Case Study: Customer Drops Pump Pressure by 31% and Uses 50% Less Friction Reducer

• **Challenge**
  – Senior completions engineer with major South Texas operator asked Greenwell to provide Slick Frog pump friction reducer on a CT plug drill-out job, horizontal completion
  – Coil tubing was on location with mixing trailer company
  – Greenwell was informed customer running 0.5gl per 10bbls of market-leading FR
  – Was pumping 2.5bbls/min and 7300psi when arrived

• **Greenwell Solution**
  – Used Greenwell’s Slick Frog at .25gl per 10bbls

• **Results**
  – Experienced drop in pump pressure of 31% (7300psi to 5000psi) once the CT was displaced with a well head differential pressure of 1600psi
  – Noted exceptional performance on surface when mixing with hydration times
  – No ‘fish eye’ effect and consistent dispersion even in recirculated fluids