

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 drillers' 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 RED RIVER COUNTY

Lady Alice No. 1, Johnson Petroleum Syndicate

Location:—On lot 5 in block 4, plat 13 of the J. Fred Johnston subdivision of the R.T. Gamble survey, being 1,067 varas north of the south boundary line and 215.1 varas west of the east boundary line of said R.T. Gamble survey, 3/4 mile from the Red River and 18 miles north from Clarksville, Texas, at point known as Silver City, Texas.

Driller's Log			
	Depth in feet to		Depth in feet to
Surface clays	14	Soft black shale	564
Quicksand	67	Hard white lime	566
Shale, soft blue	84	Soft blue shale	600
Sand, soft red	88	Hard white lime	617
Soft blue shale	104	Lime and shale, white and blue	630
Soft red shale	280	Hard white lime	634
Soft blue shale	302	Soft blue shale	637
Soft brown shale	333	Hard white lime	688
Soft blue shale	365	Soft pink shale	698
Hard coarse black sand	369	Lime and shale, broken gray	
Hard black lime	371	and blue	705
Soft white sand	372	Sand, soft grayish brown (4000	
Hard white lime	375	bbls. water well, oil showing)	754
Soft blue shale	395	Gumbo, tough lead	758
Hard gray lime	401	Shale, sticky red	775
Soft sandy blue shale	418	Shale, soft blue	785
Hard gray lime	425	Sand, soft white (3500 bbls.	
Soft blue shale	440	soda water, oil showing)	822
Lime, hard gray	465	Lime, hard white	827
Soft blue shale	480	Sand, soft gray, oil showing	840
White hard lime	488	Gumbo, soft white	844
Soft blue shale	498	Sand, soft white, good oil	
Hard white lime	505	showing	848
Soft blue shale	517	Shale, sandy gray-blue	860
Hard white lime	523	Sand, hard white	865
Soft blue shale	527	Shale, soft red	882
Hard white lime	537	Shale, soft blue	886

	Depth in feet to		Depth in feet to
Sand, soft gray	890	Soft sandy blue shale (oil showing)	1421
Sand, hard gray	893	Hard gray lime	1423
Shale, soft red	920	Soft sandy blue shale	1426
Shale, soft brown	935	Soft red rock	1429
Shale, soft brown	949	Soft blue shale (rainbows)	1433
Sand, soft white (salt water flowing over casing top)	967	Hard blue lime	1439
Shale, soft blue	990	Soft sandy blue shale (heavy rainbows)	1443
Sand, soft brown	994	Brown-gray sand (water with oil showing)	1466
Sand, soft gray (tremendous oil showing)	1000	Hard brown lime	1475
Red rock	1014	Soft red rock	1483
Soft blue shale	1019	Soft white chalk	1488
White lime	1020	Coarse gray sand (good showing of oil)	1501
Soft red shale	1024	Hard gray sandy lime (continued oil showing)	1506
Medium white sand (water)	1034	Soft gray sand (11" oil sand on top, good showing)	1523
Sand and blue shale	1043	Soft sandy blue shale (continued good oil showings)	1572
Soft white sand (oil showing from top)	1068	Hard gray lime, now drilling with continued rainbowing	1575
Sandy blue shale	1070	Soft gray sand	1585
Brown sand (oil showing)	1071	Hard gray lime	1590
Red shale	1140	Soft red rock	1628
Medium brown sand (rainbows)	1148	Soft sandy blue shale	1632
Soft blue shale	1152	Tight gray sand	1638
Soft brown sand (rainbows)	1154	Coarse gray sand and flint rock	1673
Soft gray sand (water)	1170	Soft sandy blue shale	1763
Soft blue shale	1178	Hard blue slate and lime	1774
Soft gray sand (water and oil spots)	1180	Blue slate, lime, and pyrites of iron	1785
Soft brown shale	1192	Hard gray sand	1789
Soft gray sand, water	1202	Hard blue lime, with the following changes:	
Soft black shale	1204	With flint rock to	1864
Fine gray sand, water and rainbows	1211	With white lime to	1890
Hard blue shale	1218	With slate and pyrites of iron	1909
Hard red shale	1251	With pyrites of iron to	1932
Hard blue shale	1260	With white lime to	1955
Sandy brown shale (rainbows)	1280	With small flint pebbles	1959
Hard blue shale	1295	With darker color to	1977
Hard red shale	1318	Light coarse to	1997
Sandy blue shale (rainbows)	1325	Fine dark to	2002
Hard red shale	1330	Darker to	2025
Soft blue shale	1340	Very dark to	2032
Hard blue gumbo	1350	Blue black to	2046
Soft blue shale	1352	Light, fine to	2055
Soft strata chalk	1359	Steady blue to	2085
Asphalt and iron (oil showing)	1360		
Hard gray sand rock	1364	Showing oil through entire strata.	
Soft blue shale	1375		
Hard blue lime	1382		
Mixed formation	1386		
Soft blue shale	1397		
Soft pink shale	1402		
Soft gray sand (artesian salt water and oil showing)	1412		
Soft blue shale	1415		
Hard blue lime	1417		

Description of samples by T.L.Bailey, R.T.Short, and O.M.Richey; submitted by J. Fred Johnston, 1924-25-26.

