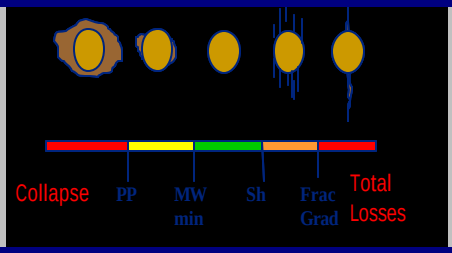
Geomechanics Services

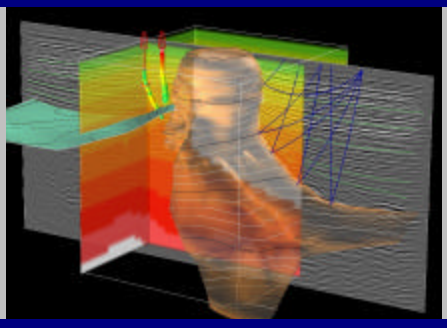
WellSteer

Optimizing drilling and well construction

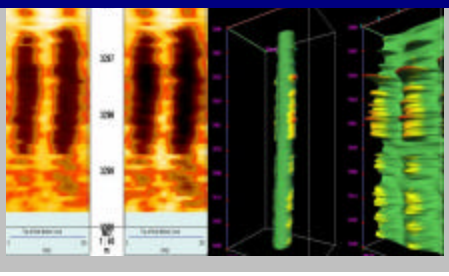
Wellbore – stability forecast defines stable wellbore windows and locates geological hazards.



Rock-strength analysis for optimal well trajectory, wellbore-stability, sand production and drill-bit optimization.



Date audit help identifies the location and causes of drilling and completion problems and help identifies data available and additional information needed to solve the problems



Geomechanics is the science or area that treats diagnosis, analysis and control of rock failure or deformation. This services often referred to as rock mechanics encompass all aspect of drilling and production; from well planning, drilling string design and analysis, casing design, drilling operations, open hole logging and perforations design, completions and production design etc hence the growing importance of this services in E&P operations. Wellbore instability is a major problem during the drilling of many oil and gas wells. It is often quoted as costing the industry between 0.5 and 1.0 billion dollars per year. It currently leads to major difficulties in such diverse areas as the North Sea, Argentina, Nigeria and Tarim Basin. At WellSteer Oilfield Technology Services, we offer wide range of services for our customers;

With our expertise, WellSteer Oilfield Technology Services combine teams in rock mechanics, drilling, geology, geo-physics, completion, and reservoir engineering combine to describe stresses and mechanical properties for a formation and basin. This add value by reducing uncertainty, optimized drilling efficiency and cutting cost on high-risk projects, such as drilling and well completions in tectonically active and deep-water areas.

Applications

- Pore-pressure prediction
- Wellbore-stability forcast and control
- Well location and trajectory optimization
- Sand-production prediction and control
- Reservoir-compaction prediction and control
- Reservoir-stimulation design
- Fractured-reservoir characterization
- Drilling-problem disgnosis
- Earth-stress analysis
- Perforation design
- Mud-weight selection and hole cleaning monitoring

Benefits

- Less nonproductive drilling time
- Reduced uncertainty and costs in difficult drilling
- Real-time building and updating of geomechanics models while drilling
- Elimination of unnecessary casing strings
- Ruduce unnecessary logging cost

For more information, please visit www.wellsteer.com or e-mail services@wellsteer.com