

P. C. Crapps #1
Sun Oil Company
Section 25-6S-12E
Lafayette County, Florida
Elevation: 70' D.F.
Report By: E. R. Applin
Date: August 1947

Herewith report on samples studied from the Sun Oil Company, Crapps #1, Lafayette County, Florida.

- 2880-90 Cuttings of hd, lt gy & some wh chalky ls. Large washed residue of frags of the material, many Inoceramus frags & prisms. Pyrite nods fairly common. Some frags of other bivalves, possibly *Ostrea* sp & forams common. *Kyphopyxa christeri* noted. A small amount of dol in fine screenings.
- 2900-10 ? Like the preceding. Some specimens of a small var of *Planulina texana* & of *Globorotalia umbilicata* present. (*G. umbilicata* species)
- 2910-20 Like the preceding.
- 2920-30 Approx top Austin about 2925'. Like the preceding, pyrite more abundant, white ls frags more common.
- 2930-40 Similar to preceding, some brnsh gy irreg lt strkd frags of chalky ls present.
- 2940-50 Frags of lt gy & of wh chalky ls, many Inoceramus frags, some pyrite nods, fairly numerous forms. No diagnostic species noted.
- 2950-60 Similar to preceding, some frags of the typical, finely "spotted" chalky ls common to the Austin present, also many frags of a darker brnsh gy, marly, finely & irreg, wh strks sh.
- 2960-70 Like the preceding (2970-80)(2980-90)(2990-3000)(3000-10)(3010-20)(3020-30)(3330-40)(3040-50)(3050-60). No change.
- 3060-70 Cuttings of wh & of lt gy chalky ls & some frags of brnsh gy, somewhat wh strkd & spotted highly cal sh, also numerous frags of a wh ls mainly composed of very finely fragmental calcitised fossil material. Many Inoceramus frags & some forams. No forams with a narrowly restricted range noted.
- 3070-86 Cuttings of wh & of lt gy chalky ls & some frags of brnsh gy, somewhat wh strk highly cal sh. Many Inoceramus frags & some forams. (3080-90)(3090-3100)(3100-10)(3110-20').
- 3120-30 Cuttings mainly frags of wh, chalky ls. Some lt gy ls. Inoceramus frags fairly common.
- 3130-40 Cuttings of wh, chalky ls & of lt brnsh gy, finely & irreg wh strkd shaly ls. Some Inoceramus frags & forams.
- 3150-60 Core #64. Brnsh gy thinly laminated finely wh strkd & spotted marly sh.
- 3160-70 15 Core. Lt gy hd chalky ls. Finely broken calcitised fossil mat abund.
- 3170-80 67 Top: core mod, hd, lt tan gy, somewhat speckled ch. No forams noted.
Mid: Similar to preceding. Some *Globigeunas* noted.
Bot: Lt gy brnsh gy strkd chalky ls composed mainly of calcite mold of forams & fragmental calcitised fossil material. Specimens of *Globotruncana* & *Globigerina* abundant, some *Gumbelinas*.
- 3180-90 6 Cut of gy marl, lt tan chalky ls as above, some cavings.
- 3180-90 67 Core. Top: Lt brnsh gy, finely wh strkd & spotted chalky ls. Forams as above.
Mid: Mod hd wh chalky ls with very finely broken calcitic fos mat.
Bot: Lt brnsh gy, hd, somewhat wh strkd & spotted chalky ls. No change in fauna.