	Depth in feet
Rather finely ground cuttings of a fine-grained white limestone - - - - -	685
Rather large cuttings of a pale yellowish-gray dense-textured dolomite - - - - -	700
Few small fragments of whitish and gray chert and a small amount of subrounded, pale pinkish rather fine sand - - - - -	754
Pale pinkish, medium to coarse loose sand - - - - -	822
Similar to the preceding - - - - -	840
Similar to 758-822 feet except that considerable pyrite is present and a few grains of gray phyllite noted - - - - -	848
Similar to 827-840 feet - - - - -	865
Similar to the preceding - - - - -	890
Cuttings of bluish-gray marl, reddish and greenish-gray clay, sandy sandstone and lignite - - - - -	967
Fine cuttings of rusty-brown and greenish-gray clay mixed with much quartz sand - - - - -	996
Small fragments of very fine-grained, pale gray to whitish, soft sandstone and much fine quartz sand - - - - -	1001
Fragments of oyster shells up to 1 inch in length - - - - -	1100
Roundish piece of coarse-grained, pale gray sandstone with a calcareous cement - - - - -	1020
Similar to preceding sample. Several phyllite fragments noted - - - - -	1043
Fine sand and brownish-red clay cuttings - - - - -	1068
Fine-grained, pink sand - - - - -	1071
Marcasite concretions up to 1/2 inch in diameter - - - - -	1110
Reddish, somewhat clayey, medium-grained sand - - - - -	1101
Reddish, sandy and silty clay and small fragments of fine whitish sandstone - - - - -	1154
Red clay and fine pink sand - - - - -	1170
Much fine sand, many small fragments of red clay and numerous fragments of lignite - - - - -	1184

(Depths shown above copied as file copy shows.)

Fine pink sand with some lignite - - - - -	1202
Fine, pale purplish sand and small lignite fragments - - - - -	1211
Cuttings of pale gray marl with a few fragments of red clay and some fine sand - - - - -	1359
Fragments of partly pyritized lignitic material and a small amount of fine sand - - - - -	1360
Few lumps of grayish-green and pink variegated, calcareous, very argillaceous, fine sandstone or silt - - - - -	1364
Pieces of calcareous, dark gray shale, considerable fine gray sand, and small pieces of white sandstone - - - - -	1418
Fine, brownish-red silty sand - - - - -	1439
Brownish, poorly sorted sand, several chert pebbles up to 3 mm in diameter, a few small lumps of greenish-gray, calcareous clay, sandstone grains, and a few small pyrite concretions - - - - -	1466
Medium-grained, white quartz sand - - - - -	1501
Similar to 1443-1466 feet. Considerable pink chert present - -	1523
Fine, white, angular-grained sand - - - - -	1585
Dark rusty-brown, silty sand - - - - -	1638
Like the preceding except that no lignite noted. - - - - -	1653
Sandy gravel of brownish-gray color - - - - -	1673
Cuttings of shiny slate-gray phyllite - - - - -	1767
Similar to 1763-1767 feet - - - - -	1785
Mixed cuttings of Trinity sand (from above) and pale green chlorite-hematite schist - - - - -	1789
Cuttings of gray phyllite, medium gray quartzite and vein quartz, and calcite - - - - -	1890
Similar to 1763-1767 feet - - - - -	1932
Cuttings of gray phyllite, gray quartzite, vein quartz, and graphite schist - - - - -	1955
Similar to 1763-1767 feet. Also a few pieces of graphite-bearing vein quartz noted - - - - -	1977
Light to dark slate, gray phyllite, and phyllitic quartzite - - -	2080
Cuttings of gray phyllite and greenish-gray chloritic phyllite - -	2104

