

Georgia Geological Survey well no. 146

Toombs County, Georgia, drilling permit no. 6

Tropic Oil Company, B. M. Brown no. 1.

Total depth 3185 feet

Geophysical datum: none--no logs made; ground level is
198 feet; if drilling platform is 10 feet, reference
may be 208 feet.


logged by C. Robert Hilliard, October 1976

note. an asterisk* indicates a micromaterial slide was made.

- 0-485 no samples
- 485-495 Hard, pale yellowish brown 10YR6/2. phosphate abundant, fossiliferous, vitreous, medium sorted, fine to coarse grained (1/4-1mm), cherty (2%) sand 98%, very fossiliferous, nearly a coquina; rose quartz present. *unconsolidated*
- 495-505 as above *apert forams shell fragments*
- 505-515 as above *ostracods, Bryozoa*
- 515-525 as above *none distinctive*
- 525-535 as above
- 535-545 as above, but an increase in phosphate
- 545-555 hard, pale yellowish brown 10YR6/2, phosphate as above, less fossiliferous, rose quartz, vitreous, medium sorted, fine to coarse grained (1/4-1mm) cherty (2%) sand.
- 555-565 Hard, pale yellowish brown 10YR6/2, phosphatic, cherty, fossiliferous, dull, crystalline (very fine crystals), sandy (10%), limy (40%) dolomite. Sand is unconsolidated as above.
- 565-575 as above
- 575-585 as above
- 585-595 Hard, pale yellowish brown 10YR6/2, phosphatic, cherty, less fossiliferous, dull, crystalline (very fine crystalline), limy (5%) sandy (10%) dolomite. Sand unconsolidated as above.
- 595-605 Hard, pale yellowish brown 10YR6/2, phosphate abundant, vitreous, fossiliferous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) quartz sand.
- 605-615 Hard, pale yellowish brown 10YR6/2, micaceous, feldspathic, phosphate abundant, glauconitic, limonitic, rose quartz, iron stained quartz, fossiliferous, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) quartz sand.
- 615-625 no change
- 625-635 as above
- 635-645 as above; dolomite fragments are cavings?

Tampas

- 645-655 Hard, pale yellowish brown 10YR6/2, micaceous, feldspathic, abundantly phosphatic, glauconitic, limonitic, rose quartz, iron stained quartz, fossiliferous, includes megafossil fragments, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) limy (20%) sand.
- 655-665 as above *Rot Mex sign.*
- 665-675 as above, forams
- 675-685 as above, forams
- 685-695 same
- 695-705 same
- 705-715 Hard, pale yellowish brown 10YR6/2, micaceous, feldspathic, glauconitic, limonitic, fossiliferous (decrease in megafossil fragments, now 10% fragments), forams, rose quartz, iron stained quartz, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) limy (20%) sand. 10% of the sand is fine grained sandstone.
- 715-725 As above, but now 25% fossil fragments
- 720-730* Hard, pale yellowish brown 10YR6/2, feldspar, glauconitic, limonitic, rose quartz, iron stained quartz, vitreous, medium sorted, medium to very coarse grained (1/2-4mm) limy (20%) sand.
- 725-735 fine to coarse grained limy (20%) sand as above.
- 735-745 Hard, pale yellowish brown 10YR6/2, micaceous, feldspathic, glauconitic, limonitic, rose quartz, iron stained quartz, fossiliferous (35% fragments), forams, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) limy (25%) sand.
- 745-755 as above
- 755-765* as above *abundant lops of Camerinus*
- 765-775 as above *[Rot Mex], Camerinus*
- 775-785 Hard, pale yellowish brown 10YR6/2, micaceous, feldspathic, glauconitic, limonitic, rose quartz, iron stained quartz, fossiliferous (increasing fossil content to 40% fragments), forams, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/4-1mm) limy (25%) sand.
- 785-795 as above

