

THE UNIVERSITY OF TEXAS
BUREAU OF ECONOMIC GEOLOGY
AUSTIN, TEXAS

Mimeograph Circular No. 27

October 1929

[Stencils re-cut, September 1953]

The mimeograph circulars issued from the Bureau of Economic Geology contain the record of cores and cuttings from wells received and described in the Bureau. In some instances drillers' logs and other data are given, although it is usually impracticable to include logs of all wells, the logs given being selected as representative of the county or area to which the circular relates. The elevations given are for the most part those reported with the driller's log. In some instances the elevation given, as indicated, is that obtained from the location of the well on the topographic map. In all cases the elevation is to be regarded as approximate only.

SOME WELL RECORDS IN FAYETTE COUNTY

Adamcik 1, Smithville Drilling Company

Located 7 miles south of Smithville.

Description of samples by H. T. Kniker, J. A. Udden, and W. M. Winton; submitted by C. H. Turney, 1921.

	<u>Depth in feet</u>
Dark gray only very slightly calcareous clay - - - - -	561 - 639
Gray sand mixed with some clay and containing organic remains- - -	639 - 683
Several large fragments of gray fossiliferous marly clay and two of clay-ironstone - - - - -	683 - 690
A few ounces of fossiliferous, slightly marly dark green clay. The clay contains much glauconite, some limonite, and a small amount of pyrite and fine sand - - - - -	750 - 785
Dark gray indurated clay and silty, sandy and glauconitic indurated clay - - - - -	785 - 795
Original material unknown. Washed material consists of organic fragments, fragments of lignite and of calcareous sandstone - - - - -	795 - 803
Gray sand and some marl. Sample is very fossiliferous - - - - -	860
Dark gray marly and highly fossiliferous clay containing much glauconite, considerable sand, and some pyrite- - - - -	820 - 925
A one-half inch fragment of clay-ironstone - - - - -	925
Few small pieces of greenish-gray marly clay, highly glauconitic and fossiliferous, with some clay-ironstone and pyrite - - - - -	932

English No. 1, Bristol Oil and Gas Company

Located in McAllister 1/3 League and 7 miles due south of Smithville.

Driller's Log			
Depth in feet		Depth in feet	
	To		To
Clay	40	Gumbo	631
Blue shale	120	Lime rock	634
Gumbo and boulders	140	Shale and streaks of hard lime	657
Blue shale	180	Lime	669
Rock	183	Sandy lime	677
Blue shale	280	Shale and lime, hard	683
Gravel	290	Shale and lime	727
Blue shale	360	Gumbo	744
Gravel	400	Sand rock	750
Gumbo (clay shale)	430	Sandy shale	754
Gumbo (clay shale) and shell	440	Hard shale	764
Gumbo and shells	590	Pack sand	769
Gumbo and fossil shells	595	Hard shale	776
Gray limestone with pyrite	597	Sand	782
Gumbo	610	Blue shale	790
Sticky shale	622	Sandy shale, pyrite	860
Lime rock	629	Sticky shale	914

Description of samples by R. T. Short and O. M. Richey; submitted by E.H.Finch, 1924-25.

	Depth in feet
Dark gray clay shale and gray sand, some pyrite, little gypsum; fossil shells - - - - -	400 - 430
Practically the same as from 400-430 feet but with less sand - -	430 - 440
Dark gray clay, shale, and sand - - - - -	440 - 514
Clay-shale, clay, sand and fossils; shows slight reaction for oil with chloroform - - - - -	555 - 590
Largely clay-shale; some sand; pyrite; few fossils; some drab, hard limestone; some fossils filled with pyrite. Shows some reaction for oil - - - - -	590 - 597
Practically same as from 590-597 feet, contains some gypsum; no trace of oil - - - - -	625
Same as from 625 feet; <u>Dentalia</u> and other fossils; trace of oil -	625 - 657
Practically same as from 625-657 feet - - - - -	About 660
Hard limestone; clay-shale; pyrite and limonite; fossil shells and fossil fragments (two samples) - - - - -	665; 683-727
Clay-shale, gray sand, ferruginous clay, clay, pyrite, limestone. Slight oil reaction; pyrite and limonite abundant - - - - -	734
Gray sand; clay-shale and fossils; little limestone; slight oil reaction - - - - -	750 - 754

