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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 driller's 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 TYLER COUNTY

Wilson No. 1. Texas & So. Petr. Co.

Located on Cherry Survey, about 3½ or 4 miles northwest of Rockland, Texas.

Driller's Log

Surface and surface dirt	5
Fullers earth, slightly sandy	44
Red sand rock	47
Fullers earth	51
Blue flaky shale	63
Fine brown sand, gas shwoing	74
White crystalline sand	84
Streaks sand and blue shale	97
Blue gumbo	100
Streaks blue and brown shale	110
Streaks coarse sand and blue shale (oil showing)	117
Hard blue shale	121
Hard pack sand; oil showing	122
Streaks blue shale and gumbo	143
Streaks blue shale and hard pack sand	150
Water sand and old log	164
Blue shale and sand	189
Streaks blue and gray shale	211
Old log (sand)	212
Streaks blue and gray shale	222
Streaks blue shale, lignite and oil sand	240
Blue gumbo	247
Streaks blue shale and lignite	262
Blue shale	315
Hard pack sand	317
Sticky blue shale	380
Streaks hard shale & sand, oil show	385
Blue shale	435
Streaks shale and sand, oil show	454
Old log	456
Soft shale & sand; oil showing	482
Dry gray sand	471
Hard blue shale	478
Old log (lignitic)	480
Streaks blue shale & oil sand(core)	485
Hard siliceous lime rock	487
Hard pack sand	492
Streaks blue shale & lignite	497
Blue gumbo shell and fossil, very tough	892
Oil-saturated sand rock	894
Streaks blue gumbo & shale, black	930
Hard crystalline sand	934
Blue gumbo and shale, streaks, black	1041
Oil sand, heavy gas pressure(core)	1049
Blue gumbo	1055
Water sand	1062
Blue gumbo, streaks sand, heavy gas	1097
Streaks anhydrite and hard sand, gas	1101
Blue gumbo, shale, sand, shell, gas	1394
Blue gumbo, streaks salt and pepper sand	1400
Blue gumbo, shell (marl)	1404

Blue gumbo shell (marl)	1404
Green marl (hard sand & shell)	1407
Gumbo & marl	1423
Streaks gumbo and fine gray sand, gas	1433
Blue gumbo streaks B. shale	1768
Blue gumbo & lime, streaks shale	1875
Blue shale, lime & bldrs	1894
Blue gumbo & shale, blue & brown	2012
Brown shale & lignite	2018
Blue gumbo	2070
Streaks shale, lignite and sand	2082
Blue gumbo	2150
Blue gumbo, shale & bldrs	2304
Streaks blue gumbo, shale & sand	2350
Hard gray rock	2355
Blue and brown gumbo	2365
Shale and lignite	2378
Hard rock and pyrites of iron	2382
Shale and lignite	2416
Gumbo, shale and bldrs	2465
Hard and soft rock	2469
Hard sand and shale; heavy gas pressure	2483
Hard and soft rock	2488
Sticky blue shale	2530
Shale, sand and bldrs	2548
Hard pack dry sand	3056
Tough blue gumbo	3044
Gumbo and anhydrite (gypsum)	3066
Hard gray rock & rion pyrite	3070
Tough blue gumbo	3110
Hard rock	3119
Tough blue gumbo	3129
Hard rock & iron pyrite	3142
Tough gumbo	3153
Hard pack sand	3218
Hard brown shale and sand	3247
Hard pack sand rock	3264
Brown sand. Increasing quantity gas	3282
Hard shale and sand	3305
Gumbo, breaks of shale	3423
Soft blue lime rock	3433
Gumbo and shale	3674
Gumbo, shale & bldrs. Heavy gas	3720
Bldrs in sand	3770
Fine gray sand, gas	3785
Hard rock	3840
Hard pack sand. Salt water & H. gas	3860
Hard rock	3866
Hard and soft sand, heavy gas (cores)	3920
Streaks of shale and sand	3932
Hard sand rock; oil & gas showing	3962
Hard sand, streaks hrittle shale	3975
Hard rock	3980
Hard and soft rock. Heavy gas	4000
Hard shale and bldrs	4026
Hard blue shale	4031
Hard rock, softer places	4197
Tough Gumbo	4209
Streaks sand & shale. Gas increasing	4280
Hard rock	4286
Hard sand. Gas, oil bubbling in D. Mud	4288
Hard rock	4300

Description of samples by T. L. Bailey and D. D. Christner; submitted by S. Earle Wilson, 1924.

