THE UNIVERSITY OF TEXAS BUREAU OF ECONOMIC GEOLOGY Austin, Texas

Mimeograph Circular No. 5 March 1929 (Stencils re-cut December 1955)

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

WELL RECORDS OF KARNES COUNTY

Earl Butler 1, E. B. Reynolds Oil Company

Located on the Carlos Martinos Survey, $4\frac{1}{2}$ miles west of Runge.

Description of samples by Dabney E. Petty; submitted by E. B. Reynolds, 1924.

Geologic location about top of Cakville. Except as otherwise indicated the samples are cuttings. Rotary drill.

sam	ples are cuttings. Rotary drill.	
		Depth in feet
	Fairly pure cream-colored, bentonitic clay, which slakes	
-	dly in water, and is mixed with considerable sand and gravel.	
	washed material is made up of calcareous concretionary frag-	
	ts; little pieces of sandstone of fine texture with a copious cal-	
	eous matrix; angular to rounded grains of clear quartz, some of	
	ch seem to be crystals, in part worn and mostly highly polished;	
	vn, yellow, green, red, and black chert, and some grains of sand. No fossils found. A mechanical analysis of the washed	
-	erial indicates approximately: 15% fine gravel, 4 mm or over	
	iameter; 2 mm to $1/4$ mm, 75%; $1/8$ mm or less, 10%	- 120-140
		- 120-110
	Bentonitic clay of a creamy color. In the washed material a	
few	small concretions of white calcareous material are found, some	
	hich are stained with manganese (?)***	- 140-226
	Impure bentonite of a dark creamy to light brown color.***	- 226-445
	Bentonitic clay of a reddish cream color.***	- 445-623
	Light gray and brown, bentonitic clay, containing sand, gravel,	(22 / 2/
and	calcareous concretions.***	023-020
	Concerned hertenitic alon (a few fragments chewing a polo	

Creamy colored bentonitic clay (a few fragments showing a pale green color) containing calcareous concretionary fragments, some stained with manganese; some yellow and pink quartz grains.*** - - 626-651

(Circular	No.	5)	
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(01120101 110, 5)	-2-	
Slightly cream-colored	and pale green, bentonitic clay.***	Depth in feet 651-677
Cream-colored bentonit	tic clay.***	677-722
Pale green, calcareous	bentonite and bentonitic clay.***	722-922
- ,	eam-colored cuttings of sand and clay, reous.***	922-1002
clay and sand, containing so	eam-colored bentonitic and calcareous me gravel, fragments of calcareous con e, and particles of pyrite.***	
Pale green, calcareous	bentonitic clay.***	1069-1134
Pale green, bentonitic c	lay, slightly calcareous.***	1134-1164
Pale green and cream-c	colored bentonitic clay, slightly calcare	ous* 1164-1196
	own clay and sand, bentonitic and	1196-1230
	ay cuttings of bentonitic clay; slightly	1230-1239
-	colored cuttings of slightly bentonitic	
	colored cuttings of bentonitic clay,	- 1359-1387
sample from 1359-1387 feet	and and slightly calcareous, similar to , except that this present sample contain us material and is of a darker green co	ns
Green, bentonitic clay,	slightly calcareous.***	1435-1545
Green, bentonitic clay,	somewhat calcareous.***	1545-1575
	lay and much light gray sandy and calca aceous matter.***	
Similar to sample from	1575-1736 feet	1736-1800
containing some volcanic asl mostly of slightly rounded to much smaller amount of yell quite rapidly in water. A me grains 2 mm in diameter, a 12%; 1/4 mm, 33%; 1/8 mm	soft sandstone, slightly calcareous, and h (?). The washed material consists o angular grains of clear quartz, with a low, pink, and gray grains. It slakes echanical analysis is approximately: trace; 1 mm in diameter, 5%; 1/2 mm , 50%. The coarsest material consists tions. The sample was labeled "volcar	

mostly of calcareous concretions. The sample was labeled "volcanic

(Circular No. 5)	-3-	
ach" This motorial is an evicing	i minture of quests cond and	Depth in fee
ash". This material is an origina volcanic dust		1756
	n one-fourth to three-fourths of	1788
	taining a small amount of bentonitic	1800-1811
which occurs some fine gravel, an	gray, slightly bentonitic clay, in id also some double pyramidal crystal and".***	
Pale green and brownish slig	htly calcareous sandy bentonitic clay*	*1830-1893
slightly bentonitic and calcareous; ments; fragments of fine non-calc of chert; and some quartz sand. A like separated silicified fibers of ical analysis is approximately: fi meters in diameter, 31%; one mil 14%; 1/4 mm, 17%; 1/8 mm, 4% Pebble of banded chalcedonic diameter, and a fragment of white	areous sandstone; a few fragments A little fibrous material looking wood noted (?), See slide. Mechan- ne gravel, a trace; sand 2 milli- limeter, 34%; 1/2 millimeter, (Bott flint, about 1 inch in	om of hole)
	entonitic clay (?). The sample was epth given	- not given

