

GEOLOGIC MAP AND SECTION OF PRE-PENNSYLVANIAN ROCKS IN OKLAHOMA

SHOWING SURFACE AND SUBSURURFACE DISTRIBUTION

by
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Prepared in collaboration with the oil companies and
geologists of Oklahoma

1962

Surface geology modified from Geologic Map of Oklahoma, 1954, by Hugh D. Miser, and from
other published sources. Small areas of complex structure are exaggerated and simplified.

EXPLANATION

NORTHERN OKLAHOMA

MISSISSIPPIAN

- Mc Chester Group
- Mn Meramec Group
- Osage Group

SOUTHERN OKLAHOMA

MISSISSIPPIAN

- M Springer Formation, Goddard Formation, Casey Shale, Synamore Formation, and Warden Limestone

SOUTHEASTERN OKLAHOMA
Ouachita Mountain Province

MISSISSIPPIAN

- M Johna Valley Shale, Jackfork Group, and Sawley Group

NORTHEASTERN OKLAHOMA
Ozark Uplift

MISSISSIPPIAN

- M Pittkin Limestone, Fayetteville Shale, Batesville Sandstone, and Hindsville Limestone, Chester Group, and Moorefield Formation, Meramec Group
- M₂ Rocks principally of Osage Group. At top, in Ottawa County, includes beds equivalent to Moorefield Formation

NORTHERN AND SOUTHERN OKLAHOMA

DEVONIAN

- D₅ Woodford Shale
- D₄ Woodford Shale (Dev.) and Hunton Group (Dev. and Sil.)
- D₃ Hunton Group
- D₂ Sylvan Shale
- D₁ "Fertvale" Limestone and Viola Limestone

SILURIAN

- S₅ Woodford Shale (Dev.) and Hunton Group (Dev. and Sil.); Sylvan Shale, "Fertvale" Limestone, and Viola Limestone (Ord.)
- S₄ Woodford Shale (Dev.) and Hunton Group (Dev. and Sil.); Sylvan Shale, "Fertvale" Limestone, and Viola Limestone (Ord.)
- S₃ Sylvan Shale, "Fertvale" Limestone, and Viola Limestone
- S₂ Polk Creek Shale and Bigfork Formation
- S₁ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone

ORDOVICIAN

- O₅ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- O₄ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- O₃ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- O₂ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- O₁ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone

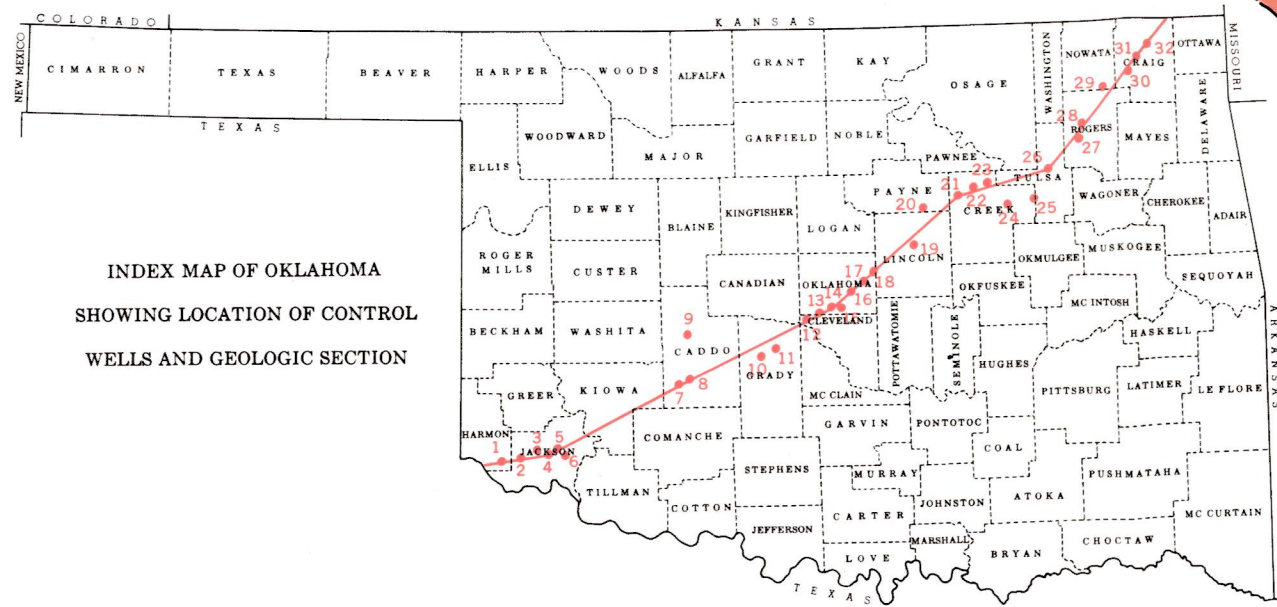
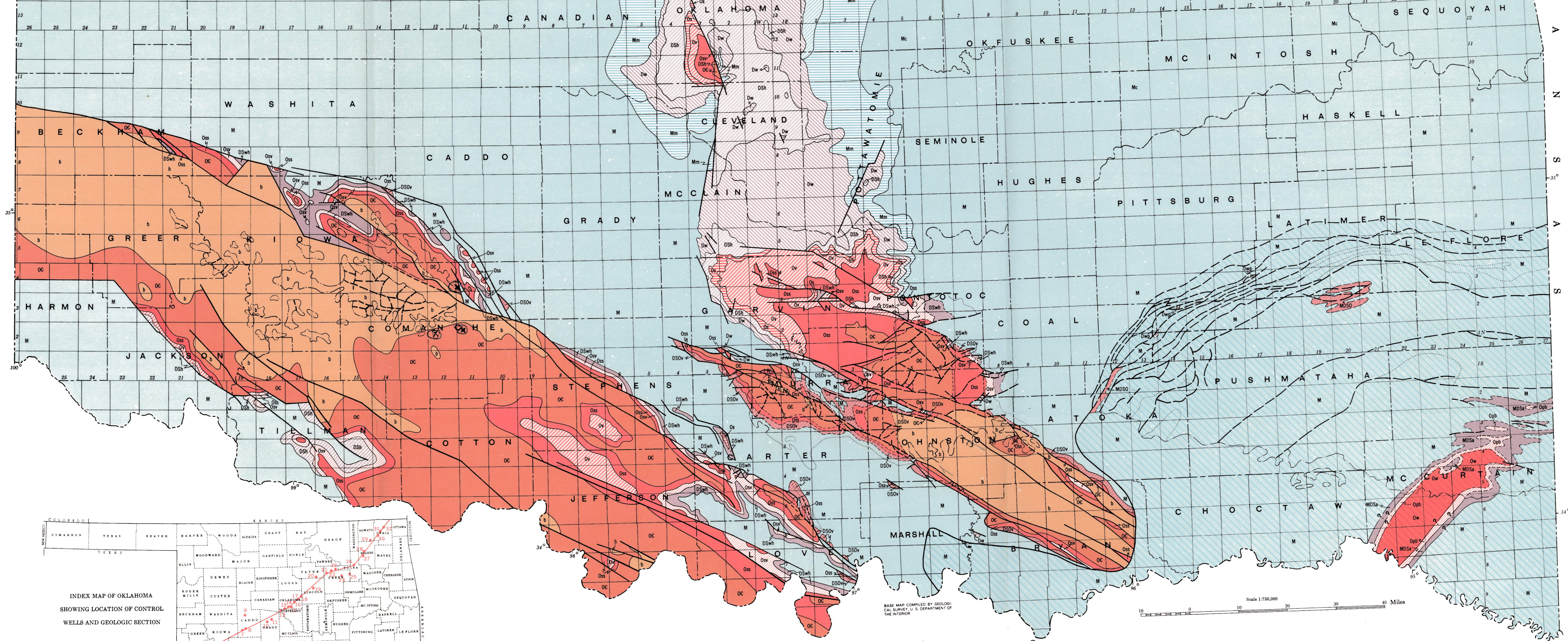
LATE CAMBRIAN

- C₅ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- C₄ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- C₃ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- C₂ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- C₁ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone

EARLY-MIDDLE CAMBRIAN? AND PRECAMBRIAN

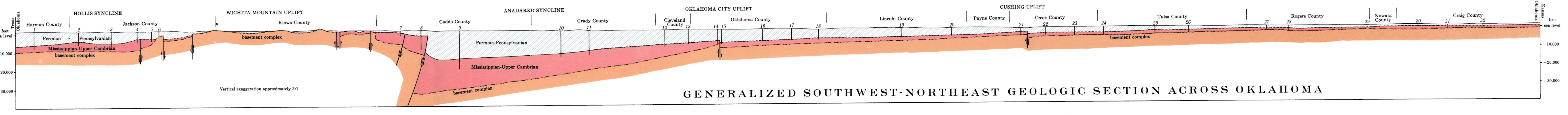
- P₅ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- P₄ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
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- P₂ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone
- P₁ Womble Formation, Maum Shale, Crystal Mountain Sandstone, Collier Shale, and Lukfata Sandstone

Basement complex



INDEX MAP OF OKLAHOMA
SHOWING LOCATION OF CONTROL
WELLS AND GEOLOGIC SECTION

- KEY TO WELLS SHOWN ON GEOLOGIC SECTION**
- | | | | |
|--|---------------------|---|---------------------|
| 1. California Co. No. 1 Wade | SE SW NW 31 1N 20W | 17. Thayer & Huskey No. 1 Perry | SW SE SE 30 10N 1E |
| 2. Atlantic Ref. Co. No. 1 Hallett | NE SE NW 5 1N 20W | 18. Double R Dril. Co. No. 1 Cole (Wagner) | NE NE SW 2 10N 1E |
| 3. Standard Oil & Gas Co. No. 1-A Lela Murray | SE SE SE 31 2N 20W | 19. Vikers Petr. & Eason Oil Co. No. 1 Thompson | NW NE SE 17 10N 4E |
| 4. Faison-Seaboard Dril. Co. No. 1 Morris | NW SE 4 1N 21W | 20. A. Silberman (Shelly Oil Co.) No. 1 Lathrop | SW SW SE 11 17N 4E |
| 5. Wilcox Oil Co. No. 1 Muck | SE SE SE 36 2N 20W | 21. Riverside Oil & Ref. Co. No. 2 Yarhol | NW SW SE 8 10N 7E |
| 6. J. S. Rader et al. No. 1 Elliott | NE NE SE 5 1N 20W | 22. Lester Oil Co. No. 1 Verne | SW SE NW 30 10N 8E |
| 7. Atlantic Ref. Co. No. 1 Tully | NW SE SE 29 1N 20W | 23. Wood Oil Co. No. 9 Bartlett | SW NE SW 10 17N 10E |
| 8. Citrus Service Oil Co. No. 1 Ka-Day-So | NE SE SE 9 6N 10W | 24. Central Commercial Co. No. 3 Hay | SE NW SE 29 18N 12E |
| 9. The Granite Corp. No. 1 Andarlio Basin | NW NW SE 4 9N 10W | 25. Gulf Oil Corp. No. G26S, N. Glenn Unit 2 | SW SE NW 31 20N 13E |
| 10. Jordan Petr. Co. et al. No. 1 Coleman-Davis | SW NW SE 8 6N 10W | 26. Dowell, Inc. No. 1 Fee | NE NE SE 31 22N 15E |
| 11. Jordan Petr. Co. et al. No. 1 Hall | SE SW SE 10 10N 10W | 27. Duquesne Oil & Gas No. 1 Doublehead | NW SE SW 4 22N 15E |
| 12. Continental Oil Co. No. 1 Maruka | SE SW SE 11 11N 10W | 28. E. Evans (Cartor & Smith) No. 2-A Penners Bros. | SW SE NW 31 22N 15E |
| 13. Star Oil Co. No. 1 Secher | SW NW NW 11 11N 10W | 29. Shell Oil Co. No. 1-W Parry | NW SE NW 4 22N 15E |
| 14. Citrus Service Oil Co. No. 5 Parley | SW NW NW 11 11N 10W | 30. Major Oil Co. No. 1 Conday | SW SE NW 4 28N 19E |
| 15. Johnson-Oil & Brook-Scanlon No. 1 Prosperity Acres | SW NW NW 11 11N 10W | 31. Frankfort Oil Co. No. 1 Blaujack | NW NW NW 4 28N 19E |
| 16. Westcott-Nagle No. 1 Kramer | NE NE NE 17 12N 1W | 32. Frankfort Oil Co. No. 1 Van Ausdel | SE NE NW 31 28N 20E |



GENERALIZED SOUTHWEST-NORTHEAST GEOLOGIC SECTION ACROSS OKLAHOMA