

PDP506

September 1944

Hinkel #1 Andrea
Section 7-17S-10W, NE SE
Elev. 1891'

Cable tools

Pennsylvanian Conglomerate

No Conglomerate proper. Cover is clean white limestone, slightly glauconitic.

Cotter Residuum Top 3336' Thickness 61' Subsea -1445'

3336-3360 Oxidized chert and red clay. Pink, yellow, and orange translucent cherts showing contacts with dark red siliceous clay mottled white. Top 3' could be conglomerate.

3360-3380 Cherts with red clay contacts. Pinkish-white flinty cherts with solid oolites.

3380-3389 Quartzose cherts, brown and white, highly oolitic.

3389-3397 White milky cherts, sandy.

Arbuckle Top 3397' Penetration 19' Subsea -1506'

Cotter 3397'- 3401'

3397-3401 Dense granular dolomite, sandy at the base.

Pre Cotter, Post Boyce member 3401'- 3416' T.D.

3401-3406 White medium crystalline dolomite, green shale, and white dense dolomite with included coarse frosted sand grains.

3406-3411 White dolomite with 5% fragile white quartzose chert.

3411-3416 White medium crystalline dolomite. Includes fragile cherts as above and 20% clear granular to drusy quartzose chert with cryptozoan stippling. Test made HFW here.

Remarks: Dry hole drilled in 1937.

Intense solution erosion in this location has left 61' of completely leached basal Cotter residuum. This test may have encountered local sink hole condition.

The Cotter-Pre Cotter contact is defined by an excellent residual sequence. The top of the Pre Cotter was drilled at 3401' or -1510'.

RFW:HL