From 120 to 722 feet the cuttings are mostly of a light cream color, and from 722 feet to 1387 feet they are pale green. Then from 1387 to 1575 feet they change to a darker green and from 1575 to 1893 feet change back to a pale green. Also from 922 to 1069 feet the cuttings are very sandy, averaging about 55% clay and 45% sand. These are the only breaks noted. Nothing was found in any of the samples to indicate the age of the formation drilled through.

Kenedy Well

Located at Kenedy. Drilled in 1920. The artesian flow furnished the Kenedy Hot Mineral Well Hotel with water for bathing purposes. There is a small amount of gas which is allowed to escape.

Driller's Log

	Depth in	L	Depth in
	feet to		feet to
Clay soil	20	Yellow sand	285
Yellow soil	70	Brown gumbl	335
Sand and shell rock	140	Gray sand	395
Brown gumbo	270	Brown gumbo	467

(Cir	cular	No.	5)
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(Circular No. 5)	-	4-	
	Depth		Depth
Yellow sand	562	Soft rock	1986
Soft red sand rock	622	Gumbo	1991
Yellow sand and shell (rock-salt	W) 7 02	Hard sand shale and sand rock	2027
Gumbo	742	Shale	2047
Blue shale	781	Hard sand shale	2107
Gumbo	793	Rock	2110
Blue shale	823	Hard shale	2130
Gumbo	863	Hard sandy shale with streaks of	C2211
Rock 8-1/4 casing set 866'	866	Hard sandy shale	2266
Sand (salt water)	938	Gumbo	2272
Rock	939	Hard shale	2277
Blue shale and shell rock	1013	Gumbo	2312
Gumbo	1069	Hard sandy shale (oil)	2373
Blue shale and shell rock	1189	Rock	2375
Gumbo and shell rock	1248	Sand-water (gas and salt water)	2390
Rock	1250	Gumbo	2515
Gumbo and shell rock	1287	Blue shale	2570
Gumbo	1354	Rock	2573
Shale and shell rock	1411	Blue shale	2595
Rock	1415	Gumbo	2600
Shale and gumbo	1467	Blue shale	2700
Soft rock	1473	Shale (6" casing set at 2700')	2705
Shale	1493	Rock	2710
Gumbo	1510	Shale and rock shells	2742
Shale	1570	Blue shale	2757
Gumbo	1580	Blue sand (gas and hot water art	2797
Rock	1586	flow)	
Gumbo	1648	Hard shale	2820
Hard blue shale	1688	Very hard blue shale	2830
Gumbo	1775	Hard shale	2865
Shale and gumbo	1825	Gumbo	2870
Hard blue sand	1875	Slate	2880
Soft rock	1880	Sandy slate	2900
Sand, hard, shale and sand rock	1981	Gumbo	3000

Manhattan Well

Located at Karnes City.

Description of samples by J. A. Udden and E. B. Stiles.	Depth in feet
Black soil containing chert, very clear quartz, and white soft calcareous nodules	genetiki di Tarata na nanaka na poji di taran Akhi Ak
Cream-colored siliceous silt containing volcanic dust and some calcareous nodules of same color	1-115
White marly and siliceous sandy silt.***	115-129
Sand consisting of grains of very clear quartz, of flint of various colors, and of black hematite grains	129-186

Depth in feet

	Depth in fe
A cream-colored siliceous silt, containing volcanic dust and some fragments of calcareous material, probably concretionary	- 186-196
Cream-colored sandy silt containing some volcanic dust and fragments of calcareous nodules	- 196-221
White sandy siliceous silt, containing volcanic dust.***	221-234
Light bluish marly clay of very fine texture, containing some small small crystals of pyrite.***	230-231
Yellowish-white calcareous silt, containing much volcanic dust and sand	- 241-248
Bluish-gray clay and silt.***	250-313
Gray silty marl containing fragments of shells.***	315-325
Bluish-gray marly clay, containing numerous fragments of small shells, one of which resembled a Cardium, and another Corbula aldrichi	* 325-335
Gray marly clay containing a very small Cardium-like shell and a <u>Truncatulina like ungeriana</u> . ***	335-349
Dark gray marly clay.***	349-359
Light greenish-gray marl, some lignitic dark material giving bituminous and ammoniacal fumes on heating in a closed tube, some gray fine-grained limestone, and some sand.***	3 59- 369
Bluish-gray calcareous clay, containing some fragments of shells and some pyrite,	369-379
Gray marly clay, with some lignitic material.***	379-389
Gray calcareous silt, part not calcareous.***	389-399
Bluish-gray clay marl and white limestone,****	410-419
Gray calcareous silty clay, with fragments of limestone and some of shells	419-429
Gray calcareous silt, and silty soft sandstone	429-439
Gray sandy and calcareous clay, giving faint sulfurous and ammoniacal fumes in closed tube,	439-449
Brown lignitic material, yielding fumes of oil, sulfur and ammonia, in closed tube; and containing some fine sand	449-459
Brown lignitic material, containing some fine sand, some pyrite showing woody fibres, and pollen-grains of several kinds	459-469

