

Spotfire® for Energy - Exploration

Industrial AI & Analytics for Geoscience, Subsurface, Reservoir Characterization, Asset Valuation



Executive summary

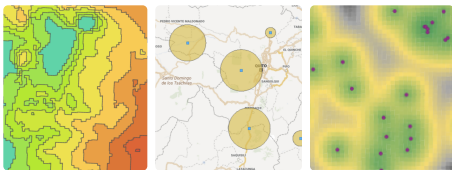
Spotfire is an Industrial AI & Analytics Platform that helps engineers and scientists across the energy sector move faster from data to decision. Hands-on extension points and AI-driven code and visualization generation let casual users and developers build fit-for-purpose, reusable applications spanning subsurface, geoscience, and asset valuation through production optimization and midstream/downstream operations — without waiting on specialist tools or IT.

Spotfire delivers an immersive, brush-linked experience for exploring data drawn from multiple energy-specific sources, visual components, and geospatial layers — letting users move fluidly across scales, from a single well to a full asset. That same analysis is one click from becoming a governed, interactive enterprise application on the Spotfire Server — instantly distributed to authorized users at scale, across massive data volumes. Powering it all is a run-anywhere, hybrid deployment model that integrates AI vibe-code developer environments while optimizing cloud and token usage, so scale never comes at the cost of efficiency.

Exploration, Geoscience & Subsurface analysis

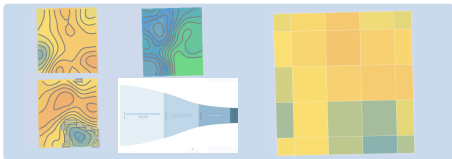
Connectors	Visualizations	Data Functions	Actions	Accelerators	Spotfire Agents
20+ published energy connectors: LAS, OSDU, AVEVA PI, OPC-UA, SEG-Y, ArcGIS	Well log, well spacing, wellbore, stiff diagram, 3D surface, rig calendar, Polar plot	Geospatial, time series and data science packages in Python & R.	One-click analytics: petrophysics, well trajectory, smoothing, well log templates, QC charts	Persona-driven applications for drilling, production, trading, and midstream workflows	Ambient AI chat, insight agents, ecosystem agents, advisor agents, agent registry

Exploration, Geoscience & Subsurface analysis



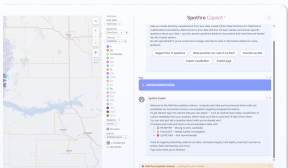
Geoscience & Geomatics

- Multi-layer-maps, with data science calculations within and between layers, via interactive markings
- Geospatial Library: spatial joins, buffers, grids, kriging interpolation, contours & heatmaps
- ESRI feature-layer integration & CRS transforms
- Data integration from multiple engineering personas



Asset Valuation

- Analysis of VDR, syndicated, proprietary data - bids
- Geologist and reservoir engineer economic analyses
- Prediction from petrophysics data in subsurface zones
- DCA, Type Curves, Probit plots, Financial cash-flow analysis, Monte Carlo simulations



Spotfire AI - Agentic Copilot; Insight; Advisory & Ecosystem Agents

Spotfire Agentic Copilot

chat with data, visuals, and workflows; AI-generated code and visualizations.

Insight Agents

automatic insight detection and explainable analyses in the visual UX.

Advisor & Ecosystem Agents

Well Completions Advisor; A2A, MCP (eg Databricks, Snowflake).

Value

Discover Insights

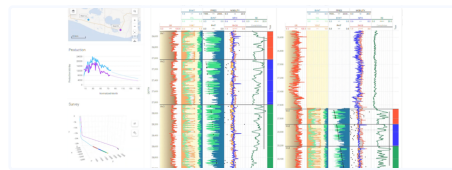
Unify subsurface, geoscience and production data to understand behavior and characterize the asset.

Surface Risks Early

Detect anomalies, drift, and developing failures before they impact production or cost.

Drive Asset Assessment and Operations

Optimize exploration by integrating data from across upstream data domains for informed decision making.



Well Log Analysis

- Multi-track well log analysis with formation tops, completions intervals, point values (eg pressure by depth)
- Spotfire Actions for petrophysics calculations
- Geospatial library enables surfaces in subsurface for prediction of petrophysics by depth -> asset valuation
- Brush-linked production, deviation etc. on markings



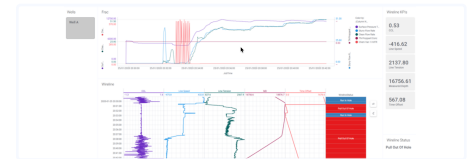
Reservoir Characterization & Field Development

- Integrate well log, seismic, and production data to characterize reservoir behavior and de-risk field development
- Seismic attributes analysis for reservoir characterization
- A&D opportunity screening and integrated field development scenario analysis



Reservoir-Informed Drilling

- Drilling Equipment monitoring & surveillance
- Rig connectivity: WITSML / wireline streaming
- Rig state, bit wear modeling & frac monitoring
- Dynamic time/depth warping for trajectory / RoP and bit planning



Reservoir-Informed Completions

- Formation pressure & fluid sampling analysis
- Subsea equipment condition monitoring
- Wireline telemetry capture
- Live dashboards with alerting



Enterprise deployment

Discover Insights. Surface Risks Early. Drive Operations Forward.

Spotfire unites geoscience, engineering, and operational data across the energy value chain, turning specialist-tool silos into one governed platform, with native analytical depth, embedded AI, and the agility to solve energy's most complex challenges faster.

Spotfire® is a visual industrial analytics platform that combines advanced analytics, industry-specific visualizations, and AI to help experts turn complex industrial data into trusted, actionable intelligence.

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