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[VECTOR CORRELATION OF AVAZ AND CURVATURE ATTRIBUTE - APPLICATION TO MISSISSIPPIAN TRIPOLITIC CHERT, OSAGE COUNTY, NORTHEAST OKLAHOMA](#)

Preview

Guo, S; Zhang, B; Verma, S; Marfurt, K J. **84TH ANNUAL SEG INTERNATIONAL MEETING (DENVER, CO, 10/26-31/2014) TECHNICAL PROGRAM: 346-350.** (2014)

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VECTOR CORRELATION OF AVAZ AND CURVATURE ATTRIBUTE - APPLICATION TO MISSISSIPPIAN TRIPOLITIC CHERT, OSAGE COUNTY, NORTHEAST OKLAHOMA

Guo, S; Zhang, B

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Abstract (summary)

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Chert is an unconventional reservoir rock that has been developed successfully in west Texas, Oklahoma, California and Canada. Tripolitic chert is a diagenetically altered form of chert which shows high porosity and low resistivity. The Mississippian tripolitic chert is currently an exploration and development objective throughout southern Kansas and northern Oklahoma, including our survey area of Osage county. As one of the most fully developed unconventional plays in North America, knowing the orientation and intensity of the present day horizontal stress direction is critical to both the placement and completion of horizontal wells. In our study, we wish to determine the correlation, if any, between structural deformation as measured by curvature and coherence and the present day stress orientation as measured by amplitude vs. azimuth (AVAz) analysis. We map structural features along top Mississippian Lime horizon using geometric attributes and find a high correlation between low coherence and most negative curvature fault lineament. We migrate our data into azimuthal bins and compute changes in amplitude with azimuth. (Original not available from T.U.)

Indexing (details)

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TRIPOLITE

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