

FLA-Suw-07-7

1950-60	45% Lt Tan, Ggn, sacg, hard ^{polo}	5% wh, pure polo Gypsum
1960-70	30% "	Tn. " 65% wh, soft ch
	5% forams + s.f. -	
1970-80	10% "	Tn. " 85% "
1980-90	5% "	90% "
1990-00	10% "	90% "
2000-10	"	"
2040-50	"	" Tn. Lt Tan ^{polo} as (1950)
2050-60	15% "	45% " 20% "
2100-10	30% "	60% " 10% "
2150-60	"	65% " 5% "
2200-10	40% " abundance	40% " <u>chal.</u> 20% "
	and Inv. frags	
2250-60	40% "	50% " <u>chal.</u> 10% "
2300-10	30% "	50% " <u>chal.</u> 20% "
2310-20	25% " 5% opaque grey gyp	50% " <u>chal</u> 20% "
	vc ggn cubic	
2320-30	" "	45% " <u>chal.</u> 25% "
2330-40	5% "	20% " 70% " ^{polo}
2340-50	10% "	15% " 55% " ^{polo}
2350-60	5% "	30% " 40% " <u>chal.</u> 25% "

2550-60	85% vult qy, ind ch	15% Lt tan, sacc, hard ls	chal
2560-70	100% "		Tn, Ino, frags & py+ chal
2570-80	95% "	5% "	" chal
2600-10	85% "	10% "	5% " chal, chal
2650-60	60% " has slight	20% "	20% Ino frags, s.f., forams

qy CAST

2660-70	60% "	15% "	25% Ino frags, forams chal
2670-80	75% "	10% "	15% " chal
2680-90	95% "		5% " chal
2690-00	60% "	40% lht qy, soft sh, non fissile, calc	chal
2700-10	50% "	50% "	chal
2750-60	35% "	65% "	Tn, Ino, frags, py+ sh
2800-10	20% "	80% "	sh
2850-60	30% "	70% "	sh
2860-70	50% "	50% "	sh
2870-80	40% "	60% "	sh
2880-90	30% "	10% "	60% dk-lt brg sacc, fgr, dolomit ls <u>dol, ls</u>

Slightly dolomit

2890-00	30% "	40% "	30% " <u>ls, ls</u>
2900-10	20% "	60% "	20% " sh
2910-20	25% "	65% "	10% " sh
2915-30	95% dk brg, fgr, hard, arg, calc ss	5% wh, qyp	ss

2960-70 | 80% fgy, tan, sacc ls 40% wh-cream, vlt-micro, hard ls 10% forams, s. f.

20% sacc, fgy, arg, qy ls

2970-80 | SAME (2960-70)

2980-00 | NO SAMPLE

3000-10 | 5% cream, vlt qy ch 95% qy, fgy, calc, stz ss Tr. Incl. frags

3010-30 | NO SAMPLE

3030-40 | 30% " 50% " 10% forams, s. f., inc.

5% dk qy, sh

3040-50 | 5% " 90% qy, fgy, calc, arg, stz ss 5% "

3050-60 | 5% " 30% " 65% lt qy, micro, hard ls w/ exp
inclusions

3060-70 | 5% " 35% " 60% "

3070-80 | 15% " 85% "

3080-90 | 20% " 20% " 60% "

3090-00 | 20% " 15% " 45% "

3100-10 | 20% " 50% " 30% " ss

3110-20 | 5% " 90% " 5% dk qy, fissile, soft, calc sh

3120-30 | 10% " also 85% " 5% "

uch fossils

Herewith report on samples studied from the Sun Oil Company, #1 A. B. Russell, Suwannee County, Florida.

