

UNIVERSITY OF TEXAS

BUREAU OF ECONOMIC GEOLOGY AUSTIN, TEXAS

Mimeograph Circular No. 13
April 1929

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. W. Sellards

WELL RECORDS OF SUTTON COUNTY

The Ross Well in Sutton County

Located on Section 6, Block 14, T.W.M.G. Ry. Co., about 10 miles from S. and 16 miles from E. county line. Diamond drill core.

Description of samples by E. W. Sellards and O. M. Richey; submitted by T. C. Hedley, 1928. All samples are cores.

	Depth in Feet
Very light gray slightly porous limestone. Thin section shows a fine grained limestone	170
Like sample from 170 feet	196
Light brownish gray slightly porous limestone. Organic remains present in thin section.	216
Light gray limestone. Thin section shows a fine grained limestone containing echinoid tissue and small fossil fragments.	236
Medium gray limestone.	256
Dark gray limestone.	264
Core of light brownish gray, porous limestone. Organic remains imbedded in crystalline calcite present in thin section.	276
Like sample from 276 feet. A few milioline forms in thin section.	293
Gray porous limestone.	306
Light brownish gray porous limestone in which a few calcite crystals were seen.	316

Medium brownish gray slightly porous limestone. The rock is fine grained in thin section.	336
Dark brown porous limestone.	333
Medium brown porous limestone.	347
Light gray fairly porous limestone. Spherical bodies of granular limestone in a matrix of finely crystalline calcite and a few Milioline forms present in thin section.	353
Medium gray impure limestone.	355
Medium gray limestone. Numerous Milioline forms present in thin section.	376
Light gray limestone with intercalated thin, irregular and branching seams of dark gray limestone.	380
White limestone.	346
Medium light gray porous limestone containing a single band of dark gray limestone varying from 1/4 to 1/3 inch in width. Thin section not distinctive. Traces of organic remains present in thin section.	386
Medium light gray limestone.	401
Brownish gray porous limestone. The rock is fine grained in thin section.	410
Light gray compact limestone.	412
Like core from 412.	413
Like sample from 412 foot. In thin section the rock is organic fragmental, the foraminiferal remains replaced largely by crystalline calcite. Echinoid spines and Milioline forms identifiable.	425
Like sample from 412 foot. A few Milioline forms present in thin section.	436
Medium gray limestone. In thin sections small well defined rhombohedral crystals. A few sand grains were seen in thin section.	443
Brownish gray limestone. The rock is medium crystalline in thin section. A few quartz grains and a single coiled organism present.	446
Medium gray sandy limestone and a fragment of a gastropod.	450
Medium gray sandy limestone. One sand contains the cast of a shell.	454

Gray sandy limestone containing a shell fragment. A thin section shows the limestone to be fine grained; the sand grains are rather large and angular to subangular in outline. Echinoid tissue and spines and a few Milioline forms present.	457
Medium gray dark limestone containing shell fragments.	460
Medium dark gray conglomeratic limestone.	464
Medium gray impure limestone.	476
Medium gray, fairly compact limestone. Nothing of importance in thin section.	481
Medium gray impure limestone.	496
Medium gray impure limestone.	505
Like sample from 505 feet. A few shell fragments.	522
Like sample from 505 feet.	531
Like sample from 505 feet. Thin section shows the limestone to be sandy. The grains are small and angular.	536
Like sample from 505 feet.	556
Medium gray conglomeratic impure limestone.	576
Medium gray impure limestone.	581
Medium gray fairly compact limestone.	596
Medium gray limestone.	608
Like sample from 608 feet.	616
Medium brownish gray limestone. A thin section shows the limestone to be sandy. The grains are very small and angular.	624
Medium dark gray limestone.	657
Medium gray compact limestone.	665
Medium dark gray calcareous shale.	670
Medium gray fine grained limestone.	680
Light gray limestone.	696
Medium dark gray limestone. The rock is sandy in thin section. The grains are small and angular.	716
Dark gray fine grained limestone.	728

	Depth in feet
Medium dark gray conglomeratic limestone.	755
Brownish-gray limestone.	745
Medium gray sandy limestone.	750
Brownish-gray porous limestone. The rock in thin section appears to be quite sandy.	755
Medium gray, compact, fossiliferous limestone. In thin section echinoid tissue, Fusulina, and fragments of other organic material were seen to be embedded in a crystalline matrix.	755
Medium gray and dark gray, compact, fossiliferous limestone. Bryozoa, crinoid stems, and fragments of other organic material present in thin section.	760
Dark gray non-calcareous shale containing a little pyrite.	760-770
Dark gray non-calcareous shale.	770-780
Like sample from 770-780.	780-790
Very dark gray non-calcareous shale. One piece contains a small plant fragment.	790-800
Very dark gray non-calcareous shale and dark gray limestone containing much finely disseminated pyrite. Sponge spicules present in a thin section of the limestone.	800-810
Dark gray non-calcareous shale and dark gray limestone. One piece of shale contains shell fragments.	810-820
Dark gray limestone cut horizontally, almost at right angles, by one calcite seam 1/16" in width and several much narrower ones.	812
Dark gray limestone. Sponge spicules present in thin section.	815
Dark gray calcareous shale containing pyrite.	820-830
Dark gray limestone containing small shell fragments. Sponge spicules present in thin section.	827
Dark gray calcareous shale. Fragments and casts of a young Aviculopecter. Armodiscus present.	830-840
Dark gray limestone containing Fusulina. Sponge spicules and Fusulina present in thin section.	840
Medium dark gray limestone.	845
Dark gray limestone containing a shell fragment. Sponge spicules and Radiolaria present in thin section.	850