Clay shale and gray sand; slight oil reaction - - - - -	754 - 774
Gray sand; abundant pyrite; some ferruginous shale; limestone fragments and few fossils; trace of oil - - - - -	776 - 782
Shale, gray sand, limestone pebbles and fragments; pyrite; fossil Turritellas and other fossil fragments; few gypsum and calcite crystals -	790 - 798
Sandy shale, shale, gypsum; fossils; no trace of oil - - - - -	798 - 810
Same as from 798-810 feet but contains more sand - - - - -	810 - 820
Same as from 798-820 feet but contains more sand and fossils - - -	820 - 825
Shale, clay, sand, pyrite, limestone, limonite, fossil shells and fragments (two samples) - - - - -	848-860; 864
Clay-shale, gypsum; practically no fossils; some hard lime fragments; pyrite; some gray sand-limonite pebbles - - - - -	874 - 914
Clay-shale, gray sand, limestone fragments; limonite; fossil <u>Latirus moorei</u> (Gabb), typical Cook Mountain form - - - - -	916 - 920
Dark gray, noncalcareous shaly clay with a few fragments of greensand - - - - -	734
Dark gray, noncalcareous shaly clay and sand - - - - -	754 - 774
Dark gray noncalcareous shaly clay, fragments of clay-ironstone, and some sand. A little pyrite present - - - - -	790 - 798
Dark gray, noncalcareous shaly clay with fragments of clay-ironstone and a little fine silty sandstone - - - - -	864
Dark gray, noncalcareous shaly clay and some greensand - - - - -	864
Dark gray, noncalcareous shaly clay with a little slightly calcareous greensand - - - - -	916 - 920
Dark gray, noncalcareous shaly clay - - - - -	1009 - 1019
Dark gray, noncalcareous clay with some fragments of greensand, pyrite, clay-ironstone, and some gypsum also present - - - - -	1009 - 1019
Dark gray, noncalcareous clay containing shells, shell fragments, and some concretions of limonite - - - - -	1347 - 1367
Dark gray shaly clay containing numerous shells and shell fragments - - - - -	1367 - 1410
Dark gray, noncalcareous shaly clay containing shells and shell fragments - - - - -	1410 - 1470
Numerous corals, pelecypods, and gastropods - - - - -	1136 - 1234
Pelecypod and gastropod shells and shell fragments - - - - -	1234 - 1284

	Depth in feet
Dark gray, noncalcareous clay containing shells and shell fragments - - - - -	1284 - 1324
Dark gray, noncalcareous clay. Some clay-ironstone and shell fragments present - - - - -	1324 - 1340
Dark gray shaly clay which has a tendency to break up into thin plates. Clay-ironstone, pyrite, and gypsum noted - - - - -	1470 - 1475
Shaly clay which has a tendency to break into thin plates - - -	1470 - 1475
Dark gray, noncalcareous clay and some light yellowish-brown ferruginous clay. Limonite concretions, fragments of clay-ironstone, and gypsum also present - - - - -	1480 - 1525
Dark gray, noncalcareous clay with some light yellowish-brown ferruginous clay. Gypsum, limonite, and limonite concretions present -	1525 - 1540
Dark gray, noncalcareous clay with some yellowish-brown ferruginous clay. Gypsum and limonite concretions present - - - - -	1585 - 1615
Dark gray clay with some brownish-yellow ferruginous clay. Gypsum, concretions of limonite, and clay-ironstone are present - - -	1615 - 1620
Dark gray, noncalcareous clay with some concretions of limonite. Some gypsum and clay-ironstone present - - - - -	1640 - 1660
Dark gray, noncalcareous clay with some brownish-yellow clay. Gypsum, concretions of limonite, clay-ironstone, and shell fragments present - - - - -	1660 - 1665
Dark gray, noncalcareous clay. Some limonite concretions, gypsum, and clay-ironstone present - - - - -	1900 - 1920
Dark gray, noncalcareous clay. Concretions of limonite, gypsum, and clay-ironstone present - - - - -	1920 - 1940
Dark gray, noncalcareous clay, containing numerous shells and shell fragments. Gypsum, limonite concretions, and clay-ironstone present - - - - -	1940 - 1960

