

UNIVERSITY OF TEXAS
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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 of Gonzales County

Denman 1, Bristol Oil and Gas Company.

Located near the San Marcos River, $1\frac{1}{2}$ miles S.E. of Ottine.

Description of samples by E. H. Sellards and O. M. Richey; submitted by E. H. Finch, 1926.

Brown gray sandstone and calcareous material in which many shell fragments were seen. Relatively large subangular to rounded grains of clear quartz, pyrite, and a little glauconite were present in the washed material. Gastropods, ornamented ostracods, bryozoa, fish teeth, and otoliths present.

25-33

Brown fine-grained sandstone taken from the bit.

46

Similar to sample from 25-33 feet.

46-56

Dark gray, very sandy, calcareous shale. A gastropod and other unidentified shell fragments present. A little pyrite was noted in the washed material. The quartz grains were seen to be subangular to rounded.

78

Same as that from 78 feet.

85

Medium dark gray, calcareous, sandy shale. Angular to subangular grains of clear quartz were noted in the washed material. Some pyrite present. A few shell fragments noted.

92

Gray sandy calcareous shale. Fragments of gray limestone, rounded to subangular grains of clear quartz, measuring 1.7 mm. in diameter, pyrite were seen in the washed material. Bryozoa, gastropods, and broken shell fragments present also.

99

Line sample from 99 feet.

108

Medium-dark gray sandy calcareous shale taken from the bit. A few fragments of gray limestone, pyrite, and clear quartz noted in the washed material.

113

Black, sandy, calcareous shale. Pyrite and a few shell fragments noted in the washed material. A very little lignite present.

133-145

Dark gray sandy calcareous shale. Pyrite, fragments of sandstone and shell fragments noted in the washed material. The clear quartz grains were seen to be subangular to rounded, some of them as much as 1.5 mm. in diameter. A little lignite present.

145-170

Medium gray calcareous sandy shale. 98% of the washed material was made up of angular to subangular grains of clear quartz. The remaining 2% consisted of pyrite encrusted fragments of dark gray indurated shale. Probably Mt. Selman or Wilcox.

630

Elder Well.

Located 4 miles NW. of Cheapside.

Description of samples by E. H. Sellards and O. M. Richey; submitted by E. Lee Moore, 1926.

Medium gray sandy non-calcareous shale. In the washed material the clear quartz grains were seen to be angular. Pyrite present. Fossils present: Turritella, Volithulithes, Venericardia planicosta, and fragments of pelecypods too small to be identified. Claiborne.

1407

Frampton Well.

Located 1½ miles NW. of Waelder at Triangulation Station shown on U. S. topographic sheet. Elevation 400 feet.

Description of samples by E. H. Sellards and O. M. Richey; submitted by E. H. Finch, 1925.

Dark gray, slightly calcareous shale, in which many small shells and shell fragments were seen. Pyrite and limonite were noted in the washed material. Fossils: Cadulus, Dentalium, Cancellaria, Venericardia, Turritella nasuta, Terebra(?), Natica ariata, and Leda, otoliths, fish teeth, and several coiled gastropods.

100

Dark gray limestone, shells and shell fragments. Pyrite, clear quartz, and limonite were noted in the washed material. Venericardia, Dentalium, Leda, Cadulus,

and *Trinacria pulchra* Gabb were noted. *Otoliths* present. 170

Dark gray, slightly calcareous, shale in which one *Turritella* and many shell fragments were noted. Pyrite-encrusted fragments and clear quartz were noted in the washed material. Claiborne. 485

Gulf Production Co. Well in Cost Gas Field.

Located about 8 miles SW. of Gonzales.

Drillers Log.

Depth in Ft. to:		Depth in Ft.	
yellow clay	38	sand rock	696
yellow sand	43	gumbo	700
gumbo	63	blue shale & some sand	754
rock, hard sand	65	hard sand and shale	811
gumbo	82	gumbo	836
rock	87	sand rock	841
shells & pyrites of iron	104	gumbo	850
gumbo	146	rock	853
sand rock	150	gumbo	872
gumbo	186	gumbo and sand mixed	894
rock, hard sand	190	gumbo	908
gumbo	209	sand	915
blue shale	221	gumbo	929
rock with showing of gas	229	blue shale	936
gumbo	240	hard sand rock	940
rock with show of gas	248	gas sand	955
shale	264	gumbo	965
sand rock	269	sand	985
blue gumbo	331	rock	989
rock	333	sand	1018
blue gumbo	338	gumbo mixed with sand	1119
sand rock	350	gas sand, strong gas	1129
gumbo	365	gumbo	1140
black sand, shells and gas	417	gypsum	1150
gumbo	421	gumbo	1160
gas sand	427	black sand, good gas	1170
gumbo	430	gumbo	1200
gas sand, strong gas	434	black sand, gas	1215
sand shells, strong gas	442	gumbo	1318
gumbo	454	dark brown sand, oil	1324
water sand, white	469	gumbo	1390
shells & pyrite of iron	553	rock	1395
gumbo	570	gumbo	1399
sand rock	574	sand & shale, show of oil	1408
blue shale	580	gumbo	1489
blue gumbo	610	shale	1509
sand and shale	621	gypsum	1520
gumbo	636	gypsum	1530
rock	640	black sand, gas	1545
blue water sand	689	rock	1551
gumbo	694		

Larkin 1, Producers Oil Company

Drillers log.