- 1620 - 30' Light brown, generally crypto-crystalline, ^{(mold's} pitted (removed offssils) dolomite. Material is anhydritic.
Top of
Upper Lawson
- 1630 - 40' Like the preceding.
- 1640 - 50' Light cream, crypto-crystalline, pitted limestone, gypsiferous and with vague traces in form of pits or impressions of an original highly micro-faunal and fragmental fossil content. Some gypsum.
- 1650 - 60' No change.
- 1660 - 70' Light cream, slightly chalky, gypsiferous limestone. A fine coquina of molds and fragments of molds of micro and some macro fossils, preservation generally too poor for identification. Some recognizable molds of Vaughanina cubensis present.
- 1670 - 80' Like the preceding.
- 1680 - 90' Same, but few specimens of Vaughanina cubensis. No other determinable fossil material.
- 1690 - 1700' Light cream, porous, gypsiferous (calcitic - chalky) limestone. Like the preceding, but fossil material (originally abundant) only vaguely indicated as a rule. A few specimens of Vaughanina cubensis.
- 1700 - 10' Same as preceding. No Vaughanina noted.
- 1710 - 20' Light cream, gypsiferous limestone, partly dense and crypto-crystalline, partly finely porous and extremely finely granular chalky as above. Vague traces of a former highly micro-fossiliferous and fragmental content. Some gypsum.
- 1720 - 60' No change.
- 1760 - 70' Finely granular, highly gypsiferous, tan, somewhat pitted (removed fossil material) dolomite.
- 1770 - 90' No change.
- 1790 - 1800' Light tan, crypto-crystalline and slightly pitted to finely crystalline and highly porous, finely granular, gypsiferous, dolomitic limestone.

1960 - 70'

Material as above and many fragments of white chalk with Sulcoperculina cosdeni and other Lower Lawson species of forams.

1960-70'

Top of

Lower Lawson

Div. of U.

Cretaceous

1970-80'

1980-2080'

2080-90'

2090-2100'

2100-2170'

2170-80'

2180-2190'

2190-2200'

Top of

Taylor

Abt. 2180

on Schl.

2200-10'

2210-30'

2230-40'

2240-50'

2250-60'

2260-90'

tan dolomite.

Some dolomite as above, but at least 75% of sample, White chalk with numerous specimens of Sulcoperculina cosdeni, Lepidorbitoides sp., Robulus sp - fragments of Bryozoans and of a small Brachiopod. (See #1-8 on slide.)

Chalk as above, a little dolomite (cavings) and fauna as above.

No change.

Chalk as above, fauna also same as above, with addition of many fragments of several types of large, strongly ornamented Echinoid spines and Echinoid fragments - many specimens of a disk-shaped Bryozoan - a few fragments of Inoceramus.

Chalk and fauna, same as for the preceding. Inoceramus fragments more common. Echinoid spines and fragments - small Brachiopod; fragments of other bivalves, specimens of several species of Bryozoa including the disk-shaped forms mentioned above and some ball-shaped varieties of the same, Lepidorbitoides sp. and Sulcoperculina as in all the preceding Lower Lawson samples, some large specimens of Cibicides harperi. (See #9-12 on slide)

No change.

Sample about 75% dolomite and some gypsum and 25% chalk. Fauna, apparently representing all depths thru the Lower Lawson. Dolomite and gypsum exactly like that found just above Lower Lawson top so may be caving.

Like the preceding.

Sample about 75% chalk - 25% dolomite and gypsum. As above. Inoceramus fragments very abundant. Fauna same as above with the addition of some specimens of Anomalina scholtzensis and Bolivina incrassata.

Soft white chalk, many Inoceramus fragments. Some specimens of Stensioina americana present and many specimens of Anomalina cosdeni. (See #13 on slide). Some glauconite noted in some of micro-fossils from this depth.

Like the preceding.

Harder white chalk and about 50% light tan finely granular dolomite and some gypsum. Abundant Inoceramus fragments and micro-fauna representing many depths. Some Taylor species present as above.

No change.

White chalk - abundant fragments of Inoceramus and some fragments of other bivalves, some Taylor species of foraminifera, some cavings of fossils from higher depths. A few fragments of a soft gray marly chalk.

No change.

