

2010-2014

Core. Hard, brown sugary crystalline limestone, probably dolomitic.

Top core. Hard dark gray, dense dolomite.

2014-2045

Middle core. Hard porous light dolomite.

Bottom core. Hard, light gray, dense dolomite.

WELL : Gulf Exploration Co.  
 LOCATION : Sec 17, T24S, R25E  
 COUNTY : Lake  
 ELEVATION : DF 120'  
 DEPTH : 6,113'  
 COMPLETED : 6/18/38

REMARKS : No sample at 2045 -2258',  
 2696-3074, Elec. Log available

CHEN 1963

0	65	MIOCENE AND YOUNGER
65	950	AVON PARK LIMESTONE
950	1440	LAKE CITY LIMESTONE
1440	2230	OLDSMAR LIMESTONE
2230	3400	CEDAR KEYS LIMESTONE
3400	3880	UPPER CRETACEOUS (LAWSON LIMESTONE)
3880		UPPER CRETACEOUS (TAYLOR)
0	65	Miocene and Younger
65	170	Highly fossiliferous LIMESTONE, microcoquina, (fragmental and forams) gray brown with large forams
170	260	Highly fossiliferous LIMESTONE with forams as Cosk., etc, microcoquina to fragmental, biosparite (?)
260	300	DOLOMITE , very fine crystalline, porous , dark brown
300	360	Highly fossiliferous LIMESTONE, microcoquina to pseudo-oolitic, biosparite, with Cosk., Lituonella, etc., rather common
360	430	DOLOMITE, fine crystalline, rather porous
430	440	LIMESTONE with carbonaceous material and peat fragments

		crystalline, porous, brown
490	510	DOLOMITE, very fine crystalline, dark brown
510	540	Calcitic (10%) DOLOMITE, microcrystalline, porous
540	560	DOLOMITE, very fine crystalline, rather dense, very dark bro
560	600	Calcitic (10%) DOLOMITE, microcrystalline, porous, very light brown
600	800	DOLOMITE, very fine crystalline, porous, light brown to brown
800	820	Calcitic (10%) DOLOMITE, microcrystalline with few quartz crystals and Chalcedony fragments
820	850	DOLOMITE, very fine to fine crystalline, porous with few gypsum fragments
850	950	DOLOMITE, very fine crystalline, porous, brown
950	1000	Calcitic (10%) DOLOMITE, very fine crystalline, porous, brown with carbonaceous materials
1000	1040	Calcitic (10%) DOLOMITE, microcrystalline, brown with a few chert fragments
1040	1080	Calcitic (10%) DOLOMITE, microcrystalline, brown, with brown black chert fragments and forams fragments
1080	1100	Calcitic (10%) DOLOMITE, as above with gypsum fragments and quartz crystals and Chalcedony fragments
1100	1130	DOLOMITE, very fine crystalline, slightly gypsiferous with Selenite flakes
1130	1170	Calcitic (10%) DOLOMITE, microcrystalline, slightly gypsiferous with Selenite flakes and carbonaceous materials
1170	1270	DOLOMITE, very fine crystalline
1270	1305	DOLOMITE, fine crystalline
1305	1315	DOLOMITE, medium crystalline, very dark brown with carbona-

1340	1440	DOLOMITE, fine crystalline, dark brown
1440	1500	Calcitic (10%) DOLOMITE, microcrystalline to fine crystalline
1500	1593	DOLOMITE, very fine crystalline
1593	1601	ANHYDRITE
1601	1730	DOLOMITE, very fine crystalline
1730	1850	Fossiliferous LIMESTONE
1850	1878	DOLOMITE, medium crystalline, gray brown, dense, rather pu
1878	1890	Calcitic (10%) DOLOMITE, medium crystals with undolomitized fossil remains
1890	1920	Dolomitic (10%) LIMESTONE
1920	1947	DOLOMITE, coarse crystalline with good dolomite crystals
1947	1988	DOLOMITE, medium crystalline
1988	2005	DOLOMITE, medium crystalline, very dark brown, dense
2005	2010	DOLOMITE, very fine crystalline, gray brown, dense
2010	2014	DOLOMITE, very fine crystalline, rather soft, carbonaceous materials
2014	2025	DOLOMITE, very fine crystalline, dense, dark gray
2025	2230	DOLOMITE very fine crystalline, brown
2230	2270	LIMESTONE, gray, slightly argillaceous, dense
2270	2283	LIMESTONE, dark gray, laminated, slightly argillaceous
2283	2305	LIMESTONE, gray dense
2305	2315	LIMESTONE, dark gray, laminated
2315	2325	DOLOMITE, very fine to microcrystalline, dark gray brown
2325	2345	LIMESTONE, gray

2410	2425	LIMESTONE, gray to gray brown
2425	2430	Dolomitic (30%) ANHYDRITE, gray microcrystalline DOLOMITE associated with ANHYDRITE as irregular bands
2430	2440	Calcitic (10%) DOLOMITE, microcrystalline, gray slightly argillaceous
2440	2455	Dolomitic (30%) ANHYDRITE
2455	2470	DOLOMITE, microcrystalline, gray, lithographic
2470	2495	ANHYDRITE
2495	2510	DOLOMITE, microcrystalline, gray lithographic
2510	2530	ANHYDRITE
2530	2540	Gypsiferous (10%) DOLOMITE, microcrystalline, gray
2540	2570	ANHYDRITE
2570	2585	Gypsiferous (10%) DOLOMITE, microcrystalline, gray
2585	2590	ANHYDRITE
2590	2595	Gypsiferous (10%) fossiliferous DOLOMITE, light brown
2595	2620	Fossiliferous DOLOMITE, microcrystalline to very fine crystalline, slightly gypsiferous
2620	2635	ANHYDRITE
2635	2645	Gypsiferous (10%) DOLOMITE, microcrystalline
2645	2655	ANHYDRITE
2655	2690	Gypsiferous (10%) DOLOMITE, microcrystalline, fossiliferous and oolitic
2690	2715	ANHYDRITE
2715	2725	Gypsiferous (10%) DOLOMITE, microcrystalline
2725	2735	ANHYDRITE

2760	2775	Gypsiferous (10%) DOLOMITE, microcrystalline
2775	2785	ANHYDRITE
2785	2810	Gypsiferous (10%) DOLOMITE, microcrystalline
2810	2825	ANHYDRITE
2825	2830	Gypsiferous (10%) DOLOMITE, microcrystalline
2830	2850	ANHYDRITE
2850	2870	Gypsiferous (10%) DOLOMITE, microcrystalline
2870	2885	ANHYDRITE
2885	2925	Gypsiferous (10%) DOLOMITE, microcrystalline
2925	2940	ANHYDRITE
2940	2945	Gypsiferous (20%) DOLOMITE
2945	2965	ANHYDRITE
2965	2975	Gypsiferous (10%) DOLOMITE, microcrystalline
2975	3000	Gypsiferous (30%) DOLOMITE, microcrystalline
3000	3015	Gypsiferous (10%) DOLOMITE, microcrystalline
3015	3055	ANHYDRITE
3055	3085	DOLOMITE, microcrystalline, slightly gypsiferous and argillaceous gray to dark gray
3085	3120	Gypsiferous (10%) DOLOMITE, microcrystalline
3120	3125	Fossiliferous DOLOMITE, microcrystalline to very fine crystalline with forams as Borelis common
3125	3150	DOLOMITE, microcrystalline and slightly gypsiferous, laminated
3150	3170	Gypsiferous (10%) DOLOMITE, microcrystalline



3225	3235	DOLOMITE, microcrystalline, fossiliferous and oolitic, slightly gypsiferous
3235	3245	DOLOMITE, microcrystalline, laminated, gray
3245	3260	DOLOMITE, microcrystalline, light brown, slightly gypsiferous
3260	3270	DOLOMITE, microcrystalline, fossiliferous, slightly gypsiferous
3270	3325	Gypsiferous (10%) DOLOMITE, very fine to microcrystalline, fossiliferous
3325	3345	DOLOMITE, microcrystalline, fossiliferous
3345	3355	Gypsiferous (30%) DOLOMITE, microcrystalline
3355	3400	DOLOMITE, microcrystalline, laminated
3400	3410	DOLOMITE, very fine to fine crystalline, dark gray
3410	3413	DOLOMITE, medium crystalline, dark brown, rather pure
3413	3425	Calcitic (10%) DOLOMITE, medium crystalline, fossiliferous
3425	3455	DOLOMITE, fine crystalline, dark brown
3455	3460	DOLOMITE, medium crystalline, slightly gypsiferous
3460	3465	LIMESTONE
3465	3480	DOLOMITE, fine crystalline
3480	3495	Fossiliferous LIMESTONE with good algae structure
3495		Chalky , fossiliferous LIMESTONE with good algae structure



- 90 - 95. Sample composed of coarse fragments of a light gray, highly fossiliferous limestone and about 75 % very coarse grained, rounded, etched, clear quartz sand. *CAMERINA*
- The fauna in this sample is composed mainly of Operculina sp., Nummulites ? sp., and several species of Lepidocyclina, although nodules of the limestone are composed of a mass of poorly preserved tests of smaller foraminifera embedded with the larger forms. A few fragments of Pectin species noted. This sample represents the second zone of the Jackson, referred to as the large Nummulites zone by Cushman in his early studies on the Florida deep wells. This zone was present at 100 feet in the first sample studied from Cosden's No. 1 W. L. Lawson, Marion County, Fla. (A species of Lower Ocala.)
- 95 - 100. Similar to the preceding, ~~most of the limestone fragments at this depth are~~ but with the limestone fragments and specimens of larger foraminifera forming about 50 % of the sample. *PHOSPHORIC OPIPHRES*
- 100 - 105. Similar to the preceding. Most of the limestone fragments at this depth are composed mainly of sections of Miliolidae. Specimens of large foraminifera abundant as above. No change in the species noted. *CAMERINA* *LOTS.* (Note - This includes 1/2 of basal phase of Jackson, which is listed in Pennington)
- 110 - 115. Sample composed of fragments of a light gray, porous, oolitic and ~~oolitic~~ miliolid limestone. Many specimens of Lepidocyclina, Operculina, and Camerina ? sp. present, but less abundant than in the previous samples of this division of the Jackson. A few fragments of Pectin sp. and a number of Bryozoa also noted. Coarse, clear quartz sand, well rounded and etched, forms about 50 % of sample.
- 125 - 130. Like the preceding.
- 130 - 135. Similar to the preceding. Mainly fragments of oolitic and miliolid limestone and about 50 % coarse sand as above. Specimens of larger foraminifera comparatively rare at this depth.
- 135 - 140. Sample composed of fragments of an oolitic, porous light gray limestone, sand and some specimens of larger foraminifera as above. A few large specimens of Gypsinia globula.
- 140 - 150. Like the preceding.
- 150 - 160. No change.
- 160 - 170. Like the preceding, with a few nodules of brown, carbonaceous clay.