- 3190-3200⁶⁸ Lt gy strkd mod hd ls, contains an abundance of very finely broken calcitised fossil mat.
- 3200-10 ⁶⁹ Top: Mod hd gy, somewhat wh strkd marl.
Bot: Gy marl as above, some frags highly wh & tan strkd & spotted with finely broken & crushed fos mat & hd wh chalky ls filled with finely broken calcitised fos mat.
- 3210-20 ⁷⁰ Top: Gray, finely wh strkd & spotted marl as above. Material contains some macro-fos frags & numerous forams & hd wh ls which is a mass of fragmental, calcitised fos material Gumbelina reussi & Globigerina cf. cretacea common forams present.
Bot: Gy highly brn & wh speckled & strkd chalky marl. Imprints of Inoceramus & many frags. Some fish scales. Gumbelina & Globigerina the dominant foram general present.
- 3220-30 ⁷¹ Top: Gy marly finely lt strkd & spotted marl, fauna similar to that noted above.
Bot: Similar to preceding but darker gy in color.
- 3230-40 ⁷² Cuttings mixture of ls & marl noted above.
- 3240-50 ⁷³ Core brnsh gy, finely white strkd & spotted marl. An abundance of finely broken calcitised fos mat present in marl, including many frags of Inoceramus & numerous forams. Globigerina sp, Gumbelina reussi & some Globotruncana sp present.
Sec. ft: Like the preceding fossils not so well preserved.
3th ft: Dk brnsh gy finely lt strkd & spotted marl. Mat contains an abundance of calcitic micro-fos & fragmental fos material. Gumbelina reussi very common.
4th ft: Like the preceding.
5th ft: No change.
6th ft: Material as above & strks of hd brnsh gy, highly lt strkd & spotted ls (a mass of micro-fossil & finely broken calcitic fos material). Inoceramus frags common, some fish scales, forams species as above.
7th ft: Like the preceding.
8th ft: No change.
- 3250-60 ⁷⁴ 1st ft: Gy finely wh strkd & spotted chalky marl & ls filled with fine calcitised fos mat. Some fish scales & some fine treads of carb mat present. Foram fauna same as for preceding samples. The more chalk portions of the core, also contains an abundance of minute globular bodies, characteristic of lower portion of Austin.
2nd ft: Darker gy material & fauna as above.
3rd ft: Brnsh gy "speckled" marly ls similar to the preceding.
4th ft: Similar to above, but lt & dk strkd.
5th ft: Possible top of E.F.(?) or Transition beds of Austin. Mat. as above & a lense of very hd, dse, crypto-crystalline (dolomitic?) light tan gy ls. see next p.
6th ft: Dk gyish brn highly "speckled" sh. Many Inoceramus frags. Globigerina, Gumbelina & Globotruncana the dominant forams present.
7th ft: Finely banded gy & wh "speckled" marl, fauna as above.
8th ft: Mod Hard lt gyish tan chalky ls filled with calcitised forams & finely fragmental fos material. Portions of core showing abundance of small globular bodies common to the Austin. No change in fauna.
9th ft: Brnsh gy, highly & finely strkd & "speckled" highly micro-fos marl, similar to preceding.
10th ft: Laminated, "speckled", brnsh gyish marl like the preceding, no faunal change.

3260-70 75

Approx.
Top
Eagle
N. Ark.

1st ft: Like the preceding,

2nd ft: Hd lt gy, dense crypto-crystalline (dolomitic?) ls.

3rd ft: Gy, laminated marl, irreg finely strkd & speckled fauna

same as for the preceding samples.

4th ft: Gy "speckled" laminated marl as above & some lenses of hd lt gy ls showing an abundance of small calcitic frags of fossil material & forams (species same as above). Ls portion of core also show an abundance of small Globular bodies. Fauna as above with the addition of fairly numerous specimens of Planulina eaglefordensis.

5th ft: Gy, laminated strkd & speckled marl. Forams generally too poorly preserved to be identified.

6th ft: Material as in 4th ft, but fauna generally too poor to be identified.

7th ft: Brnish gy, laminated, highly & finely strkd & "speckled" marl. Many Inoceramus frags & much finely fragmental calcitic microfoss material. Few forams well enough preserved to be identified.

8th ft: Gy "speckled" marl as above & lenses of hd, crm colored, somewhat sandy fos ls with Inoceramus frags & frags of a small Pecten(?) & numerous forams. Planulina eaglefordensis present. Some fish bones.

9th ft: Gy, laminated finely wh strkd & "speckled" chalky marl.

10th ft: Like th preceding. Some fish bone & scales. Forams present but poorly preserved.

3270-80 76

1st ft: Lt brnish gy, finely & highly lt strkd & speckled, marly ls. Inoceramus frags & some forams.

2nd ft: No change.

3280-90 77

1st ft: Dk gy, fine wh strkd & speckled marl. Some fish scales. Globigerina & Gumbelina reussi fairly common.

2nd: Dk bluish gy marl sh with irreg highly microfoss strks. Frags of an Ostrea like bivalve & many specimens of Globigerina sp present.

3rd: Dk bluish gy marly sh lt strkd & spotted with fragmental fos material but less highly so than at higher levels.

4th: Like the preceding.