Depth in feet

Depth in feet
Brown lignitic material, containing some fine sand, some pyrite showing woody fibres, and pollen-grains of several kinds 469-479
Gray silty and marly clay with some sandstone of fine texture 479-484
Gray marly shale, and some fine sandstone.*** 484-496
Gray limestone of fine texture.*** 496-499
Gray and white limestone 499-502
White clay containing spicules of sponges, and a white limestone, calcareous and crystalline, in which are imbedded spicules of sponges 502-504
Gray marl and sandstone of fine texture with some limestone.*** 504-514
Gray marl and some sandstone, limestone, pyrite, calcite, and shell fragments 514-527
Light gray limestone, calcareous, containing cubic crystals of iron pyrite about 0.01 to 0.04 mm in diameter and consisting of crystals of or particles of carbonate of lime somewhere near 0.04 mm in diameter 527-530
Gray marly clay, containing some sandstone of fine texture and some pyrite crystals of very bright lustre 530-531
In part gray clay, in part gray limestone, consisting of granules about 0.005 mm in diameter 531-532
Gray clay, very slightly calcareous, and some fine-grained sandstone. *** 532-542
Gray sandy clay, with some sandstone of fine texture, and some limestone.*** 542-552
Gray calcareous clay, and fragments of fine sandstone.*** 552-560
Gray marly clay of fine texture.*** 552-562
Somewhat dark gray clay, very slightly calcareous.*** 572-582
Dark gray calcareous clay.*** 582-592
Gray clay, slightly calcareous.*** 592-601
Gray limestone, white limestone and some sandy and silty limestone 601-604
Gray clay, slightly calcareous, and containing some fine sand.***604-614
Gray clay of fine texture, containing some sand.*** 614-624

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(Circular No. 5) -7-	Danth in fact
Dark gray clay, containing sand of fine texture.***	Depth in feet 624-632
Gray silty and marly clay.***	632-641
Gray sandy silt containing some calcareous material.***	651-660
Some white limestone, which consists of uniform crystals about 0.02 mm in diameter.***	660-664
Gray marly silty clay,***	- 664-674
Gray clay, calcareous, some pyrite present.***	674-685
Gray sandy and silty clay, calcareous.***	685-697
Gray somewhat calcareous clay.***	697-704
Gray, silty calcareous clay and lignitic material.***	704-714
Gray, sandy calcareous silty clay and lignite.***	714-724
Gray, silty clay.***	724-734
Gray, silty clay and some lignite.***	734-744
Gray silty and calcareous clay.***	744-754
Dark gray calcareous clay, containing some silt.***	754-765
Gray sandy silt and some fragments of lignite.***	765-775
Gray sandy and marly silt.***	775-785
Gray sandy silt with some calcareous fragments and some fragments of lignite	785-795
Gray silty clay, and some gray sandstone of fine texture.***	795-808
Three samples mixed into one. Most of the sample is a soft gray sandstone of fine texture, containing fragments of lignitic material. Some pieces consist of a fine white clastic material, which	h
resembles bentonite. One large fragment of yellow flint, one large	808-813
fragment of a flint-like moss agate, and some yellow calcareous	816-819
and probably concretionary material was noted,	880-889
Gray sandy silt. (2 samples). *** 813-83	16,819-829
Gray sandy silt, bentonite, pyrite and biotite noted	829-839
Gray silty clay, containing some fine sand.***	- 839-849
Gray silty and sandy clay.***	- 849-859

