P120

Gulf Oil Corporation
#1 Brooks-Scanlon, Inc.
Block #37
Taylor County, Florida

2150-60'	Dense tan dolomite, a little gypsum, some small pitted areas in dolomite probably representing impressions of removed fossils.
2160-70' Appx. Top U. Lawson Navarro	Dense tan dolomite as above, some gypsum and some coarsely crystalline porous tan dolomite.
2170-80'	Like preceding. Fragments showing Rudisted structure.
2180-90'	Like preceding. Very little gypsum.
2190-2200'	Hard, dense white limestone, some dolomite from above.
2200-10'	Coarsely crystalline to crypto-crystalline, tan dolomite. A little gypsum.
2210-20'	Light tan crypto-crystalline dolomite, some coarsely crystalline dolomite as above. Some pitted areas, indicating an original fossil content.
2220-30'	Like the preceding.
2230-40'	Dense light tan, crypto-crystalline to dense and finely crystalline dolomite, some pitted areas as above.
2240-50'	Same as preceding. A few fragments of gypsum.
2250-60'	Light tan, coarsely crystalline to crypto-crystalline dolomite.
2260-70'	Dolomite as in preceding. Slightly gypsiferous.
2270-80'	Like the preceding.
2280-90'	Light tan, dense to finely crystalline somewhat gypsiferous dolomite.
2290-2300'	Dolomite as above, and some fragments of tan, finely crystalline chalky dolomite (percentage of chalk to dolomite in fragments about 25/75 evenly distributed) Some traces of fossils.
2300-10'	Light tan very finely crystalline, dense, gypsiferous dolomite.
2310-20' Top Lower Lawson Navarro	Dolomite as above, and 50% chalky dolomite as noted in sample (2290-2300'), some chalky fossil fragments in the chalky dolomite. A few fragments of Lepidorbitoides present. (See #13 on slide).
2320-30'	Chalky dolomite as above, and soft white chalk. Fragments of Lepidorbitoides and of a Bryozoan common to L. Lawson (See #14 on slide).
2330-40'	Tan, very fine grained gypsiferous dolomite, a little chalky dolomite as above.
2340-50'	Dense tan, gypsiferous succros dolomite as in preceding.
2350-60'	Dolomite as above and about 50% finely crystalline chalky dolomite.
2360-70'	Light tan, very finely crystalline, slightly chalky gypsiferous dolomite. A few fossil fragments in dolomite.
2370-80'	Like the preceding.
2380-90'	Light tan succors, porous, somewhat gypsiferous dolomite.
2390-2400'	Like the preceding.
2400-20'	No change.
2420-30'	Like the above with a few fragments of chalky, very finely, crystalline tan dolomite with some imbedded fragments of micro-fossils.
2430-40'	Succros dolomite as above and about 50% fragments of white chalk, occasionally finely dolomite. Small fossil fragments in chalk. A specimen of a small Brachiopod common to the L. Lawson fairly common. Some specimens of a small Blastoid-like comatulid also common to this horizon. (See #15 on slide).

2440-50'	Like the preceding. A few fragments of Inoceramus and a few specimens of Globotruncana cretacea also present.
2450-60'	Sample mainly chalk and some finely dolomitic chalk. A few Inoceramus fragments, a few specimens of Robulus sp. and Anomalina harperi.
2460-70'	Like the preceding. A few anhydrite crystals also present in chalk. Note (This crystal erroneously called barite in previous reports, polarized light tests in oils showed them to be anhydrite). Specimens of Robulus sp., Anomalina harperi and Globotruncana cretacea fairly common. (See #16 on slide).
2470-80'	Like the preceding.
2480-90'	No change.
2490-2500'	Chalk, fauna as above, many fragments of Inoceramus.
2500-10'	Like the preceding.
2510-40'	No change.
2540-50'	Chalk as above and many Inoceramus fragments. A few fragments of the light gray, bentonitic, ashy shale marking the top of the Taylor over the northern portion of Penn. Fla. Specimens of Anomalina scholtzensis, Anomalina cosdeni, Stensioina americana, ~~Globorotalia micklelinlana~~, Gyroidina girardana. globorotalites conicus.
Top of Taylor (2535' Schl.)	
2550-60'	Like the preceding.
2560-70'	No change.
2570-80'	White chalk, many Inoceramus fragments, few forams.
2580-90'	Chalk, many Inoceramus fragments and about 25% light tan dense to finely granular dolomite and some chalky dolomite. A few forams, species as above.
2590-2600'	Dense, to very finely granular, gypsiferous light tan dolomite. A little chalk, many Inoceramus fragments.
2600-10'	Like the preceding.
2610-20'	No change.
2620-30'	Dolomite as above, a small amount of chalk. Some Inoceramus fragments.
2630-40'	50% dolomite, 50% chalk, many Inoceramus fragments.
2640-50'	Like the preceding.
2650-60'	No change.
2660-70'	75% chalk, 25% dolomite (prov. caving), many Inoceramus fragments, some crystals of anhydrite chalk.
2670-2720'	No change.
2720-30'	Chalk, many Inoceramus fragments , some anhydrite crystals in chalk, a little dolomite (prob. caving).
2730-2810'	Like the preceding.
2810-20'	50% chalk and light brown, dense to finely gray, gypsiferous dolomite, many Inoceramus fragments (some in dolomite).
2820-30'	75% dolomite, as above, 25% chalk.
2830-40'	50% gypsiferous dolomite, 50% chalk.
2840-50'	Chalk, Inoceramus fragments and a little dolomite (prob. caving) some anhydrite crystals in chalk. Scattered fine dolomite crystals in chalk, about 1%.
2850-2920'	Like the preceding.
2920-30' Apprx. ~~Austin Top~~	Marly light gray chalk, some white chalk as above. Many Inoceramus fragments and prisms.