5th: Gy finely mica, irreg "speckled" marl. Speckled fos lenses, irreg distributed.

6th: Gy & brnish gy, finely lt strkd & spotted marl. Some mica noted. Forams present but usually poorly preserved.

7th ft: Dk gy finely lt strkd & "speckled" marly sh.

8th ft: Similar to above sh somewhat lighter in color

9th ft: Dk gy finely lt strkd & "speckled" sh. Some fish scales & bones.

3290-3300 78

1st ft: Like the preceding.

2nd ft: A somewhat sdy tan gy highly "speckled" marl. Material is a mass of finely broken, fossil material. Frags of fish bones & teeth & other phos matter common. Worn shell frags & some glauconite also noted. Gumbelina mooremani & Globigerina sp common.

3rd: Dk gy highly lt speckled & strkd marl. Some forams & shell frags. A few fish bone frags.

4th: Lt tan gy very finely speckled marl or marly ls.

5th ft: Dk gy, finely strkd & speckled marl.

6th ft: Lt gy somewhat speckled, chalky & marly ls.

7th ft: Like the preceding.

8th ft: " " " Globigerina sp & Gumbelina mooremani the common forams noted.

- 3300-10 79 Top: Darker gy marl similar to preceding in character. Some fish scales & a few forams. A few sand grns.
 Mid: ~~Base of Austin Transition or of bed: E. Ford?~~ Similar to about, but in part mod coarsely sdy. Sd is unevenly distributed, mod size of grn, rounded qtz. Some grains of blue-grn glauc present & a few phosphatic nods. Sd content of sample about 10%. ~~Top of L. Atkinson.~~
 Bot: SS glauc ~~(at top of L. Cret. Hornsby?)~~ Top of Glauc & Phos SS Section. Fine to mod fine clear, rounded qtz ss. Some phosphatic frags & a little glauc, ss is cal.
- 3305 S.W.C. Gray sh with mod coarsely sdy irreg strks a little glauc.
 3907 S.W.C. Black sh with imbedded mod fine scattered sd grns & some pyrite. No fossils noted.
- 3308 S.W.C. Soft, lt gy, glauconitic sd.
 3309 S.W.C. As above, and fine to coarse, glauc clear qtz sd.
 3310 S.W.C. as Above.
- 3310-20 80 Mod fine, mod even grnd, glauc clear qtz sd.
 Mid: Sd as above, some phos nods & fish bones, some glauconitic.
 Bot: Fine to mod coarse argil sub-angular clear qtz sd. Some glauconite & a little phosphatic material.
- 3320-29 81 Fine to mod coarse, sub-angular, argil lt gy sd.
 3329-39 82 Top: Soft lt gy ss, sd grns clear qtz fine to mod fine, some imbedded glauc & gy & blk phos nods, also mica, irreg distributed. Some frags of blk mica sh (possibly also nod in the ss.).
 Bot: Like the preceding.
- 3339-49 83 Lt gy sd fine to mod fine, clear qtz ang to sub-ang. Glauc & phos nods fairly common. Some of phos material show bone structure. Some mica present.
- 3349-59 84 Argil, soft lt gy ss, like preceding. Glauc & phos somewhat mica.
 3359-69 85 Rec. 3'. Like the preceding.
- 3369-79 86 1st: Lt gy ss, very fine to mod coarse (many of the grns show some crystal faces). A few pink tinted grns. Some glauc & phos material as above. Some mica, ss is loosely consolidated little cement.
 2nd: Similar to above, but fine to coarse, some small pebbles present
 3rd: L. Cret? contact. Conglomeritic qtz sd, grns fine to very coarse (small pebbles of quartz, some pink tinted). No glauc or phos noted. Cement wh & somewhat unctuous.
 4th: Crm colored soft, argil ss, amorphous pyrite common, trace of glauc. A few nod fine grns. Sd is clear qtz with a few pink tinted grns. ^{Schistosity?}
- 3379-89 87 Rec. 3'. Top: Crm colored argil ss grns very fine to coarse in size, some pink tinted grns. Cement soft & ashy, small in quantity, some crystalline pyrite.
 Bot: Lt crm colored soft ss grns fine to mod coarse, mainly clear qtz, some pink tinted grns, some feldspar.
- 3389-99 88 1st: Very fine grnd crm colored soft ss. Grns very fine to fine clear qtz.
 2nd: Similar to above, sd not so well sorted, some coarse grns present.
 3rd: As above, pink tinted grns common.
 4th: Sd as above with irreg strks & inclusions of mustard colored sdy clay & light bluish grn waxy sdy sh. More cement (wh, ashy) in preceding part of section.
 5th: Lt brn, mustard colored & lt bluish gy sdy waxy clay. A few red areas.