- 2350-60' of tan dolomite much of which is possibly caving.)
Chalk - Inoceramus fragments, some forams as above.
Barite also very abundant. Some dolomite.
- 2360-2400' Like the above.
- 2400-10' Materials and fauna as above, but fragments of a gray, marly shale fairly common also.
- 2410-20' Like the preceding, with about 25% light tan dolomite and some gypsum.
- 2410-30' No change.
- 2430-40' Soft, white chalk, some gray marly chalk. Inoceramus fragments, fragments of other bivalves and barite as above. A small amount of dolomite.
- 2440-80' Like the above with varying amount of dolomite and some gypsum present up to 75% in some samples - down to about 25% in others.
- 2480-90' Same as above, but a marked decrease in amount of barite present.
- 2490-2520' No change.
- 2520-30' Mainly white chalk, Inoceramus fragments fairly common, some fragments of other bivalves. A little dolomite and gypsum. Some fragments of the gray marly shale.
- 2530-50' Like the preceding with varying amounts of dolomite and gypsum (some of which is obviously caving). A little barite. Dolomite from 0 to 25%.
- 2550-60' Mainly white chalk, with some Inoceramus fragments and prisms and a small amount of dolomite and gypsum.
- Approx.
Top Austin A few fragments of the dark brownish gray "light speckled" marl, common to the Austin section. Few forams. Some pyritised fragments of Inoceramus.
- 2560-2630' Like the preceding. An occasional fragment of the dark gray "speckled" chalk.
- 2630-40' Mainly chalk and fairly numerous Inoceramus fragments and prisms, some fragments of other bivalves. Some of fossil fragments pyritised. Chalk mainly light tan, gray "slightly speckled". (Samples thru Lower Taylor and much of Austin section not washed sufficiently to reveal indigenous forams if present.)
- 2640-2740' Like the preceding.
- 2740-50' Material and fauna as above, but fragments of a moderately dark brownish gray "light speckled" marl fairly common.
- 2750-60' (Sample more thoroughly washed). Mainly gray and brownish gray, somewhat "light speckled" chalky marl. Inoceramus fragments and prisms and some fragments of other fossils fairly common as above. Pyrite nod. and some pyritised fossil material also fairly common. Some specimens of Globotruncana, Globigerina and

1907
Globotruncana
Gumbelina, reussi

chalk. A small amount of dolomite like that above. Abundant specimens of Globigerina, many specimens of Globotruncana marginata, and a few specimens of Gumbelina reussi and a very small Anomalina. (See #14 on slide)

Like the preceding.

2910-20'
2924-29'

Core #1. Top 1': (Rec. 2') Fine, even grained, tan colored, slightly argillaceous, porous, quartz ss., somewhat dolomitic. A few gypsiferous inclusions.

Bot 1': Fine, moderately even grained, calcitic tan colored sandstone. A little oxidised glauconite present. Material more indurated, than top of core, rately prous.

2929-34'

Core #2. Top 1' (Rec. 5') Hard tan, somewhat porous, fine grained, calcitic and somewhat dolomitic sandstone with gypsum inclusions.

2nd. 1': Sandstone like the preceding, irregularly dark streaked. A few gypsum inclusions. A few small fragments of nacreous shell material and a few fragments of phosphatic material present in sandstone.

3rd. 1': Brown, fine even grained, moderately hard argillaceous sandstone. A trace of glauconite. Material shows dark, irregular streaks. Some fragments of fossil bivalves present. / (Stain from bituminous residue?)

4th 1': Like 3rd 1':

5th 1': Light greenish gray, fine grained, argillaceous and calcareous chalky sandstone. Sand is less well sorted and slightly coarser than that above, some irregular muddy or slightly shaly streaks.

2934-39'

Core #3. Rec. 3' Top 1': A highly and finely sandy, irregularly light and dark streaked gray, moderately hard chalk or chalky sandstone.

2nd 1': Light cream colored, finely sandy and highly calcitic chalk.

3rd 1': Dark brownish highly argillaceous, moderately hard fine grained sandstone. Irregular dark and light streaks, some shell fragments, some crushed, cream colored ~~fish~~ material, some fragments of fish scales. Material irregular and abundantly light and dark streaked.

2939-49'

Core #4. Rec. 3½' Top 1': Highly and very finely sandy chalk or chalky sandstone. Irregular light and dark brownish gray streaked as above.

2nd 1': Tan, light, and dark streaked, calcitic argillaceous, fine grained, hard sandstone.

Bot. 1½': Sandstone similar to preceding, but poorly consolidated.

2949-59'

Core #5. Rec. 1½'. Top: Fine, even grained, chalky sand.