2930-40' Like the preceding. Some pyrite nods.
2940-80' No change.
2980-90' Many fragments of darker, brownish gray, somewhat "light speckled" Def. Austin on lith. chalk, many Inoceramus fragments and prisms, numerous specimens of Globotruncana marginata, some of Globigerina, Planulina austenana Kyphopyxa christneri Margemilina elongata. (See #18 on slide). Some white and light gray chalk, some pyrite nods.
2990-3000' Like the preceding.
3000-10' Gray, gummy, marly chalk, some white chalk (prob. caving). Many Inoceramus fragments and prisms, some pyrite nods. and a few forams. No narrowly restricted forms.
3010-20' Like the preceding. (Poorly washed).
3020-60' No change.
3060-70' Light gray, gummy chalk, some white chalk, some fragments of dark brownish gray "speckled" marl. Many Inoceramus prisms (sample poorly washed).
3070-80' Like the preceding. (Sample poorly washed).
3080-3120' No change.
3120-30' Cut about 50% white chalk and 50% dark brownish gray "light speckled" marl. Inoceramus fragments and prisms fairly common; abundant specimens of Globotruncana marginata.
3130-40' Like the preceding with abundant cavings.
3140-50' White chalk and some dark brownish gray "speckled" marl (about 25%) Many Inoceramus fragments and prisms. Globotruncana strongly dominant in micro-fauna.
3150-3340' Like preceding - (many samples mainly cavings apparently from L. Lawson.)
3340-50' Cut of white chalk 50% dark gray and brownish gray "speckled" marl 50%, Many Inoceramus fragments and prisms, some pyrite nods. Globotruncan common as above.
3350-60' Like the preceding with many fragments of the white chalk containing much finely fragmental calcitic fossil material and minute globular bodies.
3360-70' Mainly cavings with some dark gray-white speckled marl.
3351-56' Core #5 Rec. 4' Top: Dark gray, white "speckled" marly shale. Some fish scale fragments. A trace of mica, some Inoceramus fragments, specimens of Globigerina and Globotruncana.
Mid: Light and dark streaked material "speckled" as above. Contains a large amount of fine calcitic, fragmental fossil material. Inoceramus fragments. Gumbelina reussi, Globigerina sp., Globotruncan marginata and a small Robulus sp.
Bot: Dark gray "light speckled" thinly laminated shale.
3356-64' Core #6 Rec. 8' Top: Gray, green, thinly flaky somewhat finely micaceous shale. Some "light speckled" streaks, some specimens of Globigerina and Gumbelina reussi.
Mid: Green flaky shale as above, with thin, brownish gray, irreg. "speckled" streaks. Some specimens of Globigerina, Gumbelina and Pleurostomella.
Bot: Like the middle with addition of a few specimens of Planulina eaglefordensis.
3364-70' Core #7 Rec. 6' Top: Greenish gray, thinly laminated shale, with some silt, abundant specimens of Globotruncana marginata (basal Austin variety) and Globigerina (See #56 on slide). Some specimens of Robulus sp.
Mid: Moderately hard, white chalk with darker marly highly light "speckled" streaks. Material contains a large amount of very fine calcitic material and some silt. Some fragments of Inoceramus, some fish scales, a trace of mica and forams as in top of core, but less common and less well preserved.

3364-70' Core #7 Bot: Limestone and some marly lenses as above. Limestone here has a very finely crystalline (succros) appearance.

3370-80' Appx. Top E. Ford — Core #8 Rec. 10' Top: Light gray, finely and highly sandy chalk, moderately hard limestone or hard chalky sandstone. This can be taken as base of Austin or top of Eagle Ford. Some Globigerinas present.

Bot: Dark gray and greenish gray, flaky, "speckled" shale, most of fossil material crushed giving the "speckled" appearance, but specimens of Planulina eaglefordensis noted in shale.

3380-90' Core #9 Rec. 10' Top: Brownish gray highly speckled marl with very thin, irreg. chalky fine sand lenses.

Mid: Greenish gray, thinly flaky shale with abundant fine silty partings.

Note: (As stated above the exact E. Ford point in this well is a matter of choice, the sandy chalk and "speckled" marl beds overlying this layer, can be interpreted as equivalent to basal Austin "Fish scale conglomerate" and the middle of this core as the true Eagle Ford top, the break is not clean cut.)

Bot: Thinly flaky greenish gray shale with somewhat "speckled" appearance. Specimens of Planulina eaglefordensis, fairly common in shale. Some Globigerina.

3390-3400' Core #10 Rec. 10' Top: Moderately hard, light brownish gray, silty or very finely calcitic chalk.

2nd. 1': Greenish gray, thinly flaky shale with abundant thin, moderately hard, micaceous siltstone lenses. Planulina eaglefordensis a small Globigerina and Gumbelina common.

3390-3400' 3rd 1': Thinly laminated, flaky, gray green shale. Some thin silty partings and some thin lenses with some crushed fossil material giving a slightly speckled appearance. Such lenses carry Globigerina.

4th 1': Similar to preceding, but more silty to sandy partings, some mica, many specimens of Planulina eaglefordensis, a small Globigerina, Gumbelina and Pleurostomella sp. Some fragments of fish scales. (See #19 on slide).

5th 1': Gray green, flaky shale - fauna same as for preceding.

6th & 7th ft: No change.

8th 1': Gray green flaky shale, somewhat "speckled" (crushed chalky fragments and small fossil material.)

9th 1': Gray green, thinly flaky shale with some brownish gray, somewhat "speckled" partings. Fauna as above.

Bot.ft: Like the preceding.

3400-10' Core #11 Rec. 10' Top 1': Gray green, thinly laminated flaky shale with some partings have "speckled" appearance from fragmental, crushed, chalky fossil material. Micro-fauna same as above.

2nd ft: No change.

3rd ft: Shale as above, with some thin, highly and finely "speckled" lenses, which contain many fish scale and bone fragments and much fine mica, larger specimens of Globigerina and a few Gumbelinas present. A trace of glauconite. (See #20 on slide).

4th ft: Dark brownish gray, somewhat "speckled" thinly laminated flaky shale. Fish scale fragments and fragmental crushed chalky micro-and macro-fossil material. Some Globigerinas and Gumbelinas and a few Pleurostomellas.

5th ft: Harder, brownish gray, somewhat "speckled" marl. A few Globigerinas present.

6th ft: Thinly laminated, flaky gray-green shale with irreg. brownish gray, "speckled" partings. Some specimens of a small Globigerina, Gumbelina and Planulina eaglefordensis.