Eocene. "MIDDLE Eocene". COSKINOLINA ZONE. = Avon Park.

- 170 - 180. Fragments of a light gray, oolitic, coquina, much water worn and about 50 % sand as above. The material and a part of the fauna is like that of the preceding sample and may in the main be coming down the hole, but at this depth many specimens of Coskinolina ~~are~~ appear in the sample. *B.W.* *coskinolites*

Sample composed of fragments of the light gray oolitic lime as above, and fragments of a deep cream colored, dolomitic, fossiliferous lime, also fragments of the light gray, milioid limestone, and about 50 % coarse, etched, quartz sand as above. Many specimens of *Coskinolina*, some of the large Miliolids also mentioned above, and a number of fragments of larger foraminifera apparently coming down the hole from depths above this zone.

Similar to the preceding. In addition to the *Coskinolinas* and other forms mentioned above, a number of large *Textularia* cf. *adulta* and a few specimens of *Flintina*? sp. present at this depth. A number of smaller foraminifera also present.

*Cribrotextularia corymbosa* (Cole)

210 - 220. Like the preceding.

220 - 230. No change.

230 - 240. Sample composed of fine fragments of chalky limestone, carrying many calcitized and usually poorly preserved small foraminifera. Species show relationship to some of the small forms found in the other portions of the *Coskinolina* zone and it apparently represents a phase of that zone, indicating slightly different depositional conditions. The dominant forms present are: *Globigerina* sp., *Rotalia* sp. and a number of small forms of Miliolidae.

Forty foot break in samples.

280 - 290. Sample composed of fragments of a dark brown stained, porous, finely granular limestone and about 50 % coarse quartz sand as noted from higher depths; some worn and stained fragments of larger foraminifera from much higher depths also present. No indigenous fossils noted. A few fragments of gray-green shaly clay also present.

290 - 300. Like the preceding, with some fragments of a white, chalky, nodular lime also present.

300 - 310. Fragments of a white, chalky, irregularly brown stained lime, which is finely granular and dolomitic in parts and in others has the appearance of being made up of small rounded chalky nodules. These possibly represent the badly altered casts of small foraminifera in part, since a few traces of structure were occasionally noted. About 25 % sand as above, possibly coming down the hole.

310 - 320. Like the preceding.

320 - 330. Fragments of a white, chalky, porous limestone, apparently originally made up largely of small foraminifera, faint traces of structure of which can be occasionally noted although the material is badly altered.

330 - 340. Fragments of a cream colored, semi-porous finely nodular limestone.

200 - 210.

Big 75 ft.  
S. COAST  
DISCO  
MAMMO  
SAND TR. SP.

210 - 220.

220 - 230.

230 - 240.

W. W. J.  
Carter

280 - 290.

290 - 300.

300 - 310.

310 - 320.

320 - 330.

330 - 340.

present as in the sample from 230 - 240.

340 - 350.  
V. J. J. J. J.  
Total, Div. 1  
8-17.

- Like the preceding. *Lituonellas* very common at this depth. *Coskinolina* still abundant. Many specimens of a large *Gaudryina* ? sp. and other species as in the preceding sample.
- 350 - 360. Sample composed of fragments of finely granular, brown, porous dolomite and of a white, brown-streaked, partially dolomitized chalk. A few specimens of *Coskinolina cookei* and a few other forams present as above.
- 360 - 370. Sample almost entirely composed of finely granular, somewhat porous, brown dolomite. A few fragments of carbonaceous material present.
- 370 - 380. Like the preceding.
- 380 - 390. Sample mainly composed of a coquina, altered and partially calcitized apparently by percolating waters; many traces of fragments of large fossils and small forams, generally too highly altered for identification. Many small *Miliolid* forms noted and *Globorotalia* sp. as above.
- 390 - 400. Sample mainly composed of fragments of a brown, crystalline, somewhat porous limestone.
- 400 - 420. Sample composed of about 50 % moderately coarse grained, sub-angular, clear quartz sand, and about 50 % small fragments of light brown limestone and finely granular dolomite. Some forams present. Species common to the fossiliferous horizons of the *Coskinolina* zone, including small specimens of *Coskinolina* and *Lituonella*. Some of these may be coming from higher depths.
- 420 - 430. Sample mainly composed of fragments of brown limestone and many fragments of brown, carbonaceous shaley clay. About 25 % uneven grained, clear quartz sand. A few forams as in the preceding sample.
- 430 - 440. Sample composed of fine clear quartz sand and about 50 % small fragments of brown lime and of finely granular brown dolomite; some fragments also of brown, carbonaceous clay and a few forams as above. The forams are probably coming down the hole.
- 440 - 450. Sample almost entirely composed of fragments of brown, partially granular limestone, some sand and a very few forams as above.
- 460 - 490. Sample mainly composed of very coarse, clear quartz sand and about 25 % small nodules of a limestone composed of masses of small foraminifera, calcitized and badly altered. Also a number of fragments of brown, fibrous plant material. The forams forming the limestone show the same fauna as that mentioned in the sample from 230 - 240.
- 490 - 500. Sample composed of fragments of a brown crystalline limestone and of a cream colored, very porous, partially crystalline lime. Some of the fragments composed of porous masses of minute oolites resembling fish scales.

olina cockei.

- 500 - 510. Sample mainly composed of brown crystalline lime and cream colored, porous limestone as at 490 - 500. A few specimens of *Coskinolina*, probably from higher depths.
- 510 - 520. Sample mainly of fragments of cream colored, highly porous limestone, with many fragments ~~of~~ showing the finely oolitic appearance mentioned above at 490 - 500 feet. The lime was probably fossiliferous originally but has been so highly altered that only faint traces of the structure can be occasionally seen.
- 520 - 530. Like the preceding.
- 530 - 540. Sample composed of white, somewhat porous, chalky limestone and some ~~of~~ fragments of dense, light brown, limestone. A few of the chalky limestone fragments show fine streakings of carbonaceous material.
- 540 - 550. Like the preceding.
- 550 - 560. No change.
- 560 - 570. Sample composed of cream colored, chalky, very porous limestone, some fragments of dense, light brown limestone.
- 570 - 580. Like the preceding.
- 580 - 590. Sample mainly composed of fragments of deep cream colored, very porous granular, crystalline limestone and some pebble-like fragments of brownish gray limestone. A few casts of fragments of large fossils noted.
- 590 - 600. Like the preceding.
- 600 - 610. No change.
- 610 - 620. No change.
- 620 - 630. Sample composed of fragments of light brown stained, highly porous, slightly granular limestone, many of the fragments being finely oolitic in appearance.
- 640 - 650. Fragments of a light cream colored, porous, partially crystalline lime.
- 650 - 660. Fragments of a brown stained, very porous, granular, crystalline lime. Many of the fragments have the finely oolitic appearance mentioned above.
- 660 - 670. Fragments of white, very porous limestone.
- 670 - 680. Like the preceding.
- 680 - 690. No change.

- 710 - 720. Fragments of a hard, white, irregularly porous, irregularly crystalline limestone.
- 720 - 730. Like the preceding.
- 730 - 740. Fragments of a brown stained, highly porous, irregularly crystalline limestone. Some of the more chalky fragments show thin streaks of carbonaceous material ( plant stem structure ).
- 740 - 750. Like the preceding.
- 750 - 760. Like the preceding.
- 760 - 770. Fragments of a white irregularly porous limestone.
- 770 - 780. Like the preceding.
- 780 - 790. No change.
- 790 - 800. No change.
- 800 - 810. Like the preceding, with some sand, possibly from higher depths, and a few Orbitoids, clearly coming from much higher depths.
- 810 - 820. Fragments of an irregularly porous and irregularly crystalline white lime.
- 820 - 830. No change.
- 830 - 840. No change.
- 840 - 850. Similar to the preceding, many of the fragments very finely porous and very finely oolitic at this depth.
- 850 - 860. Like the preceding.
- 860 - 870. No change.
- 870 - 880. Fragments of a finely porous, white limestone.
- 880 - 890. Like the preceding.
- 890 - 900. Fragments of white limestone as above, also many fragments of a deep cream colored, highly altered ( calcitised ) coquina.
- 900 - 910. Like the preceding.
- 910 - 920. A highly porous, highly altered, coquina-like, white limestone, showing occasional traces of what appears to be structure, or outline that suggests an original high fossil content. No determinable fossils seen.
- 920 - 930. Like the preceding.

all the  
1688  
Bull. A. G. S.  
Vol. 23, #1  
1941

present.