- 3389-99 6th: Smooth gy sh. Irreg sd. Sd grns mod fine, poorly sorted. Material somewhat micaceous. Some peculiar pitted areas with large flakes of grn mica. Also gy, argil mod fine grnd ss mod large colorless mica flakes common. Some parts of this portion of core gyish purple & light blue grn, highly sdy, waxy sh. Some crystals of pyrite present. Bot 2': Fine to coarse, argil crm colored soft ss. Cement crm colored, waxy, sdy grns, sub-ang to rounded. Some gy grns, a few pink grns.
- 3399-3409 84 Top 1': Fine crm colored, argil ss. Cement appears chalky in texture, small in quantity. Irreg bright yel strks & stains.
Bot 3': Same as above.
- 3409-15 90 Top 2': Very fine grnd argil ss, deep mustard colored.
Bot 2': Grnish yel, brownish red strkd argil ss, very fine grnd. Some wh areas.
- 3415-25 91 Top 4': Very fine grnd, argil mustard colored ss, some reddish strks, Bot 3': Mottled wh & grnish yel very fine grnd argil ss.
- 3425-35 92 Top 2': Wh & grnish yel brn argil fine grnd ss, vein like thin red-brn iron strks extend into wh area from the yel-brn.
Bot 1': Mottled deep yel & wh highly argil, fine grnd ss.
- 3435-45 93 Top 2': Wh & lt yel, fine grnd, argil ss. Little cement.
Mid 3': Mottled lt red, yel & wh ss, sd grns mod fine, little cement.
Bot 2': Lt brick red, argil ss. Sd grns fine to mod fine.
- 3445-55 94 Rec. 1'. Lt brick red, fine to coarse grnd, argil ss & some lt blue gy, unctuous sl sdy sh.
- 3455-65 95 Rec. 8'. Lt brick red, slightly mustard strkd fine to mod fine grnd argil ss. Cement small in quantity.
- 3465-75 96 Rec. 2'. Purplish gy, somewhat brick & grnish yel mottled argil fine to mod fine grnd ss.
- 3475-85 97 Top 18": Lt brick colored ss, little cement. Sd grns mod fine to coarse, some pink & yel stained qtz. Feldspathic grns common.
Bot 36": Lt pinkish red & gy somewhat mustard mottled extremely finely sdy clay.
- 3485-95 98 Top: Dull lt reddish brn, highly mica argil, soft ss. Sd grns mainly mod fine to mod coarse.
Bot: Same.
- 3495-3505 99 Rec. 2'. Fine to coarse red stained mica sd. Sd mainly rounded qtz some feldspar.
- 3505-15 100 Rec. 15". Mottled dull gyish purple & lt grnish gy sd & waxy sdy sh.
- 3515-25 101 Rec. 6". (sample apparently mud only).
- 3525-35 102 Rec. 18". Top 6": Dull brick red, highly and finely mica sh, some yellowish grn clay inclusions. Some bluish grn areas.
Bot 12": Lt blue gy & dull brick red mottled silty clay.
- 3527 S.W.C. Dull brnish red, sdy clay sh. Some blue grn mottling.
- 3535-45 103 Rec. 4'. Top 2': Dull brick red & lt blue grn mottled, a few mustard strks waxy irreg somewhat sdy clay sh.
Bot 2': Dull brick red ss argil sd grns mainly mod fine.
- 3545-55 104 Rec. 2'. Lt dull red, bluish gy & mustard argil very fine grnd ss.
- 3555-65 105 Rec. 18". Soft dull brick red, mod fine to coarse grn ss sl argil.
- 3565-75 106 Rec. 4'. Top: Mottled, mustard & gyish purple sl sdy, unctuous clay. Sd is mod fine to mod coarse.
Mid: Mottled gy, purplish & yel brn very fine to fine grnd, argil ss.
Bot: Mottled mustard & brnish red, argil ss. Sd grns mainly fine to mod fine. Some coarse grns.
- 3575-85 107 Rec. 2 1/2'. Top 12": Mottled mustard, lt gy & dull lt brick red, highly & finely mica siltstone. Sd & silt irreg distributed in a mod hd clay.
Bot 18": Dull brick red, mod coarse grnd argil ss.