(Circular No. 5) -8-	
Dark gray silty clay (2 samples) 859-86	Depth in feet 9,869-880
Gray sandy silt	- 901-911
Gray silt.***	911-921
Gray silty and sandy clay. Bentonite present	921-931
Gray silty clay	931-941
Gray sandy silt containing fragments of mollusks, spherical concretions of pyrite from 1/2 to 1 mm in diameter and also cubic crystals of pyrite.	941-951
Gray silty sand of fine texture.***	951-961
Gray clayey silt and sand.***	961-971
Gray sandy silt, with many fragments of an exceedingly fine clastic material resembling bentonite	9 7 1-981
Gray silt	981-991
Gray sandy silt, with a faint tinge of green.***	1603-1613
Gray sandy silt.***	1593-1603
Gray sand.***	991-1001
Gray silty sand, slightly indurated, so that about half of the sample is in fragments of the soft rock	1001-1011
Gray slightly indurated sandy silt	1013-1023
Gray silty clay, containing some fragments of sandy rock and some fragments of a white very fine-grained clastic rock like bentoni	te 1023-1033
Gray silty clay.***	1033-1043
Gray silty and sandy clay, like the preceding	1043-1053
Gray sandy silt. (2 samples) 1053-10	063,1063-1073
Gray silty sand	1073-1083
Fine silty sand. Driller's note: "Sand rock"	1083-1093
Silty gray sand and some silt.***	1093-1103
Gray silty sand of fine texture	1103-1113
Gray silty sand	1113-1123

Depth in feet

	Depth in feet
Gray silty clay with concretionary white material which	
is not calcareous (3 samples) 1123-11	33,1133-1143,
	1143-1153
Gray clay, silt and sand	1153-1163
Gray clay and silt	1163-1173
	1103-1110
Gray sandy silt. Shell fragments noted	1173-1183
Some sandy silt or fine sand, and some fine silt or clay.***	1183-1193
Gray sandy clay, containing glauconite grains, fragments of pelecypod shells, a small Ostrea and a small Turritella, fragments of lignite, and occasional grains of pyrite. (Bottom of rig was pulled out at 1202 fact.)	1202 1212
out at 1203 feet.)	1203-1213
Gray clay containing some silt.***	1213-1223
Dark gray silty and sandy clay with many small pelecypod shells	1223-1233
Dark gray silty and sandy clay, containing many fragments of	
shells mostly pelecypods	1233-1243
Dark gray silty clay.***	1243-1253
Dark gray silty clay, containing fragments of shells.***	1253-1263
Gray silty and sandy clay.*** (2 samples) 1263-12	73,1273-1283
Gray sandy and silty clay.***	1283-1293
Gray sandy silt, as in preceding samples	1293-1303
Greenish gray sandy and silty clay. Fragments of shells, a Leda pyrite, black chert grains, and mica noted. Glauconite present. 1303-	1313,1323 - 1333
Gray sandy and silty clay, with green and black grains of quarts and chert. *** (2 samples) 1333-13	43,1343-1353
Gray sandy and silty clay.*** (2 samples) 1353-13	63,1363-1373
Light gray sandy material with some silty clay, like the preceding	g 1373-1383
Like the preceding, with fragments of mollusk shells	1383-1393
Dark gray clay and sandy silt.***	1393-1403
Gray silt and sandy clay.***	1403-1413
Gray silt and clay.***	1413-1423
Nostly gray sand of fine texture, $*** $	1423-1433

(Circular No. 5) -10-	
Greenish gray clay and sand.***	Depth in feet 1433-1443
Gray clay and silty sand.***	1443-1453
Dark gray clay, and silty sand.***	1453-1463
Gray clay and silty sand.*** (3 samples) 1463-1	473,1473-1483, 1483-1493
Gray sand of fine texture.***	1493-1503
Gray silty sand, containing fragments of mollusk shells	1503-1513
Gray sandy silt and some silty clay.***	1513-1523
Dark gray sandy and silty clay.***	1523-1543
Gray sandy silt and clay	1543-1553
Gray sand and silt.***	1553 - 1563
Gray silty sand, containing some pyrite, glauconite, and grains of black chert	1563-1573
Sand, silt and clay.***	1573-1583
Gray sandy silt and clay.***	- 1613-1633
Gray sandy and silty clay containing pyrite, some white con- cretionary material, glauconite, grains of black chert, fragments of shells and scales of mica. (2 samples) 1633-16	643,1643-1653
Gray sandy silt and clay containing Venericardia	16 53 - 1663
Gray sandy silt and clay.*** (2 samples) 1663-1	673,1673-1683
Gray sandy silt and clay containing fragments of Venericardia, white concretionary material, glauconite, pyrite, mica, and grains of black chert	1683-1693
Gray sandy silt, like the preceding, and containing fibrous calcite	e 1693 - 1703
Gray sandy silt and clay, containing white concretionary material, fragments of shells (Natica noted), glauconite, pyrite, grains of black chert, and mica scales	1703-1713
Gray sandy silt and clay.***	1713-1723
Gray silty sand and sandy silt.***	- 1723-1733
Gray sandy silt and silty sand.*** (2 samples) 1733-1	743,1743-1753

