

March 1944

Cities Service, # G-1 Krug
Sec. 13-15s-14w, NW SW NE
Elev. 1890' TD_{us} (R. inted)

Cable tools

Pennsylvanian conglomerate 3316'-3336'

3316-3319 Limestone with rare included medium and coarse sand grains and with interbedded gray shales.
3319-3322 Limestone, clean, white, sand-free. BKC 3322'
3322-3336 Limestone, mottled red with red shaly partings.
Rare included sand grains. Bottom 5' are coarse fragmental red and buff limestone with abundant medium and coarse rounded sand grains.
Marine conglomerate.

Residuum of Arbuckle 3336-3366 1446'
Top 3336' Thickness 30' Subsea -1446'
Chert and clay. White flinty cherts and white to brown compact quartzose cherts, some with poor oolites. Clays are white to greenish-white and include brown fragile quartzose chert and rounded sand grains.
A local sinkhole filled with residuum of upper Pre Cotter. A part of the chert is secondary, associated with weathering on the old pre-Penn land surface.

Arbuckle Top 3366' Penetration 61' Subsea -1476'

Post Boyce member of Pre Cotter 3366'-3425'
3366-3386 Dolomite, white, coarsely crystalline. Samples largely composed of caving chert, clay, and sand from residual section above. Dolomite fragments appear fresh and show some porosity but water is not reported until 3379'-3386' where 1800' of water was found.
3386-3413. Dolomite as above. Samples so badly contaminated by cavings as to be practically worthless.
3413-3425 Dolomite, white, medium and coarsely crystalline with included coarse and medium sand grains. Sandy zone at base of Post Boyce.

Boyce member of Pre Cotter 3425'-3427' Top, Subsea -1535'
3425-3427 Sandy dolomite, white, medium. Distinctive white sandy chert. Samples poor due to cavings. 2500' of water reported at 3427' TD

Remarks: Test plugged back to 3317'. Made a Lansing well.

The restored top of the Pre Cotter is estimated at 3335' or Subsea -1445'. As the Boyce was reached in this test, any error in this estimate is due to assuming a thickness of 60' for the Post Boyce in this township..

RFW