A. Steinhauser No. 1, Red Bank Oil Company

Located near Flatonia.

Description of samples by E. M. Hawtof; submitted by D. A. Armstrong, 1926.

Depth in feet

Light brownish-gray clay and thin layers of coarse gray sandstone - -	226
Grayish-white calcareous sandstone - - - - -	235
Practically same as from 235 feet. Gypsum was noted in addition - -	290
Blackish-gray sandy shale, in parts resembling soapstone as to texture and appearance. A considerable amount of mica and gypsum and pyrite noted - - - - -	310

	<u>Depth in feet</u>
Brownish-black shale - - - - -	326
Blackish-gray sandy shale - - - - -	341
Blackish-gray calcareous sandy shale - - - - -	360
Grayish sandy slightly calcareous shale - - - - -	372
Practically same as from 372 feet (two samples) - - - - -	383; 420
Practically the same as from 372, 383, 420 feet except this sample contains more calcareous material and more unidentifiable young fossil fragments - - - - -	435
Practically the same as from 435 feet - - - - -	450
Grayish sandy, calcareous shale, being quite micaceous - - - - -	460
Practically the same as from 450 and 460 feet, although a larger amount of pyrite noted here - - - - -	475
Brownish-black micaceous sandy marl - - - - -	492
Brownish-gray calcareous, slightly sandy shale - - - - -	502
Practically the same as from 502 feet (two samples) - - - - -	515; 535
Medium grayish sandy marl to medium brownish slightly sandy marl - - -	545
Medium gray calcareous sandy shale to medium brownish-gray calcareous sandy shale - - - - -	555
Medium grayish, having a tinge of brown, impure sandy marl - - - - -	565
Brownish-gray shale and grayish shale, both being sandy - - - - -	575
CORE of dark brownish-black slightly micaceous, very sandy marl - -	577
Medium grayish slightly sandy calcareous shale to medium brownish slightly sandy calcareous shale - - - - -	600
Dark grayish-brown micaceous sandy marl - - - - -	625
Practically the same as the above sample. A few more unrecognizable fragments of pelecypods - - - - -	635
Brownish-gray fine-grained sandstone to grayish-brown sandy shale - - -	645
Greenish glauconitic sandy slightly calcareous shale and marls - - - -	665
Dark brownish-gray slightly sandy marl - - - - -	675
Brownish-gray to a grayish-brown micaceous sandy shale - - - - -	685
Practically the same as from 685 feet - - - - -	705
Medium gray to dark gray micaceous sandy shale - - - - -	725