	Depth in Feet
Cuttings of light yellow and greenish-gray, non-calcareous, rather pure bentonite	47
Cuttings of powdery, non-calcareous, cream-colored volcanic ash	51
Fine cuttings of light greenish-yellow, non-calcareous bentonite and volcanic ash	63
Cuttings of unconsolidated, light creamy gray, fine-grained volcanic ash that has the consistency of fine friable sandstone	74
Fresh, pale gray, medium-grained, loose volcanic sand	84
Like the preceding except finer grained	97
Light, yellowish-green bentonite or largely altered volcanic ash like 51-63 feet	100
Cuttings of greenish-gray bentonite and much loose, light gray quartz sand	114

	Depth in Feet
Coarse-grained, loose, "rice" sand----------	117
Cuttings of light creamy-green, non-calcareous bentonite mixed with a number of lignite fragments----------	121
Loose sand and a few fragments of cream-colored bentonite like sample from 110-114 ----------	1222
Cream-colored, non-calcareous bentonite----------	126
Cuttings of cream-colored, non-calcsreous, sandy bentonite----	127
Mixed cuttings of bentonite, lignite & coarse sand----------	143
Bentonite and much loose medium sand----------	150
Coarse and medium, loose, light gray sand----------	164
Fine cuttings of cream-colored bentonite, loose sand & lignite--	166
Loose, bluish-white, coarse to medium, "rice sand" and a few cuttings of bentonite----------	181
Cuttings of cream-colored bentonite, and dark purplish-gray shaly clay and much "rice sand"----------	183
Cosrse to medium rather poorly sorted loose sand ----------	185
Cuttings of creamy bentonite and some lignite and dark shaly clay--	205
Like the preceding sample except more lignite present----------	219
Sample consists of several large slivers of lignite----------	212
Cuttings of creamy bentonite, considerable lignite and purplish gray, non-calcareous, hard, shaly clay----------	222
Cuttings of soft, black lignite----------	225
Cuttings of cresmy bentonite, purplish-gray shale and lignite--	233
Cuttings of lignite and cream-colored bentonite----------	238
Bit sample of cream-colored, light purplish and light greenish-non-calcareous bentonite and some light gray sandstone----------	246
Large fragments of a good grade of lignite----------	250
Cuttings of creamy bentonite, purplish shale, lignite, siliceous sandstone and loose sand----------	262
Like preceding sample----------	264
Cuttings of cream-colored bentonitic clay, lignite and purplish gray shaly clay----------	283
Yellowish-gray, coarse to fine, silty, loose sand----------	285

	Depth in feet
Fine cuttings of cream-colored, non-calcareous, bentonitic clay and lignite----------	315
Whitish or light gray, medium and fine loose sand----------	317
Cuttings of cream-colored bentonitic clay and some lignite-----	379
Like the preceding except more lignite and numerous sandstone fragments are found in the washed materials----------	385
Cream-colored to light greenish-gray, non-calcareous, sandy bentonitic clay----------	387
Like sample from 379-385 feet----------	454
Fairly large fragments of brownish, soft lignite and a little light-colored clay----------	456
Creamy to pale gray, bentonitic clay, much loose coarse and medium sand and some lignite----------	462
Loose, medium-grained, light gray, non-calcareous sand, a few lumps of friable sandstone----------	471
Cuttings of cream-colored, bentonitic clay, dark purplish-gray, shaly clay and light gray or whitish sandstone----------	474
Coarse-grained quartz sand and some sandy clay----------	478
Mixed cuttings consisting mainly of lignite----------	480
Light greenish-gray somewhat bentonitic clay and some sand-----	483
Light gray fine to coarse sand----------	484
Light greenish-gray bentonitic clay and fine sand----------	485
Fine-grained white sandstone containing some lignite and gypsum--	487
Light greenish-gray sandy clay containing a large amount of fine sand----------	492
Mixed cuttings consisting mainly of lignite----------	498
Mixed cuttings consisting mainly of dark clay----------	502
Several pieces of a core of dark gray clay and light gray somewhat greenish sandy clay----------	892
Several pieces of a core of dark lignitic sandy clay----------	897
Mixed cuttings consisting of lignite, sand, sandy clay and clay--	934
Like sample from 929-934 feet but containing a larger amount of lignite----------	1004
Like sample from 955-1004 feet----------	1041

	Depth in feet
Several pieces of a core of very fine-grained indurated sandstone containing some silty material----------	1045
A core of very fine gray sand----------	1049
Several pieces of a core of dark lignitic sandy clay and fine sand like that from 1045-1049 feet----------	1060
Mixed cuttings consisting mainly of dark clay----------	1077
Several pieces of a core of laminated white fine-grained silty sand and dark somewhat sandy clay----------	1077
Mixed cuttings consisting mainly of highly fossiliferous clays and marls----------	1565
Mixed cuttings consisting mainly of a dull gray clay----------	1800
Several fragments of a core of white chalky limestone containing thin irregular indistinct layers of clay----------	1894
Pieces of a core consisting of two kinds of materials. One is a gray indurated finely micaceous sandstone of a very fine and even texture and containing some minute grains of glauconite. The other material is a dark somewhat brownish clay of a very fine texture----	2400
Mixed cuttings consisting mainly of sand and clay----------	2479
Gray fine-grained sand and some sandy clay----------	2510
Dark clay of a fine and even texture containing a very small amount of fine sand grains----------	3044
Dark clay containing an abundance of <u>Orthophragmina flintensis</u> (determined by Miss Julia Gardner from specimens from the Ohio Red River Oil Co.'s well)----------	2550