- 795-805 as above
- 805-815 Brittle, very light gray N8, feldspathic, phosphatic, very fossiliferous, dull, forams, fossiliferous limestone.
- 815-825 as above
- 820-830 note! Hard, pale yellowish brown 10YR6/2, phosphatic, very fossiliferous, forams, very fine to coarse grained (1/8-1mm) medium sorted sand.
- 830-840 as above
- 840-850 as above
- 850-860 as above
- 860-870 Hard, pale yellowish brown, 10YR6/2, phosphate, forams, fossiliferous, vitreous, medium sorted, very fine to coarse grained (1/8-1mm) quartz sand.
- 870-880 As above
- 880-890 As above, but less fossiliferous, perhaps 15% fossil fragments.
- 890-900 As above, but only 15% fossil fragments
- 900-910 As above
- 910-920 As above
- 920-930 Hard, pale yellowish brown 10YR6/2, phosphatic, forams, fossiliferous (lower than 820-40, 15% fossil fragments), vitreous, poorly sorted, very fine to coarse grained (1/8-1mm) sand. More large grains than in 910-20; grain size range is as in 910-920
- 930-940 As above
- 940-950 As above
- 950-960 As above
- 960-970 As above
- 970-980 As above
- 980-990 As above
- 990-1000 Hard, pale yellowish brown 10YR6/2, phosphatic, forams, fossiliferous (15% fossil fragments), vitreous, poorly sorted, very fine to coarse grained (1/8-1mm) sand. grains are mostly about 1mm in size.
- 

- 1000-1010 As above
- 1010-1020 Hard, very light gray N8, micaceous, glauconitic, phosphatic, fossiliferous, dull, sandy (15%) limestone.
-
- 1020-1030 As above *clayey oolite* *Horrock 170*
- 1030-1040 As above, but with rose quartz and iron stained quartz and limonite
- 1040-1050 Hard, very light gray N8, glauconitic, phosphatic, rose quartz, iron stained quartz, limonite, fossiliferous, dull, sandy (15%) limestone
- 1050-1060 As above
- 1060-1070* As above, but with a foram?
- 1070-1080 As above, with forams? and more limonitic than 1060-1070
- scale to base?*
1080-1090 As above
- Isleons*
1090-1100 Hard, light gray N7, glauconitic, phosphatic, rose quartz, iron stained quartz, limonitic, fossiliferous, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (15%) sand.
- 1100-1110 Hard, pale yellowish brown 10YR6/2, very glauconitic, phosphatic, siderite?, fossiliferous, dull, medium sorted, medium to coarse grained (1/4-1mm) limy (45%) sand
-
- 1110-1120 As above
- 1120-1130 As above
- 1130-1140 As above
- 1140-1150 As above
- 1150-1160 Hard, pale yellowish brown 10YR6/2, glauconitic, phosphatic, sideritic, fossiliferous, dull, medium sorted, medium to coarse grained (1/4-1mm) limy (45%) sand.
- 1160-1170 As above, but shell fragments are more abundant than in 1150-60
- 1170-1180 Hard, pale yellowish brown 10YR6/2, very glauconitic, phosphate, siderite, fossiliferous, dull, medium sorted, medium to coarse grained (1/4-1mm) limy (45%) sand. Shell fragments as above
- 1180-1190 Hard, light gray N7, glauconitic, phosphatic, fossiliferous, dull, sandy (15%) claystone.

- 1190-1200* Hard, medium gray N5, glauconitic, phosphatic, sideritic, fossiliferous, forams?, dull, crystalline sandy (15%) dolomite
- 1200-1210 Hard, medium gray N6, feldspathic, glauconitic, limonitic, iron stained and rose quartz, fossiliferous, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/8-1mm) dolomitic (5%) limy (10%) sand.
- 1210-1220 Hard, light gray N7, feldspathic, glauconitic, limonitic, phosphatic, iron stained and rose quartz, fossiliferous, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/8-1mm) dolomitic (5%) limy (45%) sand. *small by 2000*
- 1220-1230 As above
- 1230-1240 As above, dirty sample
- 1240-1250 Hard, light gray N7, feldspathic, glauconitic, limonitic, phosphatic, pyritic, iron stained and rose quartz, fossiliferous, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/8-1mm) dolomitic (5%) limy (10%) sand.
- 1250-1260 Hard, pale yellowish brown 10YR6/2, feldspathic, glauconitic, limonitic, cherty, phosphatic, pyritic, iron stained and rose quartz, fossiliferous, vitreous, medium sorted, unconsolidated, fine to coarse grained (1/8-1mm) limy (25%) sand.
- 1260-1270 As above, but limy (45%) sand
- 1270-1280 Hard, medium light gray N6, feldspar, pyrite, glauconite, phosphate, limonite, iron stained and rose quartz, fossiliferous, vitreous, unconsolidated, fine to coarse grained (1/8-2mm) limy (10%) sand.
- 1280-1290 As above
- 1290-1300 Hard, medium light gray N6, feldspathic, pyritic, glauconitic, phosphate, limonitic, iron stained and rose quartz, fossiliferous, vitreous, medium sorted unconsolidated, fine to coarse grained (1/8-1mm) limy (10%) sand.
- 1300-1310 As above, but fine to very coarse grained (1/8-2 mm) limy (10%) sand.
- 1310-1320 As above
- 1320-1330 Hard, light gray N7, feldspathic, pyritic, glauconitic, dull, sandy (10%) siltstone