	<u>Depth in feet</u>
Medium gray to dark grayish-brown slightly sandy shale - - - - -	735
Light gray to dark grayish clay - - - - -	745
Practically the same as sample from 745 feet - - - - -	755
Practically same as from 745 and 755 feet except a considerable amount of lignitic material noted here - - - - -	765
Practically the same as from 765 feet - - - - -	775
Light gray to medium gray micaceous sandy shale - - - - -	785
Light grayish-yellow slightly sandy marl - - - - -	795
Practically the same as from 795 feet. An increased amount of pyrite was observed - - - - -	805
Light grayish to dark grayish sandy shale - - - - -	815
Medium gray to dark brownish-gray micaceous sandy shale - - - - -	825
In the washed material was observed a considerable amount of bits of marl, pyrite was abundant, muscovite and gypsum were noted - - - - -	835
Grayish-brown shale, being slightly sandy - - - - -	845
Grayish-brown sandy shale - - - - -	855
Practically the same as from 845 and 855 feet; a few more microfossils and fossil fragments - - - - -	865
Practically the same as from 845, 855, 865 feet - - - - -	875
Medium to dark gray calcareous sandy shale - - - - -	885
Practically the same as from 885 feet except the shale contains more fine sand - - - - -	895
Same as from 895 feet but the shale is not quite so sandy - - - - -	905
Medium grayish-yellow to grayish sandy micaceous shale - - - - -	915
Practically the same as from 915 feet - - - - -	925
Brownish-gray marls, in which yellowish clay nodules noted - - - - -	935
Light grayish sandstone and also thin layers of brownish sandy shales and dark gray shales were noted - - - - -	945
Light gray sandy shale to dark gray sandy shale - - - - -	955
Dark grayish-brown shales; some lighter colored shales carrying fine-grained sand were also observed - - - - -	965
Practically the same as from 965 feet - - - - -	975

Practically the same as from 965 and 975 feet except an increase of sandy material - - - - -	980
Dark brownish-gray sandy marl - - - - -	998
Very dark grayish sandy marl - - - - -	1009
Dark grayish sandy marl - - - - -	1019
Practically the same as from 1019 feet - - - - -	1029
Practically the same as from 1019 and 1029 feet except more fine-grained sand noted in this sample - - - - -	1039
Grayish slightly sandy and calcareous shale - - - - -	1049
Greenish-gray highly calcareous marl, having a small amount of sand. A large amount of glauconite noted; pyrite and muscovite observed - -	1059
Practically the same as from 1059 feet. Several <u>Turritella nasuta</u> observed - - - - -	1069
Yellowish-gray sandy clays and thin layers of yellowish-brown marl. The microfossils were very abundant - - - - -	1079
CORE of dark greenish-gray sandy marl - - - - -	1088
Practically the same as from 1088 feet - - - - -	1098
Greenish-gray calcareous shale being very fossiliferous and glauconitic - - - - -	1100
Dark brownish-gray shale being only slightly sandy. In washed material a large amount of glauconite and many microfossils noted - -	1108
Vari-colored shales, medium and dark gray, light yellow, greenish gray; thin layers of sandstone interbedded in shales. Glauconite noted--	1128
Practically the same as from 1128 feet. Large quantity of glauconite noted - - - - -	1148
CORE of brownish-gray fine-grained loosely consolidated micaceous sandstone - - - - -	1141-1143
CORE of the same type of rock as from 1141-1143 feet - - - - -	1145-1148
Dark gray shale, parts being calcareous and sandy shale. A considerable amount of glauconite and pyrite noted - - - - -	1168
Dark gray shale; also lighter colored shales noted - - - - -	1178
Dark grayish-brown shale, parts being calcareous. A large amount of glauconite present - - - - -	1188
Resembles the one just above except this sample contains more calcareous material. A considerable amount of lignitic material and pyrite--	1198
Same as sample from 1198 feet - - - - -	1208

