EXPLANATION

Well data:

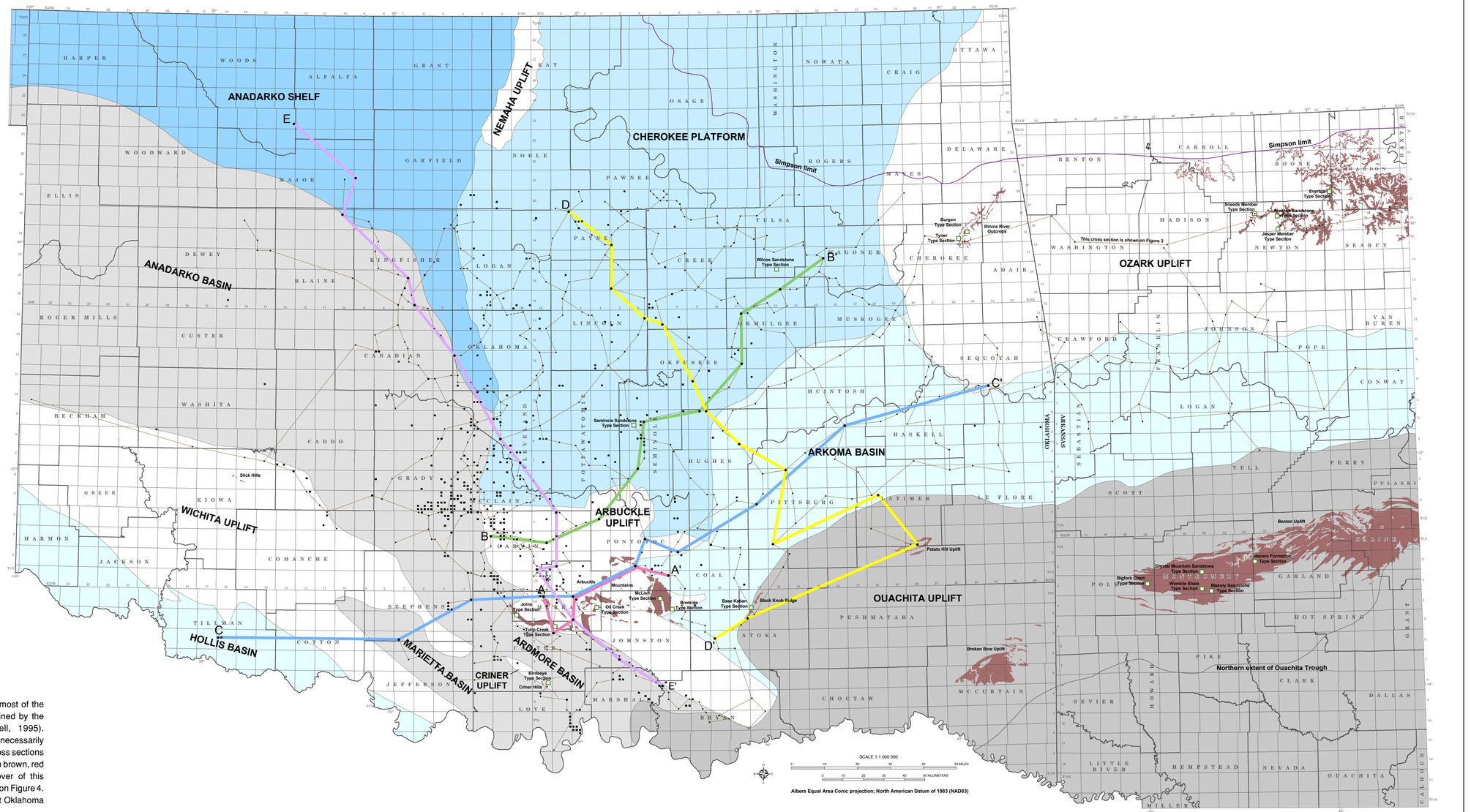
- Well log shown on cross section
- Oklahoma Petroleum Information Center (OPIC) core available
- Type section

