THE UNIVERSITY OF TEXAS
BUREAU OF ECONOMIC GEOLOGY
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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.

E. H. Sellards

SOME WELL RECORDS IN VAN ZANDT COUNTY

/Stencils re-cut, June 1953/

Lindsey No. 2, Hallville Oil & Gas Co.

Located 1½ miles southwest of Grand Saline, Texas.

Driller's Log

	Depth in feet To
Red clay, gray clay and sand	50
Shaly clay and lignite and rock	64
Gumbo, light blue	72
Lignite and shale	82
Lignite and clay	94
Streaks of lignite and clay	103
Rock	105
Sandy clay	110
Hard flinty lime rock	111
Streaks of white and gray lime and gumbo with pyrites, nuggets showing very slightly with asphaltum	125
Light-colored clay	134
Lignite	137
Clay	140
Hard gumbo and boulders	153
Lime rock and pyrites and shale	156
Sandy clay	158
Hard sand and sandy shale	170
Hard sandy shale and pyrites of iron	172
Light gray ligniferous sandy clay with hard streaks	185
Hard sandy pyrites, very hard	185½
Sandy shale or clay with hard streaks	192
Gumbo or very stiff clay	214
Hard ligniferous clay and pyrites	227
Lignite, ligniferous clay and pyrites	233
Ligniferous clay and pyrites harder, small showing of gas	236
Ligniferous clay and pyrites	250
Hard clay, dark, and pyrites	262
Lime rock	263
Gray ligniferous sand and nuggets of pyrites	289
Calcareous sand rock with very hard streaks, small amount of pyrites	296
Gray or brownish-gray rock, small specks of black in it, rock very hard	333
Lignite and asphaltum, small show of gas and oil, cuttings have strong odor of petroleum	336
Light blue clay and sand	363
Lignite and asphaltum, odor of oil	372
Calcareous sand with hard streaks, odor of oil	374
Lignite and asphaltum, very small showing of oil	379
Very fine grained white sand	383
Lignite with odor of oil	384
Hard chalky sand	392
Blue sand, hard streaks	397
Soft blue sand	443
Hard chalky sand	445

Driller's Log, continued

	Depth in feet To
Clay and pyrites, very hard streaks, and sheaves of lignite	454
Pack sand	484
Hard rock	486
Sand and fish-egg lime	510
Hard rock	514
Sand and sandy shale	529 ?
Rock	530
Hard sandy shale	534
Rock	534½
Soft	536
Very hard rock	541
Hard digging	545
Hard lime rock	550
Clay	552½
Hard chalky lime rock	554
Clay	555
Rock	557
Clay	557½
Rock	563
Soft clay	563½ ?
Rock	567
Hard sand	570
Hard rock	573
Hard sandy shale	606
Chalky sand	611
Hard chalky lime rock	614
Hard sandy shale with strong odor of oil	645
Hard rock shale with pyrites and chalky lime streaks; occasional strata of blue clay	770
Very hard rock	785
Rocky shale and clay	819
Hard sandy shale, streaks of clay	850
Clay	860
Hard shale and bouldered gravel	870
Clay	880
Thin strata of hard chalky shale and lime rock, thickness from 1 inch to 1 foot, separated with strata of clear gumbo thickness from 2 inches to 4 feet, gumbo is filled with bouldered gravel	933
Hard chalky slate, slightly sandy, showing a little green sand and pyrite	950
Soft sandy shale (set 10-inch casing at 294 feet, a very small showing of gas from 959 to 980 feet. Much better showing of gas from 980 to 986 feet)	954
Sand rock	960
Chalky clay	978
Hard sandy shale	980
Soft sandy shale	982
Hard chalky shale, showing of gas	986
Hard and soft strata of shale and hard shaly sand rock and boulders, sand rock strata every few feet to few inches from 1 to 10 feet thick	1072
Hard sand rock	1073
Hard sandy shale	1081
Thin strata of shale and hard sand rock	1100
Stiff dark clay	1130
Stiff dark clay and sand rock	1132
Shale	1141
Shale and strata of very hard sand rock; rock varies from 2 to 8 inches thick and are separated by shale from 14 inches to 1 foot thick	1155
Very hard sand rock	1156
Thin strata of hard sand and blue and white clay or shale	1181
Very hard sand rock	1182
Strata of shale and clay	1202
Hard sand	1204
Hard sandy shale and clay	1212
Rock	1213
Shale	1225
Rock	1226
Shale	1226½
Rock	1228
Hard sandy shale and clay	1236
Hard and very sandy shale	1241
Very hard sand rock	1243
Hard sandy shale	1249
Hard sand rock	1251
Very tough clay or gumbo	1253
Hard sand or sandy shale	1261
Very hard rock, sandy lime with pyrite and crystals	1266
Very tough clay or gumbo	1270
Sandy clay	1275
Very tough clay	1293½
Rock	1294
Clay, dark and hard	1317
Rock	1318
Clay	1359½
Rock	1360
Clay	1393
Rock	1393½
Clay	1432
Hard sandy shale	1448
Clay, hard and stiff	1453

