

October 1944

Black & Marshall #1 Seyfert
Section 36-16S-12W, NE SE NE
Elev. 1903'

Cable tools

Pennsylvanian Conglomerate 3322'- 3350'

- 3322-3332 Red shale with interbedded sandy white limestones. Cover is flaky gray shale to 3317' (scout top of conglomerate) with clean white limestone above. Base of Kansas City 3322'. Marine conglomerate.
- 3332-3335 Sand and clay. Very coarse irregular pitted sand grains with black inclusions now oxidized red; show red clay contacts. Pre Cambrian derived material. Non-marine slope wash.
- 3335-3340 Very sandy limestone. Included Pre Cambrian sand grains as above together with rounded frosted grains from the Arbuckle. Marine conglomerate.
- 3340-3342 Sand and red clay similar to that from 3332-3335', but with rare oxidized Arbuckle chert pebbles. Non-marine slope wash.
- 3342-3350 Coarse conglomerate of sand and chert, porous and clay free. Pebbles of varied Pre Cambrian quartzites; clay quartzite; speckled quartzite; and granular micaceous quartzite. Worn pebbles of Cotter, Post Boyce, and Boyce cherts. Rounded Arbuckle sand grains and coarse angular, pitted Pre Cambrian sand grains. Basal conglomerate of the marine Pennsylvanian.

Land Wash Top 3350' Thickness 24' Subsea -1447'

- 3350-3374 Sand and red clay. Coarse pitted subangular Pre Cambrian sand grains in a matrix of red clay. Rare quartzite pebbles and about 5% worn oxidized Arbuckle chert pebbles. "Soeey Sand" of scout report. Slope wash on Pre Cambrian hillside.

Residuum of Arbuckle Top 3374' Penetration 62' Subsea -1471'

- 3374-3383 Sand and clay. Well rounded medium sand grains with frosted surfaces. These contrast sharply with angular sands above. Green and white residual clay.
- 3383-3390 Chert and clay. Fairly fresh Cotter cherts, mostly milky at the top and quartzose below.
- 3390-3403 White cherts. Translucent to milky. Red and green mottled clay and red sandy clay.
- 3403-3410 Quartzose oolitic chert.
- 3410-3420 Sand, chert, and clay. Coarse and medium frosted sand grains. White chert in part sandy. Oolitic chert with rare sand centers.
- 3420-3432 Red and green mottled residual clay, sandy. Pre Cotter residuum.
- 3432-3436 Clay and buff quartzose non-oolitic chert.

Remarks: Dry hole drilled in 1943. The Cotter-Pre Cotter contact is in the residuum at about 3420' (-1517'). The test was abandoned in upper Post Boyce residuum. Excellent residuum sequence. The figures given above should perhaps be corrected 6' as scouts report the test abandoned in granite at 3428' T.D.