7th ft: Same as 6th ft.

3400-10' Core #11 8th ft: Like the preceding (See #21 on slide for character of fauna).
9th ft: No change.
Bot 1': No change.

3410-20' Core #12 Rec. 2½' Top: Thinly laminated, flaky gray-green shale with some scattered small fragments of crushed chalky fossil material. No change in fauna.
Bot: Dark brownish gray, speckled, thinly flaky shale, some gray green partings. Fish scales, a trace of glauconite, some forams as above.

3420-30' Core #13 Rec. 5' Top: Moderately hard, dark gray, "speckled" marly shale.
Mid: "Speckled" marl as above, many fish scales. Material in part moderately hard with many thinly flaky "speckled" dark gray shale lenses.
Bot: Thinly laminated, flaky dark brownish gray "speckled" shale with many fish scales and much finely broken and crushed fossil material. A specimen of Prianotrop seen in bottom of this core before cut was made.

3430-40' Core #14 Rec. 7' Top: Thinly laminated gray green, slightly finely micaceous shale with irreg. "speckled" dark brownish gray partings.
Mid: Dark brownish gray, highly "speckled" flaky shale with many fish scales and fragments. Abundant crushed and finely broken, chalky fossil material. Some mica (for material, See #22 on slide).
Bot: Brownish gray argillaceous and micaceous, very fine grained sandstone with fish bone and scale fragments and disseminated crushed chalky, fossil material. Specimens of Globigerina fairly common. A lense of hard, light gray slightly silty limestone with some fragments of fossil bivalves. (For material See #23 & 24 on slide).

3440-50' Core #15 Rec. 9½' Top: Dark gray, flaky, finely "speckled" shale very thin lenses of light brown, very fine grained, argillaceous, calcareous, and slightly glauconitic sandstone. Fish scale and bone fragments common.
Mid: Dark brownish gray, flaky, highly "speckled" shale, many fish bone fragments. A few thin sandstone lenses like those in top of core.

3450-60' Core #16 Rec. 10' Top: Dark gray, thinly laminated mica, "speckled" shale with thin hard, highly silty lenses.
Mid: Thinly laminated, flaky, dark gray, somewhat "speckled" micaceous shale.
Bot: Like the middle.

3460-70' Core #17 Rec. 9' Top: Dark gray, flaky, micaceous, highly "speckled" shale with thin lenses of hard, light brown, highly and very finely sandy, somewhat finely glauconitic limestone. Limestone contains fragments of Ostrea-like fossil bivalves. Some glauconite also present in highly "speckled" shale.
Mid: Dark brownish gray, highly "speckled" micaceous thinly laminated shale. Many fish bone fragments and fragments of fossil bivalves. Some glauconite, some speckled fragments of a small Globigerina and Planulina.
Bot: Dark brownish gray "speckled" shale and many thin lenses of light brown, very fine grained, hard calcitic sandstone. Material is micaceous and somewhat glauconitic.

3470-80' Core #18 Rec. 10' Top: Thinly laminated dark gray shale. Micaceous with highly "speckled" lenses and some thin, irreg. silty lenses. Fish bone and scale fragment s in the "speckled" lenses and some fragments of thin shelled fossil bivalves, some specimens of Globigerina a few small frags. of carbonaceous material.

3470-80' Core #18 Mid: Like top part of core.
Bot: Dark gray thinly laminated, somewhat "speckled" shale with fragments of fish bones and scales and some specimens of "Globigerina".

3480-90' Core #19 Rec. 7' Top: Gray, thinly laminated, "speckled" micaceous shale. Some fragments of thin shelled bivalves, shreds of carbonaceous material. Some specimens of Globigerina.
Mid: Gray, "light speckled" marly shale, somewhat micaceous and slightly glauconitic.
Bot: Light gray, highly and very finely sandy, chalky marl (or highly marly sandstone). Material is micaceous and somewhat finely glauconitic. Contains some fish bone fragments and many specimens of Globigerina. (See #25 & 26 onslide).

3490-3500' Appx. Top M. & L. Atkinson Core #20 Rec. 7' Top: Dark gray, micaceous, somewhat "speckled" shale and many thin very finely sandy, micaceous and finely glauconitic partings.
Mid: Irreg. and thinly interlaminated dark gray shale and very fine grained glauconitic, micaceous sandstone.
Bot: Dark gray, thinly flaky, somewhat micaceous shale. Material sparcely, finely glauconitic. Some specimens of Globigerina and Planulina (for material see #27 on slide).

3500-10' Core #21 Rec. 3' Top: Dark gray flaky shale, irreg. highly and very finely sandy, finely glauconitic and micaceous (for sandy shale see #28 on slide).
Bot: Soft, dark gray, highly argillaceous, finely glauconitic, micaceous, fine grained sandstone, some thin lenses of dark gray, flaky shale.

3510-14' Core #22 Rec. 1½' Top: Soft, argillaceous, glauconitic and micaceous, medium grained, quartzitic sand. Some fragments of dark gray flaky shale.
Bot: Like the top.

3514-30' (As labeled) Core #23 Rec. 10' Top: Soft, light gray, glauconitic and micaceous slightly argillaceous, fine grained sandstone. (See #29 on slide).
Top of Mid: Dark gray, very thinly laminated, finely flaky, shale with minute forams in some shale fragments, and occasional silty to medium sandy partings. Fauna in shale - minute Gumbelina and small Rotalid foram characteristic of phases of M. Atkinson. (See #30 and 31 on slide).
Lower Mid: Like the top of middle.
Bot: Light gray, soft, medium grained, glauconitic and micaceous quartzitic sand. A few dark gray, flaky shale lenses.

3514-19' Core #24 Rec. 2' Top: Soft, light gray, glauconitic and micaceous medium grained quartzitic sand.
Bot: Similar to top. Glauconite coarser and more abundant.

3530-40' Core #25 Rec. 5' Top: Soft, light gray, glauconitic and micaceous fine grained quartzitic sand.
Bot: Glauconitic sand as above - medium grained.

3540-50' Core #26 Rec. 6' Top: Gray, argillaceous glauconitic and micaceous fine grained sand with some lenses of dark gray flaky shale.
Bot: Like the top, minute forams, Gumbelina and a small Rotalid in fragments of the shale.