Depth in feet

Shiny slate-gray phyllite containing a number of small pyrite octahedrons - - - - -	2117
Fine cuttings of phyllite and quartzite - - - - -	2120
Phyllite and much vein quartz - - - - -	2126
Gray phyllite with a few fragments of vein quartz - - - - -	2130
Like the preceding sample- - - - -	2140
Gray phyllite and vein quartz cuttings - - - - -	2143
Finely ground cuttings of quartzite, phyllite, quartz, and pyrite---	2147
Dark gray phyllite - - - - -	2151
Fine cuttings of bluish-gray phyllite, gray quartzite, milky quartz, and chlorite schist - - - - -	2155
Dark bluish-gray phyllite cuttings - - - - -	2175
Dark gray phyllite, medium-gray quartzite, and quartz cuttings - -	2219
Phyllite and quartzite and much milky vein quartz - - - - -	2229
Phyllite, quartzite, and some vein quartz - - - - -	2229--?
Like the preceding sample - - - - -	2256
Like the preceding sample - - - - -	2265
Dark slate, gray phyllite, and a very few grains of vein quartz and calcite - - - - -	2287
Similar to the preceding sample- - - - -	2307
Phyllite, quartzite, and vein quartz like in many preceding samples--	2332
Similar to the preceding sample. Also one cube of pyrite 2 mm in diameter noted - - - - -	2340
Quartzite, phyllite, and much vein quartz - - - - -	2344
Quartzite and phyllite. A little vein quartz - - - - -	2405
Mostly pale to dark gray quartzite - - - - -	2420
About half quartzite and half phyllite - - - - -	2425
About equal amounts of phyllite, quartzite, and vein quartz- - - -	2435
Quartzite, phyllite, phyllitic quartzite in about equal amounts and a little vein quartz - - - - -	2472

	<u>Depth in feet</u>
Several samples----quartzite and phyllite in about equal amounts or phyllite more abundant. Some vein quartz present - - - - -	2457
Cuttings of phyllite, quartzite, and calcareous phyllite and quartzite - - - - -	2467
Several samples similar to 2435-2457 feet - - - - -	2522
No entries until 4000-4033 feet.	
Cuttings of black graphite schist with some crystalline calcite and vein quartz - - - - -	4033
Black graphite schist with very dark gray calcareous sandstone and a little vein quartz and crystalline calcite - - - - -	4078
Cuttings of black graphite schist with some crystalline calcite - -	4082
Cuttings of black graphite schist with some very dark gray calcareous sandstone - - - - -	4105
Cuttings of graphite schist with some crystalline calcite and vein quartz - - - - -	4130
Black graphite schist with some vein quartz and crystalline calcite -	4150
Black graphite schist with some vein quartz and crystalline calcite -	4160
Sample like from 4150-4160 feet - - - - -	4165
Black graphite schist with much crystalline calcite and a little vein quartz - - - - -	4170
Cuttings of black graphite schist with some crystalline calcite and vein quartz - - - - -	4210
Cuttings of gray sand with some fragments of graphite schist - - - -	4470
Fine cuttings of black graphite schist and crystalline calcite - - -	4515
Cuttings of black graphite schist with some crystalline calcite - - -	4520

Warren Randolph No. 1 Johnston Petroleum Syndicate

Located $1\frac{1}{2}$ miles east of Detroit on lot 2, block 53, J. Fred Johnston subdivision, E. M. Dean survey.

Description of samples by O.M. Richey and G.H. Clark; submitted by J. Fred Johnston, 7/19/26.

	<u>Depth in feet</u>
Piece of greenish-brown sandy noncalcareous shale - - - - -	32
Cuttings of greenish-brown sandy noncalcareous shale - - - - -	37
Cuttings of dark green sandy noncalcareous shale - - - - -	45

	<u>Depth in feet</u>
Fine gray sand - - - - -	64
Cuttings of dark green sandy, noncalcareous shale - - - - -	80
Cuttings of dark gray sandy noncalcareous shale - - - - -	114
Cuttings of coarse gray sandstone, which was seen to contain much glauconite, and a little muscovite - - - - -	125
Fine gray sand, pyrite, biotite, muscovite, gypsum, and glauconite were seen to be present in the washed material - - - - -	150
Fine gray sand. A very little pyrite was noted in washed material--	157
Fine gray sand. Washed material was seen to contain glauconite and some muscovite - - - - -	237
Cuttings of dark green sandy calcareous shale and coarse gray sandstone containing glauconite - - - - -	305
No sample from this depth. Driller's note: Black shale and gumbo---	380
No sample. Driller's note: Hard black shale (a little sandy). - -	450
No sample. Driller's note: Black shale and gray - - - - -	502
No sample. Driller's note: Black gumbo - - - - -	512
No sample. Driller's note: Black shale and gray - - - - -	574
Fine gray sand in which were noted fragments of gray, slightly calcareous shale - - - - -	605
Fine gray sand in which were noted fragments of gray, calcareous sandstone and noncalcareous shale, much glauconite was also noted - - -	615
Fine gray sand in which were noted gray, slightly calcareous shale fragments - - - - -	630
No sample. Driller's note: Black shale - - - - -	635
Cuttings of clear quartz and slightly calcareous, gray shale fragments - - - - -	650
Fine gray sand in which were noted fragments of gray noncalcareous shale - - - - -	650
Cuttings of fine gray sand with a small amount of gray noncalcareous shale and ferruginous material, probably hematite - - - - -	670
Cuttings of gray sand and gray noncalcareous shale and ferruginous material - - - - -	635-650
Cuttings of light gray sand, gray noncalcareous shale, clay ironstone, and ferruginous material - - - - -	680