1330-1340	As above	
1340-1350	As above	
1350-1360	Hard, medium light gray N6, feldspathic, pyritic, glauconitic, phosphatic, limonitic, fossiliferous, vitreous, medium sorted, unconsolidated, medium to very coarse grained (1/4-2mm) limy (10%) sand.	shell frag
1360-1370	As above	shell frag
1370-1380	As above	
1380-1390	As above	
1390-1400	As above	shell frag
1400-1410	Hard, pale yellowish brown 10YR6/2, feldspathic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) dolomitic (5%) limy (30%) sand	shell frag
1410-1415	As above	
1415-1425	As above	
1425-1435	As above	
1435-1445	As above	
1445-1455	As above	
1455-1465	Hard, pale yellowish brown 10YR6/2, feldspathic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) dolomitic (5%) limy (40%) sand.	
1465-1475	As above	
1475-1485	Hard, pale yellowish brown 10YR6/2, feldspathic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) dolomitic (5%) sandy (35%) <u>limestone</u> .	
1485-1495	As above	
1490-1500	As above	
1495-1505	As above	
1500-1510	As above	no fossils calc marl
1510-1520	As above	

clauconitic
with

glauconitic

glauconitic

calc marl

- 1520-1530 As above
- 1525-1535 Hard, medium dark gray N4, feldspathic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, very fine to coarse grained (1/16-1mm) clayey(15%) sand.
- 1535-1545 Hard, pale yellowish brown 10YR6/2, feldspathic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) dolomitic (5%) sandy (35%) lime stone *no shell frags*
- 1545-1555 As above *no fossils calc marl some ls*
- 1555-1565 As above
- 1565-1575 As above
- 1575-1585 As above
- 1585-1595 As above
- 1595-1605 As above
- ✓1605-1615 As above
- ✓1615-1625 Hard, medium gray N5, feldspathic, vitreous, medium sorted, coarse to very coarse grained (1/2-3mm) limy (45%) sand
- sub-surface*
1625-1635 As above
- 1635-1645 As above *abundant shell frags, echinoid plate*
- 1645-1655 As above
- 1655-1665 As above
- 1665-1675 As above
- 1675-1685 As above
- 1685-1695 As above
- 1695-1705 As above
- 1705-1715 As above
- 1715-1725 As above
- 1725-1735 As above
- 1735-1745 As above
- 1745-1755 As above

1755-1765	Hard, medium gray N5, feldspathic, vitreous, medium sorted, coarse to very coarse grained (1/2-3mm) limy (45%) sand.
1765-1775	As above
1775-1785	As above
1785-1795	As above
1795-1805	As above
1805-1815	As above
1815-1825	Hard, medium gray N5, feldspathic, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) limy (45%) sand.
1825-1835	As above
1835-1845	As above
1845-1855	As above
1855-1865	As above
1865-1875	As above
1875-1885	As above
1885-1895	As above
1895-1905	As above
1905-1915	Hard, medium gray N5, feldspathic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (45%) <u>sand.</u>
1915-1925	As above
1925-1935	As above
1935-1945	As above
1945-1955	As above
1955-1965	Hard, medium gray, N5, feldspathic, glauconitic, phosphatic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) <u>limy (50%) sand.</u>
1965-1975	As above
1975-1985	As above

- 1985-1995 Hard, medium gray N5, feldspathic, glauconitic, phosphatic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (50%) sand.
- 1995-2005 As above, but with sulfur?
- 2005-2015 Hard, light gray N7, feldspathic, glauconitic, phosphatic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (45%) sand.
- 2015-2025 As above
- 2025-2035 As above, limy (30%) sand
- 2035-2045 As above
- 2045-2055 As above
- 2055-2060 As above
- 2060-2065 As above
- 2065-2070 As above
- 2070-2075 Hard, medium light gray N6, feldspathic, glauconitic, phosphatic, vitreous, medium sorted, fine to coarse grained (1/4-1/2mm) clayey (5%) sand.
- 2075-2080 Hard, medium light gray N6, feldspathic, pyritic, glauconitic, phosphatic, vitreous, medium sorted, fine to coarse grained (1/4-1/2 mm) clayey (5%) sand
- 2080-2085 As above
- 2085-2090 As above
- 2090-2095 As above
- 2095-2100 As above
- 2100-2105* Hard, medium gray N5, micaceous, feldspathic, pyritic, glauconitic, fossiliferous (forams?), vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (15%) sand.
- 2105-2110 As above
- 2110-2115 As above, no doubt forams.
- 2115-2120 As above
- 2120-2125 As above
- 2125-2130 As above
- 2130-2135 As above