3550-60' Core #27 Rec. 10' Top: Light gray, medium grained, slightly glauconitic, micaceous, soft sand and lenses of dark gray, very thinly flaky somewhat finely glauconitic shale. Many small fragments of carbonaceous material and partings in shale showing abundant specimens of the minute forams listed above. Some thin mica and glauconite and finely carbonaceous lenses of soft siltstone.
2nd 1': Fine to coarse sand and shale and siltstone like the above in character and fauna. A few fragments of moderately hard, light gray

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3550-60' 2nd. 1' continued: glauconitic, medium to coarse grained sandstone. (Core apparently unconsolidated).
3rd 1': Gray, thinly flaky, slightly carbonaceous shale, some minute forams present inshale.
4th 1': Shale as above, minutely fossiliferous, somewhat finely glauconitic, micaceous, thin irreg. silty partings.
5th 1': Gray, thinly flaky, minutely fossiliferous, slightly micaceous shale.

Top L. Cret. ✓ 6th 1': White, bentonitic, micaceous, fine to coarse, etched, roughly angular quartzitic sand. Some pink grains. (See #32 to 34 on slide).
7th 1': Same as 6th ft.
8th 1': Like the preceding with many grains of small pebble size present.
9th 1': Same as preceding ft.
Bot: No change.

3480-90' Labeled?? Core #28 Rec. 10' Top: Light red, ferruginous, micaceous, soft medium grained sandstone (See #35 and 36 on slide).
Bot: (Labeled 3180-90') Fine to coarse red stained sand and waxy red clay shale.

3570-80' Fine to very coarse quartzitic sand, some pink tinted grains (a little caving.)
3580-90' Like the preceding.
3590-3640' No change.
3640-50' Sand as above, and a few small fragments of red, green and mustard mottled clay shale.
3650-3710' No samples.
3710-20' Fine to coarse sand as above, some yellow and some pink tinted grains, mainly quartz with a few grains of feldspar and some pink stained sandy lime nods., and a few fragments of red, yellow-green mottled shale, a few fragments of purplish red (for character of shale see #37 and 38 on slide).
3720-30' Sand as above, very coarse grains common. Many lemon yellow and some reddish tinted grains.
3730-40' Like the preceding. A few small fragments of red,mustard and gray mottled shale.
3740-50' Like the preceding.
3750-3800' No change.
3800-10' Sand as above and about 25% fragments of dull dark red, very finely micaceous, slightly mustard and gray mottled shale and numerous concretionary stained lime nods. Some of the nodules tubular in shape.
3810-20' Like the preceding. Also a few fragments of pinkish micaceous, fine grained sandstone.
3820-30' Fine to very coarse sand and about 50% dark red slightly mottled, finely micaceous clay shale; some vary colored, in part sandy lime nods.
3830-40' Like the preceding.
3840-50' Fine to very coarse sand, like the above, 25% red shale, some vary colored lime nods. Many cavings.
3850-60' Like the preceding.
3860-70' Sand, some lime nods, and 5 to 10% red and mottled shale.
3870-80' Like the preceding.
3880-90' No change.
3890-3930' No samples.

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3930-40'	59% cavings and 50% fragments of dark dull red clay shale, slightly greenish and gray mottled, partly finely sandy to silty, micaceous. Some stained lime nods.
3940-50'	No change.
3950-60'	At lease 50% red shale and sandy shale as above, 25% fine to coarse sand, also many fragments of greenish gray, gummy hemitite stained and spotted shale. Some multicolored lime nods. For gray shale (see #39 and 40 on slide). Gray shale has oxidised glauconite? nod. This shale apparently same as that found at 4110-20' in Brooks-Scanlon Block #33.
3960-70'	About 50% red shale and many fragments of a light red, very finely sandy calcite-veined limestone (pos. from nodules). Some fragments of the greenish gray waxy shale, some cavings (for limestone see #41 and 42 on slide).
3970-80'	Like the preceding.
3980-90'	Like the above, some fine to coarse sand.
3990-4000'	About 50% red, partly silty shale and some red stained micaceous sandstone, some stained lime nods, about 50% cavings of various materials.
4000-10'	About 50% red shale (partly silty to sandy) and 50% fine to coarse sand, some lime nods., some cavings.
4010-20'	Like the preceding.
4020-30'	No change.
4030-40'	Red shale and light red,very fine grained, micaceous sandstone. Many red and white lime nods, about 25% fine to coarse sand, some cavings.
4040-50'	Dark red shale in part silty to very finely sandy, some red and white lime nods. (for this red shale see #43 and 44 on slide).
4050-60'	Like the preceding.
4060-4140'	No change.
4140-50'	About 25% red shale as above, 25% cavings and 50% fine to very coarse sand. A few of quartzite and other "basement" rocks.
4150-60'	Like the preceding.
4160-70'	About 50% red shale and sandy shale. (as just above conglomerate) and 50% fine to very coarse conglomeritic sand as above. Some cavings.
4170-80'	About 75% red shale, 25% sand as above.
4180-90'	Mainly red silty to sandy shale, a little sand and cavings, some red stained lime nods.
4190-4200'	About 75% red shale and red and white lime nods, 25% sand and cavings.
4200-10'	Like the preceding.
4210-20'	About 50% red shale and lime nods as above, 50% fine to very coarse conglomeritic sand (small) pebbles common, a few chert pebbles and a few of "basement" material.
4220-30'	Like the preceding.
4230-40'	No change.
4240-50'	Mainly fine to very coarse sand with small pebble-size grains common. A few pebbles of chert and of quartzite. A little red shale and lime nods.
4250-60'	Like the preceding.
4260-80'	No change.
4280-90'	Like the above, sand averaging still coarser than the above, some red shale (pos. cavings.)
4290-4300'	Conglomeritic sand as above, about 25% red shale. Some of the shale bright red and silty.
4300-10'	Conglomeritic sand as above, about 25% dark red shale.

