



Wellbore Isolation and Quality Evaluation

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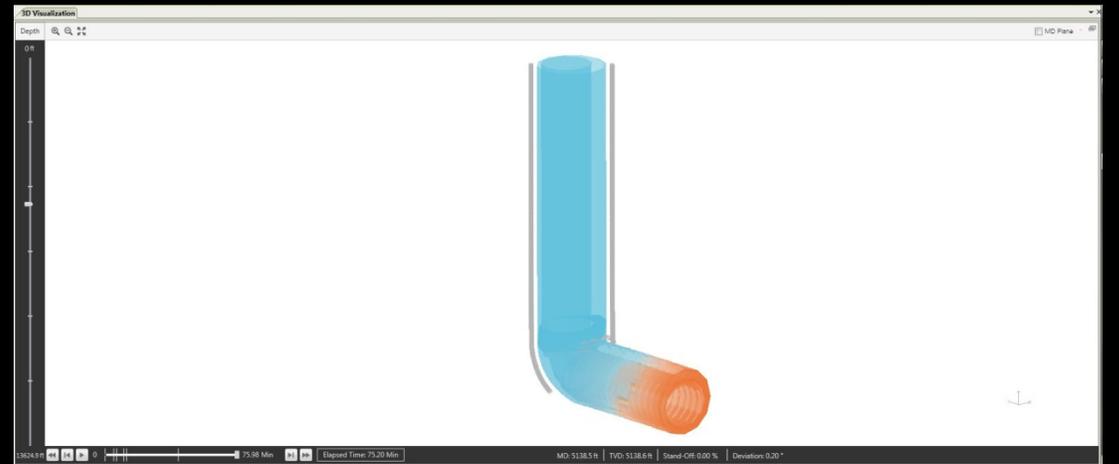
Methods of Wellbore Isolation

- Pumpable Fluids
 - Portland cement based
 - Resin/epoxy based
 - Reduced/non-Portland
 - Composite (Portland/resin)
- Reactive/expandable elastomers
- Annular packers
- Expandable tubular



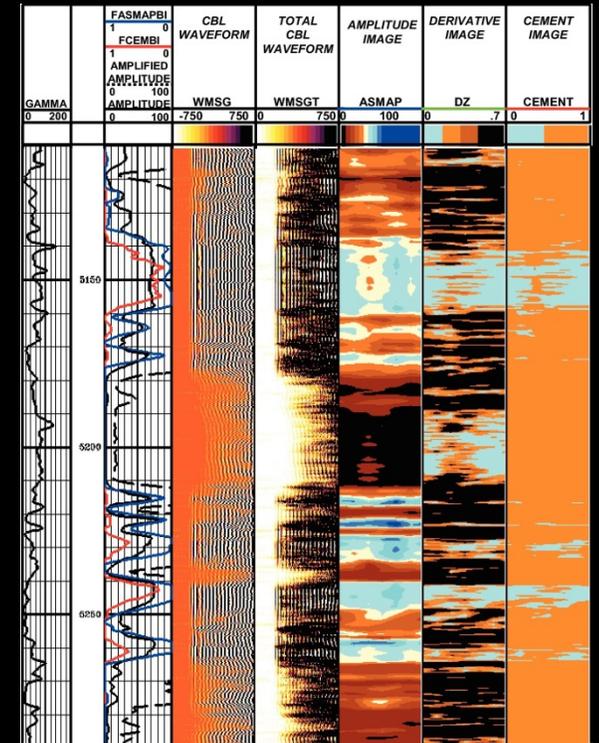
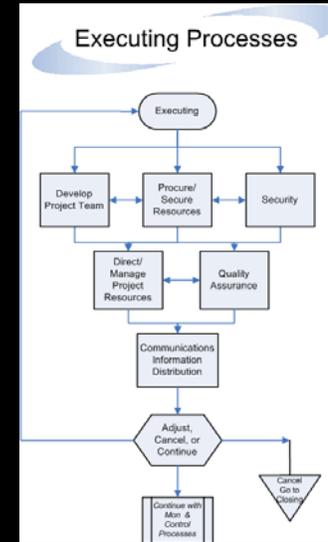
Determining Isolation Needs

- Historical reference
- Sound engineering practices
- Computer simulations and modeling
- “Belt and suspenders”



Evaluating Placement of Isolation

- Design procedure followed
 - Best practices used
- Post-job analysis
 - Pumping or tool setting
 - Pressure matching
- Mechanical testing
- Electronic evaluation



Determining if Isolation is Sufficient

- Case by case
- All parameters must be reviewed
- How much “insurance” is necessary?
- Sound engineering and design practices



THANK YOU

