Asset Evaluation
Quick-turnaround subsurface evaluations for M&A and A&D activities

INDUSTRY CHALLENGES

Time
Decision time is critical when acquiring or divesting new mineral leases, requiring fast and accurate subsurface evaluations.

Valuation
Whether buying or selling an asset, knowing the right price relies on the remaining hydrocarbon reserves and the economic landscape.

Certainty
In mature developments, being certain of hydrocarbon volumes in place and options for infill or step-out drilling opportunities allows for better decision-making.

GEOSCIENCE AND ECONOMIC SOLUTIONS

ADVANTAGES
• Accurate evaluation and advice on acquisitions and divestitures from experienced independent geoscience consultants
• Subsurface evaluations and recoverable hydrocarbon volume estimates within 30 days, provided by an integrated geoscience resource team
• Unbiased assessments and subsurface evaluations for drilling, acquisition, and divestiture decisions
• Economic assessments for asset valuations and commercial reserves

EVALUATION IN 30 DAYS HELPS CLIENT BRING ASSET TO MARKET FASTER
CGG completed a client project for the sale of an asset in Sterling County, Midland basin, Texas. The project used wireline logs, organic geochemistry data, petrophysical analysis, and 3D seismic across the study area. The integration and interpretation of these data sets helped calculate the original oil in place (OOIP), which was used for economic valuations. Results were delivered in 30 days and used to actively promote the sale of the asset to the market.

Integration of multi-disciplinary subsurface data sets to deliver expedited subsurface evaluations.
ASSET EVALUATION DELIVERABLES

Subsurface evaluation

- Formation correlations and isopach mapping
- Source rock evaluation
- Petrophysics (Net:Gross)
- OOIP volumes and maps

Production analysis

- Decline curve analysis
- Production history matching – remaining reserves in place

Economics

- Commercial remaining reserves in place

ASSET EVALUATION ADD-ONS

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<th>Description</th>
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<tr>
<td>Pore pressure analysis</td>
<td>The study of how pressure within rock pores varies within the subsurface - hydrocarbon drive assessment.</td>
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<td>GeoAnalytics</td>
<td>Advanced data analytics to identify production performance drivers within the subsurface from the integration of seismic, geology, and engineering data.</td>
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<td>3D petroleum systems modeling</td>
<td>Dynamic modeling of hydrocarbon generation, migration, and accumulation within the subsurface over geological time. Discover where hydrocarbons reside at the present day.</td>
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