4310-20' Conglomeritic sand and 10% shale.
4320-30' Like the preceding.
4330-50' No change.
4350-60' Conglomeritic sand as above, about 10% red shale which includes some fragments of bright red, slightly silty shale.
Note: (This bright red shale seems to appear in the same general part of the sections as lenses in the conglomeritic sandstone, but not a good general, but not close correlating point.)(See #45 and 46 on slide.)
4360-70' Like the preceding.
4370-80' No change.
4380-90' Bright red, somewhat gray mottled shale, many lime nods, about 50% cavings, little sand.
4390-4400' Like the preceding.
4401-10' Core # Rec. 10'? Top: Fine, even grained, red stained, slightly micaceous, soft sand.
Mid: Soft, dull red, coarse grained, highly argillaceous sand, matrix waxy.
Bot: Light red, medium to coarse grained, slightly micace ous sand. Many yellow-tinted, a few green grains.
4410-20' About 50% red shale, 50% fine to coarse sand and cavings.
4420-30' Like the preceding. A few fragments of a coarse grained sandstone. (See #47 on slide).
4430-40' Top of L. Zone Abundant fragments of pink, white and yellow mottled calcitic sandstone (Sand grains fine to moderately coarse). Small cly inclusions of several colors. (See #48 to 50 on slide).
4440-50' Like the preceding. Sand grains averaging moderately coarse.
4450-60' Calcitic multicolored sandstone as above with small clay and some small limestone inclusions or areas.
4460-70' Like the preceding.
4470-80' Sandstone as above and about 25% bright red, slightly silty shale.
4480-90' White, pink and yellow mottled calcitic sandstone in which sand varies from very fine to moderately coarse, sandstone contains small clay inclusions of various colored and has small, often sandy limestone areas, also variable in colors. About 25% of sample bright red shale.
4490-4500' Like the preceding.
4500-10' About 50% sandstone as above, 50% red shale and fine to coarse sand.
4510-20' Similar to the above, but little red shale.
4520-30' Red shale abundant lime nods. and sandy lime, large pebbles and fine to coarse sand. Some fragments of calcitic sandstone.
4530-40' Like the preceding.
4540-50' No change.
4550-60' Fragments of the multicolored calcitic sandstone and sandy limestone, some nods., lime, about 25% red shale and fine to coarse sand.
4560-70' Similar to above, but at least 50% cavings from U. Cretaceous.
4570-80' Mainly sandstone and sandy limestone and lime nods. as above, some red shale and fine to coarse sand. Some cavings.
4580-90' Material as above, and at least 50% fine to very coarse conglomeritic sand with many small pebbles of red, and of yellow quartzite, quartz, mustard colored and some red clay stone, a little chert, and a few of limestone and other material.
4590-4600' Like the preceding.
4600-30' No change.

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4630-40'	Cut of fragments of the pink white and yellow mottled calcareous, moderately coarse grained sandstone and some finely sandy limestone. Some pebbles of quartz, quartzite, clay-stone and some limestone and a little red shale and fine to coarse sand.
4640-50'	Like the preceding.
4650-90'	No change.
4690-4700'	Conglomeritic sand and multicolored sandstone as above, about 25% red shale.
4700-10'	Similar to the above, but about 50% red, slightly gray mottled, slightly sandy shale.
4710-20'	Sandstone, sandy limestone, some pebbles as above, 25% red shale.
4720-30'	Mainly red, silty shale and red stained lime nods.
4735-44'	Core #31 Rec. 9' Top 2/3 of core: Red, irregularly slightly sandy shale breaks with conchoidal fracture. Mid: Like the top. Bot: Dark red, silty shale, with irregular streaks and thin lenses of light gray green silty shale.
4750-60'	Red shale as in the core above and about 50% cavings from U. Cret. (See #51 on slide for character of shale.
4760-70'	Like the preceding.
4770-80'	About 50% red shale and fine to coarse sand, at least 50% cavings.
4780-4800'	Like the preceding.
4800-10'	Abundant fragments of white and pink and yellow sandstone, many of the fragments of quartzite-like. (Pos. many quartzite pebbles in a calcitic sandstone).
4810-20'	Abundant fragments of a medium to moderately coarse grained, red, white and yellow calcitic sandstone (See #52 and 53 on slide).
4820-30'	Sandstone like the preceding, some fragments hard and quartzite-like.
4830-40'	Sandstone like the above, some red shale.
4843-57'	Core #32 Rec. 7' Medium grained quartzitic sandstone with irreg. inclusions of red clay, mustard colored clay, light bluish gray, silty clay. The clays aresomewhat different in texture as well as color and seemingly derived from different sources,some limonite streaks in mustard colored clayey areas. Top of 2nd ft: Dark red, yellow and light blue green material, a mixture of waxy to sandy clay, to calcitic sandstone or sandy limestone, all jumbled together. Seems to be a reconsolidated mass of various material, in part indurated so that it can be sliced and polished. Soft portions of core between the "jumbled" and indurated lenses, composed of light greenish gray, argillaceous, fine, even grained sandstone. Bot of 3rd ft: Somewhat indurated greenish gray, red and mustard mottled highly silty clay. Bot of 4th ft: Has another hard, "jumbled" ~~very~~ Variegated colored lense. Bottom: Greenish gray and mustard, somewhat indurated highly silty clay, with irreg. coarsely sandy areas. Bot. of bottom of core, hard red silty clay with dull red limestone areas. One frag. has irreg. tubular shaped limestone (concretions?)
4850-60'	Frags. of a hard, quartzite-like white and yellow sandstone and many frags. of the hard lenses noted in the above core. Some fragments of the red shale.
4860-70'	Like the preceding.
4876-76.5'	Cores #33 & 34 - quartzite. Paleozoic.

E. R. Applin
May 4, 1950

W-2161

P120 (Driller's Log)
May, 1950

OWNER	:	Gulf Oil Corporation - Gulf Production Div
FARM NAME	:	Brooks-Scanlon, Inc., Block 37 No. 1A, (Permit No. 120) Lease No. 24522
LOCATION	:	460' south and 510' west of NE/cor SE/4, Sec. 17, T6S, R9E, 2 miles NW of Carbur
COUNTY	:	Taylor
ELEVATION	:	56.70' Grd; 67.7 DF
STARTED	:	February 20, 1950
COMPLETED	:	April 5, 1950
CASING	:	16" @ 39' w/50 sx; 10-3/4" @ 93' w/60 sx; 7-5/8" @ 1780' w/150 sx
DEPTH	:	4874' Schl; 4876' Driller
DRILLER	:	Fields and Randall Drilling Company
USE	:	Test for oil - dry and abandoned
REMARKS	:	*DST: 3510-3519; 1/4" T-3/8"B; open 20 min rec 3260' SW; BHFP 1625#

*Taken from Dixie Geological Service, date April 6, 1950.