- 585-95¹⁰⁸ Rec. 5'. Top 2': Dk dull brnish red mottled with lt blue gy finely mica silty clay mod hd.
Mid 1': Brick red, mica, argil fine to mod fine grnd ss.
Bot 18": Dull brick red, lt blue gy spotted siltstone.
- 3595-3605 Rec. 4'. Top 2': Dull brnish red & lt-grn mottled mica fine grnd ss.
¹⁰⁹ Mid 1': Lt purplish red argil fine grnd ss.
Bot: Mottled lt brick red & lt gy argil ss & sd clay sh. Sd is mod fine & irreg distributed in a red & gy mottled shaly clay.
- 605-15¹¹⁰ Rec. 2'. Top 4": Lt purplish red argil ss.
Bot 20": Crm colored, soft, argil mod fine grnd ss.
- 3615-25¹¹¹ Rec. 7'. Top 6": Lt gy, mustard & pinkish gy strk argil mod coarse grnd ss & lt blue gy & mustard colored hd unctuous sh, conchoidal break.
Mid 14": Wh & pinkish soft very fine grnd ss.
3rd 20": Dk brnish red & lt blue grn mottled mod hd clay sh.
4th 18": Grnish wh fine, even grnd, slightly argil soft ss.
5th 6": Mottled mustared, gy & purplish gy irreg silty & finely sdy, somewhat finely mica mod hd clay.
Bot 20": Wh & pinkish loosely consolidated mod fine grnd sl argil ss.
- 3625-35¹¹² Rec. 6'. Top: Similar to bot above. Sd less well sorted.
Mid: Like above.
Bot: No change.
- 3635-45¹¹³ Dull brnish red & lt blue & granish blue mottled irreg sdy clay.
- 3645-55¹¹⁴ Top: Lt grnish gy, sl pink tinted soft argil ss. A few crystals of pyrite, some mottled mustard lt gy & gyish purple hd clay strks. Sd is fine to coarse.
Mid: Dk purplish red & lt blue grn & somewhat mustard mottled silty, mod hd shaly clay.
Bot: Dk purplish red, somewhat mustard & lt gy mottled hd sh.
- 3655-65¹¹⁵ Top 1': Like the above, but finely silty.
Mid: Lt pinkish wh, sl argil, fine to mod fine grnd soft ss.
Bot: As above, finer grnd.
- 3665-75¹¹⁶ Rec. 7'. Top: Lt crm colored pink tinted soft, sl argil ss. Sd grns fine even sized clear qtz. Sub-angular.
Mid: No change.
Bot: " "
- 3675-85¹¹⁷ Top 6": Like the above.
Sec. 4": Lt blue gy, mustard brn mottled highly silty to finely sdy clay.
3rd 3": Soft, crm colored, very fine grnd, somewhat argil ss, showing some blk strks of carb? mat.
4th 4": Mod, hd very fine grnd, argil & somewhat mica ss, mustard & lt blue gy mottled.
5th 3": Lt blue-grn, purplish red mottled shaly clay & a very hd siliceous strk red-brn & mustard mottled material shows irreg filling of silica or chalcealony separating & enclosing irreg shaped ang frags of hd clay.
6th 10": Dull brnish red, slightly lt blue gray mottled mod hd, somewhat silty clay.
7th 8": Lt blue gy somewhat red mottled highly argil very fine grnd ss.
Bot 22": Soft, fine grnd lt blue gy argil ss.
- 3685-95¹¹⁸ Rec. 2 1/2': Top 6": Crm colored, mod fine grnd argil soft ss.
2nd 21": Gy, somewhat mustard mottled argil conglomeritic ss. Sd is fine to coarse, with some pebble sized grns.
3rd 3": Break? Dk gy sh with some small irreg shaped pyritic areas & occasional sd grns, some small flakes of carb. material. A trace of glauc. (chert?)
- 2. Break*

