

GEOLOGIC MAP AND SECTION OF PRE-WOODFORD ROCKS IN OKLAHOMA SHOWING SURFACE AND SUBSURFACE DISTRIBUTION

by

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Prepared in collaboration with oil companies and
geologists of Oklahoma

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Surface geology modified from Geologic Map of Oklahoma, 1954, by
Hugh D. Miser, and from other published sources. Small areas of com-
plex structure are exaggerated and simplified. Datum at most places is
the unconformity at base of Upper Devonian rocks. Over most of the
State this regional unconformity is at the base of the black shale of the
Woodford Formation, but locally in southern Oklahoma, it is at the base of
pre-Woodford brown carbonate. In northern Oklahoma, the unconformity
is at the base of the Noel (Chattanooga) Shale or at the base of the under-
lying sandstone called Misener in the subsurface and Sylamore in
outcrops. In southwestern Oklahoma and locally in northern Oklahoma,
pre-Woodford rocks are unconformably overlain by Mississippian rocks
or at places over structures by Pennsylvanian rocks. Datum over much
of the Ouachita Mountains region of southeastern Oklahoma is at the
base of the Arkansas Novaculite.

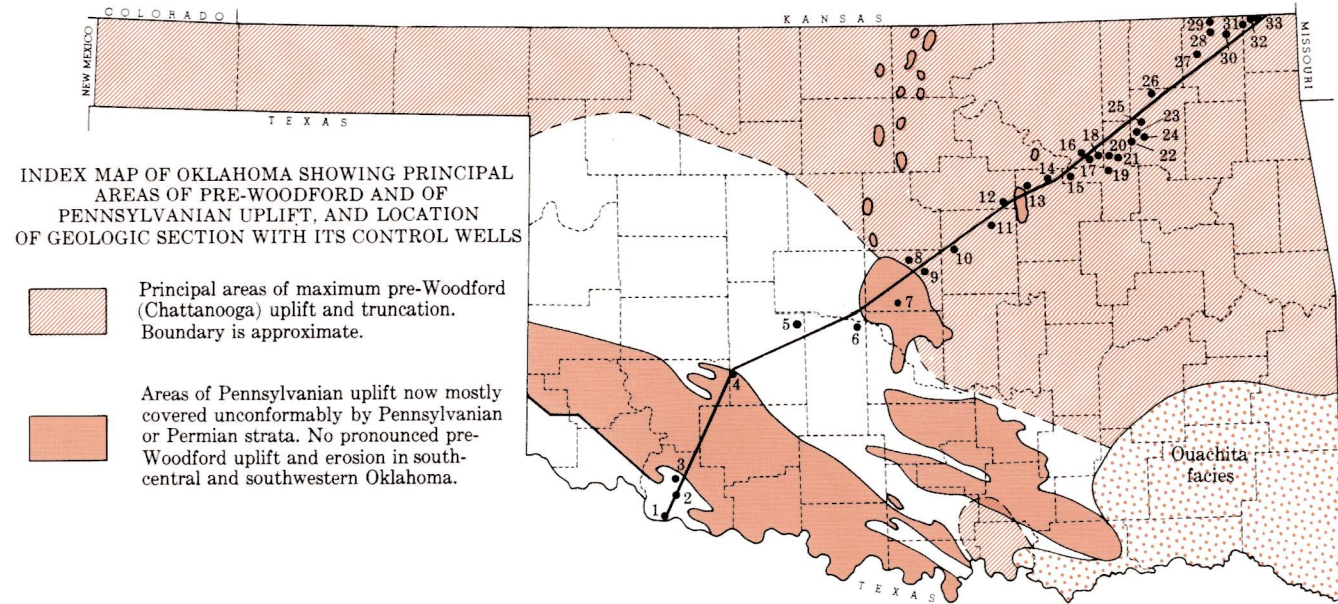
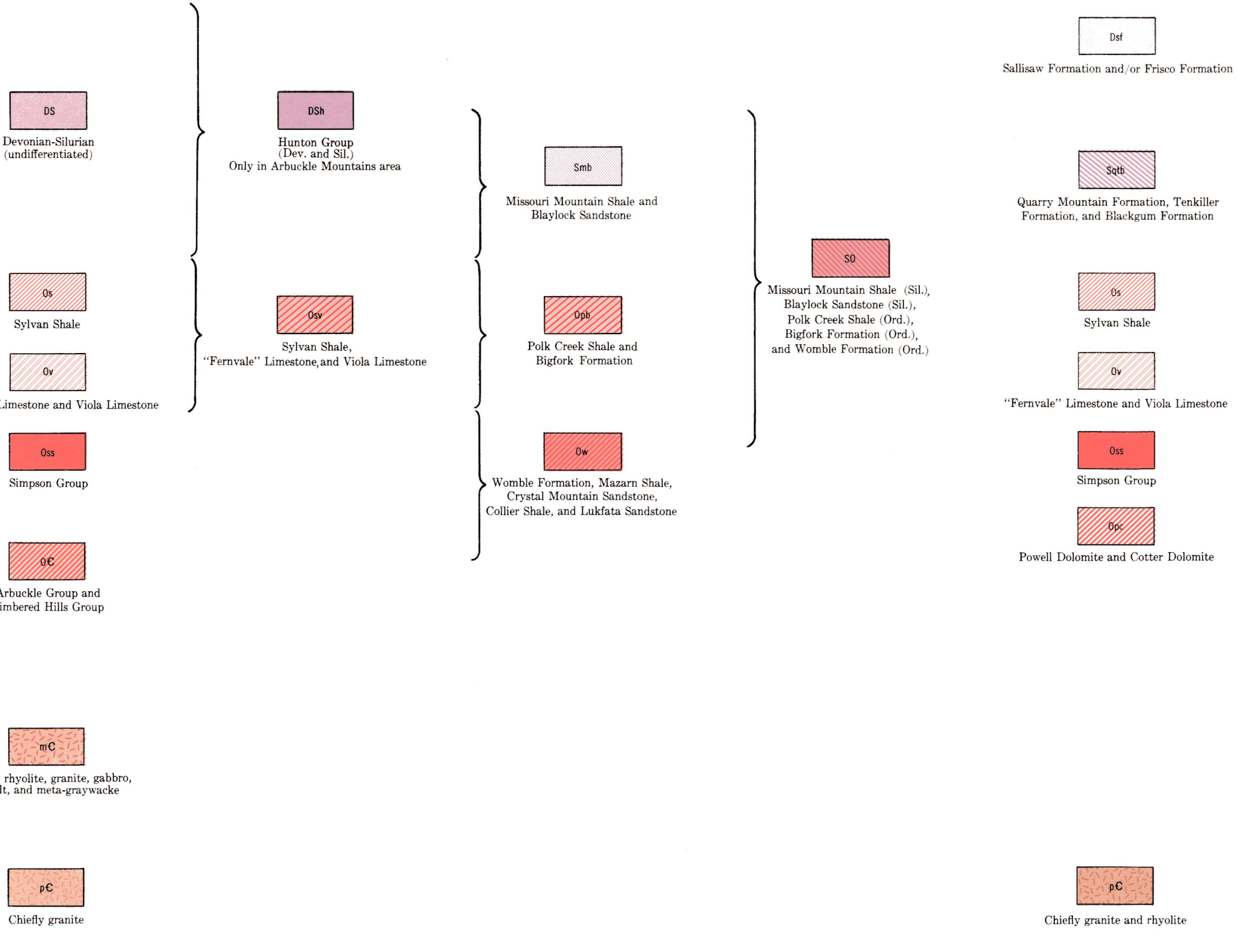
EXPLANATION

WESTERN AND CENTRAL OKLAHOMA

SOUTHEASTERN OKLAHOMA
Ouachita Mountains Province

NORTHEASTERN OKLAHOMA
Ozark Uplift Area

EARLY DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN
PRECAMBRIAN



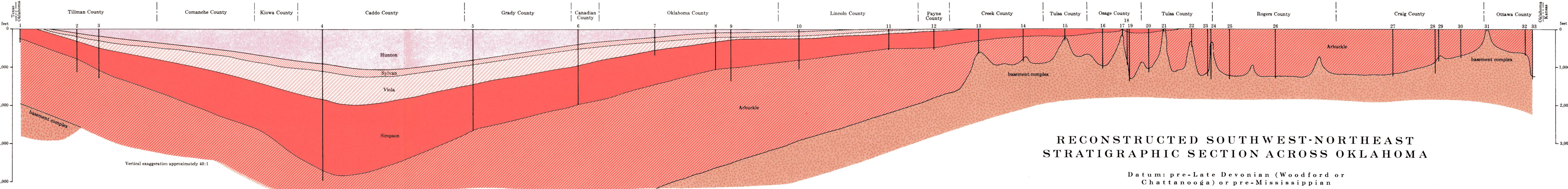
Principal areas of maximum pre-Woodford
Chattanooga uplift and location
of geologic section with its control wells

Areas of Pennsylvanian split now mostly
covered unconformably by Pennsylvanian
or Permian strata. No pronounced pre-
Woodford uplift and erosion in south-
central and southwestern Oklahoma.