- 950 - 960. Fragments of white, irregularly porous limestone, with some light brown crystalline quartz ? imbedded in the lime fragments.
- 960 - 970. Like the preceding. Faint traces of structure, indicating an original fossil content noted on some of the lime fragments. Large crystals of light brown quartz ? imbedded in some of the lime fragments.
- 970 - 980. Like the preceding. Clusters of quartz ? crystals very common at this depth.
- 980 - 990. Like the preceding. Many large clusters of colorless quartz and some fragments of brown chert and a small amount of chalcedony. A number of pieces of brown, carbonaceous clay also present.
- 990 - 1000. Sample mainly composed of fragments of a dense white limestone and some fragments of dark brownish-gray carbonaceous clay; nodular clusters of quartz crystals as above, often partially coated with a black substance. Some chert also present.
- 1000 - 1010. *Top fossiliferous Lake City L.S. - Early Middle Eocene.*  
Lime and some clay fragments like the preceding. Large fragments of chert and chalcedony also common. Some clusters of clear quartz crystals
- 1010 - 1020. Fragments of a white, somewhat porous limestone; many fragments of chalcedony; some nodular clusters of quartz crystals and a few fragments of brown, finely granular dolomite. A few fragments of the carbonaceous clay as above. *One doubtful specimen of Dictyoconus guntzii. Americanus*
- 1020 - 1030. Fragments of a cream colored, porous, much altered limestone, which was originally probably a coquina of forams and shell fragments. Some quartz chert and chalcedony as above.
- 1030 - 1040. Fragments of a somewhat porous white limestone, also some chert, quartz and chalcedony as above.
- 1040 - 1050. Fragments of a white, somewhat porous, altered limestone, occasionally showing faint traces of fossils originally present. One cross section of the outline of a Rotalid foram present. Brown and dark gray chert fairly common.
- 1050 - 1060. Fragments of a white, somewhat porous limestone and many fragments of dark brown chert.
- 1060 - 1070. Like the preceding.
- 1070 - 1080. Sample composed mainly of fragments of a light brown, porous, in part dolomitic limestone; some crystalline quartz nodules and some chert and chalcedony present also. Many fragments of white limestone as above.
- 1080 - 1090. Similar to the preceding with about 5% ...

1000-1020  
Dolomite  
Mica  
Coquina



marked amount of selenite in veins and pockets

- 1110 - 1120. Fragments of a white, irregularly porous limestone with some selenite. The limestone fragments occasionally give faint evidence of fossils having been present before percolating waters altered the limestone.
- 1120 - 1130. Fragments of a tan colored, finely porous limestone and some white limestone as in the preceding sample. About 10 % selenite present.
- 1130 - 1140. Like the preceding.
- 1140 - 1150. No change.
- 1150 - 1160. Fragments of a white chalky limestone and of a white and deep cream colored, finely porous and probably originally highly fossiliferous limestone. Some gypsum as above. One very poorly preserved fragment of a specimen of *Dictyoconus garteri*. Americanus
- 1160 - 1170. *Dictyoconus* Mainly fragments of the deep cream colored to light brown, highly porous limestone. A small amount of selenite. Faint suggestions of fossil structure occasionally seen. One broken and highly dolomitized fragment of the thick, strongly beaded *Amphistegina* sp., which usually accompanies the *Dictyoconus* fauna. lopatrigoi  
(Sacc. p. 3)
- 1170 - 1180. Material like the preceding with some fragments of carbonaceous material and a small amount of selenite. No determinable fossils seen. Bank. AAT  
Vol. 28 #11  
1924
- 1180 - 1190. Like the preceding.
- 1190 - 1200. Sample composed mainly of brown, irregularly porous limestone; some brown chert; a number of nodules of crystalline quartz. A few fragments of carbonaceous material.
- 1200 - 1210. Fragments of a finely granular, dolomitic, brown limestone forms the major portion of the sample at this depth, with some pieces of the porous brown limestone and white limestone from above also present.
- 1210 - 1220. Fragments of a dense, light brown limestone and of a white porous limestone form the bulk of the sample.
- 1220 - 1230. Fragments of light brown and cream colored limestone, irregularly porous and occasionally streaked with carbonaceous material; some fragments of brown carbonaceous clay also present.
- 1230 - 1240. Fragments of a light brown, dolomitic, irregularly porous limestone forms the major content of this sample.
- 1240 - 1250. Like the preceding, with a number of nodules of crystalline quartz and some large chert fragments present.

- 1270 - 1280. Fragments of a deep cream colored, dolomitic lime formé the major portion of this sample. A small amount of selenite and some brown carbonaceous clay also present.
- 1280 - 1290. Similar to the preceding, but with the crystals in the lime larger than in the previous sample.
- 1290 - 1300. Like the preceding.
- 1300 - 1305. Material as above. Also many fragments of a coarse grained, dark grayish brown, porous dolomite ? and some brown chert fragments.
- 1305 - 1315. Materials like the preceding, but finely broken
- 1315 - 1330. Finely broken fragments of a white, porous, soft limestone mixed with about 50 % uneven grained sand, which may or may not belong at this depth. Some forams from much higher depths present.
- 1330 - 1335. Finely ground fragments of a white porous limestone, and about 25 % sand as above. The few forams note have apparently come down the hole from higher horizons.
- 1335 - 1340. Larger fragments of a cream colored lime and about 25 % sand as above. Some fragments of dolomitic lime also present. A few forams present but apparently not indigenous to this depth. The species seen were characteristic of much higher horizons.
- 1340 - 1350. Fragments of a moderately fine grained, light brown dolomite and some large fragments of the cream colored chalky lime as above.
- 1350 - 1360. Sample almost entirely composed of light brown dolomite.
- 1360 - 1370. Like the preceding.
- 1370 - 1380. No change.
- 1380 - 1390. No change.
- 1390 - 1400. Like the preceding, with some mixing of materials from higher depths.
- 1410 - 1420. Small fragments of a porous, cream colored, chalky lime and some fragments of the dolomite as above. About 25 % clear, angular, uneven grained quartz sand.
- 1420 - 1430. Small fragments of material like the preceding, with some fragments of carbonaceous material and some of the lime fragments stained and partially coated with a thin wash of carbonaceous material.
- 1430 - 1440. Fragments of light brown, dolomite and of cream colored, chalky lime also some fragments of other limestone from various depths up the hole.

- 1450 - 1460. Like the preceding, and also a few fragments of carbonaceous material.
- 1460 - 1470. Very fine fragments of a chalky white limestone and about 50 % very fine, angular, clear quartz sand.
- 1470 - 1480. Like the preceding. A few specimens of Globigerina present, which may have come from higher depths, since some larger forms, definitely from much higher depths are present.
- 1480 - 1500. No change.
- 1500 - 1560. Moderately large fragments of a white, porous limestone and of a dense, dull brown limestone. No indigenous forms noted.
- 1593 - 1601. Gora and a few fragments of anhydrite, fine dolomite and selenite. ✓
- 1600 - 1610. Fragments of cream colored, porous limestone and of brown, dense limestone. A number of specimens of Coskinolina present, which are probably coming down the hole, since some specimens of Camerina sp. and Lepidocyclina species as at much higher depths are also present.
- 1610 - 1620. Fragments of a porous, semi-crystalline, cream colored limestone, and of the white, chalky, porous, originally fossiliferous, altered limestone as above. Some forams from higher depths present as above.
- 1620 - 1640. Like the preceding.
- 1640 - 1650. No change.
- 1650 - 1660. No change.
- 1660 - 1670. No change.
- 1670 - 1680. No change. Approx. top Oldsmar l.s. (Lower Eocene.
- 1680 - 1690. Sample mainly composed of fragments of dull brown, dense lime, and brown, dolomitic limestone, also some fragments of cream colored, porous lime. A few poorly preserved specimens of smaller foraminifera of indefinite origin.
- 1690 - 1700. Like the preceding.
- 1700 - 1710. No change.
- 1710 - 1720. No change.
- 1720 - 1730. Like the preceding. Most of the fragments are iron stained.
- 1730 - 1750. Fragments of brown, dense lime and of cream colored porous limestone.

"Believed to be from 2005 feet". Large fragment of rock. Hard, brown, coarsely crystalline dolomite.

2117 - 2136. Fragments of a grayish white, chalky clay, showing many small, rounded, ball-shaped, dark gray inclusions. The same material, which is partially pyritic, fills the worn casts of some small fossils and forams, but no determinable forms noted.

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E. R. Applin.

Mr. Robert B. Campbell,  
603 Wallace S. Bldg.,  
Tampa, Florida.

June 25, 1936.

LIST OF SPECIES

OIL DEVELOPMENT COMPANY OF FLORIDA.  
SOUTH LAKE WELL  
SEC. 17 - T24S - R25E.  
LAKE COUNTY, FLORIDA.

-----  
Eocene. JACKSON FORMATION. Ocala Limestone.

65' - 90'

*Sphaero*

*Gypsina globula* (Yeuss)  
*Textularia* cf. *dibollensis* var.  
*Heterostegina ocalana*.  
*Rotalia* sp. (Cushman) *cushmani*.  
*Miliola saxorum*  
*Reussella sculptilis*  
*Cibicides pseudoungerianus*  
*Anomalina* sp. (new?)

*Colum. p. 143. Jour. Geol. Vol. 19, no. 2, 1915.*

*Lepidocyclina floridana*.  
*Lepidocyclina attenuata*.  
*Discorbis globulo-spinosa*.  
*Eponides jacksonensis*.  
*Nonion* cf. *scaphum*.  
*Eponides ocalana*.  
*Nonion chapopotensis* var.  
*Cibicides* sp. (new?)

*Valvulina ocalana*.

Eocene. JACKSON FORMATION. SECOND FOSSILIFEROUS ZONE.  
("CAMERINA ZONE", CUSHMAN'S "LARGE MAMMULITES ZONE")

90' - 170'

*Lepidocyclina floridana*  
*Lepidocyclina ocalana*.  
*Camarina* sp. *willcoxi* (Heilprin)  
" *stratoreticulatus*.

*Gypsina globula*.  
*Operculina ocalana* var.  
*Gypsina globulosa*.

A few small foraminifera as in the higher zone. Some of these may be coming down the hole.

Eocene. "MIDDLE Eocene", *Axon Park L.S.* COSKINOLINA ZONE.

170' - 500±?

Considered the upper portion of the Middle Eocene (Claiborne) by Douville.

This zone usually begins with a Miliolid limestone, but here, as in some other wells in central Florida, the limestone and the Coskinolinas seem to appear simultaneously. Common species present are:-

*Dietyocenus*  
*Coskinolina cooki* (abundant).  
*Quinqueloculina* sp. (two large forms)  
*Haplophragmoides* sp. (Cushman).  
*Litocia wateryi* (Appin & Jordan)  
*Textularia sublaevis*.  
*Massilina* sp. (very large form).  
*Litocella* cf. *litocella floridana*  
*Valvulina* ? sp. (very large form).  
*Cribrotextularia cotyensis* (Cole)

Fauna of small foraminifera common to some horizons in the zone and also accompanying the large forms at some horizons.

