

June, 1942

I.T.I.O., # 1 Driscoll
NE SW, 21-13S-14W
Elev. 1847'

Cable tool dry hole

Pennsylvanian Conglomerate 3308'-3322'

3308-3314 Interbedded limestone, nodular sandy limestone, sandy red paper shale; limy sand with rare clastic chert chips at base. Marine.

3314-3322 Chert conglomerate. Well rounded chert pebbles showing rare sand contacts. Some loose sand. Chert includes abundant quartzose oolitic. Marine conglomerate.

Arbuckle Residuum 3322'-3355' Thickness 32' Subsea -1475'

3322-3336 Flinty cherts and dark red sandy clay.

3336-3347 Medium sand, quartzose chert, and chert as above. Some red clay.

3347-3355 Chert and red clay. Top of dolomite not a sharp line as Basal Cotter material in sequence continues in samples for about 10' below top of dolomite. Probably in solution enlarged cracks.

Arbuckle Top 3355' Penetration 28' Subsea -1508'

Post Boyce 3355'-3383' TD

3355-3361 Dolomite white, coarse rhombs, friable, with porosity clay plugged. Some distinctive dense white sandy (probably about 5 % sand) dolomite. Much dark red sandy clay mottled with fat green clay--probably Pre Cotter residuum. Some Cotter residuum in sequence as noted above. Much solution riddled section.

3361-3372 Dolomite, white, medium to coarsely crystalline. Includes 4 or 5 % very fine sand.

3372-3381 Finely ground dolomite and chert. Top of porosity 3372' as shown by HFW 3372-3374'. Caving Cotter cherts and sand.

Remarks: The Arbuckle section from 3355' to 3372', although obscured both by partial solution and material caving from the residuum and conglomerate, correlated fairly well with the section from 3296' to 3310' in the Palmer, # 1-A Killian, NW/4, 27-13S-14W. On this basis

The Top of Pre Cotter estimated at 3328' or Subsea -1481'

RFW & ML