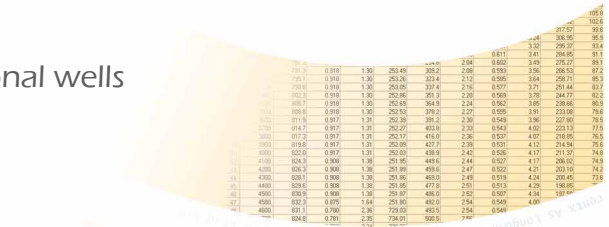
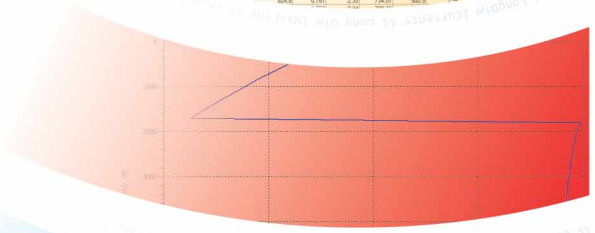
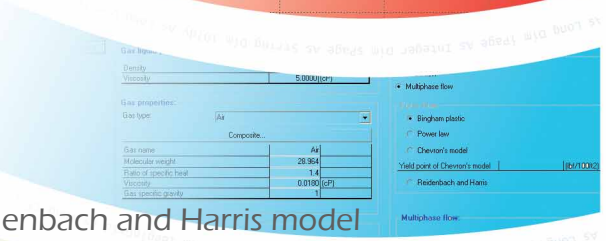
UBDPRO

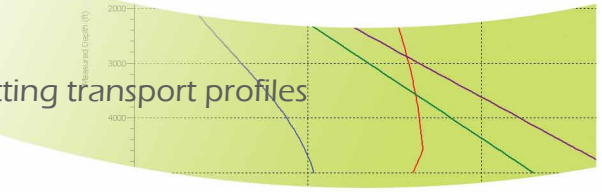
Underbalanced drilling model

Underbalanced drilling is often performed with the primary motivation of reducing formation damage and increasing production, and air / mist / foam drilling fluids are commonly employed. Computer modeling has allowed far better understanding of the managed pressure drilling than was previously possible.









- Compressible fluid hydraulics for vertical or directional wells
- Survey input allows 1000 survey stations
- Up to 40 points for pore and fracture profiles
- Up to 40 points for temperature gradients
- Up to 20 wellbore intervals and 50 pipe sections
- Handle jet sub calculations
- Motor pressure drop
- Handles formation influxes (up to 6 depths)
- Bingham plastic, power law, Chevron's model, Reidenbach and Harris model
- Aerated mud: Beggs-Brill method
- Pressure, ECD, gas volume, density, velocity and cutting transport profiles
- Optimized flow rate design
- MS Word report
- Supports oil field, SI and customized units

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