*Rotalia* cf. *soldani* var. *octocamerata* *Globigerina* cf. *dubia*.

middle

Lake City I.S.  
1010' ? — 7

EOCENE. "OLDER EOCENE". DICTYOCONUS ZONE.

This middle division of the Eocene was called "Older Eocene" in the Lawson Well by Douville', and in the South Lake Well is questionably represented by two very poor specimens:-

americanus  
Dictyoconus sockei  
Amphistegina n. sp.

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#### COMPARISON OF SOUTH LAKE WELL AND LAWSON WELL.

The Citronelle 7 Formation in which the South Lake well begins, was not present in Cosden's No. 1 Lawson, Marion Co., Fla. In the Lawson well, samples began at 100 feet, and from 100 to 120 feet showed the fauna characteristic of the Ocala Limestone. At 120 feet in the Lawson well the Camerina Zone ("Large Mammulites Zone"), the second fossiliferous zone of the Jackson, was first definitely recognized.

In the Lawson well, from 205 - 225 feet, the ~~white~~ Milliolid limestone was present, not accompanied by Coskinolinas. At 225 feet the Coskinolinas entered the fauna, and at 270 - 280 feet a fauna similar to that seen in your well at 340 feet was present. This fauna continued in the Lawson well to 360 feet, where a non-fossiliferous, altered, generally dolomitized series of limestones began and continued without interruption to 905 feet. These limestones contained a varying amount of chert, and in the lower portion, a considerable amount of chalcedony and crystalline quartz was noted. At 875 feet considerable carbonaceous material was present, and some of this was continually noted down to 905 feet, where a white, water-worn limestone appeared, carrying a few specimens of Dictyoconus.

This Dictyoconus Zone, or middle zone of the Eocene, came in strong in the Lawson well at 915 feet, accompanied by a number of distinctive species of the smaller foraminifera, and many specimens of a large, well ornamented, new species of Amphistegina which also characterizes this zone.

I was much disappointed to find that in the South Lake Well this zone had apparently been so greatly altered by percolating waters acting on the limestone as to make even the suggestion of the zone questionable. I believe the conditions which practically obliterated this zone in the South Lake well, are probably local, since it has been recognized in other wells drilled deep enough to reach it in central and even in a part of western Florida.

The Dictyoconus Zone was well represented in the Lawson well down to 1035 feet, and sparsely shown down to 1095 - 1105 feet, where ~~the~~ a fauna dominated by *Robulus* cf. *alato-limbata* appeared. The fauna was again sparse to 1275 - 85

Lithology Log

OWNER : Oil Development Co. of Florida  
FARM NAME : J. Ray Arnold #1  
LOCATION : 535' from S line, 895' from E line  
SE<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>, Sec. 17, T24S, R25E  
12 miles south of Groveland.  
COUNTY : Lake  
ELEVATION : 113.66  
CONTRACTOR : Sam E. Wilson, Jr., ElDorado, La.  
STARTED : February 26, 1935  
COMPLETED : (Inactive since May 13, 1937)  
DEPTH : 6129'  
CASING : 130' of 16"; 510' of 12"; 2200' of  
40 lb. 9 5/8"  
USE :  
REMARKS : Driller's log from 0-1947'. Schl.  
from 2200-6113'. Schl. from Ri  
(No. 1 abandoned at about 500' of  
trouble) 548 samples 0-5600'.  
samples brought in by S. A. Stuk  
and J. C. Simpson given them by  
Wm. G. Blanchard, May 16, 194  
2258-3833.

0 - 45 Sand, loose, medium to medium-coarse, with muscovite and a trace of  
light feldspar.  
45 - 60 No sample.  
60 - 62 Sand, as above.  
62 - 64 Shale, gray, fine and rather blocky.  
64 - 75 Dolomite, tan-gray, fine to compact, vesic.  
75 - 90 Limestone, light gray, fine very fossiliferous.  
90 - 95 No sample  
95 - 120 Limestone, as above.  
120 - 125 No sample.  
125 - 170 Limestone, as above.  
170 - 190 Limestone, brown-gray, detrital-fossiliferous, porous.  
190 - 200 No sample.  
200 - 210 Limestone, as above.  
210 - 240 Dolomite, tan, very fine and porous to rather compact and slightly porous,  
fossiliferous; little satin spar.  
240 - 260 No sample.  
260 - 270 Dolomite, similar to above but lighter, with scattered selenite.  
270 - 280 No sample.  
280 - 290 Dolomite, light brown, very finely rhombic to slightly specular, porous

- 300 - 310 Limestone, light tan-gray, very fine and rather chalky, dolomitic.  
310 - 320 No sample.  
320 - 330 Limestone, as above; more granular, porous and fossiliferous.  
330 - 350 No sample.  
350 - 355 Limestone, as above, with scattered dolomite rhombs.  
355 - 375 Dolomite, light brown and light brown-gray, finely rhombic, porous.  
375 - 380 Limestone, as above, but not dolomitic.  
380 - 385 Dolomite, light tan-gray, compact but slightly vesic.  
385 - 390 Dolomite, light brown, very finely rhombic to rather specular, slightly porous.  
390 - 400 No sample.  
400 - 425 Dolomite, as above; little light gray, compact dolomite.  
425 - 430 Limestone, white, chalky, soft, very dolomitic.  
430 - 437 Dolomite, brown, very fine, earthy and soft, part argillaceous.  
437 - 440 Lignite and black, lignitic shale.  
440 - 470 No sample.  
470 - 490 Dolomite, light tan-gray, very fine to compact but most very vesic. Trace of light brown, finely rhombic dolomite. Trace of gray, mottled and banded, impure chert.  
490 - 500 No sample.  
500 - 530 Dolomite, as above, nearly tan-white; trace of chert, as above.  
530 - 560 Dolomite, brown, very finely crystalline, very hard; little white dolomite, as above.  
560 - 570 No sample.  
570 - 580 Dolomite, tan-white, as above; little brown dolomite.  
580 - 590 No sample.  
590 - 610 Dolomite, tan, finely crystalline, porous, apparently grading to nearly white, vesic dolomite, as above; few clusters of radially-oriented quartz crystals.  
610 - 620 No sample.  
620 - 640 Dolomite, similar to above.  
640 - 650 No sample.  
650 - 680 Dolomite, similar to above.  
680 - 690 No sample.  
690 - 710 Dolomite, as above.  
710 - 720 No sample.  
720 - 760 Dolomite, as above.  
760 - 770 No sample.  
770 - 780 Dolomite, as above, not quite so porous.  
780 - 800 No sample.  
800 - 820 Dolomite, similar to above but not quite so fine; some light brown, finely crystalline, vesic dolomite; few irregular clusters of quartz crystals.  
820 - 840 Dolomite, light tan-gray, very finely crystalline, sub-rhombic, vesic.  
840 - 930 Dolomite, tan-white, very fine and very vesic.



- 940 - 965 Dolomite, as above, part nearly white; trace of crystalline quartz at base  
965 - 980 Dolomite, light tan-gray, very fine and rather chalky; scattered crystals of brown, clear calcite.
- 980 - 985 Dolomite, brown, very fine, earthy and argillaceous, grading to black, dolomitic, lignitic shale.
- 985 - 1010 Dolomite, light tan-gray, compact, with clusters of clear quartz crystals and with a little brown, translucent chert.
- 1010 - 1025 Shale, dark brown-gray, soft, platy, dolomitic, sub-lignitic. Dolomite, light brown-gray, fine, part crystalline and slightly vesic; little crystalline quartz and calcite.
- 1025 - 1045 Dolomite, light tan-gray, very finely crystalline, very vesic; brown, clear calcite crystals and a few quartz crystals.
- 1045 - 1050 Dolomite, similar but whiter and finer; chert, dark brown and brown, translucent to nearly opaque.
- 1050 - 1070 Dolomite, light brown-gray, finely crystalline, slightly vesic but hard; few brown calcite crystals.
- 1070 - 1080 Dolomite, nearly white, compact, hard, vesic.
- 1080 - 1185 Dolomite, ditto; mostly dolomite, light brown-gray, fine vesic; few brown calcite crystals and much clear selenite, crystalline gypsum and a little satin spar; carbonaceous spots at top.
- 1185 - 1200 Dolomite, light brown-gray, very fine, earthy, part shaly and thinly laminated. Dolomite, light gray, compact, vesic. Dolomite, light brown, finely crystalline, vesic; much crystalline quartz, grading to light brown, translucent chert.
- 1200 - 1210 Dolomite, light brown-gray, finely crystalline and rather rhombic, slightly vesic; irregular carbonaceous streaks at top; few brown calcite crystals.
- 1210 - 1220 No sample.
- 1220 - 1225 Dolomite, as above, with some clear selenite.
- 1225 - 1240 Dolomite, light brown, finely crystalline, vesic, with brown calcite crystals.
- 1240 - 1260 Dolomite, tan-gray, very fine, slightly vesic, softer than above.
- 1260 - 1270 No sample.
- 1270 - 1280 Dolomite, brown, finely crystalline, sub-specular and most tight. Some dolomite, light brown-gray, very fine with a trace of brown, translucent chert.
- 1280 - 1305 No sample.
- 1305 - 1315 Dolomite, brown-gray, medium-finely rhombic, "sub-fused", porous, with much chert, brown to dark brown-gray, translucent to opaque.
- 1315 - 1340 Dolomite, light tan-gray, fine, slightly crystalline, slightly vesic.
- 1340 - 1350 No sample.
- 1350 - 1400 Dolomite, brown to light brown-gray, medium-finely crystalline and sub-specular, grading to rhombic, "sub-fused", porous dolomite.
- 1400 - 1410 No sample.