(Circular No. 5) -11-	
Depth in feet Gray silty sand and sandy silt.*** (2 samples) 1753-1763,1763-177	
Sandy gray silt and silty clay, containing concretions of soft white aluminous material.***	
Greenish-gray sandy silt. *** (2 samples) 1903-1913,1913-192	3
Greenish-gray silty sand, lacking a clayey ingredient.*** 1923-1933	
Greenish-gray sandy silt.*** 1933-1943	
Dark gray sandy silt, containing a piece of lignitic wood showing strong and straight medullary rays.*** 1943-1953	
Gray sandy silt.***	
Dark greenish-gray sandy and clayey silt containing some lumps of a white kaolin-like soft material.*** 1973-1983	
Greenish-gray sandy silt.*** (2 samples) 1983-1993,1993-200	1
W. E. Porter 1, Atlasta Oil Company	

Located on Blanco survey, 6 miles south of Runge.

Description of samples by H. T. Kniker; submitted by Thomas S. McClure, San Antonio, 1920.

	Depth in feet
Gray marl containing much sand and small pebbles and many white calcareous fragments probably from caliche	0-15
Pink well-rounded polished sand, some grains being of various colors; a few fragments of calcareous concretions; and a few fragments of lignite.***	15-250
Red marl containing well-rounded sand and a few fragments of white calcareous concretions.*** (2 samples) 250-260), 260-270
Red marl containing well-rounded sand grains, and some white concretionary calcareous material.***	270-280
Red marl containing some well-rounded sand grains, some calcareous concretionary fragments, and a few fragments of lignite***	* 280-290
Grayish-red marl containing fine rounded sand, a few calcareous concretionary fragments, and a few fragments of lignite.*** (2 sample	es) 290-300, 300-310
Gray and grayish-red marl containing rounded sand grains and a few fragments of lignite.***	320-330

Reddish-gray marl containing rounded sand, some fragments of

(Circular No. 5) -12-	
D concretionary material, and a few lignite and glauconite.*** (2 samples)	epth in feet 330-340,
Reddish-gray marl containing well-rounded yellow sand and	340-350
	350-360
Red and gray marl containing well-rounded pinkish sand, and	
fragments of concretionary, calcareous material.***	360-370
Gray and red marl containing polished yellow sand, calcareous material, and a few fragments of lignite.*** (2 samples) 370-380,3	80-390
Gray and red marl containing polished sand, some of which is composed of chert of various colors, and fragments of	
concretionary calcareous material.***	390-400
Gray and red marl.*** (2 samples) 400-415,4	15-420
Red and gray marl containing polished rounded sand and some fragments of concretionary calcareous material, and calcareous	
sandstone.***	420-430
Reddish sandy marl, some of the sand grains being composed of chert.*** (2 samples) 430-440,4	40-450
Grayish-red marl containing coarse polished sand, and a few fragments of sandy limestone.***	450-460
Reddish marl with much sand and a few fragments of sandy limestone.*** (2 samples) 460-480,4	80-490
Reddish-gray marl.***	490-500
Yellow marl containing rounded polished sand and a few frag- ments of concretionary calcareous materia and lignite.*** !	500
Reddish marl.***	500-510
Reddish marl containing rounded polished sand, fragments of calcareous sandstone containing minute grains of glauconite, and fragments of concretionary calcareous material containing sand***	510-525
Reddish marl containing rounded polished sand, many small fragments of calcareous concretions, and a few fragments of calcareous sandstone and lignite.*** (2 samples) 525-535,5	535-550
Like sample from 525-535 feet, but more coarse sand is present and only a few Globigerinas were seen	550-580
Reddish marl,*** (2 samples) 580-610,6	10-630
Light reddish marl containing polished sand and white concretionary calcareous fragments.***	630-650