Depth in Ft. to:

Depth in Ft. to :

good shale and a little		shale & gumbo	3068
blue gumbo	2775	shale, softer same color	3130
shale	2838	shale, brittle & softer	3160
rock	2839	shale, dark	3230
shale	2885	shale, with small shells	3250
shale & gumbo	2940	shale	3272
shale, more brittle	2970	shale, loose stone in bot-	
shale, brittle, tough		tom	3285
streaks	3006	tough gumbo	3300
shale	3030	tough gumbo, some shells	3370
		tough gumbo & sticky stuff	3382
		same, shale, more grit	3400

Lamkin 1, Texas Southern Oil & Lease Synd.

Located on the Winslow Turner Survey, $1\frac{1}{2}$ miles E. of Ottine.
Drilled 1910.

Drillers log.

Depth in Ft. to:

Depth in Ft. to:

clay and gravel	40	gunbo	599
shale	100	rock	601
packed sand	115	gunbo	608
soapstone	131	rock	610
very hard rock	132	gunbo	694
gunbo	174	shale	703
shale, gravel & pyrite	198	rock	709
rock, very hard	200	shale	727
gunbo	223	rock	729
rock	224	shale	755
gunbo	300	shale	760
shale	501	shale and pyrites	780
gunbo	508	rock	782
shale	542	gunbo	806
gunbo	545	rock	809
shale	579	gunbo	815

Depth in Ft. to:		Depth in Ft. to:	
shale	829	gumbo	1733
rock	830	shale	1760
gumbo	842	gumbo	1774
rock	843	shale	1790
shale	845	sand	1814
rock	846	gumbo	1817
shale	847	sand	1820
rock	848	shale--oil	2033
shale	875	sand	2056
rock	876	rock	2058
shale	882	gumbo	2078
rock	883	rock	2080
shale	915	sand	2082
gumbo	925	gumbo	2098
shale	950	sandy shale	2115
gumbo	981	gumbo	2139
shale and sand, oil & gas	1105	rock	2140
shale	1122	sticky shale	2160
shale	1135	gumbo	2169
sand	1139	shale, oil & gas	2173
rock	1140	rock	2175
gumbo	1158	gumbo	2195
rock	1161	shale	2200
gumbo	1195	gumbo	2210
shale	1208	gumbo, much	2237
gumbo	1212	gumbo, much	2242
sand	1214	gumbo	2253
rock	1215	shale	2290
sand	1270	gumbo	2305
gumbo	1279	shale	2316
sand	1288	gumbo	2343
gumbo	1290	sandy shale	2383
sand	1303	rock	2383 $\frac{1}{2}$
rock	1304	sandy shale	2386
sand	1320		
gumbo	1325	Q. D.	2386
sand	1329		
gumbo	1333		
sand	1338		
gumbo	1343		
sand	1390		
gumbo, show of oil & gas	1405		
gumbo	1429		
sand	1436		
rock	1439		
sand	1451		
gumbo	1478		
sand--oil	1485		
gumbo	1495		
sand	1520		
shale	1640		
gumbo	1644		
sand	1664		
shale	1678		
gumbo	1711		
shale	1723		

Description of samples by J. A. Udden; submitted by Smith Brooks, 1917. Rotary Rig.

Depth in Ft.

Dark gray clay in part slightly calcareous. A few mica scales and several minute concretions of pyrite noted. The samples contain very little sand, in which some very sharply angular grains are present. Sponge spicule(?) noted. Heated in tube it gives strong bituminous fumes and decided fumes of ammonia

713-723

Gray and soft sandy limestone, showing thin layers, about 1 mm. thick. Veins of black asphaltic material run in irregular directions, and give strong, bituminous fumes in closed tube. Whole rock darkens when heated in matrass. In thin section, rock is seen to consist of crystals of calcite $\frac{1}{2}$ mm. in diameter and of quartz grains of same size, nearly all angular. With these is some mica scale. No fossils noted.

720

Light gray, soft, chalky marl. Pyrite noted. When heated in tube, sample gives off bituminous fumes and faint fumes of ammonia. No fossils noted.

Depth not given

Dark clay of fine texture, with a little sand. Fumes of ammonia and bituminous fumes given off when heated in closed tube. Pyrite noted. Fossils: Cristellaria and a fragment of a small spine. Some flattish, granular organic(?) substance, almost opaque

957

Slate-colored clay and silt of fine texture, very slightly calcareous, with much sand.

850

A mixture of sand and clay. Pieces of pelecypod shells of small size. No foraminifera noted. Some pyrite and mica

1001

Black clay giving odor of peat when heated. With this is some sand, a few scales of mica and considerable pyrite. Fragments of small pelecypod shells noted. No foraminifera found. Showing of oil

1018

Dirt brown colored marl. Contains some coal, considerable pyrite and some white sand-grains. Fossils: Furritella, sf., and small pelecypods. Polymorphina fragments of wood as coal.

