THE UNIVERSITY OF TEXAS AT AUSTIN
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 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 logs. 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

WELL RECORDS OF REFUGIO COUNTY

Bessie Beryl 1, San Patricio County Oil Development Company

Located on the east side of Mission River, 2 miles northwest of Refugio. Total depth 1,902 feet, at which depth the well was lost on account of gas.

Driller's Log

	Depth in feet to:		Depth in feet to:
Top clay	96	Sand rock & pyrites	564.9
Sand rock	101	Blue shale showing gas	568.9
Blue gumbo	192.1	Pink gumbo	618.4
Sand rock	233.1	Sand rock pyrites	684.5
Blue gumbo	244.1	Blue gumbo	706.9
Blue hard shale showing oil & gas	245.5	Soft blue shale	735.5
Blue gumbo	264.5	Sand rock pyrites	744.5
Sand rock	306.7	Hard blue shale	752.5
Blue gumbo	328.3	Sand rock & pyrites	778
Blue hard shale	348.3	Brown shale & boulders	789.1
Blue gumbo	369.3	Sand rock & pyrites	796.1
Brown shale, showing gas	381.1	Hard brown shale, showing gas	822.8
Gypsum gumbo	445.4	Sand rock & pyrites	929.5
Sand rock & pyrites	485	Blue gumbo	950.4
Blue shale & boulders	488.9	Sand rock & pyrites	982
Blue gumbo	499.9	Blue gumbo	1024
Sand rock & pyrites	541.9	Sand rock & pyrites	1029
Blue gumbo	545.9	Blue gumbo	1039
Sand rock	546.9	Sand rock	1054.7
Blue gumbo	551.9	Blue gumbo	1134.5
Hard brown shale, showing gas	1162.5	Rock & pyrites	1146.5
Blue gumbo	1174.1	Blue hard shale, showing gas	1591
Rock	1184.1	Sand rock & pyrites	1593
Brown shale, showing gas	1217.3	Blue gumbo	1633.7
Blue gumbo	1222.3	Sand rock & pyrites	1604.7
Sand rock & pyrites	1238.7	Sand rock & pyrites	1677.8
Blue gumbo	1250.7	Hard brown shale and gas	1705
Sand rock & pyrites	1297.1	Sand rock	1725
Blue gumbo	1300.9	Brown shale	1727.8
Sand rock	1304.9	Sand rock & pyrites	1737.8

	Depth in feet to:		Depth in feet to:
Gypsum gumbo	1395.6	Blue shale	1747.8
Soft blue shale	1414.7	Blue gumbo	1769.1
Sand rock & pyrites	1426.7	Brown shale	1779.1
Blue gumbo boulders	1489.3	Blue gumbo	1790.5
Blue brown sand shale, showing oil & gas blow-out, blew crown block off	1524.3	Brown shale	1800.5
		Blue gumbo	1807.5
		Brown sand	1822.3
Blue gumbo	1554.5	Blue gumbo	1849.1
Salt water sand	1559.5	Blue gumbo	1855.9
Blue gumbo	1569.7	Shale rock, chalk & sand, showing gas	1900.9

At this point gas blew crown blocks off and ruined the well.

Rooke 2, Pratt-Hewitt Oil Syndicate

Located 3 miles due west of Refugio. Drilled 1921-1922. Total depth 2420 feet. Produced gas, reported at 80,000,000 cu. ft. per day. Elevation estimated at 50 feet.

Driller's Log

	Depth in feet to:		Depth in feet to:
Surface sand and clay	20	Sandy shale streaks of sand	395
Sand and boulders	29	Tough blue shale "gumbo"	412
Hard lime rock	35	Sticky shale	418
Blue clay	40	Hard limy shale "gypie gumbo"	455
Sand and boulders	45	Blue shale and soft sand	495
Hard blue limestone	49	Tough pink shale, "gumbo"	500
Clay, sand, and boulders	61	Pink and blue sticky shale	578
Hard blue limestone	85	Hard blue sandy shale	608
Hard packed sand	90	Rough red shale and "gumbo"	662
Hard sand shale	120	Soft gray sand and shale	676
Blue clay	132	Tough blue shale "gumbo"	691
Soft sandstone	137	Hard pink shale "gumbo"	1626
Blue clay	153	Blue sandy shale	1638
Sand and boulders	156	Hard sticky shale	1669
Blue clay	195	Hard sandy shale and boulders	1688
Soft blue shale	201	Chalky limestone	1697
Tough blue shale "gumbo"	365	Pack sand and boulders	1738
Soft blue shale and sand	726	Hard sticky shale and boulders	1780
Tough blue shale "gumbo"	738	Hard sand, lime, and boulders	1795
Soft blue shale	762	Hard gray sand and lime	1803
Hard blue shale and boulders	767	Hard blue shale "gumbo"	1837
Pink limy shale "gumbo"	780	Green and brown shale	1905
Hard blue shale "gumbo"	798	Hard blue shale	1955
Fine soft sand	806	Soft blue sand brown shale	1965
Hard blue and pink shale "gumbo"	840	Lime pyrite and boulders (gas bearing)	1970
Gray sand	860	Hard sticky gray shale	2020
Sand boulders and pyrite	864	Hard blue shale	2061
Pink and blue sticky shale	890	Hard blue shale "gumbo"	2090
Sand and boulders, streaks of lime, and pyrites	951	Pink shale "gumbo"	2117
Sandstone	954	Hard blue shale	2123
Tough blue shale "gumbo"	980	Pink shale "gumbo"	2147