- 2135-2140 Hard, medium gray N5, micaceous, feldspathic, pyritic, glauconitic, fossiliferous, forams, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (15%) sand.
- 2140-2145 As above
- 2145-2150 As above
- 2150-2155 As above
- 2155-2160 As above
- 2160-2165 As above
- 2165-2170 As above
- ✓2170-2175 Hard, light gray N7, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, forams?, dull, medium sorted, medium to coarse grained (1/4-1mm) sandy (35%) clay
- ✓2175-2180 As above
- ✓2180-2185 As above
- ✓2185-2190 As above
- ✓2190-2195 As above
- 2195-2200 As above
- 2200-2205 Hard, light gray N7, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, forams, vitreous; medium sorted, medium to coarse grained (1/4-1mm), clayey (5%) sand
- 2205-2215 As above
- 2215-2220 As above
- 2220-2230 As above
- 2230-2240 As above
- 2240-2250 Hard, light gray N7, feldspathic, pyritic, glauconitic, phosphatic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) clayey (5%) sand.
- 2250-2260 As above
- 2260-2270 As above
- 2270-2280 As above

- 2280-2290 Hard, light gray N7, feldspathic, pyritic, glauconitic, phosphatic, vitreous, medium sorted, medium to coarse grained (1/4-1mm) clayey (5%) sand.
- 2290-2300 As above
- 2300-2310 As above
- 2310-2320 As above
- 2320-2330 As above
- 2330-2340 As above
- 2340-2350 As above
- 2350-2360 As above
- 2360-2370 As above
- 2370-2380 As above
- 2380-2390 As above
- 2390-2400 As above
- 2400-2410 As above
- 2410-2420 Hard, light gray N7, micaceous, feldspathic, pyritic, glauconitic, phosphatic, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (35%) sand.
- 2431-2432 core Hard, indurated chips, 1-5mm in size, medium dark gray N4, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, dull, medium sorted, lime cemented, non porous, fine to coarse grained (1/8-1mm) limy (35%) sand. fossil tooth; lignite?; rose quartz.
- 2435-2438 core Hard sandstone, medium light gray N6, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (5%) sand. rose quartz.
- 2438-2440 core Hard, indurated chips 1-5 mm in size, dark gray N3, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, dull, medium sorted, lime cemented, non porous, fine to coarse grained (1/8-1mm) limy (35%) sand. rose quartz.
- 2438-2439 core Hard indurated chips 1-5 mm in size, dark gray N3, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, dull, medium sorted, lime cemented, non porous, fine to coarse grained (1/8-1mm) limy (35%) sand; rose quartz.

- 2445-2447 core Hard indurated chips 1-5 mm in size, dark gray N3, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, dull, medium sorted, lime cemented, non porous, fine to coarse grained (1/8-1mm) limy (35%) sand; rose quartz and more mica than in 2438-2439
- 2447-2450 core As above. not as many indurated chips as in 2445-2447; more mica than 2438-2439
- 2450-2455 Hard, indurated chips 1-5 mm in size, dark gray, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossiliferous, dull, medium sorted, lime cemented, non porous, fine to coarse grained (1/8-1 mm) limy (35%) sand; rose quartz. more chips than 2447-2450; mica as in 2447-2450
- 2455-2460 As above
- 2460-2462 As above
- 2462-2467 Hard, medium gray N5, micaceous, feldspathic, pyritic, glauconitic, phosphatic, limonitic, rose and iron stained quartz, fossiliferous, vitreous, medium sorted, fine to medium grained (1/8-1/2mm) limy (10%) sand
- 2467-2477 As above
- 2477-2480 As above
- 2480-2485 As above
- 2485-2490 As above
- 2490-2493 As above
- 2495-2510 Hard, medium gray N5, micaceous, feldspathic, glauconitic, limonitic, fossiliferous (?), vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (5%) sand.
- 2496-2510 As above, iron stained quartz
- 2511-2521 Hard indurated chips 1-5 mm in size, medium gray N5, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2mm) limy (5%) sand.