Dup. Smpls. & Cores in wrhs.
4-15-75

0-1940	Lime
1940-2304	Lime and anhydrite
2304-2562	Chalk
2562-2680	Lime, shale & chalk
2680-2758	Chalk
2758-2837	Lime & chalk
2837-3041	Chalk
3041-3165	Shale
3165-3323	Chalky shale
3323-3510	Shale, hard, dark gray, micaceous
3510-3514	Sand, fine grain w/streaks of shale, salty
3514-3519	Sand, soft, fine grain, salty
3519-3550	Sand, soft, green, fine grain
3550-3555	Shale, med. soft, salty
3555-3560	Sand, soft, coarse grain - Top of Lower Cretaceous
3560-3797	Sandy shale
3797-3980	Red & gray sandy shale
3980-4047	Red & gray shale
4047-4401	Red & gray shale w/sand
4401-4441	Red sandy shale
4441-4735	Red & gray shale w/sand
4735-4744	Red shale
4744-4858	Red & gray sandy shale
4858-4876	Sandstone
4876-4876'6"	Quartzite

Note: Drilled to 39'. Set & cemented 16" csg. at 39'. Drilled 39' to 93'. Set & cemented 10-3/4" csg. at 93'. Drilled 93' to 1678'. Ran Schl. Elec. Well Survey at 1678'. Fishing job #1: While dismantling Schl. lost 15' x 5/8" logging chain in hole. Made 8 trips with various arrangements of spears and unable to recover fish. Made two trips with 9-1/2" Glove basket and recovered logging chain. Drilled 1678' to 1782'. Cored 1782' to 1822'. Set & cemented 1770' of 7-5/8" csg. at 1780'. Drilled 1822' to 3351'. C[illegible] 3351' to 3519'. Drill stem test #1: Ran Halliburton Test

Tool. Packer set at 3510'. 3/8" choke bottom, 1/4" choke top. Testing formation from 3510' to 3519'. Tool open 20 minutes. Had good blow. No top pressure. Pulled Test Tool and recovered 3250' salt water. Bottom Hole Flow Pressure 1625#. Hydrostatic Pressure 1850#. Cored 3519' to 3560'. Drilled 3560' to 3980'. Cored 3980' to 3990'. Drilled 3990' to 4395'. Cored 4395' to 4411'. Drilled 4411' to 4735'. Cored 4735' to 4876'6". Ran Schl. Elec. Well Survey to 4874'. Decided to plug and abandon account dry hole. Placed 50' cement plug 2850' to 2900', 50' cement plug 1730' to 1780' and 5' cement plug and bull plug in top of 7-5/8" csg.

13

W-2161
(Core Record)

OWNER	:	Gulf Oil Corporation - Gulf Productic Division
FARM NAME	:	Brooks-Scanlon, Inc., Block 37 #1A Permit No. 120, Lease 24522
LOCATION	:	460' south and 510' west of NE/cor of SE/4, Sec. 17, T6S, R9E, 2 miles northwest of Carbur
COUNTY	:	Taylor
ELEVATION	:	56.70' Grd; 67.7' DF
STARTED	:	February 20, 1950
COMPLETED	:	April 5, 1950
CASING	:	16" @ 39' w/50 sx; 10-3/4" @ 93' w/60 sx; 7-5/8" @ 1780' w/150 sx
DEPTH	:	4874' Schl; 4876'6" Driller
DRILLER	:	Fields and Randall Drilling Co.
USE	:	Test for oil - Dry and abandoned
REMARKS	:	DST: 3510-3519; 1/4" T 3/8"B; open 20 min; rec 3260' SW; BHFP 1625#.* 295 cuttings from 10 to 4860', were brought into the office by T. K. Arnold, Tallahassee Well Sample Cut. Lab., May 16, 1950 Cores from were brought into the office by T. K. Arnold, November 2, 1950. Schlumberger from 0 to 4874' Driller's log from 0 to 4876'6" *Taken from Dixie Geological Service, dated April 6, 1950

Core #1 1782-92' Rec. 2'
6-6-5-5-9-15-9-1-1-4
2' Dolomitic limestone - moderately hard, tan, slightly porous.

Core #2 1792-1802' Rec. 2-1/2'
4-3-6-8-4-2-4-3-5-3
2-1/2' Dolomitic limestone as above.

Core #3 1802-12 Rec. 1-1/2'
3-3-4-2-2-9-3-2-2-2
1-1/2' Dolomitic limestone as above.

Core #4 1812-22' Rec. 2'
2-2-1-1-4-2-5-16-15-17
2' Dolomitic limestone as above.

Core #5 3351-56' Rec. 4'
7-19-25-19-12
4' Shale - moderately hard, brownish gray, calcareous, dolomitic, micaceous, slightly sandy, scattered fossil shells fragments, speckled appearance.

Core #6 3356-64' Rec. 8'
15-23-28-27-29-34-27-27
8' Shale - as above, fish scales abundant, fish teeth common, portions become streaked w/lime.

13 A

Core #7 3364-70' Rec. 6'
30-23-21-20-23-28
5' Shale as above.
1' Shale interbedded w/moderately hard, light gray limestone, dolomitic, slightly sandy, fossil shells present.

Core #8 3370-80' Rec. 10'
7' limestone and shale interbedded.
3' sand - moderately hard, gray, fine grained, very valcareous, (almost limestone), argillaceous, micaceous, tight, No show. Cross bedding becomes very noticeable in lower portion (cross bedding of sand, and dark brownish gray shale as above).

