

84482

R. A. Carmody

January, 1941

Continental, No. 1 Kolste
NE SE 16-9S-21W

Elevation 2222 feet

Rotary Tools

Pennsylvanian basal conglomerate 3725-3785 feet

- 3725-3750 feet Chert, white to yellow, red and various-colored. Trace of red sandy clay. Many of the chert fragments, which incidentally are unusually large for cuttings, show well-rounded forms. This chert possibly derived from Mississippian is considered to be land wash which rapidly filled the remaining depression of a sinkhole.
- 3750-3785 feet Red clay, mottled with white and light gray. This clay deposit probably accumulated slowly in a sinkhole largely or entirely filled with fresh water. Clay of this type is found from 3380-3440 feet in the Lario, Potter No. A-1, C WL NW SW 20-11S-16W, where it overlies a thick deposit of burley-flint clay.
- 3785-3817 feet Chert, milk-white, rough, pitted, dolocastic, weathered and tripolitic, to vitreous, and frosty. Part asphaltic. Abundant crinoid stems. Some quartz and quartz crystals. Some fine asphaltic sandstone. Rare dolomite which may be caving and much clay as above, which also may be caving. This chert is very similar to that found in the Potter No. A-1 from 3545 to 3560 feet, which rests on the Arbuckle at the base of a sinkhole. The chert of this interval judging from the crinoids is probably derived from Mississippian.
- 3817-3840 feet Hematite, and very dark red waxy ferruginous shale, with imbedded sand grains, crystalline quartz, stained quartzose chert. Some chert as above.
- 3840-3865 feet Very dark red waxy ferruginous shale, with imbedded sand grains, chert fragments and phosphate nodules. Some recognizable fragments of sandy and laminated Decorah shale are present in this interval, and although it is highly probable that some Decorah cover was present in the immediate area at the time of the creation of the sink, Decorah is not believed to be in place in this hole.

Ordovician top 3865 feet

Arbuckle (Cotter) top 3865 feet

3865-3890 feet Dolomite, part sandy, and some oolitic chert.

Subsea -1643 feet

Subsea -1643 feet

Total Depth - 4218 feet

Note:

Balance of Arbuckle section will probably be examined by Mr. Conselman.