

R. A. Carmody

March, 1941

Cities Service, No. 1 Noel
SW SE SE 29-5S-20W

Elevation 2185 feet

Rotary Tool Well to 3587 feet

Pennsylvanian

Base Kansas City 3540 feet, corrected (3552=3547 feet SLM)

Pennsylvanian basal conglomerate 3570-3580 feet (not a true conglomerate--marine)

3570-3580 feet Limestone and gray clay shale, with some imbedded sand grains.

Ordovician top 3580 feet

Subsea -1395 feet

Arbuckle (pre-Cotter) top 3580 feet

Subsea -1395 feet

3580-3587 feet Medium and coarsely crystalline dolomite, with imbedded sand grains and very glauconitic. Some very slight oil staining in a circulated sample at 3587 feet.

3587-3588 feet SLM

3588-3595 feet Dolomite, cream, fine to medium and coarsely crystalline, very glauconitic, very sandy. (Sand grains, slightly coarse, rounded and pitted.)

3595-3602 feet TD. Sand, medium to slightly coarse, rounded and pitted. Oil staining.

Note:

This sheet is to replace the one of January, 1941.

March, 1941

Cities Service, No. 1 Noel
SW SE SE 29-5S-20W

Elevation 2185 feet

Rotary to 3587 feet, standard tools 3587-3602 feet, total depth.
Drilled plug in casing set at 3584 feet and had 400 feet of oil at rotary depth of 3587 feet. Completed for Echometer potential of 3065 barrels oil, no water, at total depth of 3602 feet. Chief pay in sand topped at 3590 feet with best saturation 3596-3602 feet.

Cambrian

Arbuckle top 3580 feet, or 1395 feet subsea. Penetration 22 feet, including basal sand. Marine Marmaton cover, basally conglomeratic.

3580-3602 feet Pre-Cotter

3580-3590 feet Highly glauconitic sandy crystalline dolomite, low in Everleigh.

3590-3602 feet Basal sand, dolomitic at top, friable and strongly saturated. Includes fresh arkosic material in first 6 feet. Gradational from Everleigh.

Remarks:

This producer is obviously obtaining its chief pay from Cambrian (Arbuckle) sand, with additional oil in the overlying Arbuckle dolomite. This pay sand is stratigraphically identical with the sand in the Ray pool discovery well, approximately one-half mile south. In the latter the capping Arbuckle dolomite has been stripped off, but the pay sand is just as definitely Cambrian as in this well. The suggested Pennsylvanian classification of the Ray sand pay appears unjustified by either Arbuckle or Pennsylvanian regional considerations, and would involve arbitrary revision of the basal sandy facies everywhere underlying the Arbuckle upward into the Pennsylvanian as soon as it reaches its paleo-outcrop at the pre-Cambrian contact.

Estimated top pre-Cambrian between 3610 and 3640 feet.

FBC