Driller's Log, continued

	Depth in feet To
Hard sandy shale	1462
Soft shale and sandy shale	1473
Hard sandy shale	1495
Rotten shale and morrow	1628
Asphaltic clay	1630
Chalk and chalky shale	1650
Shale	1660
Chalk and chalky shale	1670
Chalky shale	1692
Brown clay	1703
Shale	1707
Hard sand rock	1726
Lime gravel, sand, and pyrites	1730
Hard sandy shale	1743½
Lime rock and pyrite	1745½
Rotten shale, very hard	1754½
Very chalky shale or clay	1763½
Hard gray sand rock	1767
Gravel	1768
Chalky shale and clay	1781
Hard sandy shale and pyrite	1786
Hard sand rock	1790
Shale and sandy shale	1810
Clay or gumbo with strata of chalk or very chalky shale	1826
Sandy shale and chalk	1842
Sand, clear and glassy grains	1851
Strata of shale and sandy shale	1859½
Rock, chalky sand or lime	1861
Clay and shale	1873
Soft sand and very sandy chalky morrow	1887
Hard sand rock, but bit badly, some pyrite	1906
Sandy morrow	1935
Chalky and sandy rotten shale or morrow	1970
Clay or gumbo	1976
Strata of clay or shale and sand. Sand has many black grains or particles. Cuttings show some chalk	1990
Strata of calcareous clay, balls up slightly	2008
Sandy shale	2016
Hard sand rock with chalky streaks	2026
Gumbo shale	2030
Hard lime rock with soft streaks	2037
Hard shale	2043
Gumbo	2051
Hard sand and gravel	2057
Rotten shale	2067
Gumbo	2082
Hard shale	2106
Rock	2107
Rotten shale	2173
Very hard shale	2178
Rotten shale	2190
Chalk, made slush very white	2196
Rotten shale	2252
Chalk rock	2256
Shale	2288
Gumbo	2297
Very chalky shale	2318
Gumbo	2350
Hard shale	2358
Chalk rock	2359
Tough gumbo	2404
Hard shale	2431
Tough gumbo	2449
Hard shale	2530
Tough gumbo	2542
Shale	2560
Chalk or very chalky shale	2568
Hard shale	2578
Hard fine white sandy lime, porous, containing shells and pyrite of iron, good gas showing. From 2000 to 2400 feet we find a shell that is very thin and delicate, also a very perfect shell. From 2400 to 2620 feet a much larger and thicker shell and more numerous near the chalk rock	2664
Very hard chalk rock	2782
Good show of oil sand	2785
Chalk very hard	2789
Hard chalk rock	2828
Sand rock hard	2843
Fine hard sediment sand rock with stratified hard dry marl	2900
Hard lime rock	2910
Some softer rock	2920
Dry hard black shale	2940
Very fine sand	2950
Shale	2990
(Believe from 3000 to 3847 feet, bottom of hole, is one formation.)	
Shale, mud turned white	3010
Tough gumbo	3030
Marl, tough	3040
Marl, tough, seems non-cavy, makes good mud	3090
Hard rock	3110
Shale	3190
Shale, tough	3200
Hard dry shale or marl, white, mottled clay makes mud white	3320

Driller's Log, continued

	Depth in feet To		Depth in feet To
Cavy white mottled clay and shale	3410	Hard slaty formation	3660
Hard white lime	3420	Chloroform test showed oil and paraffine	3690
Marl, hard	3450	Hard shale	3710
Gumbo, soft	3470	Some softer	3720
Carries some pyrites	3490	Some softer	3740
Dry hard chalky marl	3620	Some softer	3750
Very hard	3630	Fine gray sandy marl mud chalk	3847
(Lost mud 3630 to 3640 feet; at 3630 feet marl mixed with very find sand.)			
Sand rock	3650	Bottom of hole	

Description of samples submitted by T. J. Catchings and Roy Walton, 1917.

