3D computer modeling of the Stillwell anticline fold system, west Texas: testing models of fold formation
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I. Introduction
With a successful, working 3D model of the Stillwell anticline, a gently dipping backlimb, a well-defined midlimb, and a steeply dipping forelimb. However, the 8-12° dip of the midlimb, a pre-existing high-angle basement fault system remains the best explanation for the localization of deformation, the vertical offset between hinterland structures play an important role in accommodating and localizing strain.

II. Geologic Background
The Stillwell anticline is a 500 m wide, 8 km long, well-exposed basement cored fold system in the Big Bend region containing three NW-trending, NE-vergent, left-stepping en echelon segments... 15 and imported a geo-

III. The Stillwell Anticline
The Stillwell anticline is a 500 m wide, 8 km long, well-exposed basement cored fold system in the Big Bend region containing three NW-trending, NE-vergent, left-stepping en echelon segments... 15 and imported a geo-

IV. Geologic Map
We began modeling the site by importing the satellite image and indexed geologic cross sections into the 3D modeling software. The boundaries between units were... 15 and imported a geo-

V. 3D Structural Modeling
We began modeling the site by importing the satellite image and indexed geologic cross sections into the 3D modeling software. The boundaries between units were... 15 and imported a geo-

VI. Workflow
We began modeling the site by importing the satellite image and indexed geologic cross sections into the 3D modeling software. The boundaries between units were... 15 and imported a geo-

VII. Implications of the 3D Model
We began modeling the site by importing the satellite image and indexed geologic cross sections into the 3D modeling software. The boundaries between units were... 15 and imported a geo-

VIII. Two - Stage Fold Evolution
The first stage of the fold evolution is called the... 15 and imported a geo-

IX. Reverse Trishear Kinematic Modeling
The trishear kinematic model allows for... 15 and imported a geo-

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XI. Conclusions
The research conducted in the Stillwell anticline fold system is important for understanding the formation of folds and... 15 and imported a geo-

Acknowledgements

References