RYDER SCOTT

GEOSCIENTISTS

PETROLEUM ENGINEERS

TECHNICAL ANALYSTS

NUMBERS TO COUNT ON

REPORTS TO BANK ON

PROFESSIONALS TO BELIEVE

TOOLS TO MAXIMIZE PRODUCTIVITY

HISTORY TO BUILD ON

SERVICES TO ADD VALUE

OIL/COND. BARRELS (A)

GAS MMCF

Independent petroleum consultants are judged by several measures. How much value they add to your evaluation processes. How effectively their report findings mitigate operational and technical risks. What credibility the report is accorded by key decision-makers. How much the consultant contributes to your company's bottom line.

At the end of the day, results are what matter the most. Ryder Scott Company Petroleum Consultants delivers those results — by any measure.

-NET RESERVES---

OIL/COND.

RRELS (A)

G A

MM (

By any measure, num

S (A)

MMCF

Numbers to count on

In the upstream petroleum industry, managers base their decisions on numbers derived from technical and economic analyses. Whether it's estimated petroleum reserves, future production rates or expected net income, management often needs outside reassurances that those figures are reliable. A Ryder Scott independent property appraisal is a widely accepted assurance of asset value by the worldwide oil and gas industry.

Experts you can trust.

Experts to trust

We pride ourselves on providing personal service. Ryder Scott is committed to satisfying the individual needs of its clients. This helps build the long-term business, professional and personal relationships that are so important in working together toward a common objective. We work closely with client personnel to maximize the exchange of ideas and data between companies.

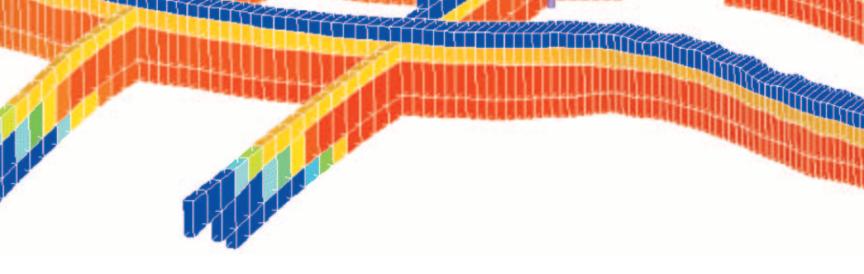


bers you can count on

Ryder Scott has no agenda except to provide the most reliable answers. Our firm's compensation is in no way tied to the findings of its scientific investigations. Ryder Scott prohibits employees from owning interests in oil and gas properties. Our independent opinions are based on our best judgments and on scientific analyses.

At the end of the day, results are what matter the most. Ryder Scott Company Petroleum Consultants delivers those results — by any measure.





Reports to bank on

Ryder Scott is among a handful of large, established consultants that issue reserves certifications considered to be consistently reliable by the financial community at large, including commercial, investment, development and mezzanine banks as well as private investment groups. The Ryder Scott independent report helps mitigate risks in committing capital for acquisitions, exploration, field development, redevelopment, infrastructure and refinancing.

Hundreds of major financial institutions have established reserves-based loan amounts, monitored credit lines and determined guarantees based on the values in our reports. The Ryder Scott report also serves as an essential resource in screening and due-diligence reviews of potential acquisitions, divestitures and mergers.

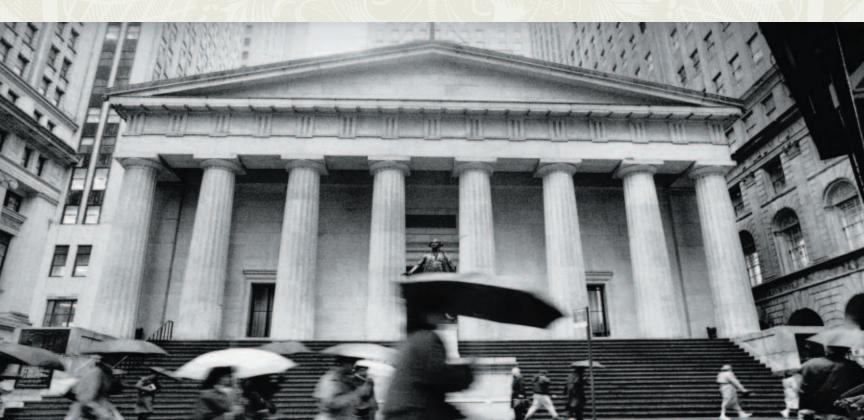


Ryder Scott is among a handful of large, established consultants that issue consistently reliable reserves certifications.

Companies continually list us as their consultant.

Reserves certifications to ensure compliance

Ryder Scott, by far, is the most widely used consulting firm in the world for preparing year-end reserves certifications in accordance with U.S. Securities and Exchange Commission guidelines. In ongoing reviews of annual reports by a leading independent research firm, oil and gas companies continually list Ryder Scott as their consultant of record by a significant margin over the nearest competitor. The firm also determines reserves values related to public equity and debt offerings while ensuring reporting compliance with regulatory agencies the world over. Outside of the U.S., our clients are listed on the London Stock Exchange, Toronto and Ontario stock exchanges, Hong Kong Stock Exchange, Australian Stock Exchange and others.