- 3695-3705 Rec. 8". Rec. 5": Material looks more like mud. Reddish & lt gy, coarse argil sd.
 Bot 3": Large hd pebbles of quartzite red mustard & gy mottled.
- 3705-08 120 Rec. 3" (core?) Seems to be sdy mud & a large gray pebble.
- 3708-81 121 Rec. 1". Wh quartzite (part of a large pebble).
- 3700-10 Cuttings. Frags of quartzite & small pebbles of quartz.
- 3719-31 122 Top: Rec. 2' hd, mica, shaly clay, lt blue, grn, dull purplish red mottled clay sh, some of the mica gold-brn.
 Mid: Lt purplish gy, very fine grnd, argil & highly mica ss. Blue-grn & reddish brn, small mica flakes common.
 Bot: Like the preceding.
- 3730-40 123 1st: Fine gravel, many frags of quartzite wh & reddish.
 2nd: Same as above.
- 3737-44 } Top: Fine grnd, mica, lt grnish blue, argil ss, some irreg strks, grayish purple sh.
 Mid: Gy, argil fine grnd ss & mottled dull brick red, purplish red & some gy mica, irreg sdy sh.
 Bot: Red mica clay sh as above.
- 3744-49 124 Rec. 1' mottled dull red & lt blue, argil, fine grnd ss. Some mica. Core deep blue-grn & dull purplish red mottled large chert pebble.
- 3749-54 125 Rec. 3'. Top: Dull red, mottled with some mustard & blue gray, shaly, fine grnd ss or highly sdy sh. Sd about 50%.
 Bot: Mottled lt purplish red, mustard & gy, argil, fine grnd ss.
- 3754-69 126 Rec. 3': Top: Dk brock red, soft, mod fine, even grnd, rounded grnd, argil ss.
 Bot: As above. (middle zone - age?)
- 3769-74 128 Rec. 2' lt gy somewhat lavender & deep yellow mottled argil ss. Some irreg shaped areas made up of calcite crystals, other highly calcitic some portions cryptocrystalline ls.
- 3774-80 129 Rec. 3'. Lt grnish gy, purplish red & deep yel mottled, fine to mod fine grnd soft ss.
- 3780-83 130 Rec. 1'. Like the preceding.
 Bot: Hd wh, sucrose, sl sdy dolomitic? ls.
- 3784 S.W.C. Softer material, red brn strkd, similar to preceding. (not a clean core).
- 3783-88 131 Rec. 3 1/2'. Mod hd, lt grn, finely sdy dolomitic? soft ls. Sd about 25%.
- 3788-93 132 Rec. 2'. Mod fine grnd, lt pinkish gray, argil ss & lt grn & purplish gy mod finely sdy sucrose dol. (Sd about 50%).
- 3793-98 133 Rec. 2'. Lt purple, highly argil (unctuous) fine grnd ss & large pos. nodular inclusions or areas of lt greenish gy sdy dol, a trace of hyp.
- 3798-3803 134 Rec. 2'. Purplish to brnish red finely sdy clay with large lt grn, somewhat sdy dolomitic areas.
- 3803-11 135 Rec. 4'. Top 3 1/2': Purplish red, somewhat deep yel mottled argil, fine grnd shaly ss.
 Bot 1/2': Brnish to purplish red fine grnd, argil ss with abundant large nod of wh dolomitic ls. (very 2)
- 3811-21 136 Rec. 2'. Like the above.
- 3821-31 137 Rec. 1'. Lt purplish gray, fine grnd, argil, ss. In part hd.
- 3835-41 139 Rec. 1'. Lt purplish, deep yel mottled fine to mod fine grnd, hd argil ss.
- 3841-45 140 Rec. 2'. Ss brnish red & wh mottled, mod hd, mod fine grnd cal.

