



Liberty's DFIT Services

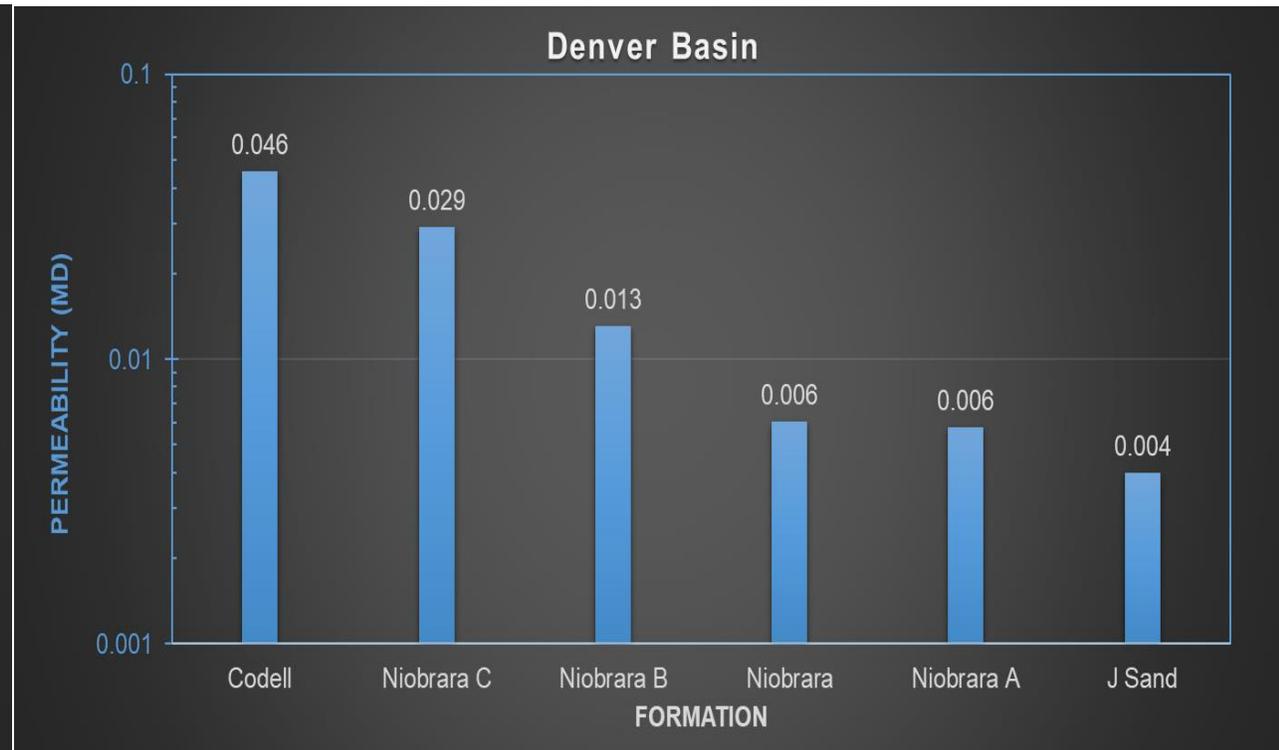
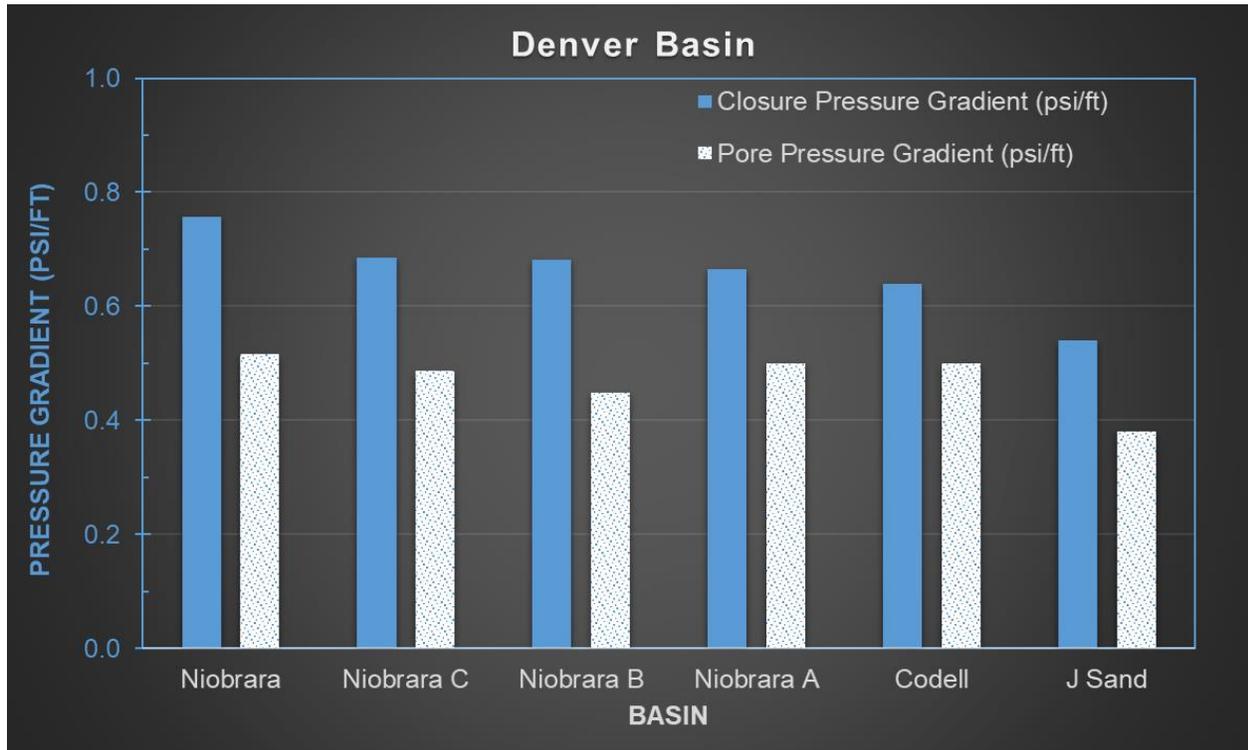
Liberty Engineering Solution



Liberty's DFIT Services

- Offer DFIT pumping services, surface gauges and analysis (performed over 200 tests)
- Extensive experience analyzing DFITs (original development of DFIT theory)
- Estimate important fracture and reservoir parameters:
 - Fracture gradient
 - Closure stress
 - Reservoir pressure (degree of depletion near offset producers)
 - Permeability (or kh)

Liberty's DFIT Database (DJ Basin Example: 80 Wells)



Reservoir Pressure Gradients: 0.38 - 0.52 psi/ft
 Closure Pressure Gradients: 0.54 - 0.76 psi/ft

Permeabilities: 0.004 md - 0.046 md



LIBERTYFRAC.COM