Cuttings of fine gray sand and some ferruginous material - - - -	695
Cuttings of medium gray calcareous sandstone and a few fragments of clay-ironstone - - - - -	700
Cuttings of gray calcareous sandstone and of fine gray sand- - - -	715
Cuttings of dark gray noncalcareous shale - - - - -	721
Cuttings of gray calcareous sandstone and fine gray sand - - - -	731
Cuttings of gray sandstone, sand, and gray noncalcareous shale - -	735
Cuttings of medium gray noncalcareous shale and some sand- - - -	745
Cuttings of dark gray, slightly calcareous shale, and some sand- -	790
Fine gray sand and a few fragments of blue-gray noncalcareous shale- -	800
Cuttings of dark gray noncalcareous shale - - - - -	795
Cuttings of dark gray, noncalcareous shale- - - - -	800
Cuttings of dark, greenish-gray, sandy shale in which were seen many shell fragments - - - - -	808
Fine gray sand and fine fragments of dark gray, noncalcareous shale -	835
Cuttings of dark gray noncalcareous shale and fragments of gray calcareous sandstone - - - - -	845
Cuttings of medium gray, sandy noncalcareous shale - - - - -	860
Cuttings of gray, sandy, calcareous shale and fragments of a darker gray noncalcareous shale - - - - -	865
Cuttings of medium gray, noncalcareous shale and gray calcareous sandstone - - - - -	875
Cuttings of medium dark gray, sandy, noncalcareous shale - - - -	975
Fine gray sand, fragments of dark gray, noncalcareous shale and a few pieces of gray limestone and calcite - - - - -	977
Cuttings of lignite - - - - -	977
Gray, noncalcareous sandstone and lignite - - - - -	978
Cuttings of gray, noncalcareous shale and a little lignite - - -	990
Cuttings of gray noncalcareous shale - - - - -	994
Cuttings of gray and a little brown noncalcareous shale and bits of lignite - - - - -	1005

Cuttings of gray, noncalcareous shale, some lignite, and an abundance of the carbonate mineral noted in the two samples immediately above - - - - -	1022
Cuttings of reddish-brown, noncalcareous shale in which could be seen streaks of gray noncalcareous shale - - - - -	1055
Cuttings of greenish-gray, noncalcareous shale, and finegray sand -	1065
Cuttings of gray, noncalcareous shale, which was noted to slake very readily in water - - - - -	1080
Cuttings of dark bluish-gray, noncalcareous shale, light gray calcareous shale, and some fine gray sand - - - - -	1085
Fine gray sand, which contained a small amount of calcareous material--	1095
Fine greenish-gray sand and shale - - - - -	1100
Cuttings of noncalcareous shale, the color of which is the result of the blending of gray-purple and brown shales - - - - -	1125
Fine cuttings of reddish-brown, noncalcareous shale - - - - -	1125
Cuttings of greenish-gray, sandy, noncalcareous shale - - - - -	1150
Cuttings of gray-brown, noncalcareous shale, and light gray and greenish-gray, noncalcareous sandy shale - - - - -	1165
Cuttings of greenish-gray sandy noncalcareous shale - - - - -	1175
Cuttings of reddish-brown noncalcareous shale - - - - -	1250
Cuttings of greenish-gray, calcareous shale, and fine gray sand - -	1260
Cuttings of greenish-gray, slightly calcareous shale and pebbles of pink, brown, and gray chert - - - - -	1268
Cuttings of black lignitic shale - - - - -	1270
Cuttings of blue-gray chert, greenish-gray calcareous shale, and gray noncalcareous shale having in it small chert pebbles of different colors - - - - -	1280
A white silicate (kaolin.) which on testing proved to contain aluminum and some iron, vari-colored pebbles of flint were also noted in the sample - - - - -	1300