- 2511-2521 core top hard, indurated chips, medium gray N5, very micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2 mm) limy (5%) sand
- 2511-2521 core bottom hard, indurated chips, medium gray, N5, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2 mm) limy (5%) sand
- 2521-2539 c [ore?] Hard, medium dark gray N4, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2 mm) limy (5%) sand.
- 2521-2539 core top hard, medium gray N5, indurated chips, micaceous, feldspathic, glauconitic, phosphatic, vitreous, medium sorted, fine to medium grained (1/8-1/2 mm) limy (10%) sand; rose quartz.
- 2521-2539 core middle Hard, medium dark gray N4, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2 mm) limy (5%) sand. rose quartz
- 2521-2539 core bottom As above
- 2521-2539 cuttings Hard, medium gray N5, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2mm) limy (5%) sand; rose quartz
- 2539-2557 core top Hard, medium gray N5, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (5%) sandstone. limestone cement, indurated chips.
- 2539-2557 core bottom As above
- 2539-2557 cuttings Hard, medium light gray N6, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to medium grained (1/8-1/2mm) limy (5%) sand. no induration.
- 2557-2572 core top Hard, medium gray N5, micaceous, feldspathic, glauconitic, phosphatic, limonitic, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (5%) sandstone. limestone cemented indurated chips.
- 2557-2572 core middle As above, but not as indurated
- 2557-2572 core bottom As above

- 2572-2575 Hard, medium gray N5, micaceous, feldspathic, pyritic, glauconitic, phosphatic, fossil fragments (?), vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand; about 3% clay; iron stained quartz grains also
- 2575-2585 As above
- 2585-2595 As above, no limonite
- 2595-2605 As above
- 2605-2615* Hard, medium gray N5, pyritic, glauconitic, phosphatic, fossil fragments, vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand; lignite?
- 2615-2625 As above, no lignite; some limestone cemented sandstone chips; opaque white material, calcite?
- 2625-2635 Hard, medium gray N5, micaceous, pyritic, glauconitic, phosphatic, fossil fragments, vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand. iron stained quartz, rose quartz, indurated sandstone chips, calcite material.
- 2635-2645 As above
- 2645-2655 As above
- 2645-2655 second sample Hard, medium dark gray N4, micaceous, pyritic, glauconitic, phosphatic, fossil fragments, vitreous, medium sorted, medium to coarse grained (1/4-3mm) limy (10%) sand. iron stained quartz, more indurated sandstone chips than in other sample.
- 2655-2665 As above
- 2665-2675 As above
- 2675-2685 As above
- 2685-2695 As above
- 2695-2705 Hard, medium gray N5, micaceous, pyritic, glauconitic, phosphatic, limonitic, fossil fragments, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (15%) sand. iron stained quartz, indurated sandstone chips, calcite.
- 2705-2715 As above, but sandstone chips not as abundant.

- 2715-2725 Hard, medium gray N5, micaceous, pyritic, glauconitic, phosphatic, limonitic, fossil fragments, vitreous, medium sorted, medium to coarse grained (1/4-1mm) limy (15%) sand. iron stained quartz, rose quartz, sandstone chips, abundant lignite)
- 2725-2735 As above, no lignite; calcite
- 2735-2745 Hard, medium gray N5, micaceous, pyritic, glauconitic, phosphatic, limonitic, fossil fragments, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (15%) sand. iron stained quartz, rose quartz, indurated sandstone chips, calcite.
- 2745-2755 As above, indurated sandstone chips not as abundant as above.
- 2755-2765 As above
- 2765-2775 As above
- 2775-2785 As above
- 2785-2795 As above
- 2795-2805 As above, indurated sandstone chips not common
- 2805-2815 As above
- 2815-2825 As above, indurated chips about 20% of sample, same lithology, no pyrite
- 2825-2835 As above
- 2835-2845 As above
- 2845-2855 As above
- 2855-2865 As above, some clay.
- 2865-2875 As above, some clay
- 2877-2888 core? Hard, medium dark gray N4, micaceous, glauconitic, phosphatic, limonitic, dull, medium sorted, fine to medium grained (1/8-1/2mm) sandy (15%) clayey (20%) silstone; forams.
- 2877-2888 Hard, medium gray N5, micaceous, glauconitic, phosphatic, limonitic, fossiliferous, forams, vitreous, medium sorted, fine to coarse grained (1/8-1mm) limy (15%) sand. clay 5% of sample; trace of limestone.
- 2887-2890 As above, indurated sandstone chips 30% of sample

