

November 1945

Texas #4 Harper
Sec. 10, T.18S., R.14W., SE NW
Elev. 1940'

Rotary SWD Well

Pennsylvanian Conglomerate

3398-3429 Oxidized worn Arbuckle cherts in poor rotary samples.

Residuum of Arbuckle Top 3429' Thickness 20' Subsea -1489'

3429-3449 White cherts; dull, flinty, translucent to opaque.
Sample gap 3432-3442'. Probably residual material in a
sinkhole.

Arbuckle Top 3449' Penetration 130' Subsea -1509'

Pre Cotter 3449-3579'

3449-3485 Post Boyce. White coarsely crystalline dolomite. Some porosity and oil staining at the top. Rare 1 mm sand grains near the base.

3485-3535 Boyce. Sandy to very sandy dolomite. Sand grains are coarse, medium, and fine with pink grains present. Some sandy quartzose chert with voids and red grains.

3535-3560 Pre Boyce. Buff, finely crystalline dolomite with small amount of doloclastic white silica.

3561-3578 ? Two poor cable tool samples largely cement. Some coarse and medium sand grains and brown medium crystalline sandy dolomite, and a small amount of granitic material are present. May be a clastic zone at the base of the Arbuckle.

Pre Cambrian Top 3579' Penetration 29' Subsea -1639'

3579-3590 Granite, weathered. Coarse pink feldspar, muscovite, chlorite.

3590-3604 Biotite granite.

3604-3608 No samples.

Remarks: This interpretation of the Arbuckle section agrees exactly with that given by Price (letter #30, 1944) who saw samples to 3560'. Due to overlap the Everleigh-Reagan is either quite thin or absent in this location.