	<u>Depth in feet</u>
Dark brownish-gray slightly sandy marl, carrying nodules of glauconite - - - - -	1218
Practically the same as sample from 1218 feet (two samples) - - -	1238; 1258
Dark gray very sandy marl - - - - -	1278
Dark gray sandy and light gray sandy shales, also sandstones. A considerable amount of glauconite and pyrite observed - - - - -	1338
Dark gray clays and some sandstones of grayish colors; bits of limestone and limestone concretions. A considerable amount of pyrite -	1355
Fragments of a core of concretion composed of very hard limestone, from light to dark brown - - - - -	1431
CORE of blackish-gray clay, having small areas or lenses of grayish, fine-grained micaceous sand - - - - -	1434
Dark gray sandy shale. A considerable amount of pyrite noted; glauconite and muscovite present - - - - -	1445
Dark gray sandy shale which frequently carried a tint of green - - -	1455
Practically the same as sample from 1455 feet. Consists of very dark grayish sandy marl - - - - -	1475
Yellowish, brownish, and shades of grayish marls. A considerable amount of glauconite and pyrite noted - - - - -	1485
Brownish and also medium grayish fossiliferous shales - - - - -	1505
CORE of medium gray to dark gray sandy shale - - - - -	1520
CORE of brownish-gray glauconitic, very fossiliferous marl - - - -	1525
Various shades of grayish shales and also brownish shales - - - -	1545
Dark grayish slightly sandy shale and also grayish-brown shales - -	1560
Practically the same as samples from 1545 and 1560 feet - - - - -	1570
CORE of dark greenish-gray marl. A large quantity of very dark greenish grains of glauconite noted - - - - -	1571
CORE of grayish-brown very fine-grained micaceous sandy shale - - -	1572
Dark grayish shale, sandy shale, and pebbles of rose quartz and flint -	1584
Dark grayish to brownish-gray marl - - - - -	1594
Dark grayish sandy marl. Much glauconite and pyrite noted - - - -	1610
Practically the same as sample from 1610 feet - - - - -	1620
Dark brownish-gray slightly sandy marl. A large quantity of glauconite and pyrite noted - - - - -	1630

Dark brownish-gray sandy marl. Several bits of brownish clay and also dark brown fragments of limestone concretions noted - - - - -	1640
CORE of brownish sandy micaceous clay, having small lenses and inclusions of fine sand - - - - -	1642
Fine to medium-grained sand, which carried a considerable amount of glauconite - - - - -	1652
Greenish-gray clay and grayish loosely consolidated sandstone in which glauconite was noted - - - - -	1672
Brownish shale, greenish and grayish clays, also fragments of lignitic sandy fragments - - - - -	1682
Grayish-brown clay and greenish-gray sandy clays - - - - -	1692
Practically the same as sample from 1692 feet - - - - -	1705
Dark grayish-brown clay, gray sandstone, and much loose unconsolidated gray sand - - - - -	1725
Practically the same as sample from 1725 feet, although a much larger quantity of lignitic material - - - - -	1745
Grayish sandy clay and shales - - - - -	1775
Greenish-gray shales, gray sandy clays, and gray marl - - - - -	1800
Dark grayish-brown marl - - - - -	1824
Brown shales, gray sandstones, gray marls, and green shales - - -	1836
Yellowish-brown sandstones and grayish shales. A considerable amount of carbonaceous material - - - - -	1854
Practically the same as sample from 1854 feet - - - - -	1862
Practically the same as sample from 1874-1885 feet, except the calcareous sandy material seems to be increasing in amount - - - - -	1874
Practically the same as sample from 1895-1910 feet, except that more calcareous material was noted - - - - -	1885
Practically the same as sample from 1895-1910 feet. The same minerals were present and the character of the material was same - - - - -	1895
Yellow, brown, and gray clays, gray sandy shales, and gray sands - -	1895
Practically the same as sample from 1910-1930 feet, except having more abundance of pyrite - - - - -	1910
Practically the same as sample from 1930-1945 feet, except the glauconite is more abundant in 1910-1930 feet - - - - -	1930
Medium gray, partly calcareous shale, sandy - - - - -	1945