Lines of cross section:

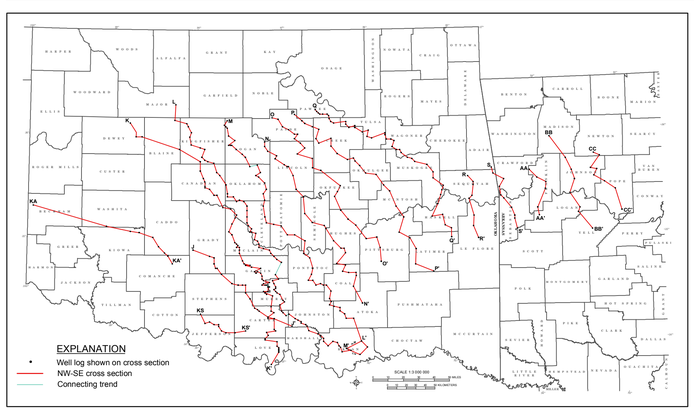
- A–A'
- B–B'
- C–C'
- D–D'
- E–E'
- Cross section (earlier study)
- Viola/Simpson subcrop line
- Simpson / Viola outcrop

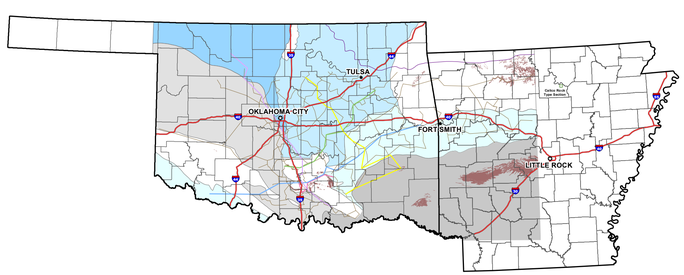
Tectonic provinces:

- Arkoma Basin (Hollis Basin in southwestern Oklahoma)
- Cherokee Platform
- Anadarko Shelf
- Anadarko/Ardmore Basins
- Ouachita Uplift
- Wichita Mountains in southwestern Oklahoma; Arbuckle Mountains in southern Oklahoma; Nemaha Uplift in north-central Oklahoma; and Ozark Region in northeast Oklahoma and Arkansas



Map shows locations of wells in Oklahoma that penetrated most of the Simpson Group and their relation to tectonic provinces defined by the Oklahoma Geological Survey (Northcutt and Campbell, 1995). Boundaries of tectonic provinces are similar to, but not necessarily identical with depositional provinces shown on Plate 2. Log cross sections prepared for an earlier study (Suhm, 1997) are denoted by thin brown, red or blue lines, and are included on the DVD on back cover of this publication. East-west Cross section BO in Arkansas is shown on Figure 4. Black squares represent Simpson cores that are available at Oklahoma Petroleum Information Center (OPIC).





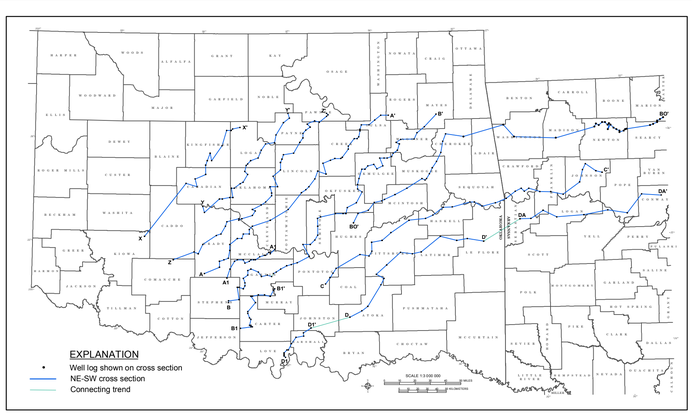


PLATE 1
TECTONIC PROVINCES IN WESTERN ARKANSAS AND OKLAHOMA, WITH LINES OF CROSS SECTIONS AND SIMPSON AND VIOLA OUTCROPS

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2016