Lot	Depth 📆 🗆	
No.		
2008	111-142	Chiefly light gray fine quartz sand; some round lime pellets. No
		fossils seen except fragments of fish teeth.
9		Like 2008. No fossils seen.
10	174-205	Coquina of pelecypod fragments and clear white quarts; barnacle
		fragments also. A few whole shells.
11	205-236	Medium to coarse sand like 2008, with a few fragments of molluck
		and barnacle shell. W
12	23 6-2 67	Like 20Dl. A few small wholw shells.
13		Like 2021, with perhaps a greater proportion of barnacle fragments.
14	298-329	Well-rounded quartz grit, average diemeter 1-1/2 mm, some pieces up
		to 6 mm diameter. Fragments of barnacles and mollusks; one
		fish tooth.
15	329-360	Like 2014. Some fossils.
16	360-391	Like 2014, with some fragments of light-greenish shale. Some fossils
17	391-422	Sample largely dove-gray shale, with some admixture of fine quartz
		sand and a few larger sand grains. No macrofossils seen.
18	4 22 -453	Like 2017, with large proportion of coarser grains; many black
of a sollier		phosphatic (?)grains. One fish tooth.
19	453-484	Like 2017, with attallmore coarse material and black grains. No
	101 515	macrofossils seen.
20		Like 2019. No fossils seen!
21	010-040	Sample is light brown sandy limestone (dolomite) and loose white
	E40 E88	quartz sand. No fossils seen.
22	546-577	Like 2021, with more sand. No fossils seen. Like 2022, with much black phosphatic material, and some calcareous
. 23	577-606	sandstone. No fossils seen.
0.4	#A0#80	Like 2022. No fossils seen.
2 4 25		Cipemy-white granular limestone and quartz sand. Bryozoan and
20	003-070	echinoid fragments. Dictyoconus, small forminifer.
26	67 0 -701	
20	014-101	amall foraminifers.
27	701-732	
æ,	101-105	Dictyoconus, orbitoids, small formaminifera
28	732-763	Like 2025. Fragments of mollusks, echinoids, bryozoans. Orbitoids,
20	.05 100	small foraminifers.
29	763-794	· · · · · · · · · · · · · · · · · · ·
	, , , , , ,	echinoids. Orbitoids.
30	794-825	The same of the sa
		small forminifera.
31	825-856	Like 2029. Fragments of mollusks, bryozoans, crinoids. Orbitoids,
		small foraminifers.
32	856-887	Like 2029. Fragments of mollusks, bryozoans, crinoids, Ortiboids.
33	887-907	Light tan sugary crystalline porous limestone. No fossils seen.
34	907-928	Like 2033. No fossils seen, except those definitely from above.
3 5	928-959	Like 2033. No fossils seem except those definitely from above.
36	959-981	Like 2033. No fossils seen, except those definitely from above.
37	981-1012	Like 2033 but darker. No fossils seen, except those definitely from
		above.

Report on Adams-McCaskill (Donald Clark) No. 1 well, Pierce County, Georgia

By Joseph A. Cushman

Much of the material is very unsatisfactory as regards Foreminifera, and in many samples either nome were found or the specimens were in such condition as to be specifically unidentifiable. On the other hand, certain samples do contain fairly good faunas and probably are indicative of age. From the appearance of the residues the drilling mud carries down the faunas of a species is probably much more waluable than its later occurrences in deeper samples. For example, some of the larger Foreminifera found in the Jackson part of the section occur as worn or broken specimens with the undoubted cretaceous in the lower part of the well. The casing records, if any, might help to eliminate much of this uncertainity.

Notes are given on the occurrenced of some of the Foraminifers.

111-639 feet. Fractically no Foraminifera.

639-763 feet. Some poorly preserved larger Foraminifera.

V. affinis Cushman and Bermudez described from the upper Eccane of Cuba. These, with the other larger Foreminifera, should definitely fix this as upper Eccane.

In the following samples to 1810 feet the same general types occur, showing little if any change and magicating that they may have come originally from higher levels.

In samples 1810-1841 some change is evident and a few poorly preserved smaller Foreminifera appear and occur below. In sample 2061-2092 a number of smaller Foreminifera appear, among them Globoratalia wilcoxensis Cushman and Ponton, Anamalina umbonifera, (Schwager), Uvigerina alabamensis Cushman and Garrett, and Angulogerina cfl wilcoxensis (Cushman and Ponton). This should give good evidence of the Wilcox Eccene age of this part of the section. Similar forms occur in sample 2092-2133.

