

Reservoir Geochemistry Applications in Resource Plays

Reservoir geochemistry is a powerful tool which when deployed effectively can help operators rapidly, and inexpensively, better understand their production and address commonly occurring issues.

This flyer outlines a selection of the main areas in which geochemistry can assist operators in resource plays including the potential deliverables & understanding gained from analysis of your rock and time lapse fluid (gas, oil, water) samples

Reservoir Surveillance

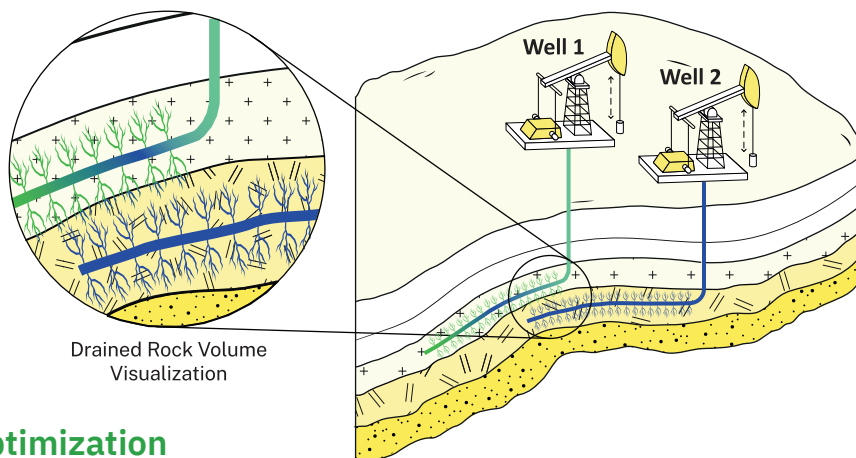
- H₂S monitoring & origin - low cost mitigation strategy
- Prediction production metrics (e.g. 90-day yield, cum. oil)
- Predict flow assurance problems (e.g. wax, scale)

Completion Optimization

- Well interference monitoring
- Refrac evaluation - did the job access new undrained matrix?
- Optimization of frac fluids to avoid reservoir/frac damage

Production Allocation

- Well spacing & stacking optimization
- Well contribution (heel, mid., toe)



Landing Zone Optimization

- OOIP/GOR
- Maximum mobile oil
- Highest mobility intervals (lowest viscosity)

Well Integrity Issues

- Origin of sustained annulus pressures
- Identify depth(s) casing leaks are occurring

For further information on the specific tools and workflows APT deploys to address the issues above please contact us at the details below:

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