



Integrated Sand Management Services

Sand production is worldwide problem. It always has a substantial impact on the field's development. Sand production from unconsolidated formation reservoirs is a difficult problem.

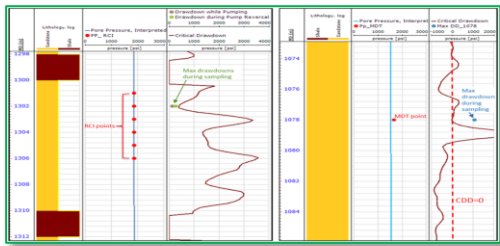
Sand production also limits the flow rate of production, resulting in significant financial losses. Sand management and control are the first steps to take whenever there is a worry about sand production in an area being developed.

In order to cater sand issues GOTS has collaborated with various manufacturers across the world to provide an end-to-end solution to Integrated Sand Management services from surface to sub-surface

Services

Rock Mechanics and Sand Control

- Establish Mechanical Earth model and Calculate CDP to predict sanding tendency and rock stability
- Sand volume allocation on basis of rock mechanics properties
- Field wide and short- & long-term sand management strategy
- Sand control Selection and economic analysis for optimum design philosophy



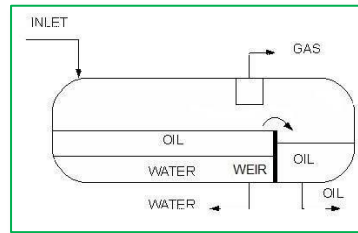
Surface Sand Management Audit and Consultancy

- Audit arm to assess sand situation and assessing gaps & production loss due to sand
- Recommendation of sand management solutions on basis of gaps
- Formulate field wise Sand management guideline
- Erosion-deposition and other risk analysis
- Development of Choke management Plan



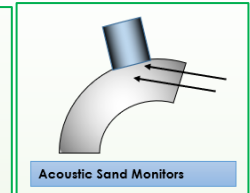
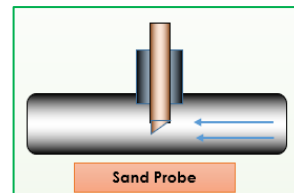
Sand Separation and Handling

- Design and recommendation of desander type for facility
- Collaboration with global suppliers to provide optimize and best technical solution
- Sand-Mapping of entire facility to determine optimum locations of separation devices and type / location of sensors



Sand Sampling & Monitoring

- Acoustic sensor data acquisition, reporting and analysis
- Facility Mapping for sand related erosion and wall loss
- Recommendation of monitoring devices and related supply with maintenance



Digital Solutions

- SandMaster – Industry's first software on sand management risks and optimized risk-free production enhancement
- RockMaster – A unique upcoming application to cater all the formation stability and sand control options
- Interpretation of acoustic sensor
- Providing a dashboard of sand management all across the facility with operating envelopes
- Utilizing a strong data base at back-end of software for data warehousing and facilitating Data Analytics

Sand Management related lab studies

- Quality laboratory testing will help in analysis and evaluation
- Extensive research for new product development.
- Rock mechanics and sand particle size studies including erosion, corrosion & mechanical studies.



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