



Our scientists have pioneered new approaches to solving problems that benefit our clients daily.

Here are some of the questions we have helped our clients to answer:

- How can I achieve multiple goals in my schedule when the schedule is constantly subject to break-ins?
- How can I use my data to best plan for new drilling programs?
- How can I “see” the consequences of my operational plan?
- How can I integrate my strategic and tactical planning so I get a long-term plan that can be implemented?
- What is my best approach to scheduling steaming operations?
- How should my planners integrate bidding on new leases and scheduling current drilling operations?
- How should I allocate resources among my three business units when we’re unsure about the success of their operations?
- How can I improve my current, stressful scheduling process, in which we are constantly dealing with the unexpected?



About VGO Oil & Gas

We deliver the following services to our clients:

Opportunity Assessments to identify, capture, and plan for new ways to increase profit and improve operations

Simulations for decision support and planning

Optimization Systems for support of tactical and strategic operations

Data mining Results and Advanced Analytics to leverage the value of your data

Systems for planning under uncertainty and risk

To create these benefits, VGO Oil & Gas relies on a variety of talented experts, many with international reputations. Our team is comprised of professionals from the oil & gas industry, industrial optimization experts, simulation software development and application experts, and project managers with extensive experience in planning, project management, and consulting.

We understand business and science. By combining both industry knowledge and innovative technology, we develop practical solutions for complex, non-linear, and difficult problems.

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Value Assessments

Modeling/Simulation

Integrated Optimization

**Advanced Data Mining
and Analytics**

**Planning Under Risk and
Uncertainty**



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Tried and true techniques integrated with new scientific advances achieve operational efficiency and increased profits

Benefits of VGO Oil & Gas Solutions

Core Business

- Improved profitability
- Increased efficiency
- Reduced uncertainty
- Better management of risk

We can help you:

- Identify opportunities to create value
- Manage uncertainty and risk by simulating real operations
- Create better plans under uncertainty
- Leverage the value of your data through advanced data mining
- Integrate advanced analytics into your work processes thus achieving operational efficiency

Some of our oil & gas applications

- Optimal sequencing of drilling wells
- Multi-year optimization plans for pipelines
- Scheduling steaming operations for heavy oil
- Real time data mining to improve benefits of well monitoring
- Integrated scheduling of production and pipeline operations
- Scheduling of oil field surface maintenance operations



With a VGO Oil & Gas simulation customized for your environment, your decisions can take into account the economic consequences of operational alternatives.

The output can help identify the impact of policies and procedures and quantify the effect of a change. The best choices may be surprisingly counter-intuitive.

And you can evaluate results in a decreased time horizon for forecasting, one that approaches real time. During a crisis or disaster, you have the flexibility to reallocate resources.

Everyone knows there is no perfect information or perfect predictability. But under conditions of complexity, uncertainty, and risk, a VGO Oil & Gas simulator based on new algorithms will provide good, usable solutions quickly—and save millions of dollars.

VGO Oil & Gas Delivers

- An **Assessment** that will let you understand how cutting-edge techniques can help you find value opportunities
- **Data Mining** that will help you find answers to your most pressing questions in your own data
- **Modeling and Simulation** that will put in your hands a way to see the consequences of your actions and build a better plan
- **Optimization** that will give you a way to plan and schedule with confidence, taking risk and uncertainty into account

Our solutions take into account operational constraints, economic considerations, and the need to satisfy multiple goals.