Experience levels of Ryder Scott professionals average more than 20 years per person.

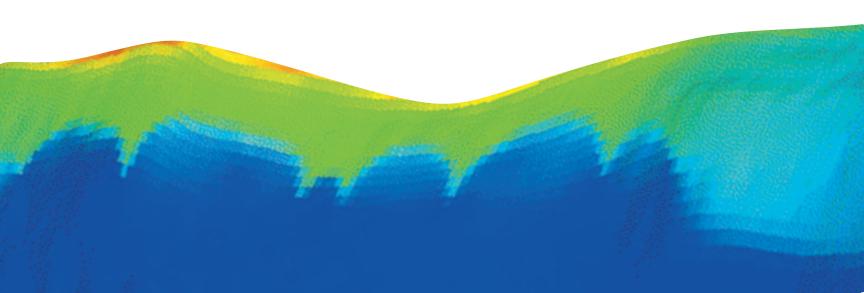
Behind every report are the Ryder Scott experts. Over the years, Ryder Scott has recruited and assembled top geoscientists and engineers—highly educated and honed by decades of experience. Over and over again, our professionals have earned respect by successfully tackling the toughest reservoir-evaluation challenges in the world.

Petroleum reservoir evaluations are a mix of scientific judgment, computer-driven iterations and

Professionals to

intuitive reasoning. In an age of advanced technological sophistication, skillful interpretation is an indispensable tool. When results have to be analyzed, "black box" science is no match for the human factor.

Experience levels of Ryder
Scott professionals average more
than 20 years per person. Work
histories vary from experience with
small independent producers to
supermajor integrated energy
companies. Our professionals'
various educational, cultural and
work backgrounds blend together
to create a diverse, yet cohesive,
task-oriented team dynamic.





Our hands-on experience is evident in small ways every day.

believe

Our hands-on experience is evident in small ways every day. Our seasoned geoscientists and engineers are just as comfortable making hand calculations on the back of an envelope as using sophisticated computer programs. We find computer-caused errors when the output just doesn't look right. We are familiar with the algorithms and methods behind the automated computations.

By the same token, Ryder Scott professionals are highly proficient in using the latest hardware and software applications. Since 1937, Ryder Scott's recipe for success has been to hire the best, give them the finest tools and direction to do their jobs and let their motivation and desire carry projects through to successful conclusions.

Our technicians and analysts are highly trained and experienced, providing expert support to the professional staff. Through the efficient use of these support personnel, Ryder Scott provides high-quality services at reasonable costs.

Integrated disciplines to provide dependable answers

Our geophysicists, petrophysicists, geologists, reservoir engineers, modelers and technical analysts work within their areas of expertise, seamlessly combining their skills in close-knit, integrated teams. That synergistic, multidisciplinary approach facilitates the most precise, dependable, scientific studies possible.







In cases where an optimal commercial application is not available, Ryder Scott software developers will create one.
As a software licensor, the firm builds proprietary programs and distributes them to its clientele.

Tools to maximize

Late in the 20th century, powerful, high-end personal computers began rivaling Unix-based workstations in their processing capabilities. Ryder Scott has stayed current with this and other developments in computerization through periodic reviews. We use next-generation, fully integrated computer systems in analyses from seismic interpretations to economic examinations. This includes hardware with optimum 3D graphics speeds and maximum computational horsepower.

A personal computer or workstation on every desk does not guarantee the efficient application of advanced technology. However, we believe that providing our professionals with highly developed tools to do their jobs will help produce superior work products.

Ryder Scott personnel use software ranging in complexity from simple spreadsheet programs to powerful 3D visualization applications. After years



of testing, we now use the most robust decline-curve/material balance/economics program in the industry. The commercial application meets rigorous consulting standards and offers more functionality for maximum efficiency. We are also accomplished users of other subscription-based, major decline-curve/economics programs.

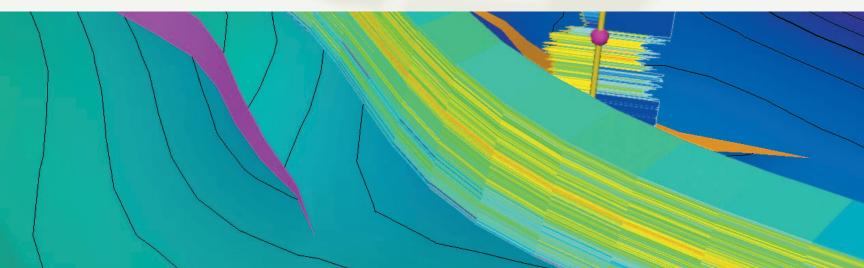
In cases where an optimal commercial application is not available, Ryder Scott software developers will create one. As a software licensor, the firm builds proprietary programs and distributes them to its clientele.

productivity

Ryder Scott-owned applications include those in map-based graphics, pressure-transient analysis, nodal analysis, gas network and deliverability modeling, waterflood pattern balancing, decline-curve analysis, material balance and cashflow economics.

