

Spotfire® Industry Pro for Energy

Driving success in a dynamic industry

The upstream oil and gas industry is defined by inherent subsurface challenges and market volatility, demanding unprecedented speed and precision in decision-making.

Exploration and Production (E&P) companies face intense pressure to maximize recovery, accelerate drilling, and optimize completions to reduce non-productive time (NPT), and must vigilantly manage asset infrastructure to ensure operational safety and regulatory compliance. Moreover, with commodity price fluctuations, achieving operational efficiency and cost reduction through the digital oilfield remains a top priority.

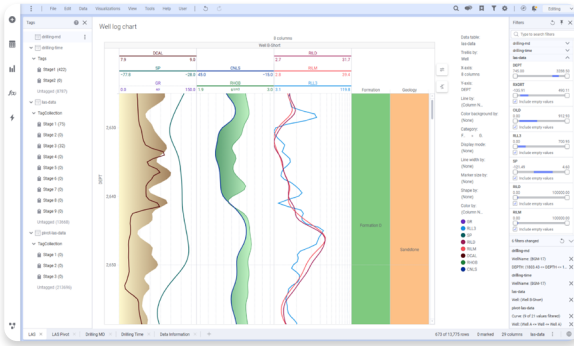
Success in this environment requires a powerful analytical solution that can instantly synthesize vast amounts of complex subsurface, asset, and operational data into clear, actionable insights for engineers and geoscientists.



Spotfire analysis showcasing statistical funnel plot

Spotfire® Industry Pro for Energy

Spotfire® Industry Pro for Energy is uniquely built to solve complex upstream energy use cases – spanning exploration and reservoir interpretation, planning and forecasting, field development, and production operations – in a single platform. It empowers oil & gas engineers and domain experts to explore, analyze, and collaborate across complex subsurface, drilling, production, and operational data, without relying on rigid specialist tools. At the same time, users with a data science background profit



Spotfire analysis showcasing well log chart

from the low-code environment of Spotfire® Industry Pro for Energy. By unifying interactive energy-specific visualizations, advanced analytics, and AI-assisted insights, Spotfire® Industry Pro for Energy helps engineers turn high-volume, high-variety energy data into confident, timely decisions.

Product capabilities

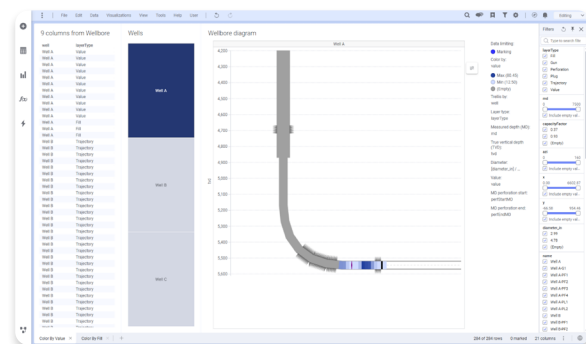
With its industry-specific capabilities, Spotfire® Industry Pro for Energy empowers users to run their Oil & Gas operations at an industrial scale:

- **Unified analytical canvas** that supports both highly interactive exploration, agile analysis, and visual data wrangling.
- **Geospatial analytics:** Moving subsurface experts beyond static maps toward integrated spatial, temporal, and streaming data, enabling visual exploration of spatial relationships, contextual anomaly detection (drilling/production), and outcome simulation in complex geographies (well networks, reservoirs).
- **Industry-native:** Combining domain data, purpose-built visualizations, and specialized algorithms.
- **Single environment for all analytical workloads:** Eliminating the need to switch between generic BI tools and specialized engineering software.
- **Designed for cross-domain collaboration:** Enabling engineers across different subspecialties to work together on the same analytical context.

