

# **Recent Exploration Success in the Woodford Shale, Payne Logan Counties: Finding 1,000+ BOPD Wells in an Area Peppered with Dry Holes**

**Bill Coffey**

## **Abstract**

Petrophysical analysis and regional mapping played a key role in identifying and quantifying the limits of an oil productive facies within the Woodford interval in Central Oklahoma. This area has seen numerous penetrations since the 1930's and the Woodford Shale potential was completely bypassed. Legacy log suites were analyzed using regional core-calibrated petrophysics to develop a comprehensive resource estimate and potential reservoir extents. Once pay parameters were established, detailed facies mapping yielded a unique depositional setting, allowing focused horizontal drilling targeting this Woodford interval. Initial Woodford horizontal test rates from these mapped areas yielded 200-350 BOPD ranges, and have since grown into wells testing in excess of 1000 BOPD.