LTP182

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Wilcox Oil and Gas Company, No. 1 Hirmon
C SE NW 30-2S-1W

15-157-00001

Elevation 1586 feet

Rotary Tools

Pennsylvanian basal conglomerate 2630-2710 feet

2630-2685 feet Red and various-colored clay, part sandy.

2685-2710 feet Red, purple, and various-colored waxy clay, part sandy. Some red and white, rough, weathered to tripolitic chert, part hematitic. Hematite oolites and concretions.

Mississippian top 2710 feet (corrected 5 feet for lag) Subsea -1124 feet

2715-2730 feet Brownish-red, finely granular dolomite. Pink, red and various-colored finely granular to crystalline limestone.

2730-2740 feet Very sandy, white and pink limestone. Some dolomite and lime as above.

2740-2770 feet Dolomite, yellowish-brown and buff-brown, finely granular, part stained red. Some bright red jasper or chalcedony, apparently geode fragments.

2770-2790 feet Lime, white, part stained pink and orange, crypto-crystalline to crystalline. Some dolomite and jasper as above, probably cave.

2790-2820 feet Dolomite, cream and light buff, finely granular. Chert, white and light gray, highly cloudy translucent to opaque, flinty chert. Part stained pink and orange. Part fossiliferous with sponge spicules and bryozoans. Some white vitreous quartzose chert. Some jasper as above.

2820-2845 feet Dolomite, as above. Chert, milky white, smooth, flinty to rough and tripolitic. (Sponge spicules) Some limestone ?

The sequence of this interval is difficult to interpret because of the high proportion of cavings and the degree of weathering and staining, but it appears the Mississippian of this test is no younger than St. Louis at the top, nor older than Warsaw at base. The possible top of the Warsaw is at 2740 feet.

Devonian ? Chattanooga top 2845 feet (corrected 5 feet for lag) Subsea -1259 feet

2845-2875 feet Greenish-gray and red shale, with imbedded hematite and limonite oolites.

Samples of this interval are very poor, consisting largely of cavings from Pennsylvanian basal conglomerate. There are, however, a few fragments of shale with imbedded hematite oolites, and many loose oolites. Most of the better fragments which identify the Chattanooga age of this interval are found as cavings in lower samples.

Wilcox Oil and Gas Company, No. 1 Hirmon, Continued

Siluro-Devonian (Hunton) top 2875 feet (probably a few feet higher)
Subsea -1289 feet

2875-2900 feet Limestone, pink, peach and white, cryptocrystalline to finely crystalline.

2900-2950 feet Chert, pink, red and milky white, flinty, opaque to highly cloudy translucent and slightly cloudy translucent. (Sponge spicules) Small amount of white and stained limestone. (Samples generally poor)

2950-3050 feet Chert, white, yellow, and pink, flinty, highly cloudy translucent to opaque. Some white cryptocrystalline to crystalline limestone.

3050-3070 feet Chert, milky white, fresh, flinty, opaque, some rough, tripolitic. Some limestone, as above.

3070-3225 feet Dolomite, white and silvery white, varying from granular to fine, medium, and coarsely crystalline at different levels. Some milky white, smooth, flinty chert and rare rough tripolitic chert. This interval is probably of Silurian age.

Ordovician top 3225 feet Subsea -1639 feet

Maquoketa absent or too thin to be recognized in such poor samples.

Trenton (Viola) top 3225 feet Subsea -1639 feet

3225-3260 feet Dolomite, cream and light brown, granular to finely crystalline. Chert, light gray and creamy-gray, opaque, stony to flinty. (Sponge spicules)

3260-3310 feet Dolomite, cream, finely crystalline. (Much white dolomite and white chert of Hunton age, probably cave.) Poor samples.

3310-3370 feet Dolomite, cream and light brown, granular to finely and medium crystalline. Some light gray and creamy-gray, stony to flinty, opaque chert.

3370-3425 feet Dolomite, light brown, finely to medium crystalline, with disseminated soft crystalline limestone.

Decorah-Platteville top 3425 feet (corrected 5 feet for lag)
Subsea -1839 feet

3425-3455 feet Golden brown, finely and medium crystalline dolomite with some disseminated limestone, imbedded sand grains, and some brown shale partings.

3455-3470 feet Limestone, cream and buff, soft, fine-grained, part with disseminated dolomite rhombs, rare green shale.

3470-3500 feet Green laminated shale, with bryozoa and phosphate nodules and some fine-grained limestone.

3500-3555 feet Dolomite, light brown, granular to finely and medium crystalline, part sandy. Some dolomitic sand and loose round sand. Much green shale and some limestone cave ? This interval becomes increasingly sandy toward base and the lower 20 or 30 feet may be all sand, but this is difficult to determine in the generally cave-filled samples.

Arbuckle (pre-Cotter) top 3555 feet (corrected 5 feet for lag)
Subsea -1969 feet

3555-3565 feet TD. Dolomite, white and cream, coarsely crystalline, rare glauconite.