

# Reserve Engineering & Geosciences



**Ralph E. Davis Associates LLC (RED)** is an industry-leading petroleum engineering and geosciences firm committed to meeting the individual needs of our clients. We accomplish this by adhering to the highest standards of integrity and professionalism to deliver honest, in-depth and actionable insights to help our clients achieve their strategic objectives. We combine reservoir engineering, geosciences, advanced data analytics and economic analyses to provide our clients with individual, customized solutions. Upstream oil and gas exploration and production companies, private equity firms, financial institutions and law firms around the world place their trust in our unrivaled upstream oil and gas expertise. And, if needed, we can also leverage Opportune LLP's experienced bench of experts in transactional due diligence, tax advisory, investment banking, restructuring and valuation.



## Areas of Expertise:

- Reservoir Engineering & Geosciences
- Economic Forecasting & Reporting
- Data Analytics & Geospatial Analysis

## Reservoir Engineering & Geosciences

Our staff of experienced petroleum engineers and geoscientists combine a deep understanding of petroleum engineering and operations, geology, economics and advanced data analytics to provide clarity and actionable insights—no matter the complexity or uniqueness of the situation. By using our understanding of reservoir engineering and geosciences, we ensure our clients' economic

success by delivering comprehensive, individual solutions that deliver positive economic outcomes and actionable results.

### Here are some of the solutions we offer:

- Technical studies and reserve reports
- Basin analysis and type curve preparation
- Field development planning
- Merger, acquisition and divestiture evaluations

- Buy-side advisory (technical or broad, full evaluation or specific topics)
- Sell-side advisory (technical, operational and commercial diligence, management presentation, VDR)
- Certification of reserves and Competent Person's Reports
- Field development studies
- Portfolio analysis and risk assessment
- Geological studies
- Management consulting and talent assessment
- Expert witness testimony and litigation support

## Economic Forecasting & Reporting

We offer comprehensive technical and economic analyses to provide a complete, independent, accurate and detailed assessment of the value of your assets. We have deep expertise in evaluating producing and undeveloped properties, both domestic and international, to estimate the amount of hydrocarbon reserves to be recovered and the future value to be received from the sale of volumes produced. Whether you need an independent reserve report or need a partner who can provide technical due diligence in support of an acquisition or divestiture, we have you covered.

### The following are some of the solutions we offer:

- Production forecasting
- Development planning
- Petroleum economics
- Preparation of Competent Person's Reports and reserve reports
- Asset value determinations

## Data Analytics & Geospatial Analysis

Our clients need sophisticated analytical tools and sound data management to quickly gain deep, actionable insights. We stay ahead of the curve with the latest data analytics tools and modeling software in order to paint a complete and accurate picture of resource potential and reserve categorization within a given portfolio, geographic location or to execute an acquisition or divestiture. RED team members are proficient in Aries, PHDWin, Access, Spotfire and various other petroleum engineering products. In addition, we subscribe to a broad array of data services through Enverus (formerly Drillinginfo), PLS and others through Opportune LLP (i.e., CapIQ, etc.).



### The following are key resources we routinely leverage to deliver client results:

- Data analytics (type well profiles, spacing analysis, multivariate analysis)
- Data management and conditioning
- GIS mapping

## Key Contact

**Steve Hendrickson**, President  
Ralph E. Davis Associates  
shendrickson@ralphedavis.com

**Opportune LLP** is a leading global energy business advisory firm specializing in adding value to clients across the energy industry, including upstream, midstream, downstream, power and gas, commodities trading and oilfield services. Opportune's service lines include: complex financial reporting, dispute resolution, enterprise risk, investment banking, outsourcing, process and technology, reserve engineering and geosciences, restructuring, strategy and organizational design, tax, transactional due diligence and valuation.