Depth in feet

Medium dark gray, micaceous slightly calcareous, sandy shale - - - -	1960
CORE was lost after material had been washed. Washed material consists of a large amount of fine-grained clear quartz. Pyrite, glauconite, muscovite, and lignitic material noted - - - - -	1931
CORE of blackish-gray clay having very fine texture. Pyrite and lignitic material abundant - - - - -	2053
CORE of medium dark greenish, micaceous, slightly calcareous, sandy shale - - - - -	2060
Grayish-brown clay and loosely consolidated sandstone - - - - -	2070
Brownish-gray sandy shales and very sandy grayish shales - - - - -	2080
Chocolate-colored, yellowish clays and gray sandy shales - - - - -	2090
Grayish chocolate-colored clays, very sandy gray clays, and gray sandstone - - - - -	2105
Grayish-brown slightly sandy clay and gray sandstone which appears to be loosely cemented by gray noncalcareous material - - - - -	2115
Yellowish clay, brown marls, and gray sandy shales - - - - -	2126
Dark brownish clays, grayish sandy shales, and gray sandstones - - -	2134
Dark gray clays, yellowish clays, and grayish lignitic sandstones - -	2149
Brown and gray sandstones and grayish-white marly limestone, interbedded with dark brown chert- - - - -	2173
Coarse-grained grayish-white limestone; also dark brownish shales and gray sandy shales - - - - -	2186
Blackish-gray shales, grayish lignitic sandstones, and grayish sandy marl - - - - -	2196
Practically the same as following sample (2217-2228 feet), except this one does not contain quite as much calcareous material as one from 2217-2228 feet - - - - -	2217
Medium dark grayish micaceous, slightly sandy, calcareous shale - - -	2228
Sandy calcareous shale, in which the grains of sand are subangular and angular in form, being quartz - - - - -	2258
Calcareous sandy shale, in which glauconite and pyrite were noted, and a small amount of quartz grains - - - - -	2283
Sandy limestone and shale. Glauconite and pyrite noted- - - - -	2289
Piece of CORE of dark grayish calcareous sandy shale - - - - -	2293
Medium dark gray calcareous sandy shale - - - - -	2310

	<u>Depth in feet</u>
Medium dark gray calcareous sandy shale - - - - -	2326
Coarse gray sandstone, dark gray shale, and yellowish-gray clay - - -	2384
Yellowish sandy clay and gray shales - - - - -	2401
Gray sandy marl and gray sandy shale, being interbedded with thin layers of sandstone - - - - -	2419
Gray shales, gray sandy shales, and yellow marls - - - - -	2432
Gray calcareous coarse-grained sandstone - - - - -	2468
Dark grayish sand - - - - -	2497
Same material as sample from 2497 feet, with fewer microfossils from the upper portion of the hole - - - - -	2510
Practically same type as sample from 2510 feet, but this one has very few fossil fragments - - - - -	2522
Medium gray sand - - - - -	2538
Dark grayish slightly calcareous, highly sandy shale - - - - -	2558
Slightly calcareous shaly sandstone - - - - -	2590
Gray, slightly calcareous, shaly sandstone - - - - -	2607
CORE of porous coarse-grained gray sandstone - - - - -	2612
Bits of CORE of medium gray coarse sandstone - - - - -	2636
CORE of practically same material as from core taken at 2635 feet - -	2669
CORE of part of a concretion of dark brown hard limestone - - - - -	2671
Grayish and yellow coarse-grained sandstone - - - - -	2740
Greenish-gray sandy clays, which carried small inclusions of grayish-white calcareous material - - - - -	2752
CORE of gray and yellow clays, interbedded by small grayish-white calcareous concretions. Nodules of glauconite noted - - - - -	2766
Grayish and greenish clays; nodules of grayish white calcareous material observed - - - - -	2785
CORE of gray calcareous, micaceous sandstone - - - - -	2935
Gray, sandy, micaceous shale - - - - -	2950
Gray, calcareous sandstone and gray sandy shale - - - - -	2962
Gray sandy shale and gray sandstone - - - - -	2976
Practically the same as sample from 2976 feet - - - - -	2987
Grayish sandy clay - - - - -	3008