To 2374 feet only larger tests, worn and broken, appear.

In sample 2374-2393 numerous very small Foraminifera appear, evidently of Midway Eccene age. These include Gumbelina midwayensis Cushman, Ecuvigerina excavata Cushman, Bolivina midwayensis Cushman, and Globigerina triloculinoides Plummer.

Nothing further, except worn and broken forms evidently of upper Eccene source, was found until sample 2991-3022 feet, which contained two specimens of a poorly preserved Globotrucana, indicating Upper Cretaceous. In sample 3118-3140 is a specimen of Dorothia bulletta (Carsey), a species mostly of the Navarro but also occurring in the Taylor.

In sample 3314-3328 is a fair Cretaceous fauna containing Gumbelina plumerae Loetterle (Navarro to Austin), Ventilabrella eggeri Cushman (Taylor), and Glororotalia michelininaman (D'Orbigny) (Taylor and Austin). These would seem to indicate a Taylor age for this level.

In sample 3358-3384 is <u>Clavulinoides appera</u> (Cushman) (Navarro to Austin).

In sample 3414-3444 are Globotrucana fornicata (Flummer) (mostly Tayler), Stensioina americana (Cushman) (lower part of the Navarro and mostly Taylor), and Flanulina taylorensis (Carsey) Llower part of the Navarro but mostly Taylor).

In sample 3444-3474 is Glogotrucana canaliculata (Reuss) (Navarro to Austin).

Sample 3495-3507 has a rich gauna, including, among others, the following species: Kyphopyxa christneri (Carsey) (Taylor and Austin), Pseudogaudryinella capitosa (Cushamn), var. serrulata (Cushman) (Taylor and Austin), Marginulina stephensoni Cushman (Navarro, rare, Taylor, and Austin), Dentalina alternata (Jones) (lower Navaorr, Taylor, and Austin), Frondicularia linearis Franke (Taylor and Austin), Palumla suturalis (Cushman) (loser Navarro, Taylor, and Austin), Bolivinopsis rosula (Ehrenberg) (Navarro to Austin), Eouvigerina americana Cushman (rare in lower Navarro, common in Taylor), Loxostoma clavatum (Cushman) (mostly in lower Taylor), Gyroidina globosa, (Hagenow) (lower Navarro, Taylor, and Austin), and Ellipsonodosaria stephensoni Cushman (Navarro and Taylor). From the knong ranges it would seem that this level is the equivalent of the Taylor of Texas.

Sample 3690-3720. <u>Gumbelina planata</u> Cushman (upper Taylor only).

Sample 4231-2261. Gumbelina cf. semicostata Cushman (basal Navarro and mostly Taylor).

After sample 3495-3507 there seems to be almost no change in the Foraminifera, and all might have come from that sample. There is no definite indication of any Cretaceous definitely older than Taylor so far as the Foraminifera show. In fact, with the very rich material of sample 3495-3507 the remainder could all be accounted for by contamination from that level so far as any new species occurring may show.