Core #9 3380-3390 Rec. 10'
70-22-19-21-21-20-23-21-25-27
6' Shale and limestone interlensed.
0'6" Limestone - moderately hard, light gray, sandy, micaceous,
1'6" Shale - moderately soft, greenish gray, micaceous, slightly sandy, fissile, calcareous, carbonaceous, lower pieces have about 10° dip.
2' Shale and limestone interlensed - limestone predominant.

Core #10 3390-3400' Rec. 10'
32-33-20-9-26-28-25-19-18-36
3' Shale and limestone interlensed.
Top E.F. 6" Shale - moderately soft, greenish gray, waxy appearance, micaceous, occasional streaks of white sandy lime, good partings, beds get slight dip in lower portion, ammonites in upper portion.

Core #11 3400-3410' Rec. 10'
22-23-23-24-21-24-25-25
10' Shale - as above.

Core #12 3410-3420' Rec. 2-1/2'
24-30-34-28-38-42-35-21-25-33
2-1/2' Shale as above.

Core #13 3420-30' Rec. 5'
20-24-20-24-29-31-39-31-32-31
5' Shale as above, middle portion is lensed w/white chalky sand.

Core #14 3430-40' Rec. 7'
24-28-18-31-22-22-22-21-30-23
7' Shale - as above w/6" bed of light gray, hard, limestone 1-1/2' from bottom, bottom 1' very sandy, gas odor detected in middle portion, slickensides noted near top.

Core #15 3440-50' Rec. 9-1/2'
14-24-20-25-23-28-19-26-26-22
9-1/2' Sandy shale with stringers of sand, moderately hard, brownish gray w/light gray streaks, calcareous, micaceous, very fine sand, cross bedding in upper portion, sand beds in upper and middle portion 2" thick but generally varves, very fossiliferous, good parting.

Core #16 3450-60' Rec. 10'
21-24-18-25-22-19-17-18-21
10' Sandy shale w/stringers of sand as above.

Core #17 3460-70' Rec. 9'
22-24-26-22-20-21-22-25-20-20
9' Sandy shale w/stringers of sand as above.
2" Limestone bed 1-1/2' from top.

Core #18 3470-80' Rec. 10'
20-30-20-16-19-19-16-20-20-25
10' Sandy shale w/stringers of sand as above.
Thin varves are becoming rare w/sand being concentrated in thin beds (2" thick) scattered at intervals throughout core.

Core #19 3480-90' Rec. 7'
23-21-20-15-19-25-22-23-29-35
7' Shale - moderately hard, brownish gray, micaceous, calcareous, silty, slightly irregular parting, pyritic, numerous shell fragments and fragments of plant remains, slightly sandy, becoming sandy in lower portion.

Core #20 3490-3500' Rec. 7'
18-17-9-14-15-15-17-29-28-10
7' Shale and sand stringers.
Shale - moderately hard, dark gray, sandy, calcareous, good parting, slickensides noted in lower portion w/slight angle of dip to surrounding shale.
Sand - moderately soft, brownish gray, argillaceous, slightly calcareous in spots (usually non-calcareous), micaceous, glauconitic, fine grained, tight, No show.

Core #21 3500-10' Rec. 3'
13-8-11-14-9-6-6-9-7-7
3' Siltstone - moderately soft, brownish gray, very micaceous, calcareous, sandy, numerous slickensides at usually steep angle, dark gray shale found along line of slippage.

Core #22 3510-14' Rec. 1-1/2'
3-2-4-3
1-1/2' sand - soft, greenish gray, fine grained, clauconitic, argillaceous, micaceous, porous, salty.

Core #23 3514-19' Rec. 2'
7-4-4-3-3
2' Sand - soft, friable, green, fine, glauconitic, slightly argillaceous, very porous, very salty taste.

Core #24 3519-30' Rec. 10'
3-5-4-8-5-10-11-7-4-2-4
10' Sand as above w/1-1/2' bed of poker chip shale in middle portion, shale is light greenish gray in upper portion becoming dark gray at bottom.

Core #25 3530-40' Rec. 5'
2-3-3-3-3-6-6-4-6-6
5' Sand as above.

Core #26 3540-50' Rec. 6'
3-2-4-3-3-5-5-4-4-3
6' Sand as above becomes shaly in lower portion.

Core #27 3550-60' Rec. 10'
5-8-15-15-12-5-3-5-5-5
0'6" Sand - as above.
4'6" Shale - moderately soft, gray, micaceous, slightly calcareous, common plant remains, slightly sandy, good parting w/platey characteristics, pyritic (possibly floram casts)
5' Sand - soft, friable, light gray, coarse multicolored grains, salty taste.

Core #28 3980-90' Rec. 10'
1-7-6-5-6-8-7-7-8-23-15
10' Sand - soft, friable, red, medium grained, argillaceous, porous, salty taste, grains angular to subangular, clear, rose, and orange colored. Scattered grains of black argillaceous material.

Core #29 4395-4401' No recovery
14-12-10-15-17-9-3
No recovery.

Core #30 4401-4410' Rec. 10'
10-4-4-4-5-4-4-4-5
10' Sand - soft, friable, red, medium to coarse grains, subangular to subrounded, rose and yellow colored grains, argillaceous (red), streaks of red shale in middle portion. Shale streaks contain gravel subrounded and micaceous.

Core #31 4735-44' Rec. 9'
27-29-35-35-27-25-25-24-35
9' Shale - moderately hard, red, micaceous, highly slickensided in upper portion, blocky, micaceous, sandy (fine to medium grained) angular. Lower middle portion contains streaks of sand, moderately hard, gray, very fine grained, angular, very micaceous, tight, non-calcareous as is the shale.

Core #32 4843-57' Rec. 7'
31-45-19-16-31-24-19-40-35-28-35-29-15-31-44
7' Conglomerate - moderately hard in upper portion becoming moderately soft in lower portion, multicolored, gray, olive drab, purple, orange, predominantly sandy shale with occasional streaks of sand, contains clay balls of various colors, calcite crystals, pyrite crystals, vuggy along outside of core, possibly due to clay balls having been removed or possibly due to solution.

Core #33 4876-76'6" Rec. 0.5" 5 hrs. 1 minute
5" Quartzitic sandstone - gray w/streaks of purple color, verticle fracture, worm boring present.