- 1410 - 1460 Dolomite, tan-white, very fine to compact, tight to slightly vesic; vesic and not so fine at base.
- 1460 - 1470 No sample.
- 1470 - 1500 Dolomite, as above, but darker, harder and more crystalline.
- 1500 - 1601 No sample.
- 1601 - 1605 Dolomite, brown to dark brown, compact, hard.
- 1605 - 1620 Dolomite, light tan-gray, finely crystalline, part sub-specular, porous.
- 1620 - 1630 Dolomite, brown, compact, hard, slightly vesic.
- 1630 - 1670 No sample.
- 1670 - 1690 Dolomite, light tan-gray, fine to finely crystalline, vesic. (Poor sample)
- 1690 - 1700 No sample.
- 1700 - 1710 Dolomite, as above. (Poor samples)
- 1710 - 1720 No sample.
- 1720 - 1735 Dolomite, light tan-gray, medium-finely crystalline, sub-specular, vesic.
- 1735 - 1745 Dolomite, brown, compact, hard, slightly vesic.
- 1745 - 1780 Dolomite, brown to light brown, fine to finely crystalline, rather hard, vesic.
- 1780 - 1810 Dolomite, probably as above. (Poor samples, unwashed)
- 1810 - 1820 No sample.
- 1820 - 1850 Dolomite, light tan-gray, fine. (Poor samples, pulverized, unwashed.)
- 1850 - 1878 No sample .
- 1878 - 1958 One core sample, 1878-1947': Limestone, white, firm, very fine, rather chalky with scattered brown, medium to medium-coarse dolomite rhombs  
Core chips, 1947-58': Limestone, similar, but compact, hard, slightly porous and very slightly dolomitic.
- 1958 - 1967 No sample.
- 1967 - 1978 Dolomite, dark brown-gray to brown, medium-finely crystalline, sub-specular to sub-rhombic, slightly porous.
- 1978 - 1988 Core: Dolomite, light gray, slightly buff, lithographic, with a few dolomite rhombs.
- 1988 - 2000 Core: Dolomite, brown, finely crystalline, sub-specular, with drusy vugs.
- 2000 - 2005 Core: Dolomite, ditto, coarser and darker.
- 2005 - 2010 Core: Dolomite, light gray to buff, very finely crystalline, sub-sucrose, hard,
- 2010 - 2014 Core: Dolomite, brown, finely sucrose, soft, porous.
- 2014 - 2045 Core: Dolomite, dark brown-gray, very finely crystalline, very hard: middle and bottom parts are tan-gray, very finely crystalline to compact with drusy dolomite vugs.
- 2045 - 2258 No sample.
- 2258 - 2283 Core: Dolomite, gray, finely granular, firm, mottled. Shale, gray to dark gray, fine, firm, very dolomitic and grades to light gray, limey dolomite with few shells.

- 2283 - 2345 Core: Dolomite, gray, fine, shaly. Dolomite, finely sucrose, clean, porous. Dolomite, nearly white, very fine, soft: incompletely altered miliolid limestone. Dolomite, dark brown, soft, very finely sucrose, very porous. Dolomite, very light gray, very fine, incompletely altered limestone; few ostracods and shells.
- 2345-2375 No sample.
- 2375 - 2380 Core: Dolomite, very light gray, chalky.
- 2380 - 2391 Core: Dolomite, ditto but darker.
- 2391 - 2397 Core: Dolomite, ditto but hard and with selenite.
- 2397 - 2402 Core: Dolomite, very fine, limey, fossiliferous, with a little selenite.
- 2402 - 2410 Core: Dolomite, ditto; abundant selenite.
- 2410 - 2418 Core: Dolomite, light brown-gray, very finely sucrose, non-vesic; trace of selenite.
- 2418 - 2425 No sample.
- 2425 - 2434 Core: Dolomite, as above; abundant crystalline gypsum or anhydrite at top.
- 2434 - 2442 Core: Dolomite, buff-gray, hard, very fine. Anhydrite, light gray, finely crystalline.
- 2442 - 2445 Core: Dolomite, gray to light gray, very finely sucrose, rather earthy and soft, with a little anhydrite.
- 2445 - 2470 Core: Dolomite, ditto, with spots of blue-white, finely crystalline anhydrite.
- 2470 - 2482 Core: Dolomite, and anhydrite, ditto.
- 2482 - 2515 Core: Dolomite, ditto; middle and bottom nearly solid anhydrite.
- 2515 - 2570 Core: (One sample): Anhydrite and dolomite, ditto.
- 2570 - 2576 Crushed sample: Dolomite, light gray, very finely crystalline and sub-sucrose, slightly mottled.
- 2576 - 2593 Core: Dolomite, very light gray, very fine; some brown, very finely crystalline hard anhydrite at top and a trace of selenite below; abundant Borelis in middle and bottom portions.
- 2593 - 2618 Core: Dolomite, tan to light brown-gray, very finely sucrose, with selenite and white, crystalline gypsum.
- 2618 - 2623 Core: Dolomite, ditto, with anhydrite.
- 2623 - 2651 Core: Anhydrite, light gray to colorless, finely crystalline, hard, with a little dolomite.
- 2651 - 2680 Core: Dolomite, light tan-gray, fine, porous, with selenite, satin spar and crystalline gypsum; light gray anhydrite at base; few Borelis.
- 2680 - 2696 Core: Anhydrite, as above, at top and at bottom; remainder, dolomite, light gray, very fine, sub-sucrose, with a little selenite.
- 2696 - 3074 No sample.
- 3074 - 3077 Core: Dolomite, brown-gray, very fine, earthy, argillaceous, with a few selenite crystals.
- 3077 - 3080 No sample.

- 3105 - 3115 Core: Dolomite, brown-gray, fine, rather granular; rather earthy with much white satin spar and crystalline gypsum at bottom; few Borelis.
- 3115 - 3118 Core: Dolomite, light tan-gray, granular and with abundant loose dolomitized Borelis.
- 3118 - 3120 Core: Dolomite, ditto, softer, coarser; Borelis less well preserved.
- 3120 - 3123 Core: Dolomite, ditto.
- 3123 - 3127 Core: Dolomite, ditto, porous but slightly argillaceous, little satin spar.
- 3127 - 3131 Core: Dolomite, ditto; mottled.
- 3131 - 3143 Core: Dolomite, light gray, with some white, crystalline gypsum; few Borelis.
- 3143 - 3164 Core: Dolomite, light tan-gray, with anhydrite blebs; Borelis.
- 3164 - 3168 Core: Dolomite, gray, compact, hard.
- 3172 - 76 No sample.
- 3176 - 3180 Core: Dolomite, light tan-gray, finely sucrose, soft, with a little gypsum; slightly oolitic (?) with a few Borelis.
- 3180 - 3196 Core: Dolomite, light gray, porous to tight, with crystalline gypsum in interstices; oolitic (?).
- 3196 - 3208 Core: Dolomite, gray, very fine to compact, hard; streaks oolitic (?).
- 3208 - 3224 Core: Dolomite, similar to those immediately preceding.
- 3224 - 3229 Core: Dolomite, similar with uniformly oriented selenite; oolitic (?) and abundant Borelis.
- 3229 - 3240 Core: Dolomite, gray, very fine, earthy, argillaceous, tight, slightly anhydritic.
- 3240 - 3248 Core: Dolomite, similar but lighter and non-argillaceous; bed of anhydrite at top.
- 3248 - 3256 Core: Dolomite, light gray, rather chalky but firm, very finely vesic.
- 3256 - 3268 Core: Dolomite, light brown, very finely crystalline and finely vesic but firm; little anhydrite.
- 3268 - 3278 Core: Dolomite, similar but light brown-gray.
- 3278 - 3282 Core: Dolomite, brown, tight with gypsum and anhydrite matrix; large oolites (?) (Borelis?).
- 3282 - 3290 Core: Dolomite, ditto, but brown-gray to gray.
- 3290 - 3335 Core: Dolomite, light brown-gray, generally oolitic (?) and porous, with a little gypsum.
- 3335 - 3345 Core: Dolomite, gray to light gray, finely crystalline, hard, vesic with little gypsum.
- 3345 - 3375 Core: Dolomite, brown-gray, fine, generally oolitic (?) and porous with a little crystalline anhydrite; thinly laminated and shaly at bottom.
- 3375 - 3407 Core: Dolomite, gray, banded, argillaceous to shaly, especially at base.
- 3407 - 3413 Core: Dolomite, gray, medium-finely crystalline, sub-specular and vesic, argillaceous (?).
- 3413 - 3456 Core: Dolomite, brown, medium-rhombic, porous, fossiliferous;

- 3456-3474 Core: Limestone, nearly white, with scattered brown dolomite rhombs and a trace of anhydrite; part fossiliferous and calcitic.
- 3474 - 3483 Core: Dolomite, brown, medium-crystalline and sub-specular to sub-rhombic, with a few tight vugs.
- 3483 - 3494 Core: Limestone, light gray, fine, dolomitic, with many dolomite rhombs; banded structure.
- 3494 - 3510 Core: Limestone, similar but nearly white, with brown, fibrous dolomite.
- 3510 - 3514 Core: Limestone, tan-white, very fine to compact, firm, slightly dolomitic, with many orbitoids (Sample may be out of place, too high).
- 3514 - 3562 Core: Limestone, nearly white, very similar to that in interval 3494-3510'.
- 3562 - 3564 Core: Limestone, as in interval 3510-14', with many orbitoids.
- 3564 - 3568 Core: Dolomite, white, chalky, with much satin spar.
- 3568 - 3583 Core: Dolomite, light brown to brown, medium-rhombic, very porous.
- 3583 - 3598 Core: No sample.
- 3598 - 3638 Core: Limestone, light brown-gray, granular, very dolomitic, very fossiliferous; orbitoids.
- 3638 - 3652 Core: Limestone, ditto, but finer, grading to compact, dolomitic; few orbitoids.
- 3652 - 3666 Core: Limestone, tan-gray, granular, dolomitic, fossiliferous.
- 3666 - 3710 Core: Limestone, ditto but very fine, nearly white and very chalky; orbitoids and a little white, crystalline gypsum at bottom.
- 3710 - 3715 No sample.
- 3715 - 3785 Core: Limestone, as above, with some dolomite, light brown, finely crystalline and part sub-sucrose, hard and very slightly vesic, orbitoids.
- 3785- 3795 Core: Dolomite, light brown, very finely sucrose, slightly vesic; little anhydrite.
- 3795 - 3810 Core: Limestone, as above, part very white and chalky.
- 3810 - 3815 Core: Dolomite, as above.
- 3815 - 3831 Core: Limestone, as above.
- 3831 - 3833 Core: Dolomite, as above, but softer and more sucrose.