Our clients use a variety of software packages and our challenge is to be proficient in every one. This includes the latest-version programs to conduct studies ranging from prospect analyses to complex economic modeling.

Our product is embodied in the universally recognized Ryder Scott "green book" independent reserves report. The Ryder Scott in-house reprographics department uses advanced graphics and printing systems to produce the reports.





History to build on

Harry M. Ryder and David Scott Jr. formed the partnership after being asked for technical assistance.



Ryder Scott Company Petroleum Engineers began operations in Bradford, PA, in 1937. Formerly an oil producer in the early to mid 1930s, the later venture was the first engineering firm and research laboratory in the world devoted to solving waterflood problems. Harry M. Ryder and David Scott Jr. formed the partnership after being asked for technical assistance by producers who had noticed the success of Ryder Scott-engineered waterfloods in the Bradford field.

The firm originated several techniques. Donald T. May, the first employee, pioneered chip-coring analysis to provide accurate petrophysical data from a single plug of sand. Ryder, an electrical engineer, developed selective shooting. That well-completion technique focused on selecting correctly sized and placed nitroglycerin shots to fracture and stimulate the producing formation.

The firm continued to implement the best techniques under total engineering control to slow the production decline in the Bradford area during the 1940s. Ryder Scott used selective plugging in water-injection wells. The firm recommended improvements in core acquisition, logging, completion practices, injection water quality and pressures, well spacing and oilfield equipment.



With the Bradford area's inevitable decline in the 1950s, Ryder Scott moved to Wichita Falls, TX, to design successful secondary recovery projects. In the 1960s, Ryder Scott acquired Robert W. Harrison & Co., moved to Houston and transitioned from waterflood design to evaluation engineering. Today, Ryder Scott Company Petroleum Consultants bears little resemblance to the fledgling core-analysis laboratory of the 1930s. However, the firm still retains the principles of its founders—that oil and gas projects be evaluated and engineered to the highest professional and ethical standards.

With offices in Houston, Denver and Calgary, the firm performs more than 1,000 consulting studies a year for major, independent and state-owned oil and gas producers as well as for pipeline companies, investors, banks, government agencies and accounting and law firms. Ryder Scott has earned worldwide recognition for several landmark international studies. Details are posted on the firm's Web site at www.ryderscott.com.



Services to add value.

Ryder Scott provides a complete range of professional engineering, geoscientific and economic evaluation services.

General

- Certification of oil, gas, condensate and plant product reserves
- Integrated field studies
- Drilling and development program studies
- Equity determinations/ redeterminations
- Well completion and workover recommendations

Geoscience

- Prospect analyses
- Exploration portfolio analysis
- Reservoir description
- Petrophysical analysis
- · Geocellular modeling
- Reservoir characterization
- 2D, 3D seismic interpretations

Enhanced Recovery Services

- Enhanced recovery studies and feasibility reports
- · Design of fluid injection projects
- Unitization studies
- Horizontal drilling studies
- Thermal recovery evaluation

Natural Gas Studies

- · Gas deliverability determinations
- Gas storage projects selection, design, evaluation and monitoring
- · Coal seam gas recovery
- Evaluation of low permeability reservoirs

Reservoir Simulation

- Single-well quick-look models
- · Integrated full-field studies
- Black oil and compositional formulations
- Detailed geological models for complex fault systems
- Geostatistically derived petrophysical descriptions
- Simulation-driven reserves determination processes

Economic Services

- Appraisal of oil and gas properties
- Fair market value determination
- Investment and management counseling
- Software development

Expert Witness Testimony

 Expert testimony before state and federal regulatory bodies and courts of law

- Arbitration services
- Litigation support

Management Advisory Services

- Advisor to boards of directors
- Contract analysis and evaluation
- Development plays in producing trends
- Exploration portfolio strategic planning
- Gas storage management
- General consulting services for national oil and gas companies
- Internal reserves audits for major E&P companies
- Litigation/arbitration and conflict-resolution support
- Marketing analysis and strategies
- Negotiation strategies
- Petroleum advisor to investment banks
- Privatization consulting
- Process standardization
- Reserves management systems development
- Reservoir simulation candidate selection
- Training seminars/custom manuals



OIL/COND. RRELS (A)

GAS MMCF

3,717,875 80,500 0 99,750 3,718 11,959 3,054 220

NET RESERVES---

L/COND.

GA:

Ryder Scott Company, L.P. 1100 Louisiana, Suite 3800 Houston, Texas 77002-5218 Office: 713-651-9191 Fax: 713-651-0849

Ryder Scott Company, L.P. 600 Seventeenth Street, Suite 1610-N Denver, Colorado 80202 Office: 303-623-9147 Fax: 303-623-4258

Ryder Scott Company — Canada Suite 1100, 530 - 8th Avenue S.W. Calgary, Alberta, Canada T2P 3S8 Office: 403-262-2799 Fax: 403-262-2790

Web site: www.ryderscott.com

E-mail: info@ryderscott.com