Dark gray calcareous shale. One piece contains a small shell.	Depth in Ft. 810-816
Puddled (?) core of medium gray calcareous shale.	816-870
Dark gray calcareous shale and dark gray limestone. Shell fragment present. Sponge spicules, Radiolaria, and an Ammodiscus in thin section of the limestone.	870-880
Dark gray limestone containing the fragment of a bivalve.	881
Fine grained black limestone. One piece is cut at an angle of about 30 degrees by a seam of crystalline calcite, varying in width from 1/16 to 1/8 inch. Joining this seam, but at right angles to it, is a vertical seam about 1/16 inch wide. Sponge spicules and Radiolaria present in thin section.	880-900
Dark gray calcareous shale.	900-910
Like sample from 900-910.	910-920
Like sample from 900-910.	920-930
Like sample from 900-910	930-940
Very dark gray calcareous shale. One piece contains the fragment of a bivalve.	940-950
Dark gray calcareous shale and dark gray limestone. In thin section the limestone is seen to be fine grained. Radiolaria present.	950-960
Very dark gray limestone cut vertically by narrow discontinuous seams of calcite.	960
Dark gray limestone.	962
Dark gray limestone.	964
Dark gray limestone containing distinct traces of organic remains. Two shell fragments present.	965
Very dark gray calcareous shale containing a crinoid stem layer.	966
Dark gray limestone containing traces of organic remains.	970
Very dark gray calcareous shale.	970-980
Very dark gray calcareous shale.	980-990
Dark gray limestone. Sponge spicules, Radiolaria, Ammodiscus present in thin section.	995

Dark gray calcareous shale and dark gray limestone.	Depth in Ft. 990-1000
Dark gray limestone.	1000
Dark gray calcareous shale and dark gray limestone containing Fusulina.	1000-1010
Medium dark gray calcareous shale.	1025
Compact dark gray limestone cut irregularly by narrow, short, discontinuous calcite seams. Shell fragment present. A few sponge spicules present in thin section.	1026
Dark gray limestone and dark calcareous shale. Small plant fragments present in the shale.	1028-1050
Dark gray limestone, fine grained.	1029
Dark gray calcareous shale containing fragments and casts of shells.	1020-1030
Very dark gray calcareous shale.	1030
Pieces of a core of dark gray calcareous shale containing crinoids and dark gray limestone and cut by narrow, irregular seams of calcite. Radiolaria in thin section.	1040-1050
Dark gray calcareous shale and limestone cut at an angle by a narrow calcite seam.	1050-1080
Dark gray calcareous shale containing crinoid stems.	1050-1060
Dark gray limestone cut vertically by a narrow seam of calcite and several other irregular seams. Sponge spicules and Radiolaria (?) present in thin section.	1065
Like sample from 1050-1060	1060-1070
Dark gray limestone cut by very narrow calcite seams.	1066-1067
Dark gray calcareous shale and a piece of gray limestone.	1070-1080
Dark gray calcareous shale in which a shell fragment was noted.	1080-1090
Dark gray calcareous shale containing crinoid stems and Aviculopecten.	1090-1100
Medium dark gray compact limestone which breaks with a conchoidal fracture. Radiolaria (?) in thin section.	1100

	Depth in ft.
Dark Gray calcareous shale. One piece contains a piece fragment.	1100-1101
Dark gray calcareous shale containing crinoid stems and shell fragments.	1121-1122
Dark gray calcareous shale and limestone.	1130-1131
Dark gray calcareous shale and dark gray compact limestone.	1140-1141
Dark gray calcareous shale, very compact. Medium gray limestone cut on one side by a 3/8" seam of calcite which breaks into three tapering, irregular veins on the opposite side.	1150-1151
Fine grained, very dark gray limestone containing small, irregular areas of calcite.	1166-1167
Dark gray calcareous shale.	1180-1181
Medium dark gray compact limestone and dark gray calcareous shale containing crinoid stems.	1190-1191
Dark gray calcareous shale and a couple of pieces of calcite.	1200-1201
Dark gray calcareous shale.	1205-1206
Dark gray limestone and dark gray shale. Calcite capping the ends of one piece of shale core. A shell fragment present in the shale.	1250-1251
Dark gray limestone and calcareous shale which contains crinoids and other organic fragments.	1263-1264
Dark gray fossiliferous limestone. Thin section is organic fragmental. Crinoid stems, Ostracods, Fusulina, Ammodiscus and fragments of other organisms present.	1268-1269
Dark gray calcareous shale.	1273-1274
Dark gray calcareous shale and dark gray crystalline limestone containing considerable crystalline calcite.	1284-1285
Dark gray calcareous shale and dark gray limestone	1291-1292
Dark gray fine grained limestone. No trace of organic remains in thin section.	1313
Very dark gray indurated shale on one end of which is an Aviculonekten shell.	1336

Calcite and very dark gray calcareous shale.	1336-1345
Very dark gray, almost black calcareous shale one of which contains some calcite.	1326-1336
Very dark gray calcareous shale and one of calcite.	1345-1356
Very dark gray calcareous shale, one of which contains crinoid stems.	1356-1365
Very dark gray calcareous shale containing calcite seams of varying width.	1365-1376
Dark gray calcareous shale, calcite, and very dark gray fossiliferous limestone containing some pyrite. In thin section the limestone is seen to be organic fragmental. Gastropod, crinoid stems, and fragments of other shells present.	1376-1387
Dark gray calcareous shale, one of which contains narrow calcite layers and one of which contains a shell fragment.	1387-1398
Very dark gray calcareous shale, one of which contains calcite seams.	1398-1406