Rebirth of the Hunton in the Sooner Trend Field of Oklahoma

Gregg McDonald[1], Trey Stearns[1], and Mike LaGrange[1]

[1]Maximum Exploration LLC.

ABSTRACT

The Sooner Trend Field located in Northwest Oklahoma, initially developed in 1960's, has been brought to the forefront in renewed development due to advances in horizontal drilling and hydraulic fracturing. The Hunton was historically a secondary target in exploration of the Mississippi Limestone. Operators would typically discover low porosity fractured limestone with hydrocarbon shows. Occasionally, high porosity zones were discovered that resulted in prolific oil and gas production. Distinctive geology within the Hunton has made it difficult to fully deplete through conventional technology resulting in significant bypassed reserves. Identification and rediscovery of these reserves has been aided by geological mapping, investigation of offset production, and analysis of natural fractures identified in borehole images. Successful horizontal well development has resulted. Unlike the "statistical" approach to resource plays, where geology is so much of an afterthought, geology has been key to exploitation!