LOCATION : 535' from S line, 875' from E line  
 SE $\frac{1}{4}$  of SE $\frac{1}{4}$ , Sec. 17, T24S, R2  
 12 miles south of Groveland.  
 FARM NAME : J. Ray Arnold # 1  
 COUNTY : Lake  
 ELEVATION : 113.66  
 CONTRACTOR : Sam E. Wilson, Jr., Eldorado,  
 STARTED : February 26, 1935  
 COMPLETED : (Inactive since May 13, 1937)  
 DEPTH : 6129'  
 CASING : 130' of 16"; 510' of 12"; 2200' of  
 lb. 9 5/8"  
 USE :  
 REMARKS : Driller's log from 0-1947'. Schl.  
 from 2200 to 6113'. Schl. from  
 Riley's. (No. 1 abandoned at about  
 500' caving trouble) 548 samples  
 from 0-5600'. 217 samples brou  
 in by S. A. Stubbs and J. C. Sim  
 son given them by Wm. G. Blanc  
 ard, May 16, 1941, 2258'- 3833'

2258-83 Core (8' recovery)

(A) Top

Light gray crystocrySTALLINE porous limestone.

(WS-SL) Poorly preserved

Cytheridea sp.

Cytherella sp.

(B) Middle

Same (PS) Ostracoda and aragonite prisms seen on  
 polished surface. (WS-SL) Few

Cythereis sp.

Cytherella sp.

Cytheridea sp.

? Eponides sp.

? Anomalina sp.

All badly crystallized.

(B) Bottom

Dark gray indurated calcareous mudstone. (WS)

Oyster-like shell fragments. Cytherella sp., light  
 gray porous fossil coquina limestone.

2283-2345 Core (25' recovery)

(C) Top #1

Same (PS) Few shell fragments, Cythereia sp., and forams  
 seen on polished surface. (WS-SL) Few badly crystallized  
 forams, ostracods, echinoid plates and spines.

(D) #2

Medium gray, calcareous mudstone with hackly fracture.  
 (WS-SL) Crystallized forams and ostracods, echinoid spine  
 shell (oyster) ? fragments, Cytheridea sp.

- (F) #4 Same. (WS-SL) Triloculina sp.
- (G) #5 Same. (WS-PG) few dolomite agglutinates.
- (H) #6 Bottom Same (WS).
- 2345-52 Core (?' recovery)
- (I) Top Light gray calcareous keolinitic mudstone. (WS) Coarse sand rare oyster fragments, few lignite flakes.
- (J) Bottom Same. (WS) Some sand, few lignite flakes.
- 2352-70 Core (Poor recovery)
- (K) Light gray soft porous limestone. (WS-SL) Few poorly preserved forams and ostracods.
- 2375-80 Core (Poor recovery)
- (L) Same (WS) Few fragments noted.
- 2380-91 Core (M) Same (WS) Same.
- 2391-97 Core (N) Medium gray dense sugar limestone with inclusions of gypsum (WS-SL)
- Triloculina sp.
- Cytherides sp.
- 2397-2402 Core (O) Cream colored porous sugar limestone. (WS) Few
- Cytheridea sp.
- Triloculina sp.
- 2402-10 Core (P) Same, and dense limestone with small oyster fragments in clear calcite matrix (WS) Shell fragments and gypsum crystals present.
- 2410-18 Core (Q) Light gray porous sugar limestone. (WS) Few oyster like fragments noted.
- 2425-34 Core (R) Top Anhydrite.
- (S) Middle Cream colored porous limestone and medium gray argillaceous limestone. (WS) No fossils noted.
- (T) Bottom Light gray porous sugar limestone. (WS) No fossils noted.
- 2434-42 Core (U) Top Anhydrite and dense brown argillaceous limestone.
- (V) Bottom Anhydrite.
- 2442-45 Core (W) Cream colored hard porous sugar limestone with anhydrite lenses. (PS).
- 2445-70 Core (X) Top #1 Cream colored hard porous sugar limestone. (WS).
- (Y) #2 Same with lenses of anhydrite.
- (Z) #3 Cream colored hard porous sugar limestone.
- (AA) Bot. #4 Anhydrite.
- 2470-82 Core (AB) Top Anhydrite.
- (AC) Bot. Anhydrite.
- 2482-2515 Core (AD) Top Cream colored hard porous sugar limestone. (WS).
- (AE) Mid. Anhydrite.
- (AF) Bot. Anhydrite.
- 2515-70 Core (AG) Top Anhydrite with few lense cream colored sugar limestone. (Note on sack states: "Balance solid anhydrite").

	(AJ) Middle	Hard cream colored sugar limestone. (WS).
	(AK) Bottom	Anhydrite and cream colored dense coarsely crystalline limestone. (WS) Numerous <u>Borelis</u> ? (sent to Hanna for report). (Note: Hanna agrees see letter 7/20/36 of MCI)
2593-26180 Core	(AL)	Cream colored porous sugar limestone. (WS) and anhydrite
2618-23 Core	(AM)	Cream colored sugar limestone with few anhydrite inclusions. (WS) (PS) <u>Borelis</u> ?
2623-51 Core	(AN) Top	Anhydrite.
	(AO) Bottom	Anhydrite.
2651-80 Core	(AP) Top	Cream colored porous sugar limestone and more dense cream colored limestone (PS) Some Miliolids; oolitic?
	(AQ) Middle	Cream colored porous sugar limestone. (WS) Gypsum or anhydrite crystals present.
	(AR) Bottom	Anhydrite.
2680-96 Core	(AS) Top	Anhydrite.
	(AT) Middle	Light gray crystalline limestone. (PS) Miliolids?
	(AU) Bottom	Cream colored limestone and anhydrite.
3074-79 Core	(AV)	White quartzite (glistens on fracture surface) and light gray siltstone (WS) Silt, some gypsum.
3080-84 Core	(AW) Top	Medium gray silty calcareous clay. (WS) No fossils noted.
	(AX) Bottom	Cream colored porous limestone. (WS) Gypsum present.
3085-90 Core	(AY)	Coarsely crystallized cream colored limestone and anhydrite (WS).
3105-15 Core	(AZ) Top	Cream colored limestone with gypsum and anhydrite inclusions. (PS) Miliolids and other forams with complex structure.
	(BA) Bottom	Gray to white coarsely crystallized limestone with anhydrite inclusions; one fragment with numerous spheroidal objects. (PS).
3115-18 Core	(BB)	Loosely cemented limestone consisting of spheres.
3118-20 Core	(BC)	Gray porous limestone. (PS) Numerous <u>Borelis</u> ?
3120-23 Core	(BD)	Coarsely crystallized cream colored limestone with anhydrite inclusions. (WS-PS) Abundant <u>Borelis</u> ?
3123-27 Core	(BE)	Cream colored porous limestone. (WS) Gypsum inclusions
3127-31 Core	(BF)	Cream colored porous sugar limestone and banded light and dark gray porous sugar limestone. (WS) Gypsum inclusions
3131-35 Core	(BG)	Cream colored porous sugar limestone and cream colored oolitic limestone with a few <u>Borelis</u> (PS) (WS) Gypsum and anhydrite inclusions.
3135-39 Core	(BH)	Cream colored porous sugar limestone. (WS) Gypsum inclusions (PS) Oolites? and <u>Borelis</u> ?
3139-43 Core	(BI)	Light gray and cream colored porous sugar limestone. (PS) <u>Borelis</u> ? (WS) Gypsum inclusions.
3143-47 Core	(BJ)	Cream colored porous coarsely crystallized limestone.



3151-55 Core	(BL)	Same and gray limestone with lignite particles. (WS) Borelis? <u>Quinqueloculina</u> cast. (PS) Borelis? Algae, Orbitoid?
3155-59 Core	(BM)	Cream colored porous coarse grained limestone (WS) Gypsum inclusions. (PS) Borelis? Bryozoan.
3159-64 Core	(BN)	Same and dense gray limestone. (WS) Gypsum inclusions. (PS) Borelis? Minute Miliolids in dense limestone.
3164-68 Core	(BO)	Cream colored porous coarse grained limestone. (WS) Gypsum inclusions.
3168-72 Core	(BP)	Gray porous sugar limestone. (WS) Gypsum inclusions.
3172-76 Core	(BQ)	Same (WS) Same.
3176-80 Core	(BR)	Cream colored friable porous sugar limestone (WS) <u>Operculinella?</u> Borelis? Miliolid
3180-84 Core	(BS)	Light gray sugar limestone. (WS) Few Miliolids.
3184-88 Core	(BT)	Cream colored porous sugar limestone. (WS) Gypsum and anhydrite inclusions, appears oolitic Miliolid.
3188-92 Core	(BU)	Same. (WS) Same. Miliolid.
3192-96 Core	(BV)	Light gray porous sugar limestone. (WS) Same. Miliolid.
3196-3200 Core	(BW)	Cream colored porous limestone. (WS) Gypsum inclusions (PS) Appears oolitic.
3200-04 Core	(BX)	Same (WS) Same.
3204-08 Core	(BY)	Cream colored oolitic porous limestone. (WS)
3208-12 Core	(BZ)	Light gray oolitic limestone. (WS) Abundant gypsum.
3212-16 Core	(CA)	Same. (WS) Same.
3216-20 Core	(CB)	Same (WS) Same.
3220-24 Core	(CC)	Light gray very porous oolitic limestone. (WS) Abundant gypsum.
3224-26 Core	(CD)	Cream colored oolitic limestone. (WS) Some gypsum or anhydrite. (PS) Borelis?
3226-30 Core	(CE)	Dense gray limestone and cream colored porous oolitic limestone. (WS).
3230-34 Core	(CF)	Gray sugar limestone with gypsum inclusions. (WS).
3234-36 Core	(CG)	Same and cream colored oolitic limestone (WS).
3236-40 Core	(CH)	Dull gray sugar limestone with gypsum inclusions. (WS)
3240-44 Core	(CI)	Cream colored very porous sugar limestone. (WS)
3244-48 Core	(CJ)	Same and gray sugar limestone. (WS).
3248-52 Core	(CK)	Cream colored sugar porous limestone. (WS).
3252-56 Core	(CL)	Same. (WS).
3256-60 Core	(CM)	Same and denser cream colored limestone. (WS) Some gypsum. (PS) Borelis? in denser limestone.
3460-64 Core	(CN)	Cream colored sugar porous limestone. (WS).
3264-68 Core	(CO)	Cream colored porous somewhat oolitic sugar limestone. (WS)