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Donald Clark No. 1-Page 2.
    Lot
          Depth
    No.
         1012-1034 Sample largely medium to coarse colorless quartz sand. The few
    2038
         1034-1054 Sample half quartz sand, half brownish limestone like 2033. The
                         few fossils seem all from above.
     40 1071-1192 Like 2039. The few fossils seem all from above.
     41 1102-1134 Like 2037. A few fragments of mollusks.
     42 1102-1134 Like 2039. No fossils seen.
     43 1134-1157 Like 2039. No fossils seen.
    44 1157-1189 Like2039. No fossils seen except those from above.
    45 1189-1221 Like 2037. No fossils seen except those from above.
    46 1221-1252 Like 2037. No fossils seen except those from above.
        1252-1284 Light reddish-brown granular limestone. Fragments of bryozoans.
    48 1284-1315 Light reddish-brown granular limestone. Fragments of bryozoans.
   49 1315-1346 Light reddish-brown granular limestone. Fragments of bryozoans.
                       Orbetoids. Small foraminifers.
   50 1346-1377 Light reddish-brown granualr limestone. On e echinoid.
   51 1377-1408 Creamy-white granular limestone. Fragments of bryozoans.
   52 1408-1439 Like 2051. No fossils seen.
   53 1439-1470 Like 2047. Orbitoids, small foraminifers (?).
54 1470-1501 Like 2047. Orbitoids, small foraminifera(?).
   55 1501-1532 Light brown sugary, crystalline limestone. No fossils seen.
   56 1532-1563 Like 2055. A few fragement5of bryozoans.
  57 1563-1594 Like 2055. No fossils seen.
58 1594-1625 Like 2055. A few fragements of bryozoens. Orbitoids. Fish tooth.
  59 1625-1656 Half brownish crystalline limestone and half very light granular
                      limestone. Fragments of bryozoans. Obbitoids.
  60 1656-1687 Like 2059. Fragments of bryozoans.
  61 1687-1717 Like 2059. A few gragments of mollusks and bryozoans. Small
  62 1717-1748 Like 2059. One or itoid.
 63 1748-1779 Like 2059. Orbitoids. Small forminifer (?).
64 1779-1810 Like 2059. A few orbitoids. Small forminifer (...)
 65 1810-1841 Like 2059. Orbitoids. Small foraminifer
 66 181-1872 Like 2059. A few fragments of bryozoans; one brachiopod. Orbitoids.
 67 1872-1904 Like 2059. A few fragments of ofbryozoans; Orbitoids.
68 1904-1935 Like 2059. A few fragments of bryozoans. Officials, small
 69 1935-1966 Like 2059 but with considerable glauconite and quartz sand. Fragments
                     of barnacle plates and bryozoans. Orbitoids. Samll foraminfiers.
70 1966-1997 Like 2069. Very few fossils shown.
71 1997-2028 Like 2069. Very few fossils seen.
72 2028-2000 Like 2072. Fragments of mollusks, echinoids. Orbitoids. Dictroconus,
73 2061-2092
               Like 2072. Fragments of mollusks, chinoisd. Orbitonds, Dictyocnus
74 2092-2123
               Like 2072. Fragments of mollusks, echinoids. Orbitoids. Small
75 2123-2156
               Like 2072. Fragments of mollusks. Small foraminifers.
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Light-colored dense limestone, wery little glauconite. Fragments of

echinoids, mollusks. Small faraminfers.

echinoids. Orbitoid, small foraminifers.

2218-2249 Like 2076. Very few fossils seen.