(Circular No. 5) -13-	
Reddish marl with rice sand and some white calcareous	Depth in feet
concretions.*** (2 samples)	5,675-695
Mostly clear sand and some yellow marl.***	695-705
Light faintly reddish-gray marl containing rice sand and fragments of calcareous concretions.***	705-715
Reddish marl with much sand and some white calcareous concretions.***	715-735
Light gray calcareous material and small fragments of limestone concretions.***	835-855
Light gray volcanic ash and calcareous material.***	855-875
Light gray hydrated volcanic ash with calcareous material, sand, and a few fragments of lignite and some white botryoidal quartz	* 875-895
Reddish-gray hydrated volcanic ash and calcareous material.***	895-905
Light greenish-gray marl containing sand and a few grains of glauconite.***	900
Reddish marl with some hydrated volcanic ash.*** (2 samples) 90)5-925,925 -9 40
Pinkish-gray marl with sand and some hydrated volcanic ash.***	940-960
Reddish marl with some hydrated volcanic ash.***	960-980
Gray sand and marl.***	990-1000
Reddish-gray sandy marl.*** (2 samples) 1000-10	020,1020-1040
Reddish sand and marl.*** (2 samples) $$	060,1060-1070
Reddish and greenish-gray sandy marl containing small frag- ments of calcareous concretions and a few fragments of lignite.*** (2 samples) 1070-10	080,1080-1090
Grayish and reddish marl containing fragments of cal- careous concretions and some fine sand.*** (2 samples) 1090-11	100,1100-1110
Grayish-reddish marl containing fragments of white cal- careous concretions, and sand.*** (2 samples) 1110-11	20,1120-1130
Grayish and reddish marl containing sand and fragments of calcareous concretions.***	1130-1140
Finkish marl with coarse sand and fragments of light gray calcar concretions. *** (2 samples) 1130-11	

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De pth in	feet
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	De pui in reet
Reddish marl containing a small amount of fine sand and a few fragments of white calcareous concretions and lignite.***	1160-1185
Reddish sand and some soft sandstone fragments cemented by a calcareous matrix.***	1185-1200
Coarse varicolored gray sand, with some reddish marly materia	1 1200-1225
Light gray marl and coarse varicolored sand.***	1225-1245
Greenish-gray marl containing some rather fine sand and some fragments of calcareous concretions. *** (2 samples) 1245-12	265,1265-1285
Greenish-gray and pink sandy marl with streaks of white	

calcareous material. - - - - - - - - - - - - 1285-1305

Note: In the samples above (0-1305 feet) the foraminifera are badly worn and many of them have a Cretaceous aspect. Probably most, if not all, of these fossils are of secondary origin. Many grains of "rice sand" seem to be composed of chalcedony.

W. E. Porter 2, Atlasta Oil Company

Located 6 miles south of Runge, on W. E. Porter's land,

Driller's Log

	Depth in feet to		Depth in feet to
Soft sandy and clay	15	Gray sand	672
Soft quick sand	20	Black sand	700
Ground rock	21	Blue gumbo	730
Soft yellow clay	40	Pink sand	755
Soft brown rock	45	Tough white gumbo	820
Gray sand rock	60	Lime rock	825
Soft blue gumbo	90	Gas and oil lime rock	828
Loose water sand	207	Tough white gumbo	900
Tough white gumbo	260	Brown gumbo	910
Brown rock	261	White shale	930
Gray quicksand	282	Brown gumbo	960
Tough gumbo	340	Hard black sand	1000
Black shale	345	Hard and soft white sand rock	1021
Blue gumbo	353	Tough blue gumbo	1042
Rock	400	Hard gray sand	1060
Gray gumbo	430	Brown gumbo	1070
Shale and boulders	456	Hard shale	1098
Gray sand	565	Blue gumbo	1103
Blue gumbo	590	Lime rock	1113
Gray sand	620	Shale and boulders	1175
Blue gumbo	632	Blue gumbo	1225
Gray sand	654	Shale and boulders	1255
Blue gumbo	668	Brown gumbo	1260

	Depth ir	1	Depth in
	feet to		feet to
Blue sandy shale	1268	Hard sandy shale	2420
Let 10" casing by mistake	1278	Hard sandy shale	2426
Water sand	1292	Hard rock	2430
Oil and gas brown sand	1301	Chalk rock	2445
Fine gray sand	1320	Gumbo	2449
Blue gumbo	1340	Hard lime	2457
Blue sandy shale	1350	Hard shale	2472
Blue sandy shale	1365	Hard rock	2476
Black sandy shale	1385	Gumbo	2486
Blue sand	1395	Hard shale	2496
Soft shale	1420	Hard rock	2505
Blue gumbo	1424	White gumbo	2540
Hard blue shale	1451	Green shale	2590
White gumbo	1500	Rock	2593
Gumbo	1565	Hard sand	2603
Black shale	1570	Hard blue sandy shale	2620
Lime rock	1585		2685
Oil and gas, hard brown shale	1685	Sand and gumbo	2705
Gumbo	1692	Lime rock	2725
Oil and gas sandy shale	1802	Sandy shale	2760
8" casing set 1802-1810, gumbo	1836	Gumbo	2764
Oil and gas sand	1839	Hard sand	2778
Shale	1940	Gumbo	2784
Hard sand	1970	Sandy shale	2838
Hard brown shale	2051	Blue sandy shale	2885
Blue gumbo	2065	Lime rock	28 95
Shale	2070	Gumbo	2930
Gumbo	2085	Hard sandy shale	2980
Lime rock	2087	Soft shale	2995
Gumbo	2100	White gumbo	3010
Shale	2107	39 sacks hard blue sand	3023
Gumbo	2125	Gumbo	3053
Oil and gas, hard and soft sand	2158	Gray cave sand	3081
Hard sandy shale	2178	Gumbo	3090
Hard gray sand	2190	Cave sand	3100
Lime rock	2195	Gumbo	3119
Hard sandy shale	2225	Rock	3123
Tough gumbo	2230	Gumbo	3134
Hard rock	2240	Sandy shale	3150
Stem dropped 6" cavity	2246	Iron ore pure	3154
Hard sand	2300	Gray sand	3160
Gumbo	2310	Rock	3165
Sandy shale	2330	Gumbo	3190
Green sandy shale	2340	Sandy shale	3197
Gumbo	2350	Gumbo	3245
Hard sandy shale	2360		
Gumbo	2370		
Hard sand	2386		
Gumbo	2390		