3412-76 Core	(CQ)	Same. (WS)
3276-80 Core	(CR)	Same. (WS) Gypsum inclusions. (PS) Borelis? Miliolid?
3280-84 Core	(CS)	Same. (WS) Same. (PS) Borelis?
3284-88 Core	(CT)	Same. (WS) Same. (PS) Borelis?
3288-92 Core	(CU)	Same, broken with dense gray limestone. (WS).
3292-96 Core	(CW)	Cream colored coarsely crystallized limestone. (WS) Abundant gypsum.
3296-3300 Core	(CX)	Same. (WS) Same.
3300-04 Core	(CY)	Same. (WS) Same. (PS) Miliolid?
3304-08 Core	(CZ)	Dense gray limestone. (WS).
3308-12 Core	(DA)	Cream colored porous sugar limestone. (WS) Abundant gypsum. (PS) Miliolid?
3312-16 Core	(DB)	Same with cavities.
3316-20 Core	(DC)	Dense (WS) Same.
3320-24 Core	(DD)	Cream colored porous sugar limestone. (WS) Gypsum present. (PS) No fossils noted.
3324-28 Core	(DE)	Same. (WS) Same.
3328-34 Core	(DF)	Same. (WS) Same. (PS) Borelis?
3334-40 Core	(DG)	Same. (WS) Same.
3340-46 Core	(DH)	Same. (WS) Same.
3346-51 Core	(DI)	Anhydrite and cream colored porous sugar limestone. (W)
3351-56 Core	(DJ)	Cream colored porous sugar limestone with large anhydrite inclusions. (WS).
3356-60 Core	(DK)	Cream colored porous sugar limestone (WS) Gypsum present. (PS) Miliolid.
3360-65 Core	(DL)	Same. (WS) Same. Miliolid. Borelis?
3365-70 Core	(DM)	Same. (WS) Same. (PS) Borelis?
3370-75 Core	(DN)	Same and banded light and dark gray (Bituminous?) Chalky limestone. (WS of latter) No fossils noted. (PS) of sugar limestone, <u>Quinqueloculina</u> .
3375-80 Core	(DO)	Two types of limestone as above. (WS).
3380-85 Core	(DP)	Peculiar medium gray rock, light in gravity, scratches with finger, effervesces with acid leaving very fine (?) anhydrite sand. (Probably should be called calcareous mudstone.)
3385-90 Core	(DQ)	Interlaminated chalky appearing limestone and mudstone (very thin). (WS) Some gypsum. (PS) No fossils noted.
3390-95 Core	(DR)	Medium gray sugar limestone. (WS) Some gypsum.
3395-3400 Core	(DS)	Light gray porous sugar limestone. (WS) (PS) Gypsum inclusions.
3400-05 Core	(DT)	Medium gray sugar limestone. (WS) No fossils noted.
3405-07 Core	(DU)	Same. (WS) Same.
3407-10 Core	(DV)	Same. (WS) Gypsum present.
3410-13 Core	(DW)	Same. (WS) Same.
3413-15 Core	(DX)	Light gray porous limestone. (WS) Rhombs of yellowish

3417-19 Core	(DZ)	Same. (WS) Same.
3419-25 Core	(EA)	Medium gray sugar limestone. (WS) Some gypsum.
3425-28 Core	(EB)	Brown very porous sugar limestone. (WS) Looks like dolomite, but effervesces freely in cold HCl.
3428-33 Core	(EC)	Same. (WS) Same.
3433-38 Core	(ED)	Same. (WS) Same.
3438-42 Core	(EF)	Same (WS) Same.
3442-46 Core	(EG)	Same, with small anhydrite inclusions. (WS) Same.
3446-50 Core	(EH)	Same. (WS) Same.
3450-54 Core	(EI)	Same (WS) Same.
3454-58 Core	(EJ)	Same. (WS) Same, with abundant gypsum.
3454-62 Core	(EK)	Cream colored porous sugar limestone. (WS) (PS) Bryozoan, calcareous Algae?
3462-70 Core	(EL)	Same. (WS) Same.
3466-70 Core	(EM)	Same. (WS) Same. (PS) Calcareous Algae?
3470-74 Core	(EN)	Same. (WS) Same. (PS).
3474-78 Core	(EO)	Brown porous limestone (WS) Abundant gypsum.
3478-80 Core	(EP)	Same. (WS) Same.
3480-86 Core	(EQ)	Same. (WS) Same.
3486-90 Core	(ER)	Cream colored sugar limestone. (WS) Same.
3490-94 Core	(ES)	Cream colored crystallized porous limestone. (WS) Calcite rhombs. Tabulate structures.
3494-98 Core	(ET)	Same. (WS).
3498-3502 Core	(EU)	More dense porous limestone, large cylindrical object may be echinoid spines; too crystalline to see texture. (WS) (PS) No other fossils noted.
3502-06 Core	(EV)	Cream colored loose sugar limestone. (WS).
3506-14 Core	(EW)	Light gray porous sugar limestone. (WS) (PS) Bryozoan?
3510-15 Core	(EX)	Cream colored loose sugar limestone. (WS) Orbitoides and other forams, echinoid spines. (Orbitoides sent to Hanna). (Note: Cretaceous begin with this sample. See letter 7/20/36 M. C. L. United Gas Public Service Co.)
3514-19 Core	(EY)	Dense appearing white porous limestone. (WS) (PS) Bryozoan.
3519-23 Core	(EZ)	Same. (WS).
3523-28 Core	(FA)	Same (WS) (PS) Worm tubes.
3528-33 Core	(FB)	Same, full of cavities. (WS).
3533-38 Core	(FC)	Same. (WS) (PS) Orbitoids, poorly preserved.
3538-43 Core	(FD)	Same. (WS) Worm tubes.
3543-48 Core	(FE)	Same. (WS) (PS) Orbitoids.
3548-53 Core	(FF)	Same. (WS) Same.
3553-58 Core	(FG)	Same. (WS).
3558-63 Core	(FH)	Same, (WS) Mold of Gastropod, Worm tubes, abundant gypsum. (PS) Orbitoid.

3575-78 Core	(FN)	Same (WS) Same.
3578-83 Core	(FL)	Same (WS) Same.
3598-3602 Core	(FM)	Cream colored chalky limestone (WS) Few forams.
3602-06 Core	(FN)	Same (WS) Same, few forams.
3606-10 Core	(FO)	Same (WS) Same, few forams.
3610-14 Core	(FP)	Same (WS) Same, few forams.
3614-18 Core	(FQ)	Same (WS) (PS) Few forams including Orbitoids.
3618-22 Core	(FR)	Same (WS) Same.
3622-26 Core	(FS)	Same (WS) Same.
3626-30 Core	(FT)	Same (WS) Same.
3632-34 Core	(FU)	Same (WS) Same (PS) Orbitoids.
3634-38 Core	(FV)	Same (WS) Same (PS) Orbitoides, few forams.
3838-42 Core	(FW)	Same (WS) Same (PS) Same.
3642-46 Core	(FX)	Same (WS) Same.
3646-50 Core	(FY)	Same. (WS) Same (PS Orbitoid).
3650-54 Core	(FZ)	Same. (WS) Same Orbitoids, also small piece bluish anhydrite.
3654-58 Core	(GA)	Same. (WS) Orbitoids rare.
3658-62 Core	(GB)	Same. (WS) Same forams and Orbitoids (Sent to Hanna).
3662-64 Core	(GC)	Same (WS) Same. Orbitoids.
3664-66 Core	(GD)	Same (WS) Orbitoids, few small forams.
3666-68 Core	(GE)	Same (WS) Same, small forams and Orbitoids.
3668-73 Core	(GF)	Same (WS) Same.
3673-79 Core	(GG)	Same (WS) Same, forams fairly well preserved. Orbitoids.
3679-88 Core	(GH)	Same (WS) Same; Orbitoids.
3688-96 Core	(GI)	Same (WS) Small forams and Orbitoids.
3696-3700 Core	(GK)	Same. (WD) Small forams and Orbitoids.
3700-05 Core	(GL)	Same (WS) Same.
3705-10 Core	(GM)	Same (WS) Small forams and Orbitoids.
3715-20 Core	(GN)	Same. (WS) Same.
3720-25 Core	(GO)	Same. (WS) Same.
3725-30 Core	(GP)	Same. (WS) Same.
3730-35 Core	(GQ)	Same and fragment of yellowish porous sugar limestone. (WS of chalky ls.) Same.
3735-40 Core	(GR)	Cream colored porous sugar limestone (WS) Orbitoids and Bryozoa.
3740-45 Core	(GS)	Light gray chalky limestone. (WS) Orbitoides, small forams, echinoid fragments.
3745-50 Core	(GT)	Same. (WS) Same.
3750-3755 Core	(GU)	Same. (WS) Same.
3755-60 Core	(GW)	(WS) Same.
3760-65 Core	(GX)	(WS) Same.
3765-70 Core	(GY)	Cream colored sugary limestone, with lignite inclusions. (WS) Orbitoids present.

3775-80 Core (HA)	Same. (WS) Same.
3780-85 Core (HB)	Same. (WS) Same.
3785-90 Core (HC)	Cream colored porous sugar limestone. (WS) No fossils, some pyrite noted.
3790-95 Core (HD)	Same with anhydrite lenses. (WS) No fossils noted.
3795-3800 Core (HE)	Light gray chalky limestone. (WS) Orbitoids and other forams.
3800-3805 Core (HF)	Same. (WS) Same.
3805-10 Core (HG)	Same. (WS) Same.
3810-15 Core (HH)	Cream colored hard porous limestone. (WS) Sugar limestone.
3815-23 Core (HI)	Light gray chalky limestone. (WS) Orbitoids and other forams.
3823-28 Core (HJ)	Same. (WS) Same.
3828-33 Core (HK)	Same, and cream colored porous sugar limestone. (WS of chalky limestone) Same.