- material.
2nd 1': Moderately hard, grayish tan, chalky, fine grained sandstone. A few small fragments of carbonaceous material. Some small fragments of macro-fossils. A few irregularly dark gray, muddy streaks. A trace of fine dark bluish green glauconite.
3rd 1': Chalky, fine grained, moderately hard sandstone.
4th 1': Like the 3rd. foot.
Bot. 1': No change.
- 2968-78' Core #7. Rec. 9': Top: Blebs of gypsum scattered thru this core. Moderately hard cream colored, highly finely sandy chalk. Some fragments of fossil bivalves. Ostrea? sp. Sand is fine even grained, angular quartz.
2nd 1': Darker colored, grayish tan and harder sandy chalk or chalky sandstone similar to preceding in general character. Some fragments of fossil bivalves.
Bot: Moderately hard, tan, gray, chalky fine grained sandstone. Similar to preceding in general character. A few thin shaly partings.
- 2978-88' Core #8. Rec. 10': Top: Moderately hard, fine to moderately fine grained calcitic sandstone. Some irreg. darker colored argillaceous streaks.
Mid: Material like top of core. Some phosphatic fish bones fragments, irregular darker colored argillaceous streaks.
Bot: Like the above, with some chalky lenses.
- 2988-98' Core #9. Top. Rec. 5': Tan, gray chalky fine even grained sandstone with irregular darker colored muddy streaks.
Mid: No change.
Bot: Like the preceding. Some moderately fine, rounded sand grains also present.
- 2998-3008' Core #10. Rec. 5': Top: Tan, gray, moderately hard, fine to mod. fine grained calcitic and slightly argillaceous and chalky sandstone. Material irreg. and thinly light and dark streaked as above.
Mid: Like top of core.
Bot: No change.
- 3008-18' NOTE: Before it was cut this core contained a few very thin lenses of dark gray "speckled" shale. No sample of this material in this cut.
Core #11. Rec. 9': Top: Sandstone as in preceding core and one small fragment of gray, somewhat light and dark streaked, slightly silty clay shale.
2nd 1': Some fragments of sandstone as above, but major portion of sample hard, dark gray calcitic shale which contains some fragments of macro-fossils, some mica. Some fish scales and bone fragments.

3008-18'

17th
P. 17th
H. 17th

Core #11. 4th 1' cont'd. Some specimens of Planulina eaglefordensis, Valvulineria infrequens, Globigerina, Gumbelina and Pleurostomella present. (See #15 on slide).
5th foot: Calcareous and somewhat micaceous, irregular sandy greenish gray shale. Some small fragments of shell material.

6th foot: Greenish gray, irregular finely sandy, slightly micaceous thinly laminated shale. Some fragments of fish bones and scales.

7th foot: Greenish gray shale and abundant thin, irregular partings of cream colored, micaceous silt stone and very fine grained sandstone. Small fragments of fish scales and bones present.

8th foot: Fine grained, argillaceous, gray sandstone with some shell fragments and fragments of fish bones and scales.

9th foot: Like the preceding foot.

3118-24'

Core #12. Top: Soft, fine grained, argillaceous, gray sand

3024-30'

Core #13. Rec. 1'. Soft, argillaceous, gray, fine grained sandstone with a few thin dark gray shaly partings.

3030-40'

Core #14. Rec. 7'. Top: Hard calcareous gray, fine grained sandstone with irregular dark streaks. Some fragments of tan colored, soft, crushed shell material and a few small fragments of pyritised lignite.

Mid: Like the top of this core.

Bot: Hard, grayish tan, very finely sandy limestone. A few imbedded fragments of pyritised lignite and a few shell fragments.

3040-50'

Core #15. Rec. 1½'. Sample of cream colored, moderately finely to moderately coarsely, highly sandy limestone with many impressions of macro-fossil fragments. (Major portion of this core black fissile shale of which no sample in this set.) Shale had an Eagle Ford fauna.

3050-60'

Core #16. Rec. ½'. Top: Hard, grayish tan limestone with many moderately large inclusions of nods. of

Top of

Mid. and

Lower Atkin-

son

(Woodbine)

approx. equiv. of
maine sh. + h. s.
succession

crystalline pyrite and some rough, irregularly porous areas filled and coated with black, slickensided shale. Some phosphatic material with a little sand in this

limestone also. (Material looks like a weathered surface.)

Mid: Hard, dense, light tan colored limestone with many small scattered inclusions of calcite and quartz.

Bot: Limestone like the above in character, but somewhat sandy and with numerous molds of fossil bivalves.

3060-70'

Core #17. Top 2'6"; Rec. 7': Some limestone as above, some highly and moderately finely sandy limestone and moderately finely and highly sandy gray calcitic clay. All the material present has some imbedded worn shell fragments. Sand is fine to moderately coarse, sub-angular, and some glauconite.

Second foot: Tan, gray highly sandy, calcitic clay, worn

3070-80'

of *Nodosaria* sp. and a few Ostracods. Some specimens of *Planulina eaglefordensis*?

