



CASE HISTORY

Reservoir Optimization

FREECAP®

FREECAP – SCREEN FLOW DIVERSION

Zonal isolation required in horizontal screened completion

Location: Norway



FREECAP

CHALLENGES: A horizontal well in a sandstone reservoir offshore Norway was completed using pre-packer sand screens and included swellable packers (FREECAP) for zonal isolation between screen segments.

SOLUTION: A total of 14 each, 5-1/2" OD x 7-3/4" OD water reactive FREECAP were run and spaced along the screen to separate the horizontal well into 7 distinct zones.

RESULTS AND BENEFIT: Pressure and temperature gauges were used to monitor the effectiveness of the swellable packers and all zones demonstrated isolation. In addition, full scale testing was performed on both water reactive and oil reactive packers at simulated BHT and BHP. Differential pressure testing in excess of 6,000 psi was successfully achieved, fully defining the reliability of the swellable packers for the Norway applications.