

December, 1942

Cities Service, # 1-C Rogg
21-14s-13w, C S $\frac{1}{2}$ SW SW
Elev. 1761' ~~DP~~ _{LS} (circled)

Rotary to TD. Good samples.

Pennsylvanian Conglomerate 3200'-3240'

3200-3211 Sand, loose, worn, coarse to very coarse (plus 1 mm), with black inclusions. Derived from Pre Cambrian. Traces of coarse worn feldspar from granite. Includes a few pebbles of much oxidized, rounded Cotter cherts, purple, red, etc. at base. Marine conglomerate. Appears to be porous.

3211-3214 Nodular lime, brown. Loose sand as above.

3214-3228 Limy sand. Varies from white, ~~light~~ tightly cemented to friable with spotty oilstaining. Mostly medium grains, some coarse and some fine, poorly sorted. Derived from Boyce sand. Includes pebbles (plus 5 mm) of red, oxidized Boyce sandy chert and very rare pebbles of oolitic Cotter chert. Marine conglomerate. Low porosity.

Land Wash

3228-3240 Chert and red clay. Oxidized hard Cotter cherts, bright red to white, including some quartzose oolitic cherts. Part show red clay contacts. Fat red clay mottled white, slightly sandy. Might be slumped residuum, but some cherts show slight evidence of wear. Locally ~~xxx~~ derived material. Land wash. Top, Subsea -1467'

Arbuckle Residuum

3240-3245 Clay, fat buff-white, pyritic, slightly sandy. Residuum of Post Boyce.

Arbuckle Top 3245' Penetration 20'

Subsea -1484²'

Post Boyce 3245-3260'

3245-3260 Dolomite, white, coarsely crystalline, slightly sandy. Some dolomite, gray-white, very coarsely crystalline, rhombic, sand free, porous.

Boyce 3260'-3265' TD (uncirculated) Top, Subsea -1499'

3260-3265 Dolomite, white, coarsely crystalline, sandy to very sandy. Sand grains largely medium but range from fine to coarse; grains in part faceted, few red. Some sandy quartzose chert with ~~xxx~~ poorly preserved oolites either as hollow voids or white and solid. Diagnostic Boyce material.

Remarks: Test low topographically and structurally. Good rotary samples.

RFW