Core #18. Top. Rec. 2½': Gray clay shale with some hard limy streaks and areas (about 10% sand), an abundance of worn and broken shell fragments and some small fragments of lignite, Echinoid spines and fragments. Many specimens of *Polyphragma*? sp., some specimens of *Reophax* sp., *Trondicularia* cf. *inversa*., *Nodosaria* cf. *corsicanana*, *Robulus* sp. and several species of Ostracods including a number of specimens of *Cythereis* cf. *burlesonensis* and *Cythere concentrica*. (Note: This is a phase of the so called "Barlow" fauna - found in more calcareous and sandy phases of the middle and lower Atkinson in a number of wells in N. Penn., Fla., S. Georgia and Ala.) (See #16 thru 19 on slide.)

Bot: Gray, calcitic clay shale like top portion of core in lithology and fauna. In addition to above listed micro-fauna, some specimens of *Ammobaculites* n. sp. also present. (This species also characteristic of some phases of the "Barlow" fauna. (See #20 on slide.)

3080-86'

Core #19. Rec. 5' Top: Hard light gray limestone. Many shell fragments and some Ostracods noted.

Bot: Gray, calcitic finely sandy clay with limestone stringers. Worn shell fragments common and a few forams and Ostracods species as listed from preceding core.

3086-92'

Core #20. Rec. 5½'. Top: Hard, calcitic, finely sandy clay, carrying an abundance of worn and broken fossil shell material, and some fragments of fish bones.

Bot: Hard, calcitic, moderately fine grained sandstone with irregular blebs of anhydrite, some small fragments of lignite, occasional small nodules of glauconite and many small fragments of phosphatic bone material.

3092-3102'

Core #21. Rec. 6'. Top: Hard, dense light and darker gray streaked and spotted sandstone. Grains moderately fine to moderately coarse, small fragments of phosphatic bone material common.

Mid. Like the top;

Bot: Like the preceding portion of core with some blebs of anhydrite.

3102-08'

Core #22. Rec. 4'. Top: Hard calcitic light and dark streaked gray sandstone with some anhydrite and many small fragments of phosphatic material. A little glauconite.

Bot: Like the top. (for character sample of material, see #21 and 22 on slide.) Glauconite more common.

3108-13'

Core #23. Rec. 4½' Top: Like the preceding. (The dark streaks apparently caused by very thin infiltrations of mud during deposition).

Bot: No change.

16- BIG AGG. FORAMS
RECORDED
CYTH. BURLESONENSIS
BIG BARRIA

OK

CAK SS

3120-23'

17-Gray Sandstone
5"

3123-28'

B

3128-33'

3133-36'

3136-45'

TD 3139'

Pink
stone
P. R. A.

as above. (See #25 and 24 on slide.) A few thin lenses of dark gray "poker chip" shale.

Core #26. Rec. 3". Soft fine grained glauconitic gray sandstone and flaky dark gray shale. (For character of shale see #25 on slide.)

Core #27. Rec. 25". Top: Soft sand mixed with shale.

Bot. Black "poker chip" shale with thin, irreg. sand partings.

Top: Soft fine grained, light and darker gray streaked, somewhat micaceous sandstone with many small fragments of carbonaceous material. A small amount of flaky, dark gray shale as above. A little glauconite.

Bot: Dark gray, thinly flaky shale and a few thin sand lenses. A little glauconite in shale and shreds of carbonaceous material.

Core #28. Rec. 5'. Top: Black "poker chip" shale and a few thin lenses of gray sandstone. Scattered fine sand grains and some carbonaceous material in the shale which is thinly flaky. A few fragments of phos. material.

Mid: Shale as above and some gray, fine grained, argillaceous, glauconitic and phosphatic and carbonaceous ss.

Bot: Shale and sandstone as in middle of core.

Core #29. Rec. 2 3/4'. Top: Gray, glauconitic and phosphatic, argillaceous sandstone. Sand grains, fine to moderately coarse.

Mid: Sandstone similar to preceding but better consolidated, some carbonaceous material less phosphatic material. Glauconite common as above. Some blebs of anhydrite.

Bot: Like middle of core.

(Took 2 cores and had no recovery.) Cut 2" one time, 2" another.)

Core #32. Paleozoic quartzite.

Pink fine even grained quartzite. (See sample of this material on slide.) This might have been a boulder. P. R. A.

E. R. Applin