



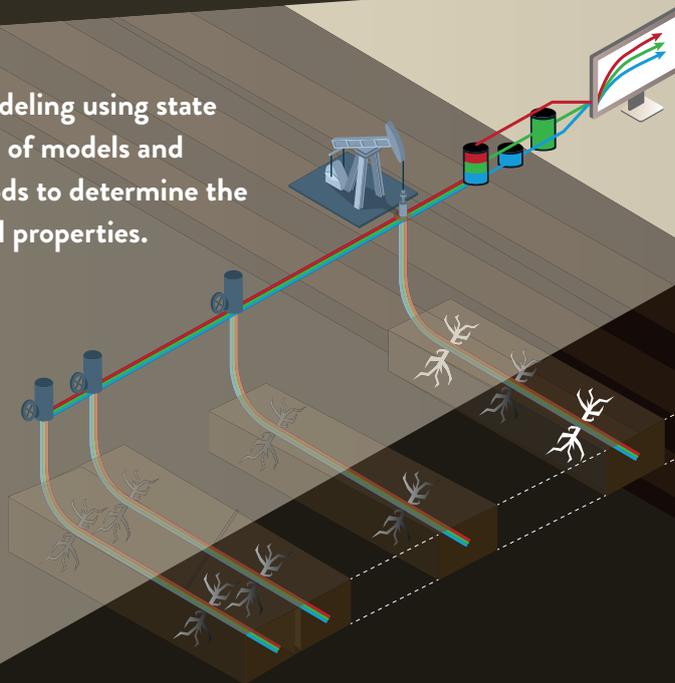
Refracture Evaluation

A PIPE-IT SHALE SERVICE

Which wells to refracture for highest return on investment.

Pipe-It Shale Refracture Evaluation provides an objective assessment of which wells are prime candidates for refracturing. Based on detailed numerical modeling of past performance coupled with insight into the reservoir, a ranking of wells can be delivered based on expected return of investment.

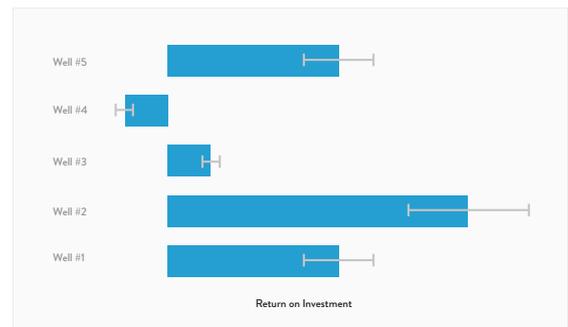
Detailed well modeling using state of art integration of models and numerical methods to determine the reservoir and well properties.



- Fracture Geometry
- Treatment Size
- Geological Description
- Wellbore Hydraulics
- Separator Capacity
- Well Development / Operation

Focus refracturing campaigns on wells with the highest expected ROI

Based on a history matched model with rock permeability determined, it is straight-forward to assess the potential for refracturing and its impact on bottomline economic performance. The history-matched model takes into account local depletion around the existing fractures, and reveals the upside potential of adding new fractures along the wellbore where near-virgin pressure still exist. Our solution also recommends the number of new fractures to maximize economic value.



CHALLENGE:

Which wells to refracture for highest return on investment?

Horizontal wells completed 2–5 years ago have hopefully paid for themselves from high, early transient production performance. Refracturing these wells can potentially lead to production on par with initial production, or better, using recent advances in proppants and fracturing technology, at far lower costs than drilling new wells.

Most operators have many hundreds of horizontal multi-fractured wells that have already passed through their most-prolific production and are currently performing with lower rates.

Which of these wells are most likely to have the greatest potential return on investment due to refracturing?

SOLUTION:

Pipe-It Shale Refracturing Evaluation provides an objective assessment of a single well, section or field that is considered for refracturing, enabling operators to invest in wells with highest likelihood of return on investment.

Features

- Detailed numerical finite difference well model is history matched using readily available completion and production data.
- Assessment of current fracture performance.
- Design of optimal fracture spacing.
- Economic modeling.
- Accurate description of historic and future liquids production, based on detailed numerical modeling and EOS.

Requirements

- PVT description of reservoir (can be supplied by Petrostreamz).
- Completion and Production Data.
- Pipe-It Shale History Matching.

Value Delivered

Candidate wells ranked objectively

- Plan refracturing of the asset to maximize return on investment & NPV.

Identify and recapture lost reserves

- Fracture spacing when the well was first developed may have left reserves, re-fracking can unlock those reserves at a fraction of the cost for drilling a new well.

Guidelines for New Well Fracture Spacing

- Based on re-fracturing assessment, both existing wells can be more efficiently drained but also new wells can produce higher reserves earlier using tighter fracture spacing.

Delivered by experts in Shale Well Modeling

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