- 3845-55 141 Rec. 4 1/2'. Top 3': Bluish gy & brnish red irreg sdy mod hd sh.
Bot 1 1/2': Mottled brnish red & lt blue gray irreg sdy sh with highly cal dolomitic irreg nodules & inclusions.
- 3855-60 142 Rec. 6": Lt brnish red & lt blue grn mottled, very fine grnd, argil ss
- 3860-70 Cut. Mixture of quartzite frags, sd & cavings from much higher depths.
- 3870-90 Same as preceding.
- 3877-87 143 Top: Rec. 9' brick red, soft, argil fine grnd ss.
Bot: Pinkish to brnish red ss as above.
- 3887-92 144 Rec. 1' lt blue gy, purplish & reddish brn strkd mod hd, fine to mod fine grnd ss.
- 3892-3902 145 Rec. 10'. Top 1': Mottled cream & lt reddish brn highly argil ss with highly cal (dolomitic?) areas.
Mid 3': Mottled gy red brn & yellow brn, argil & cal ss.
Bot: Mod soft, brnish red & lt gray mottled fine argil ss.
- 3902-12 146 Rec. 3'. Top 2': Mottled pinkish deep yel & gray, conglomeritic ss irreg highly cal areas & pebble like inclusion of dk red brn (linionite weathered schist?). Sd grns fine to coarse.
Bot 1': Material softer but similar to preceding.
- 3912-17 147 Top 3'. Rec. 5'. Lt gray dense dolomitic ls with irreg area of pink tinted & yel brn, material is irreg sdy.
Bot 2': Purplish red, deep yel & gy mottled argil, fine grnd ss with hd sdy ls areas.
- 3917-22 148 Rec. 5'. Top 4': Lt purplish red, deep yel & wh fine to very fine grnd argil ss.
- 3922-28 149 Top: Rec. 5' like the preceding but with some ls areas.
Bot: Argil ss similar to above in color. Sd grns etc, but highly & irreg veined with calcite & abundant irreg shaped, dense ls areas.
- 3928-34 150 Rec. 6'. Top: Lt purplish red, mustard & some lt gy mottled, highly & finely sdy cal sh.
Mid: Colors same as above, but argil ss with many hd, irreg shaped, dse (in part sdy) ls areas.
Bot: Lt blue, purplish red mottled (some small deep yel strks) fine grnd, argil, shaly ss.
- 3934-38 151 Rec 2'. Like the preceding. Also some lt green, sdy clay, in part dolomitic & sl gypsiferous.
- 3938-48 152 Rec. 8'. Top 2': Purplish red, mustard mottled argil clay with irreg veins & areas of dolomitic ls.
2nd: Lt grn, very fine grnd argil ss.
3rd: Purplish red, gy & deep yel mottled highly sdy sh with abundant highly calcitic dolomitic ls areas.
- 4th 1': Mottled yellowish brn, purplish red & lt grn mod hd dse, fine grnd ss, some areas so dense as to be almost a quartzite, some pink ls inclusions.
Bot 1': Purplish red, mustard & lt gy mottled, mod hd cal ss, abundant strks & areas which are ls.
- 3948-58 153 Rec. 5'. Top: Mustard, purplish pink & lt gy argil fine grnd ss. Some irreg quartzitic areas.
Mid: mottled argil, fine to mod fine grnd ss. Colors as above.
Bot: Like the above & large pebbles like quartzite frag.
- 3958-64 154 Rec. 18". Soft purplish gray argil fine grnd ss.
- 3964-70 155 Rec. 18". Top: Ss as above grayish purple in color, some yellow mottling.
Bot: Red ss & a large quartzite nod (prob a part of a boulder).
- 3970-72 156 Rec. 1'. Mottled mustard gy & purplish red, argil fine grnd sd with irreg areas or concentration of sd ls (cryptocrystalline).
- 3972-74 157 Rec. 2'. Like the preceding.

