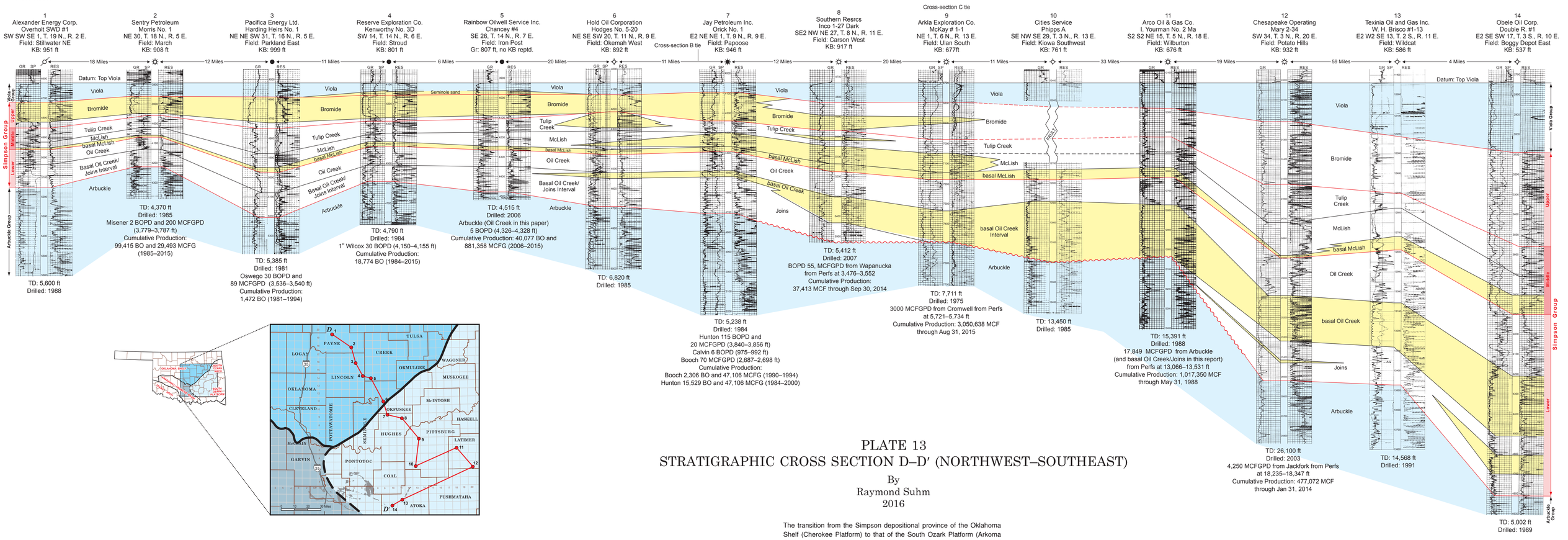
OKLAHOMA GEOLOGICAL SURVEY
Jeremy Boak, *Director*

D

Northwest

D′

Southeast



Explanation

- Sandstones of the Simpson Group
- Shale and sandy carbonates of the Simpson Group
- Carbonates of the Arbuckle and Viola Groups

PLATE 13
STRATIGRAPHIC CROSS SECTION D–D′ (NORTHWEST–SOUTHEAST)

By
Raymond Suhm
2016

The transition from the Simpson depositional province of the Oklahoma Shelf (Cherokee Platform) to that of the South Ozark Platform (Arkoma Basin) takes place along the Southwest Ozark Lineament in the vicinity Well #6. Northwest of Well #6 on the Oklahoma Shelf, Simpson gamma ray curves on the Cherokee Platform are spiky" and abundant, and Bromide sandstones are widely distributed. Southeast from Well #6, in the Arkoma Basin, gamma ray spikes are scarce in the Simpson due to the overall absence of clay on the South Ozark Platform. Here, and under the Ouachita Thrust sheet, the Oil Creek and McLish sandstones are well developed.