Stratigraphic contact in subsurface
Stratigraphic contact on surface
Surface trace of major unconformity between older
Paleozoic rocks and Upper Devonian, Mississippian,
Pennsylvanian, Permian, or Cretaceous rocks in southern Oklahoma.
Major fault mapped from outcrops
Fault in subsurface. Most minor faults and certain other faults
not affecting distribution of pre-Woodford strata are not shown.

KEY TO WELLS SHOWN ON GEOLOGIC SECTION

- | | | | |
|---|---------------------|---|---------------------|
| 1. Phillips et al. 1 Wright | NE NE NW 18 28 17W | 17. Gillespie & Sons 21 Osage | NE NE NE 8 20N 12E |
| 2. Arco Oil Co. 1 Platt | NW NW SW 16 28 17W | 18. Sunray 8-1 Osage | NE NE SW 4 20N 12E |
| 3. Carter Oil Co. 1 Kutz | SE SW SW 20 28 17W | 19. Dowell Inc. 1 Per | SE NE NW 30 20N 12E |
| 4. Shell Oil Co. 1 Tulp | C NW SW 31 28 17W | 20. Tonco 21 WS Ashland | C N E NE 32 21N 12E |
| 5. Dever Pool & Ref. 1 School Land | C SE SW 16 16N 10W | 21. Superior Oil Co. 1 Blakemore | SW NW SW 26 21N 12E |
| 6. Hamble Oil & Ref. 1 Treadler | SW SW SW 20 16N 10W | 22. Shennon & Carter 1 Duncan | SE NW SW 10 21N 14E |
| 7. Johnson-Gill & Bros-Schenck 1 Prosperity Acres | SW SW SW 30 11N 2W | 23. Lucien Carter 2 Nichols | NW NW SE 25 22N 14E |
| 8. Petroleum, Inc. 1 Ruble | C NW SE 11 11N 2W | 24. Duquesne Oil & Gas 1 Doublehead | NE NE SE 12 22N 15E |
| 9. T. B. Stick 1 Martin | C NW NW 11 11N 1W | 25. Carter & Smith 24 Pomer | SE NW SE 12 24N 15E |
| 10. Frankfort Oil Co. 1 Standish | NW NW SE 10 11N 2E | 26. Leathman Prod. 1 Corlett | NW NW NW 12 24N 15E |
| 11. Deep Rock 1 Argo | C NW SE 4 16N 2E | 27. Franklin 1 Blakemore | SE NW NW 12 24N 15E |
| 12. Prairie Oil & Gas 1 Anderson | NE NE NW 3 17N 4E | 28. Frankfort 1 Van Ausdel | SE NW NW 12 24N 15E |
| 13. Carter Oil Co. 4 McGillicuddy | NW NW NW 2 16N 2E | 29. Winkler 1 Bond | SE NW NW 12 24N 15E |
| 14. Woods Oil Co. 9 Bartlett | C NE 18 16N 2E | 30. City of Welch | SW NW SW 20 24N 15E |
| 15. Texas Co. 2 Surr | SW NW SE 10 16N 2E | 31. American Zinc 2 C. M. Dero | SE NW SE 12 24N 15E |
| 16. So. Union Prod. Co. 1-C Atchison | SE SE NW 5 30N 11E | 32. Commerce Mining & Royalty 100 J. Beaver | SW SE SE 12 24N 15E |
| | | 33. Commerce Mining & Royalty 100 J. Beaver | SW SE SE 12 24N 15E |



RECONSTRUCTED SOUTHWEST-NORTHEAST STRATIGRAPHIC SECTION ACROSS OKLAHOMA

Datum: pre-Late Devonian (Woodford or
Chattanooga) or pre-Mississippian