Light-colored glauconitic limestone. Fragments of mollusks,

76 2056-2187

2187-2218

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Lot
         Depth
 No.
 2079
         2249-2280
                     Like 2077.
                                 Obritoids.
   80
                     Like 2077. Fragments of bryozoans. Orbitoids, Dictyoconus,
         2280-2319
                        small foraminifer (?).
   81
         2319-2342
                     Like 2077, with one lump of medium greenish gray shald. Fragments
                        of mollusks. Orbitoids.
   82
         2342-2374
                     Like 2077. Orbitoids.
   83
         2374-2393
                     Light-gray, medium grained clear quartz sand, with a few black
                        phosphatic grains. Fragments of a bryozoan only fossils seen.
  84
         2384-2393
                     Like 2083, but fine-grained. No fossils seen.
  85
         2374-2406
                     Light gray sandy limestone, with various other cutting fragments.
                        Only fossils appear to be from above.
  86
        2406-2437
                    Like 2085. Only fossils appear to be from above.
  87
                    Like 2085, with some chunks of medium gray fine silt. No fossils
        2437-2468
                        noted.
  88
        2468-2499
                    Medium gray fine silt, with minor sandy limestone. No fossils seen.
  89
        2499-2530
                    Like 2088. No fossils seen.
  90
        2530-2561
                    Like 2088. Obtotiods.
  91
                    Like 2088. Few fossils seen.
        2561-2592
  92
        2592-2623
                    Like 2088. Few fossils seen.
  93
        2623-2654
                    Like 2088. Few fossils seen.
                    Like 2088. Few fossils seen.
  94
        2654-2685
                    Like 2088. Few fossils seen.
Like 2088. Few fossils seen.
  95
        2685-2716
  96
        2716-2747
  97
                    Like 2088. Few fossils seen.
        2747-2778
  98
        2778-2809
                    Like 2088. Small foraminifers.
 99
        2809-2840
                    Like 2088. No fossils seem.
2100
        2840-2868
                    Like 2088.
                                Small foraminfera
  1
       2868-2898
                   Medium gray silt, with admixture of limestone. Few fossils seen.
  2
       2898-2929
                   Like 210h, with more contamination. Fossils seem all from above.
  3
       2929-2960
                   Like 2102. Fossils seem all from above.
  4
                   Like 2102. Fossils seem all from above.
       2960-2991
  5
       2991-3022
                   Like 2102. Fossils seem all from above.
  8
       3022-3056
                   Like 2102. Fossils seem all from above.
  7
       3056-3087
                   Like 2102. Fossils seem all from above.
  8
       3087-3118. Like 2102. Small foreminfers.
  9
                   Like 2102. Small foraminfers.
       3118-3140
 10
       3140-3178
                   Like 2102. Fossils seem all from above.
 11
       3166-3197
                   Like 2102. Fossils seem all from above.
 12
       3197-3228
                   Like 2102. Fossils seem all from above.
 13
                   Like 2102. Fossils seem all from above.
       3328-3259
 14
       3259-3290
                   Like 2102.
                               Fossils seem all from above.
 15
       3290-3322
                   Like 2102.
                               Fossils seem all from above.
 16
       3314-3328
                  Sample is clean hard medium gray silt. Small foraminifers.
 17
      3328-3353
                  Like 2102. Fossils seem all from above.
18
                  Like 2102. Small foraminifers. Like 2102. No fossils seen.
       3353-3384
       3384-3414
19
08
       3414-3444
                  Like 2102. Small foraminifers.
                  Like 2102. Small foraminifers.
21
      3444-3474
22
                  Like 2102. Small foraminifers.
      3474-3505
23
                  Sample is nearly chean medium gray silt. Small foraminifers.
      3495-3507
                  Sample is nearly clean medium gray silt. Small foraminifers.
24
      3495-3507
25
      3505-3536
                  Like 2102. Small foraminifers.
26
                  Like 2102. Small foreminifers. ~
      3536-3567
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Lot
        Depth
No.
2127
        3567-3598
                     Like 2102. Small foraminifers.
 28
        3598-3629
                     Like 2102. Small foraminifers
 29
                     Medium gray somethat flaky shale with tinge of brown. Small
        3629-3690
                           foraminifer #4
 30
        3659-3690
                     Like 2029. Small foraminifers
 31
        3690-3720
                     Like 2029. Small foraminifers
 32
        3720-3749
                     Like 2029. Small foreminifers
 33
        3449-3779
                     Like 2029. Small foraminifersa
 34
        3779-3809
                     Like 2029. Small foraminifersa
 35
        3809-3839
                     Like 2029. Small foraminifersa
 36
        3839-3870
                     Like 2029. Small foraminifersa
 37
        3870-3901
                     Like 2029. Small foraminifersa
                     Like 2029. Fragments of mollusks, Inoceramus. Small foraminifers.
 38
        3993-3986
                     Like 2029. Fragments of mollusks, Inoceramus. Small foraminifers.
 39
        3935-3957
                     Like 2029. Fragments of mollusks, Ostrea. Small foraminifers.
 40
        3957-3987
 41
        3987-4017
                     Like 2029. Small foraminifera-
 42
                     Sample is medium clear quartz sand, with a small unit of silt;
        4017-4048
                         could all be from drilling mud.
 43
        4048-4078
                     Like 2042. Very few fossils seen.
 44
        4078-4109
                     Sample largely shale like 2029. Small foreminifers a
 45
        4078-4109
                     Sample largely shale like 2029. Small foraminifers
 46
        4109-4140
                     Sample largely shale like 2029. Small foraminifers
 47
                    Sample largely shale like 2029. Small foraminiferso
        4140-4270
 48
        4170-4201
                     Sample largely shale like 2029. Small foreminifers
 49
        4201-4291
                    Like 2044. Small foreminifers
 50
        4231-4261
                    Sample mostly from clear quartz sand, with some chips of shale.
 51
                    Like 2044. Small foraminifers. a
        4261-4291
 52
        4291-4320
                    Like 2044. Small foraminifers. a
 53
        4339-4348
                    Granitic debtis, white. No fossils seen.
 54
        4348-4355
                    Weathered granite.
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