- 3974-78 158 Rec. 18". Lt blue-gray, somewhat yel mottled, soft, argil, fine grnd ss.
- 3978-80 159 Rec. 1'. Wh, grayish purple & yel mottled hd, cal ss & sdy ls. A frag of a large quartzite pebble.
- 3980-81 160 Rec. 1'. Wh & yel brn, cal ss & sdy ls (irreg distributed thru the core). Trace of gyp.
- 3981-84 161 Rec. 2'. Yel & wh argil ss & grayish purple, lt grn & brnish yellow mottled argil, slightly mica ss with irreg ls strks & areas.
- 3984-93 162 Rec. 4'. Lt grn & lt purplish red mottled argil highly cal fine to mod fine grnd ss, many ls areas, some gyp?
- 3993-98 163 Break. Pos top of Paleozoic or def. phase of. weathered part of true Paleozoic Top: Hd unctuous grnish blue & reddish brn mottled unctuous sh (some yel areas). Some lenses very highly mica, shistose in character. Bot: Deep grnish blue somewhat yel brn mottled highly micaceous (colorless) sh.
- 3998-4003 164 Rec. 1 1/2'. Multicolored (grn, blue, grn, brnish & purplish red, & gy) argil sd & dk purplish red mica sh. Seems to be an argil sd with irreg sh strks with highly mica lenses in the sh. Some rounded, pill shaped, finely granular small concretions present, somewhat similar to same seen in blk Paleozoic rocks in an earlier well.
- 4003-98 165 Top: Brnish red & lt turquoise blue, very highly mica, irreg sh & shaly ss. Mid: Like the above. Bot: Dk red brn, very highly mica sdy sh.
- 4008-13 166 Top: Rec, 5' dk brnish to purplish red, bright turquoise blue mottled, very highly mica, shaly, shaly siltstone. Mid: Turquoise blue sl yel brn mottled, very highly mica sh with irreg sdy areas. Bot: Red brn, very high mica sh, some turquoise blue areas, some parts of core finely silty.
- 4013-18 167 Rec. 5'. Top: Dk brnish red & turquoise blue, very highly mica, shaly siltstone. Mid: Dk purplish to brnish red, very highly mica shaly ss. Bot: Dk brnish red & turquoise blue, very highly mica sh & shaly ss.
- 4018-22 168 Top: Rec. 4' Blue gy & red brn, very highly mica, hd ss. In part almost a quartzite. Mid: Ss similar to above, but softer & with a shale matrix. Bot: Dk red brn very highly mica sh. Irreg highly sdy areas.
- 4022-29 169 Top 5': Turquoise blue & red brn, very highly mica shaly ss. Bot 2': Dk brnish gy, very highly mica shaly ss
- 4029-34 170 Top: Lt gy hd mica very fine grnd ss with frequent thin gray very highly mica sh strks. Mid: Hd gy fine grnd ss & thin lenses of dark brnish gy very highly mica sh. Bot: Brnish gy highly mica sh strkd ss & blk finely mica sh.
- 4034-42 171 Top: Rec 8' dk gy, very highly mica shaly mod hd ss. Mid: Lighter brnish gy ss like the above, some irreg thin flaky highly mica blk sh strkd. Bot: Very dse gy fine grnd non cal ss, irreg strkd with brnish blk very highly mica sh.
- 4042-47 172 Rec. 5'. Top: Like the preceding. Mid: No change. Bot: " "
- 4047-51 173 Top: Lt grnish gy, mod fine grnd, hd, very dense ss with many thin lenses composed almost entirely of brn mica flakes. Some lenses of brnish blk highly mica sh.

- 4047-51 Mid: As above, sh distribution irreg.
Bot: Very dense fine grnd lt gray sd. Sd with abundant very thin lenses of brnish blk very highly mica sh.
- 4051-56 174 Top: Thickly mica sh strkd very dense, fine grnd, lt grnish gy ss.
Mid: Very dense (almost a quartzite) very fine grnd gy ss. A few thin highly mica blk sh lenses.
Bot: Ss as above, abundantly & somewhat irreg strkd with thin blk very highly mica sh lenses.
- 4056-64 175 Top: No change.
Mid: Ss softer less highly sh strkd.
- 4064-65 176 Very hd, very dense (quartzite?) very fine grnd bluish gy, slightly mica ss.
- 4065-70 177 Top: Mod hd, brnish blk mica sh & some irreg strks of fine grnd bluish gy ss.
Mid: Mod hd, lt gy, fine grnd mica ss, irreg thin strks & lenses of brnish blk very highly mica sh.
Bot: Material as above. Ss more indurated.
- 4070-75 178 Top: Lt gy, very dse fine grnd ss. Many abundant irreg strks of brnish blk very highly mica sh.
Mid: Thinly laminated very dense lt grnish gy ss. Laminu consist of thin lenses of slightly shaly dk brn mica.
Bot: Like the above.
- 4075-77 179 Rec. 2'. Hd dense, lt grnish gy ss with thin, irreg shaly mica strks.
- 4080-90 Cut. Dense lt brnish & greenish fine grnd ss & brnish blk very highly mica sh, also cavings of other materials from higher depths.
- 4090-4100 Cut as above. Abundant cavings.
- 4100-10 " No change.
- 4110-20 " " "
- 4120-30 " " "
- 4129-33 180 Core. Rec. 4'. Hd, dense, fine grnd ss thickly strkd with thin lenses of blk very highly mica sh.