

# From Reservoir Characterization, 3D Seismic multi-attribute analysis and machine learning facies classification to Well Performance Simulation: A Woodford Shale Case Study in North of Oklahoma, USA Emilio J. Torres-Parada<sup>1</sup> and Saurabh Sinha<sup>1</sup> <sup>1</sup> The University of Oklahoma, School of Geology and Geophysics, etorres @ou.edu and saurabh.sinha@ou.edu





![](_page_0_Figure_10.jpeg)

![](_page_0_Figure_20.jpeg)

![](_page_0_Figure_23.jpeg)

![](_page_0_Figure_24.jpeg)

![](_page_0_Picture_25.jpeg)