#### S U M M A R Y

Lithology	2391-3654 Cores	Gypsum or Anhydrite in limestone.
	2434-2570 Cores	Mainly Anhydrite.
	3598-3833 Cores	Chalky limestone.
		(lowest sample received)
Fossils	2593-3654 Cores	Borelis and allied species.
	3510-3833 Cores	Orbitoids (probably Cretaceous - sent to Hanna for check.)
		(lowest sample received)
Note:	While the gypsiferous limestones occur mostly above the first Orbitoid noted, some occur below.	

In 1929, a short paper appeared entitled Un sondage profond on Florida, by H. Douville (Compte Rendu Somma des Seances de la Societe Geologique de France, No. 11, Seance du 3 Juin 1929.)

I believe the data given to apply to the J. S. Cosden, Inc., W. L. Lawson No. 1, Sec. 25-13S-20E, Marion County, Florida. Probably his summary is based mainly on cuttings which enabled him to fit his lithologic and faunal breaks more perfectly than appears to be the case in the present well.

His summary, depths in metres, follows:

I. Juequ' a 50 Metres

II. de 50 a 62, 50.

Calc. crayoux a Lepidocyclines et a Nummulites (Wilcoxi, Helprini). Oligocene.

Calc. plus poroux a Nummulites. Eocene superior

IV. de 267, 50 a 525.  
V. de 525 a 746  
VI. de 746 a 850  
VII. de 850 a 1080  
VIII. de 1080 a 1322

Calc. dur a Dictyoconus gunteri.)  
Calcaire gypsifere a Alveolina) Eocene inferior  
(Borelis)  
Calc. a Lepidorbitoides Maestrichtian  
Schistes a Truncatulina  
(Cibicides).  
Sables sans fossils.

Following common usage his terms would be equivalent to the following:

- I. Vicksburg.
- II. Jackson.
- III. Claiborne.
- IV.)
- V.) Wilcox-Midway
- VI. Navarge (Ripley)

FARM NAME: J. Ray Arnold No. 1  
 LOCATION : 535' from S line, 895' from E. line,  
 SE/4 of SE/4 Sec. 17, T24S, R25E,  
 12 miles south of Groveland.  
 COUNTY : Lake  
 ELEVATION : 113.66 (Oil Scouts)  
 CONTRACTOR: Sam E. Wilson, Jr., El Dorado, Ar  
 STARTED : Feb. 26, 1935  
 COMPLETED: (Inactive since May 13, 1937)  
 DEPTH : 6129'  
 CASING : 130' of 16"; 510' of 12"; 2200' of 40'  
 9-5/8"

USE :  
 QUALITY :  
 REMARKS : Driller's log 0-1947'. Schl. log from  
 2200-6113'. (No. 1 abandoned at  
 about 500' caving trouble). 548  
 samples 0-5600'. Interval sheet wa  
 made from envelopes, Oct. 30, 1947  
 217 samples brought in by S. A.  
 Stubbs and J. C. Simpson, given the  
 by Wm. G. Blanchard, May 16, 194  
 2258-3833'. See AAPG Bull., Vol.  
 No. 12, Dec. 1944. Plate 5, Figure  
 7A, B. See Journ. of Paleontology,  
 Vol. 19, No. 2, March 1945, p. 147

<u>Depth</u>	<u>Lithology</u>	<u>Fauna</u>
0-65	Fine white sand	No fossils observed
65-170	White to buff limestone	<u>Lepidocyclus</u> <u>Camerina</u> <u>Operculina</u>
170-180	Buff limestone	<u>Coskinolina-Dictyoconus</u>
180-490	Buff limestone	
490-600	Buff and brown recrystallized limestone	
600-1978	Buff and brown recrystallized limestone	
2258-2283	Same	
Core Top	Gray porous slightly recrystallized limestone	
Core Middle	Same	
" Bottom	Same	
2283-2345	Gray limestone containing numerous ostracods	
Core #2	Echinoid spines and pyrite	

	fragments
bottom	Same
2352-2370	Chalky white limestone containing a trace of
Core	selenite
2375-2380	Same
2380-2391	Same
2391-2397	Gray chalky limestone
Core	
2397-2402	Same
Core	
2402-2410	White chalky limestone - abundant selenite
Core	
2410-2418	Gray-white chalky limestone - trace selenite
Core	
2425-2434	
Core Middle	Gray chalky limestone - trace selenite
Core Bottom	White chalky limestone - trace selenite
2434-2442	
Core top	Hard, gray limestone and crystalline blue, saccharoidal anhydrite
Core bottom	Same - practically all anhydrite
2442-2445	
Core	Same
2445-2470	
Core top	Gray, chalky limestone
Core bottom	Gray chalky limestone and anhydrite
2470-2482	
Core top	Blue saccharoidal anhydrite with a small amount of gray limestone
Core Bottom	Blue saccharoidal anhydrite
2482-2515	
Core top	Gray chalky limestone
Core Middle	Gray crystalline anhydrite
Core Bottom	Gray-brown crystalline anhydrite

Oil Development Co. of Florida #2 South Lake, Lake County, Florida

2515-2570	Brown-gray crystalline anhydrite with
Core	gray limestone
2576-2593	
Core top	Brown crystalline anhydrite with gray and buff limestone
Core middle	Hard, gray limestone
Core Bottom	Hard, buff limestone
2593-2618	
Core	White chalky limestone - trace selenite
2618-2623	Hard, buff limestone - trace selenite Borelis?
Core	



Core middle	Hard buff limestone
Core bottom	Hard buff to gray limestone and gray-brown crystalline anhydrite - dip of beds about 10° with reference to vertical edge of core.
3074-3077	
Core	Gray, chalky limestone
3080-3084	
Core top	Same as above
Core bottom	Hard gray limestone
3085-3090	
Core	Crystalline, gray-blue anhydrite
3105-3115	
Core top	Hard, gray, sandy limestone - small amount of anhydrite
Core bottom	Hard, gray sandy limestone - greater percentage of anhydrite
3115-3118	
Core	Gray limestone containing spheres Borelis?
3118-3120	Chalky gray limestone Borelis?
3120-3123	Crystalline, cream colored limestone Borelis?
Cores	
3123-3127	
Core	Porous buff limestone - trace selenite
3127-3131	
Core	Buff and gray saccharoidal limestone - trace selenite
3131-3135	
Core	Buff, saccharoidal and buff oolitic limestone - trace selenite
3135-3139	Buff, saccharoidal, porous limestone
Core	trace selenite
3139-3143	
Core	Light gray and buff saccharoidal limestone
✓ 3143-3147-& 3147-51	
Cores	Buff, porous, recrystallized limestone - trace selenite
3151-3155	
Core	Buff, porous, recrystallized limestone and gray limestone with lignite
3155-3159	Buff, porous, granular limestone
Core	
3159-3164	Buff, porous, granular limestone and hard gray limestone
Core	
3164-3168	Buff, porous limestone
Core	
3168-3172	Gray, porous, saccharoidal limestone
3172-3176	Same
Cores	
3176-3180	Soft, buff saccharoidal limestone
Core	
3180-3184	Gray, saccharoidal limestone

3200-3204	Same
Core	
3204-3208	Porous, oolitic, buff limestone
Core	
3208-3212	Same
3212-16	Same
3216-20	Same
3220-24	Same
Cores	
3224-3226	Oolitic, buff limestone - trace of selenite
Core	
3226-3230	Oolitic, buff limestone and hard gray limestone
Core	
3230-3234	Gray, saccharoidal limestone containing selenite
Core	
3234-3236	Gray, saccharoidal limestone and buff oolitic
core	limestone
3236-3240	Gray, saccharoidal limestone
Core	
3240-3244	Porous, buff, saccharoidal limestone
Core	
3244-3248	Porous, buff, saccharoidal limestone and gray
Core	saccharoidal limestone
3248-52	Buff, saccharoidal limestone
Core	
3252-3256	Same
3256-3260	Same
3260-3264	Same
Cores	
3264-3268	Same, but slightly oolitic
Core	
3268-3304	Porous, buff, saccharoidal limestone
Cores	
3304-3308	Hard, gray limestone
Core	
3308-3346	Porous, buff, saccharoidal limestone
Core	
3346-3356	Gray, crystalline anhydrite and porous, buff
Core	saccharoidal limestone
3356-3370	Porous, buff, saccharoidal limestone
Cores	
3370-3380	Porous, buff, saccharoidal limestone and gray
Core	chalky limestone
3380-3385	Gray, shaly limestone
Core	

3423-3442	Porous, brown saccharoidal limestone	
Cores 3442-3454	Porous, brown saccharoidal limestone and gray-blue, crystalline anhydrite	
Cores 3454-3474	Porous, buff, saccharoidal limestone	
Cores 3474-3486	Porous, brown limestone	
Cores 3486-3490	Buff, saccharoidal limestone	
Core 3490-3506	Porous, buff, recrystallized limestone	
Cores 3506-3510	Porous, gray, saccharoidal limestone	
Core 3510-3515	Buff, saccharoidal limestone	Numerous orbitoids
Core 3514-3568	Porous, chalky white limestone	<u>Lepidorbitoides</u> Above fauna
Cores 3568-3598	Porous, chalky, white limestone and porous brown crystalline limestone	Above faunas
Cores 3598-3735	White chalky limestone	Above fauna
Core 3735-3740	Porous, buff, saccharoidal limestone	
Core 3740-3766	Light gray chalky limestone	
Core 3760-3770	Light gray, chalky limestone - trace lignite	
Core 3770-3785	Light gray chalky limestone	
Cores 3785-3790	Porous, buff saccharoidal limestone	
Core 3790-3795	Porous, buff saccharoidal limestone and gray crystalline anhydrite	
Core 3795-3810	Light gray, chalky limestone	
Cores 3810-3815	Hard, porous, buff saccharoidal limestone	
Core 3815-3828	Light gray, chalky limestone	
Core 3828-3833	Light gray, chalky limestone and porous white, saccharoidal limestone.	

SUMMARY

Position

Fauna

490-500  
Cuttings  
2234-2342  
Core

Top brown recrystallized  
limes section

Top first anhydrite

2618-2623  
Core

Top Lower Eocene?

Borelis?

3510-3515  
Core

Top Cretaceous

Large Orbitoids  
Lepidorbitoides

Respectfully submitted,

S/W. C. Ikins

6/11/42