

Eagle Ford Shale Prospecting with 3D Seismic Data

Galen Treadgold

Weinman Geoscience Steve Sinclair, Matador Resources

The Eagle Ford Shale in South Texas is one of the more exciting shale plays in the United States at the current time. Recently published reports of well tests describe gas well rates exceeding 17 mmcf/d and oil rates in excess of 500 bopd and unconfirmed rates of 1500 bopd. Acreage least rates continue to climb as more positive results come from drilling within the trend. A key issue for the exploration companies is finding where to focus acreage acquisition and optimize drilling plans for optimal gas and oil recovery. Our paper will first consider the geologic context of the Eagle Ford and then look at the geologic drivers for locating a productive well. With improved understanding of local rock properties, focus shifts to geophysical techniques, in particular, comparing and contrasting the value of seismic attributes in building a successful exploration plan.