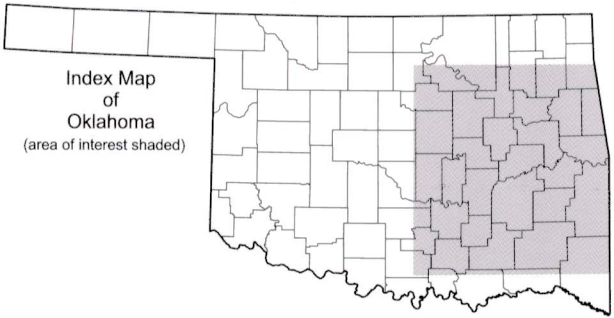


Structural interpretations by Richard D. Andrews from NRIS, unpublished maps by John Shenk (east third) and Kurt Rottmann (western two-thirds); Blackwelder (1909); Stout (1901); Jeffries (1902).



EXPLANATION	
<span style="color: blue;">●</span> Union Valley Limestone gas & oil	<span style="background-color: yellow;"> </span> Cromwell Sandstone outcrop
<span style="color: green;">●</span> Cromwell Sandstone oil	<span style="color: magenta;">—</span> Normal faults; both minor and major. Relative movement; U = upthrown side; D = downthrown side
<span style="color: red;">●</span> Cromwell Sandstone gas	<span style="color: magenta;">—</span> Regional subsurface normal fault; barbs on relative downthrown block
<span style="color: orange;">●</span> Jefferson sandstone gas & oil	<span style="color: magenta;">—</span> Major thrust fault, exposed or interpreted to occur at surface; saw teeth on upper plate
<span style="background-color: darkblue;"> </span> Wapanucka Formation including the Wapanucka Limestone	
<span style="background-color: darkgreen;"> </span> Morrow & Springer undifferentiated: - mostly shale south of Choctaw Fault - limestone, shale, and minor sandstone in NE Oklahoma	

**PLATE 2. MAP SHOWING PRODUCTION ALLOCATION FOR THE CROMWELL, JEFFERSON, AND UNION VALLEY LIMESTONE**

By  
Richard D. Andrews