- 2888-2901 cuttings. Hard, light gray N7, micaceous, glauconitic, phosphatic, dull, medium sorted, fine to coarse grained (1/8-1mm) sandy (10%) clay
- 2888-2901 core top Hard, medium dark gray N4, micaceous, glauconitic, phosphatic, limonitic, dull, medium sorted, fine to medium grained (1/8-1/2mm) sandy (10%) silty (20%) clay; red shale, lignite
- 2888-2901 core middle Hard, medium gray N5, micaceous, glauconitic, phosphatic, dull, medium sorted, fine to medium grained (1/8-1/2 mm) sandy (20%) shale; also carbonate, 10% of sample; and 10% lignite
- 2888-2901 core bottom Hard, medium gray N5, micaceous, glauconitic, phosphatic, dull, medium sorted, fine to medium grained (1/8-1/2 mm) sandy (20%) shale. less carbonate and lignite
- 2901-2905 70% sandstone, limy (5%), hard, light gray N7, micaceous, phosphatic, medium sorted, medium to fine grained (1/8-1/2mm) 30% clay
- 2905-2915 5% clay
10% glauconitic, sandy limestone
85% hard, medium gray N5, micaceous, glauconitic, phosphatic, fossiliferous, vitreous, medium sorted medium to coarse grained (1/4-1mm) limy (10%) sand.
- 2915-2925 As above
- 2925-2935 As above
- 2935-2945 As above
- 2945-2955 As above
- 2955-2965 Hard, medium gray N5, micaceous, glauconitic, phosphatic, vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand. 85% of sample
10% glauconitic, sandy limestone
5% clay
- 2965-2975 As above
- 2975-2985 As above
- 2985-2995 As above

- 2995-3005 55% Hard, medium gray N5, micaceous, glauconitic, phosphatic, limonitic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand.
10% glauconitic sandy limestone
5% clay
30% indurated sandstone chips, same lithology as sand above
- 3005-3015 As above
- 3015-3025 As above
- 3025-3030 60% Hard, medium gray N5, micaceous, glauconitic, phosphatic, limonitic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-2mm) limy (10%) sand
5% glauconitic sandy limestone
5% clay
30% unaccounted for in manuscript--probably indurated sandstone
- 3030-3035 80% limy (10%) sand as above
10% glauconitic sandy limestone
5% clay
5% siltstone; rose quartz
- 3035-3040 80% hard, medium gray N5, micaceous, glauconitic, phosphatic, limonitic, fossiliferous, vitreous, medium sorted, medium to very coarse grained (1/4-3mm) limy (10%) sand.
10% glauconitic sandy limestone
5% clay
5% siltstone
- 3040-3045 80% limy (10%) sand as above
10% glauconitic sandy limestone
5% clay
5% siltstone
lignite, rose quartz
- 3045-3050 As above, no lignite, rose quartz abundant
- 3050-3055 70% limy (10%) sand as above
15% siltstone
15% limestone
- 3055-3060 As above
- 3060-3065 As above
- 3065-3070 As above

- 3070-3075 70% limy sandstone as above
15% siltstone
15% limestone
- 3075-3080 As above
- 3080-3085 50% hard, medium gray N5, micaceous, glauconitic,
phosphatic, limonitic, fossiliferous, vitreous,
medium sorted, medium to very coarse grained
(1/4-3mm) sand
45% clay
5% dolomite
- 3085-3090 As above
- 3090-3095 hard, medium gray N5, micaceous, glaucon-
itic, phosphatic, limonitic, fossiliferous, med-
ium sorted, fine to very coarse grained (1/8-3mm)
limy (10%) sand
- 3095-3100 As above
- 3100-3105 70% hard, medium gray N5, micaceous, glauconitic,
phosphatic, limonitic, vitreous, medium sorted,
fine to coarse grained (1/8-1mm) sand
30% clay
- 3105-3110 As above
- 3110-3115 As above
- 3115-3120 As above
- 3120-3125 As above
- 3125-3130 As above
- 3130-3135 As above
- 3135-3140 As above
- 3140-3145 As above

bottom of hole.