Description of samples by H. T. Kniker and S. M. Aronson; subm W. E. Porter, 1921.	nitted by
	Depth in feet
Very light greenish-gray calcareous clay and some white clay, both slaking in water.*** (2 samples)	1396, 1406
Like sample from 1396 feet. Several clusters of pyrite grains showed quartz crystals growing on the outside. Some quartz crystals are clearly etched and also polished	1416
Very light greenish-gray calcareous clay and white calcareous clay, both slaking in water.***	1426
Very faintly greenish and pinkish-gray calcareous clay, both slaking in water.*** (3 samples)	1436,1446,1456
Like sample from 1456 feet. A few grains of green chert were noted	1466
Like sample from 1456 feet. (2 samples)	1476, 1486
White and some very light and faintly greenish-gray calcareous clay, both slaking in water.*** (2 samples)	1496, 1506
White calcareous clay and light greenish-gray calcareous clay which slakes in water,***	- 1516
White and very light greenish-gray calcareous clay, both slaking in water.*** (4 samples) 1526	,1536,1546,1566
White and very light greenish-gray calcareous clay, both slaking in water.*** (5 samples)	
White calcareous clay which slakes in water.***	1626
Like sample from 1626 feet. A lump of granular pyrite was noted	1636
Like sample from 1626 feet. (2 samples)	1646,1656
Like sample from 1626 feet. A few flakes of biotite crystals were noted, evidently secondary.***	1666
Like sample from 1626 feet. One Chara fruit case was seen	1676
	686, 1696, 1 7 06, 726, 1736, 1746

Very light gray calcareous clay which slakes in water.*** (3 samples) 1756, 1760, 1763

(Circular No. 5) -17-
Depth in feet White to very light gray calcareous clay slaking in water.**(2 samples)
1776, 1780 Very light gray calcareous clay which slakes in water.*** (4 samples) 1803, 1815, 1835, 1845
A $2\frac{1}{2}$ inch fragment of light gray noncalcareous clay which slakes in water.*** 2200
A few small fragments of gray, calcareous clay, which, when washed, left a residue of a few grains of fine quartz sand and a few grains of gray chert 2330
Light gray calcareous clay which slakes in water, *** (6 samples) 2335, 2346, 2350, 2360, 2370, 2380
Very light greenish-gray calcareous clay that slakes in water.*** (7 samples) 2390, 2395, 2400, 2405, 2415, 2426, 2436
Light greenish-gray and reddish slightly calcareous clay which slakes in water. (2 samples) 2450, 2465
Light greenish-gray calcareous clay which slakes in water.*** 2470, 2480
Light greenish-gray calcareous clay and some reddish calcareous clay, both slaking in water. *** (2 samples) 2490, 2495
Fragments of calcareous concretions and a few of light gray and reddish clay.*** 2505
Light greenish-gray calcareous clay and a few fragments of reddish calcareous clay, both slaking in water.**** (4 samples) 2545, 2560-2570, 2580, 2585
Very light gray calcareous clay which slakes in water.*** (3 samples) 2600, 2610, 2615
Very light greenish-gray calcareous clay, which slakes in water, and a few fragments of reddish clay.*** (3 samples) 2615-2640, 2621, 2640
Very light greenish-gray slightly calcareous clay with fragments of limestone concretions.*** 2650
Light grayish-brown limestone heavily stained with iron rust.*** 2670-2680
Gray non-calcareous non-slaking clay.*** 2680
Light greenish-gray calcareous clay which slakes in water.*** 2685-2700
Like sample from 2685-2700 feet, but large grains are rounded and polished 2764-2770

