

THE 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' 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

RECORD OF LOHN DEEP WELL IN McCULLOCH COUNTY

J. Meers Lohn Field Deep Well

Located 2 miles W. and 1 mile N. of Lohn, near center of Survey 1105.

Drillers' Log

	Depth in feet to:		Depth in feet to:
black soil	10	blue shale	484
yellow clay	30	gray sand (20 gal. per min.	
pink clay	50	salt water)	494
blue shale	77	blue shale, very sticky	503
blue lime	93	dark lime, trace of oil	537
blue and yellow shale	166	blue shale	553
white lime	190	dark lime, scum of oil	587
black shale	202	dark gray sand, dry, pepper	
blue shale	207	and salt	593
brown shale	210	blue sandy shale (fossils	
cap sand	213	most abundant; oil in shale)	
pan sand, oil at top	220	*One screw of shale with some	
salt water sand	231	gas and oil in this.	597
blue shale	245	dark gray dry sand, very	
white porous sand	250	light	632
(water and more than a scum of oil)		brown and blue shale	659
blue shale	281	lime, top white, balance	
white lime	286	dark and oily (*See first	
blue shale	305	note.)	717
white lime	345	blue shale	729
black slate or coal	348	dark blue lime	743
blue and white lime	362	blue and black shale	758
blue shale	364	dark lime	783
light brown sand, hard dry	376	coarse gray sand (little	
dark lime	386	water)	788
blue shale	391	fine black lime (resembles	
blue lime	406	sand, but acid test shows	
Tape line		lime to be very hard)	795
blue shale	411	black shale	837
dark blue lime	417	very dark lime	847
pepper and salt mud	429	black shale	872
white lime	474	dark shelly lime	880

	Depth in feet to:		Depth in feet to:
brown shale, caves	915	blue shale	1058
dark lime	927	lime cap	1068
brown shale	932	sand, salt water with a	
very dark gray sandy lime	944	rainbow of oil	1078

Water rose 150 feet in well over night. Gas in sand brought water up. Still flowing.

Description of cuttings taken at from 593 to 597 feet in the above well:

Gray calcareous shale or shaly limestone. Fusulina noted and other organic fragments. In thin section some limestone fragments showing organic-oolitic structure in which pieces of shells, spines of brachiopods, bryozoa, small gastropods, Trochammina gordialis Jones and Parker, and other tubular tests lie imbedded in a somewhat translucent matrix.

Note: It is not at all definitely established that the sample descriptions below are from the same well as the drillers' log above.

Description of samples from Lohn Field Deep Well;furnished by J. Moers.

	Depth in feet
Light gray and some dark gray limestone, containing much white chert and a little yellow pyrite. Fossils: Fusulina, spines of brachiopods, Glauconomo (?) and an ostracod. Bituminous fumes noted.	1020

Black shale yielding fumes of ammonia in closed tube. Pyrite present. Fossils: Brachiopod shell fragments and spines, a minute Nucula (?), apex of a gastropod, a Fenestella (?), crinoid pinnules, Climacamina (?).	1065
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Black shale and gray organic fragmental limestone, giving fumes of ammonia. Fossils: Rhombopora lepidodendroides, fragments of brachiopod shells abundant, crinoid stems, Bairdia, Polypora (?), sponge spicules, Endothyra ammonoides, Fusulina, Trochammina (indistinct), and large tapering straight and segmented foraminifer (Textularia?).	1080
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Light gray and dark gray organic fragmental limestone. The light gray limestone has minute dark gray specks. Some shaly marl. Sample gives fumes of ammonia and sulphur. A little chert noted. Fossils: crinoid stems, Rhombopora lepidodendroides, Trochammina and a tapering segmented foraminifer.	1081
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Stony dark shale and very dark organic fragmental limestone, giving fumes of sulphur and ammonia. The limestone has dark imbedded particles. Pyrite present. Fossils: Spines of brachiopods. .	1095
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Dark shaly impure limestone with some light gray limestone. The limestone is like that from depth 1095 feet. Fossils: Trochammina, Endothyra bowmani Phillips.	1112
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	Depth in feet
Label says: "Shale." Much black shale and some gray organic fragmental limestone. Pyrite present. Fossils: Shell fragments, an ostracod like Kirbya centronota, a flat Ammodiscus and a Nodosaria of slender form.	1120
Gray shale, soft. No fossils noted.	1124
Black shale containing a little nodular black calcareous material. Fossils very few. Some fragments of foraminifera.	1125
Gray pyritiferous shale containing organic calcareous fragments. Fossils: crinoid stems, shell fragments, Trochammina.	1127
Light gray and bluish-gray shale, calcareous. Fossil fragments almost absent, but some spore-like discs and one sponge spicule were noted among the smallest fragments.	1128
White limestone of very fine homogeneous texture with some dark shaly limestone and bluish and greenish-gray calcareous shale. No fossils noted. In thin section the limestone is seen to be composed of crystals of calcite from 0.02 to 0.03 mm. in diameter, lying in a sparse matrix of finer calcareous material.	1133
Black, somewhat hard shale which does not disintegrate in water and white or grayish limestone which has a uniformly fine texture. No fossils noted.	1138
Gray shaly limestone and calcareous shale. The limestone shows dark specks, caused by imbedded dark fragments. No fossils noted.	1145
Dark gray shale and some dark gray limestone.	1155
Dark gray shale containing dark gray calcareous material. Fossils: Nodosaria (?) (tapering), Trochammina and some unrecognizable organic fragments.	1160