TD 4876' (Drlr.)
TD 4874" (Schl.) Quartzitic sand.

Dry and abandoned: 4-5-50

WTy-6S-9E-17
W-2161
Chih Shan Chen

COMPANY	:	Gulf Oil Co.
WELL	:	Brooks-Scanlon, Inc. Block #37
LOCATION	:	Sec. 17, T6S, R9E,
COUNTY	:	Taylor
ELEVATION	:	67 D.F.
DEPTH	:	4874
COMPLETED	:	4-5-50
REMARKS	:	No sample at 130'-1822, etc. Electric Log available

CHEN 1963

0	30	OLIGOCENE
30	230	OCALA GROUP
230	375	AVON PARK LIMESTONE
375	1000	LAKE CITY LIMESTONE
1000	1500	OLDSMAN LIMESTONE
1500	1820	CEDAR KEYS LIMESTONE
1820	2370	UPPER CRETACEOUS (LAWSON LIMESTONE)
2370		UPPER CRETACEOUS (TAYLOR)

0	30	Highly fossiliferous LIMESTONE, finely fragmental to micro-coquina, light brown, porous, clean, small forams, Bryozoa, etc.
30	130	Highly fossiliferous, LIMESTONE, fragmental to microcoquina, brown, slightly porous, large forams as Lepidocyclina, Nummulites, Oper. etc., common
130	175	DOLOMITE, very fine to fine crystalline
175	205	Fossiliferous LIMESTONE as above
205	230	DOLOMITE, as above
230	155	DOLOMITIC (20%) fossiliferous LIMESTONE
255	285	Fossiliferous LIMESTONE

285	375	DOLOMITE, fine crystalline
375	390	Fossiliferous LIMESTONE
390	401	DOLOMITE, fine crystalline, carbonaceous materils
401	407	Black Peat(?)
407	412	DOLOMITE, as above
412	460	Fossiliferous LIMESTONE
460	470	DOLOMITE, fine crystalline
470	495	Fossiliferous LIMESTONE
495	510	DOLOMITE, (30%) fossiliferous LIMESTONE
510	530	Fossiliferous LIMESTONE
530	540	DOLOMITE, fine crystalline
540	580	Fossiliferous LIMESTONE
580	590	DOLOMITE, fine crystalline
590	615	Fossiliferous LIMESTONE
615	640	DOLOMITE, fine crystalline
640	710	DOLOMITIC (#30%) fossiliferous LIMESTONE
710	740	DOLOMITE, fine crystalline
740	795	Fossiliferous LIMESTONE
795	920	DOLOMITE, fine crystalline
920	990	Fossiliferous LIMESTONE
990	1000	DOLOMITE, fine crystalline, slightly gypsiferous
1000	1110	Fossiliferous LIMESTONE
1110	1120	Gypsiferous (30%) DOLOMITE, very fine crystalline
1120	1170	DOLOMITE, very fine to fine crystalline, slightly gypsiferous

1170	1250	Gypsiferous (10%) DOLOMITE, very fine crystalline
1250	1265	DOLOMITIC (30%) ANHYDRITE
1265	1300	DOLOMITE, fine crystalline, slightly gypsiferous
1300	1335	Gypsiferous (10%) DOLOMITE, very fine crystalline
1335	1355	Gypsiferous (30%) DOLOMITE, very fine crystalline
1355	1410	Gypsiferous (20%) DOLOMITE, very fine crystalline
1410	1470	Gypsiferous (10%) DOLOMITE, very fine crystalline
1470	1500	DOLOMITIC (30%) ANHYDRITE
1500	1580	DOLOMITE, microcrystalline, slightly gypsiferous
1580	1620	Dolomitic (30%) ANHYDRITE
1620	1700	Gypsiferous (10%) DOLOMITE, microcrystalline
1700	1820	DOLOMITE, very fine crystalline
1820	1890	DOLOMITE, fine crystalline, rather pure, sugary textures, thather dense, slightly gypsiferous
1890	1920	Gypsiferous (10%) DOLOMITE, fine crystalline, brown to gray-brown, rather pure
1920	2370	DOLOMITE and LIMESTONE interbedded
2370		Chalky LIMESTONE

FLORIDA BUREAU OF GEOLOGY - LITHO LOG PRINTOUT

W- 2161 (PERMIT NO-).
TAYLOR CO. T 6S R 9E SEC 17BD N W
TOTAL DEPTH- 4874 FT. ELEV.- 67 FT. SAMPLES- 0- 4874 FT.
COMPLETED- 50.04.05

WELL NAME-
BROOKS - SCANLON INC., BLOCK NO.37, GULF OIL CORPORATION
REMARKS-
WORKED BY NEIL COOK
NO SAMPLES 130-1822
0- 10 NO SAMPLE
10- 30 CRYSTAL RIVER (QUESTIONABLE)
30-130 CRYSTAL RIVER

LITHOLOGIC LOG
W- 2161 . TAYLOR CO. T 6S, R 9E, SEC 17BD

10.0 NO SAMPLE,
20.0 CALCAREN , YL GY, 08 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
BIOGENIC, SKELETAL, 90 PCT. ALLOCHEMS,SIZE- V F, RANGE-
V F-FINE, POOR IND, CLAY CMT, 05 PCT. SAND(QTZ),FORAMINIF,
FOSSILS ARE WEATHERED
30.0 AS ABOVE ,
40.0 CALCAREN , YL GY, 06 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
BIOGENIC, SKELETAL, 78 PCT. ALLOCHEMS,SIZE- V F, RANGE-
V F-FINE, MOD IND,MICRT CMT,FORAMINIF,
OPERCULINOIDES SP., LEPIDOCYCLINA, AND GYPSINA GLOBULA
50.0 CALCAREN , YL GY, 06 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
BIOGENIC, SKELETAL, 78 PCT. ALLOCHEMS,SIZE- V F, RANGE-
V F-FINE, GOOD IND,MICRT CMT,FORAMINIF,
60.0 AS ABOVE ,
70.0 NO SAMPLE,
80.0 AS ABOVE ,
90.0 AS ABOVE ,
120.0 NO SAMPLE,
130.0 AS ABOVE ,
TD

*** END OF DATA ***