	Depth in feet to:
Hard sand boulders and pyrite	988
Tough red shale "gumbo"	1024
Lime, pyrite, and boulders	1029
Tough blue shale "gumbo"	1140
Hard sticky shale	1153
Sandy shale	1158
Hard sticky shale	1206
Sandstone	1208
Firm sand	1231
Hard sand	1239
Blue shale	1251
Hard sandy shale and pyrite	1280
Sandy shale and boulders	1293
Hard gray sand	1297
Hard blue shale "gumbo"	1299
Sand and boulders	1309
Blue limestone	1313
Blue sticky shale	1360
Blue limy shale	1380
Sand and boulders	1390
Hard blue sticky shale	1405
Sandy lime and boulders	1434
Sandstone	1437
Hard blue sticky shale "gumbo"	1550
Chalky limestone	1556
Limy shale	1565
Blue sandy shale	1580
Pack sand	2154
Blue shale "gumbo"	2158
Shale and boulders, limy, very hard and compact	2247
Soft sand (gas bearing)	2262
Sandy shale	2264
Hard coarse salt water sand	2276
Hard blue shale, streaks of lime, several fragments of fossil bone blew out of the hole and from the character of the shale imbedded in the pores of the bone, no doubt came from this member	2380
Hard brown shale with streaks of lime	2405
Hard reddish-brown shale containing streaks of compact sand 8" to 10" in thickness	2420

Gas bearing, yielding a flow of at least 80,000,000 cu. ft.

Description of samples by J. A. Udden and P. T. Seashore; submitted by R. H. Hawn.

	Depth in feet
Reddish-brown calcareous clay marl of fine texture. Considerable quartz present in the form of round sand grains. Fragment of calcite and some reddish chert	491
Light gray and in part reddish-brown calcareous clay or marl. Considerable quartz in the form of round sand grains. Reddish-brown and white minute calcite concretions. No fossils	600
Light greenish-gray sandy calcareous clay or marl, that slacks slowly in water. The minerals found in the order of their abundance are as follows: quartz, white and gray calcite, and pyrite. Some grains of a greenish translucent material and several fragments of black flint noted. No fossils	792
Light gray sand loosely cemented with lime	798-806
Reddish-brown calcareous clay or marl of fine texture. Some quartz grains, many of which show secondary crystal faces	825
Gray sand cemented with lime	843-845

Depth in feet

Like preceding sample 850-853

Like preceding sample 852-853

Like preceding sample 854

Light gray sand cemented with lime. 894

Light gray calcareous sandstone. Most of the sand grains are well worn 938-951

Light gray sand loosely cemented with lime, and some red and greenish-gray marl. 980-990

Reddish-brown calcareous clay or marl 990

Greenish-gray sandy marl of medium texture. 1029

Calcareous sandstone containing some silt and clay. 1231-1233

Gray sand and clay cemented with lime. Many of the sand grains show secondary crystal faces 1293

Light gray sand, slightly cemented with lime. The washed material consists mostly of quartz sand peppered with black variegated chert grains with scattered grains of calah /as original/ and crystal cybical /as original/ of pyrite. Several grains of a glauconitic-like material noted. Fossils: Globigerina, Textularia (?), and several fragments of echinoid spines. 1297-1298

Gray marl with some pink and green marl and fragments of calcareous concretions. 1299-1301

Gray limestone concretions. Gray and pink limestone and sand cemented with lime 1310

Gray, clayey, very soft sandstone with gray limestone concretions and gray, light blue, and pink shades 1336

Greenish-gray and red calcareous clay or marl of medium texture 1495-1502

Greenish-gray, blue, gray, and brown calcareous clay or marl. 1554

Sample consists of light blue calcareous clay or marl. A Textularia noted. 1671

A piece of bone, 3x3x3 inches. The bone shows one condyle and has a rough pitted exterior. Dr. Sellards considers it probable that this is from a crocodilian, possibly a part of the cranium. In external pits and grooves of the bone some greenish clay was noted. This was found to be sandy and to contain a Textularia and a Globigerina resembling those usually occurring in the Cretaceous marls. Blown out from below 2300 and probably below 2345

Depth in feet

Parts of two bivalve shells, species undetermined. 3794

Core consisting of two different kinds of rock. One is a greenish-gray silty marl containing chalky shell fragments. The other is a dark gray marly clay of fine texture which gives a bituminous odor in a closed tube. In this clay there were irregular lenses of the silty marl. Indistinct impressions of a smooth pelecypod were noted in the dark clay. A limestone concretion about 2 inches in diameter was noted. Fragments of anhydrite concretions were noted. In the washed material a small Cristellaria, a small Anomalina, and a foram like Pullenia were seen. These shells were filled with pyrite. Anhydrite, orthoclase feldspar, a little plegioclase, and a piece of brown tourmaline were noted. Oolitic marcasite noted, also minute disks of marcasite. A fragment of a Chara stem was seen 3805-3807

Probably Yegua (T. L. Bailey).

Light yellowish-brown silty sand. Most of the sand grains are well polished and some are fairly well rounded. Chert grains, pyrite, calcareous concretions, chalcedonic concretions, aragonite, and glauconite were noted. Fossils: ostracods, Cristellaria, Amphistegina (?), fish tooth 3930

Light greenish-gray, calcareous silty clay. In the washed material much angular quartz sand was noted. Some pyrite was noted. Some of the pyrite was in the form of crystals and several small spheres of pyrite were noted. Chert grains were also present. When a fragment was broken an odor of bitumen resembling kerosene was noted. 4615

Greenish-gray, calcareous silty clay. In the washed material much angular quartz sand was noted. Pyrite, most of which is in crystals, although a few spheres are present, chert grains, a few calcareous concretions, and a fragment of fine sandstone are also present. An odor of bitumen resembling kerosene was noted 4620

May possibly be from the Claiborne.