

Streamlining Completions in H₂S Prone Geohazard Zones with Advanced Fracture Frequency Measurements

Challenge

- + Completing wells in regions with geohazards such as lineaments or faults presents various operational and safety risks, including:
 - Production Implications (Hazardous Gases & Water)
 - Induced Seismicity and Casing Deformation
- + In an area with known sour lineaments, an operator’s procedure required pump-in tests for hazard ID prior to full-stage fracturing.
- + Pump-in tests can be difficult to analyze and prolong each stage resulting in significantly reduced efficiency and increased costs.

Solution

- + Fracture frequency measurements are an early indicator for loss of frac energy downhole and provide real-time identification of connectivity to geohazards, natural fractures or previously created hydraulic fractures.
- + Integrating these measurements with preliminary geological workflows facilitates effective optimization strategies to mitigate interactions with undesirable subsurface features.

Results

- + By utilizing fracture frequency measurements in real-time, the operator eliminated the need for time-consuming pump-in tests, saving an average of 42 minutes per stage (1.3 days/well).
- + Early identification of hazardous zones facilitated targeted decision-making and bolstered confidence to bypass stages at risk of encountering severe geohazards.
- + The adoption of this technology has accelerated operational workflows, significantly reducing costs.

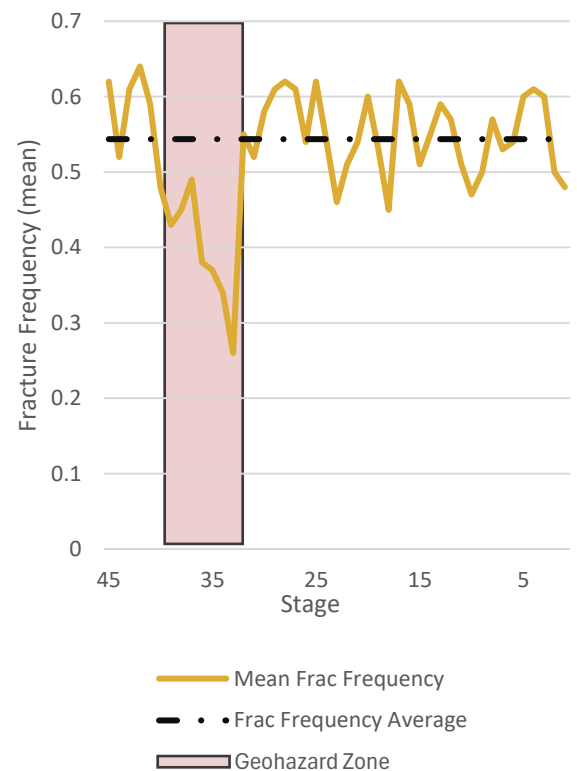
Basin – Delaware

Formation – Wolfcamp A

Location – Reeves County, TX

Producing Well Type – Oil

Fracture Frequency / Stage



Balancing Operational Efficiency with Fracture Effectiveness

For More Information:

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