Depth in feet

	Debru III Iee
Light gray greenish calcareous clay, slaking slightly in water.***	2770
Light gray greenish clay which is calcareous but does not slake in water.***	2780
Like the preceding sample from 2780 feet but only slightly calcareous	2803
Light gray greenish clay and limestone mixture with the clay***	2824
Light gray greenish clayey limestone, and reddish clay which is non-calcareous. ***	2939
Light gray greenish calcareous slaking clay.***	2949
The sample is like the preceding one (2949) but has no slaking quality	2960-(?)
Like the preceding sample at 2960-(?) feet. Clay is only slightly calcareous.	2990
A light gray greenish clay, which is non-calcareous and contains much volcanic dust.	3013
Light gray greenish and some reddish clay, both non-calcareous and non-slaking.*** (3 samples) 3030, 30	42,3067-?
Light greenish-gray non-calcareous clay, some gray non-calcareous clay, and a few fragments of reddish calcareous clay,***	ous 3120
Greenish-gray clay which slakes in water,***	3125
Light greenish-gray and some gray non-calcareous clay.***	- 3134
Like sample from 3134 feet. A fragment of chalcedonic quartz was noted. Fossils: fragments of pelecypod shells and a pitted ostracod.	3144
Gray non-calcareous shale.***	3146
Fragment of very light gray, almost white, non-calcareous sandy clay containing some pyrite, and one 2-inch and one 3/4-inch fragment of sandstone which has evidently been baked by the drill.**	3150
Very light gray almost white sandy marl containing some pyrite.*	* 3150
Very light greenish-gray slightly calcareous clay which when was left a residue of fragments of calcareous concretions, some fine sand, and a few fragments of chalcedonic quartz.***	hed 3154

Light greenish-gray and some gray clay which when washed left

Depth in feet

a residue of fragments pf calcareous concretions, some pyrite, and sand and a few fragments of oyster and other pelecypod shells and	******
several pitted ostracods. (2 samples)	3216,3236
Gray non-calcareous clay which, when washed, left a residue of a few grains of very fine sand and the following fossiis: several specimens of a minute Anomalina, several small splinters of white	
bone, an otolith, and a fragment of a fish scale	3309
Gray non-calcareous clay which, when washed, left a residue of some fragments of sandstone, pyrite, some fine sand, and a few	
fragments of chalcedonic quartz and one of lignite.***	3340
Like sample from 3340. A 6 mm long fish tooth was noted	3335-3345
Rather dark gray very slightly calcareous clay, which, when wash	
left a residue of a few grains of fine sand and of pyrite and a few frag- ments of pelecypod shells. (2 samples)	
Rather dark gray calcareous and finely sandy clay.***	3410
Light greenish-gray slightly calcareous clay and some gray non-calcareous clay.***	3576

Max Schorre 1, Runge Oil and Gas Company

Rotary rig located on Victor Blanco grant, La Buzan subdivision, 3 miles south of Runge.

Driller's log, given from memory. 1915

	Depth in feet		
	From	То	Thickness
Yellow silty clay, with layers of sandy material			
at, say, 15 feet apart ---------------	0	300	300
(Some lignitic material at about 200 feet)			
Sand rock, fine in texture	300	308	8
Yellow clay with layers of sand with a showing			
of oil (scum at 600 feet)	308	395	87
Green gumbo	395	900	5
Limestone	900	906	6
Sand, with a little oil	906	933	27
Yellow clay	933	973	40
Soft sand rock, with hard streaks	973	1073	100
Yellow clay, mixed with white, brown, green	1073	1110	37
Sandstone, fairly hard (oil-bearing; a bucket of			
oil said to have been collected during night)	1110	1150	40

Description of samples by E. B. Stiles; submitted by L. L. Nuson, Runge, 1921.

	Depth in feet
White soft but very compact and fine-grained limestone con- taining white quartz in crevices and occurring with much bluish- white chalcedony, like that in "rice sand". One fragment in the sample was about one-half inch in diameter. This when polished shows a brecciated condition with many irregular thread-like veins and pockets of chalcedony. Many fragments of the chalcedony are as large as a good-sized English pea. The limestone is apparently somewhat porous. No fossils were seen.	900-906
Polished subangular, clear quartz sand with grains of black,	
brown, and dull pink chert and quartz. No fossils were seen	1100
Gray quartz sand polished and somewhat rounded. Considerable pink, brown, and black quartz and flint and some green quartz (?) present. No fossils were seen.	1150