

Pictured Cliffs 80-Ac Pilot Criteria

- On/off good sand trend (sand trends mapped per cum data)
- Distance from parent well (950'-1,850')
- Azimuth from parent well
 - Depositional strike
 - N-S fractures, frac wings
 - Preferred trend – E/W or NE/SW
- Parent well in good producing condition
- Optimum completions on off-set wells
- Pay-adds to Mesaverde/Dakota wells:
 - Wellbore integrity
 - Producing < 50 - 100 MCFD

Geologic Setting

- Energen pilot wells were located:
 - In high to marginally productive; good to moderate sand trend areas
 - More on flank of the basin
 - Deeper in depth
 - Higher original and remaining reservoir pressure
 - Higher clay content, lower permeability & porosity may be expected