Energy visualizations

Spotfire® Industry Pro for Energy offers numerous advanced, Oil & Gas-specific visualizations. They are designed to be interactive and highly customizable, allowing geologists, reservoir engineers, and production engineers to explore and analyze their data in ways tailored to the energy industry's unique needs. As a result, users can solve complex data challenges that cannot be addressed by a single product alone. Examples of these visualizations include:

- **Well spacing (“gun barrel”) diagram:** Analyze spacing between wells to identify and plan upside well locations to improve production.
- **Well log chart:** Visualize physical, chemical, electrical, or other well log properties of rock and fluid mixtures by depth to evaluate optimal reservoir production.
- **Wellbore diagram:** Schematic wellbore diagram depicting the geometry and position of key completion components like casing diameter, guns, perforations, and plugs. Visualizing data along the wellbore, like pressure or fluid/proppant intensities.
- **3D surface and line chart:** Immersive 3D visualization of wells and formations showing trajectory, positioning, and placement, assisting in planning drilling activities and evaluating production.

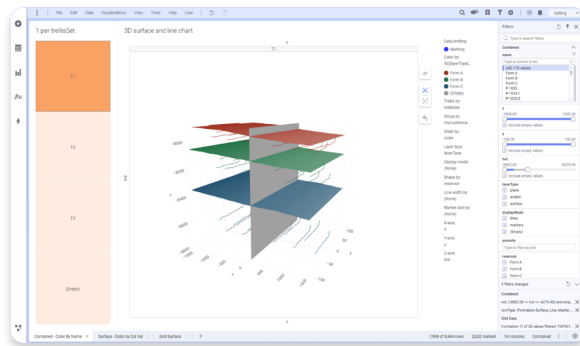


Spotfire analysis showcasing wellbore diagram

Data sources and integrations

Spotfire® Industry Pro for Energy integrates various energy-specific data sources and tools, enabling users to analyze a wide range of data across the oil and gas value chain.

- **Key data sources:** Well logs (LAS), seismic attributes, 3D grids, historians / SCADA, production databases, drilling and completions data, geodatabases.
- **Integrations:** Snowflake, AVEVA PI, ESRI, Cognite, SQL Server, Apache Spark SQL, SharePoint (30+ native connectors). Any JDBC or ODBC data source.



Spotfire analysis showcasing 3D surface and line chart

Use cases

The robustness of Spotfire® Industry Pro for Energy enables Oil & Gas companies to address mission-critical use cases across the value chain:

- **Production optimization:** Increase recovery and cash flow by identifying the highest-value intervention and workover opportunities, reducing delays, and extending well and asset life.
- **Asset valuation:** Improve deal confidence and returns by evaluating assets holistically, integrating subsurface, production, and economic signals to support more accurate bidding, acquisition, and divestment decisions.
- **Reservoir characterization:** Reduce subsurface uncertainty and development risk by building a clearer, integrated understanding of reservoir behavior, enabling better development planning and capital allocation.
- **Production forecasting:** Strengthen planning accuracy by forecasting production more reliably, supporting realistic reserves estimates, investment decisions, and long-term portfolio planning.
- **Scenario analysis:** Make better, faster strategic decisions by testing development strategies, well placement, spacing, and commodity price assumptions, all while understanding the impact before committing capital.

Spotfire & Snowflake: Accelerating energy operations

Finding and producing oil and gas at an industrial scale is inherently complex. It requires synthesizing insights across a vast range of technical data types trapped across specialist tools, including seismic attributes, reservoir simulation, geology, geochemistry, geophysics, drilling and directional surveys, completions, production, SCADA, and well test data.

By integrating directly with Snowflake, Spotfire provides governed access to critical upstream data and enables analysis of your data where it already resides. Spotfire brings data to life through domain-specific visual analytics, enabling engineers to visually explore well performance, surface risks, compare assets, and investigate anomalies, while Snowflake handles scalable queries and data management. The result is a single, trusted analytical environment that accelerates insight discovery and improves day-to-day decision-making across the organization. Since Spotfire fully supports Snowflake's latest authorization tooling, you can provision and secure shared analytical workflows to support your suppliers, joint ventures, and M&A processes.

Together, Spotfire and Snowflake provide a strong unified data foundation, enabling companies to unlock the value of their data at scale and accelerate the creation of actionable insights.



Spotfire analysis showcasing well spacing diagram

Ready to learn more? Visit <https://www.spotfire.com/solutions/oil-and-gas> or start your free Spotfire trial via <https://buy.spotfire.com/try/>.



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Spotfire® is a visual data science platform that makes smart people smarter by combining interactive visualizations and advanced analytics to solve complex, industry-specific business problems.

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24Feb2026