	Depth in feet
A dark gray slightly calcareous, arenaceous, medium fine-grained shale	1950
A dark dirty gray, arenaceous, and slightly calcareous shale	1960
Consists mainly of a medium fine-grained arenaceous, slightly calcareous shale	1970
Dirty gray arenaceous, very slightly calcareous, shale, almost a sandstone	1980
"Thin stratified rock and marl" containing very many and large fragments of Inoceramus and of other fossils	2049
Light gray, hard sandy shale	2049
Fragments of clay-ironstone and black chert, all angular and from one-tenth to 1 inch in diameter	2054
Part of this sample is lignite, a very small part is a rock-like chalk, and a small part pyrite in chunks the size of a peanut	2256
Dirty gray highly calcareous indurated marl	2600
Dark gray fragments of Inoceramus shells noted	2610
Dark gray marl, yielding strong fumes of ammonia, and also fumes of sulfur when heated in a closed tube	2620
Gray stony marl	2640
Gray chalk with small six-sided crystals of biotite. Note: Part of the sample is piece of 2-inch core	2656-a
White chalk with many foraminifera	2656-b
Gray marl with many foraminifera and with fragments of shells of Inoceramus	2640

	Depth in feet
Gray stony marl, with a very small amount of fine sand - - - - - - - -	2670
Grayish-white and brown marl with some sand, size varying from 1/8 to 1 mm in diameter, large grains polished - - - - - - - - - - - - -	2670
Brownish-gray marl with a quantity of fine sand and some large slightly red polished grains -	2670
Gray silty and sandy marl -	2680
Yellowish-brown marl, silty sand, grains from 1/8 to 1/2 mm in diameter, a few large polished grains and a small amount of lignite - - -	2690
Grayish-brown sandy marl -	2700
Gray marl with a very small quantity of fine sand, a few pieces of pyrite noted, small amount of calcite, fragments of Inoceramus - - - - - -	2710
Gray silty marl -	2720
Grayish-brown marl with considerable fine sand, a few large polished grains -	2730
Brownish silty, marly sand, grains of sand 1/8 to 1/2 mm diameter - -	2740
Gray silty sand with some marly material - - - - - - - - - - - - - - -	2750
Sandy silty, larger sand grains in part etched - - - - - - - - - - - -	2760
Gray silty sand, few red sand grains - - - - - - - - - - - - - - - - -	2770
Gray sandy silt and marl, some large red sand grains noted - - - - -	2780
Gray silty and sand marl -	2790
Gray marly silt, minute mica scales noted - - - - - - - - - - - - - - -	2800
(Off end of bit) Gray silty marl, some red sand grains present - - -	2800
Grayish-brown marly silty sand grains principally from 1/8 to 1/2 mm in diameter -	2810
Yellowish-brown marl with considerable sand, few fragments of sandstone, grains of sand mostly very fine - - -- - - - - - - - - - - - -	2820
Grayish-brown silty marl with considerable sand from 1/8 to 1/2 mm in diameter -	2830
Gray marl, considerable very fine sand about 1/8 mm in diameter - - -	2840
Gray silty marl with considerable very fine sand. Lignite present- -	2850
Brownish-gray marly and silty sand from 1/8 to 1/2 mm in diameter, lignite present -	2860

	Depth in feet
Gray sand silt with some marl with a little lignite	2870
Gray silty marl with considerable fine sand from 1/8 to 1/2 mm in diameter. Lignite present	2880
Dark gray marl with considerable sand from 1/8 to 1/2 mm in diameter	2890
Gray marly silty sand	2900
Grayish-white marly limestone	2620
Dark gray marly silt	3700
Like the preceding (two samples)	3720, 3730