February, 1941

Gulf, No. 1 Boller
C E½ SE SE 29-7S-22W

Elevation 2264 feet

Wildcat dry-hole, standardized at 3858½ feet. Rotary core 3855 to 3858½ feet; cable-tool cores with poor recovery 3858½ to 3901 feet, total depth. Water between 3883 and 3888½ feet, with possible slight increases below.

Ordovician and Cambrian

Arbuckle top 3837 feet, or 1573 feet subsea. Penetration 64 feet. Marmaton cover with trace Pennsylvanian basal conglomerate.

3837-3901 feet TD Pre-Cotter.

3837-3858 feet	Post-Boyce crystalline dolomites, with vuggy porosity saturated with very heavy black oil. Drilled with rotary tools. No residues prepared.
3858-3874 feet	Post-Boyce (asphaltic) dolomite, like above, drilled with standard tools. Base gradational.
3874-3884 feet	Boyce sand and dolomite.
3884-3901 feet	TD. Pre-Boyce, post-Weigel dolomite with associated thin micaceous red and gray shales.

Remarks:

Water in amounts that could not be lowered by bailing was encountered in an interval apparently straddling the disconformity at the base of the Boyce. The Boyce itself was not a reservoir.

The heavy asphaltic "oil" in the vuggy pre-Cotter crystalline dolomites of the upper part of the post-Boyce may represent the residue of an old oil seep under the Pennsylvanian, with all volatile constituents escaped. Under these circumstances thin cover of denser Cotter dolomite might be a favorable rather than an unfavorable factor in localizing accumulation.

FBC