1025-1032

Dirty brownish black marl with some fragments of coal. Some sand and considerable pyrite present. Heated in closed tube it gives fumes of sulphur, an odor of burning peat, strong fumes of ammonia, and yields droplets of oil. The darkest fragments burn slightly in flame. Fossils: Many fragments of small pelecypods and gastropods noted. A small Turritella present.

1032-1042

	Depth in Ft.
Dark, almost black clay shale, with some sand lignite material. Pyrite present. Heated it gives bituminous odor and strong fumes of ammonia, the darkest fragments support the flame slightly. Fossils: small gastropods and pieces of valves of small pelecypods.	1042-1052
Like the material from 1042 ft.	1052-1062
Dark, almost black clays, with some polished sand with a few red grains, shale, a little pyrite and some lignitic material.	1062-1072
Dark, almost black dirty clay-shale.	1072-1079
A fragment of gray sandstone, with a strong calcareous cement. A few flakes of mica, pyrite and some black grains noted. In thin section the sand grains are seen to be nearly all angular, and to lie imbedded in a copious matrix. A piece of carbonized wood was seen.	1079-1082
Gray marly clay, with some sand and a few mica scales, and some small fragments of lignitic material. Fumes of ammonia given off on heating. Some small gastropods and fragments of a small Ostrea(?) and other pelecypods noted.	1082-1092
Gray, very soft sandstone, with grains mostly from one-eighth to one-half mm. in diameter. Some sand grains measure up to two mm. in diameter. The sand is in small part cemented by pyrite, and contains mica. The larger grains are polished.	1092-1180
Dark gray clay of very fine texture, with some very fine-grained sand. It contains some lignitic material and pyrite and gives ammonia fumes when heated in closed tube.	1180-1210
Gray silt and sand.	1210-1220
Calcareous silt and clay with some sand. With the sand is much pyrite, mica and lignitic material and fragments of small molluscs (marine)	1220

Lynch Well 1.

Located on the W. side of the Inling-Gonzales Highway, 1 mile from Karnstadt's Corner.

Drillers log.

	Depth in Ft. to:	Depth in Ft. to:
sand and clay	12	quick sand 335

Depth in Ft. to:		Depth in Ft. to:	
lime rock	339	sand & lime rock	614
water sand & gumbo	410	water sand	619
hard sand & lime rock	413	dark shale	674
gumbo, sand & ledges of		sandy shale with dead oil	694
hard sandstone & pyrites		lime rock	696½
of iron	500	oil sand	698
dark shale	515	brown marl; oil & gas	898
shale with dead oil	520	gumbo	901
oil sand	527	hard lime rock	907
gumbo	530	shale, dark gray	962
hard lime sand & rock	533	gumbo	964
sand & shale with good		hard sand rock	984
oil showing & gas	541	oil sand very rich	987
brown gumbo & shells	553	hard sand rock	1012
hard ledges, sand		hard sand balls, gumbo,	
pyrites	557	lime pebbles & sand	
brown shale & shells,		caving badly	1015
showing gas	565	hard lime & shell rock	1033
very hard lime rock	569	hard sand rock	1107
		very hard lime & pyrites	
		rock	1113

stopped in one foot of oil sand, showing oil and good gas.

Joe Stuart Well.

Located 1 mile S. of Ottine.

Drillers log.

Depth in Feet to:		Depth in Feet to:	
clay gray to yellow	18	rock	681
gravel, variegated loose		gumbo dark	685
and cemented	112	rock, yellow clay like	686
rock or boulder	114	shale, dark brittle	708
sand, silica, soft	134	rock	709
sand & pyrites, ½ & ½	310	mud, dark	714
clay, gray, sandy	333	rock; dark gray, fossils	716
sand, white, soft	412	clay, green lignitic	735
rocky gravel	415	rock, dark gray, fossils	737
sand & gravel, all color	525	shale, dark	800
rock & boulders	526	rock, hard	801
sand, white with black		shale	805
spots	535	rock, clay like	807
Above all artesian.		shale, dark, brittle	810
gumbo, dark, sticky	540	clay, yellow tough	813
mud, dark, sandy	560	gumbo, dark	824
rock, limy	562	shale, dark, brittle	829
mud, sandy	590	shale, dark, soft	870
rock	591	gumbo, dark, tough	980
clay, sandy & soft	631	shale, dark	1035
rock, gray, hard	633	shale	1045
clay, sandy pinkish	662	hard shale	1055
shale, sandy lignitic	680	rock	1056

	Depth in Feet to:		Depth in Feet to:
shale & gumbo	1160	rock	1260
rock	1163	shale, sandy clay, hard	
clay, sandy	1170	spots	1350
gumbo, very tough	1176	clay, sandy gray	1355
clay, sandy gray	1196	gumbo	1360
gumbo	1212	sandy shale	1450
sand and lignite	1238	rock	1452
gumbo	1244	sand	1460
sandy shale	1259	streaks shale, sand gumbo	1550
		and hard spots, lignitic, bottom.	
		T. D. (log not given)	3350