

December 1944

Gulf #1 Zorn ^{V.F.D.}
Section 31-16S-11W, C SW NW
Elev. 1895'

Rotary

1894DP LIS (Printed)
Pennsylvanian Conglomerate 3315'- 3340'

- 3315-3322 Sandy limestone. Buff-white limestone with included coarse sand grains and 5 mm worn pebbles of Pre-Cambrian quartzite. As noted by Price, Letter No. 13, 1944, an occasional quartzite fragment is found in the Kansas City limestone as high as 3263' (-1368'). Marine conglomerate.
- 3322-3332 Sandy limestone. Buff to reddish limestone with included sand grains and quartzite pebbles. Some interbedded sandy, red clay shale. Base KC 3322', Price.
- 3332-3340 Chert gravel conglomerate. Worn pebbles of varied cherts including quartzose, oolitic, and flinty cherts from the Cotter, sucrose buff cherts from the Post Boyce, and sandy quartzose chert from the Boyce. Abundant worn micaceous quartzite pebbles from the Pre-Cambrian. Considerable angular sand from the Pre-Cambrian, and coarse rounded sand from the Arbuckle. Basal conglomerate of the marine Pennsylvanian.
- Land wash Top 3340' Thickness 20' Subsea -1445'
- 3340-3360 Chert and red clay. Cherts are unworn, rather similar in type, and show red clay contacts. Mostly basal Cotter material but a detailed sequence is not recognizable in rotary cuttings. Possibly residuum.
- Arbuckle Top 3360' Penetration 40' Subsea -1465'
- Pre Cotter, Post Boyce member 3360'- 3400' TD
- 3360-3366 Dolomite. White, coarsely crystalline dolomite, with 5% included coarse sand grains, in part showing black inclusions.
- 3366-3376 Interval cored. Price reports fair porosity from 3370-3376' filled with oil and water. Cuttings show white, coarsely crystalline dolomite, slightly sandy, in part oil-stained.
- 3376-3384 Dolomite. White, coarse dolomite with about 3% included coarse sand and with about 2% sucrose buff quartzose chert.
- 3384-3389 Sandy dolomite. White, coarsely crystalline dolomite with included coarse rounded sand grains. Drilling time about 5 minutes a foot. The lower samples show as much as 30% sand. About 2% quartzose chert as above. This sandy dolomite differs from the Boyce in its lack of silicified sand and red sand grains, in its lack of quartz lined geodes, and in the coarse crystallinity of the dolomite. Interpreted as lower Post Boyce.
- 3389-3400 Sandy dolomite as above. Drilling time 33 minutes. The top of the Boyce may have been encountered at 3399' as a trace of sandy white chert is present in the last sample, circulated 45 minutes at 3400' TD.

Remarks: Dry hole drilled in 1944. The restored top of the Pre Cotter cannot be estimated. The top of the Pre-Cambrian is estimated as between 3405' (-1510') and 3445' (-1550').