R. A. Carmody

May, 1941

Martin and Manning and Hearing, No. A-2 Kultgen
C EL NE NE 17-16S-12W

Elevation 1901 feet — Cable Tool Well

Pennsylvanian
Base Kansas City 3326 feet, corrected from 3330 feet
Pennsylvanian basal conglomerate top 3333 feet, corrected from 3337 feet.
Subsea -1432 feet

3333-3341 feet	Coarse quartz and quartzite fragments, poorly sorted calcareous cemented sandstone. Some red sandy clay shale. Rare stained oolitic chert. Much red limestone, part with imbedded sand grains and quartz fragments, probably caving from overlying Marmaton.
3341-3344 feet	Sand, fine and finely medium, angular, part with siliceous or pyrite cement. Some oil staining. Some coarse quartz and quartzite fragments. Some red and various-colored oolitic chert. (Some coarse, rounded quartz and feldspar fragments believed to be contamination of surface sand.)
3344-3346 feet	TD. Sample gap.

Note: Correction was made that 3348 equals 3344 feet. There is a possibility that the sand from 3341 feet to total depth may be a pre-Cotter Arbuckle sand, but the presence of stained Arbuckle chert and coarse quartzite fragments in the cuttings, which appear to be in place, argue strongly against such a determination. At least one fragment showed a very coarse quartzite pebble imbedded in a matrix of the fine sand, the sand which otherwise resembles some Arbuckle sand.