Spotfire® Industry Pro for Upstream Energy

Confident decisions in upstream complexity

Understand what's happening, anticipate risk, and act earlier across the system.

Upstream energy organizations are rich in data, but insight is fragmented across disciplines. Subsurface, production, operations, and economics teams each see only part of the picture; and alignment happens late, through manual workflows and stitched-together views. AI is arriving into that fragmentation as more point tools, each without the operational context that makes an upstream decision defensible. When insight is fragmented, decisions slow: opportunities are missed, risk increases, and value is lost.

A decision layer built for upstream energy

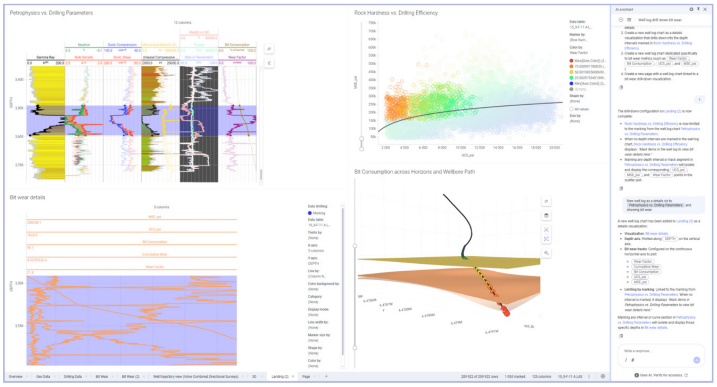
Spotfire® Industry Pro sits above domain-specific tools, augmenting them, not replacing them. It brings subsurface, production, operational, and economic insight into a shared visual decision layer, making assumptions and differences visible and comparable across disciplines, without forcing standardization.

AI works inside that decision layer rather than alongside it, so findings arrive with the subsurface, operational, and economic context an engineer needs to judge them.

The result: teams reduce manual handoffs, surface risk earlier, accelerate alignment, and make confident decisions across the full upstream system.

AI where the analysis happens

Spotfire AI runs inside the analytical environment where the evidence lives, so engineers can examine a finding rather than simply accept it.



Experts work with it in two complementary ways, both on the same governed foundation:

- **In conversation** — ask questions in natural language and get guidance on the next analytical step, without leaving the visual context. For example, ask why a well's decline deviates from its offsets, or which completion parameters track with early performance, and get guidance on where to look next, without leaving the visual context.
- **Through agents** — Insight Agents carry out a defined analytical goal: watching production and equipment data for deviations, running an established diagnostic pattern across a full well set, and returning findings with the supporting evidence attached.

Because both run on a shared foundation, teams can extend agents to their own upstream workflows, combining AI with proprietary well, reservoir, and operational knowledge.

Supporting critical upstream decisions

Spotfire Industry Pro is currently focused on upstream energy, supporting four key decision areas across the asset lifecycle:

Asset Valuation

Understand uncertainty, performance, and economics to guide portfolio decisions.

Asset valuation often stalls because teams must stand up detailed models before they can even tell which opportunities are worth pursuing. Spotfire enables rapid screening and prioritization across subsurface, production, operational, and economic signals — well before full project workflows begin — so teams can surface risk sooner and focus deep technical effort where it delivers the most value.

Key decisions supported:

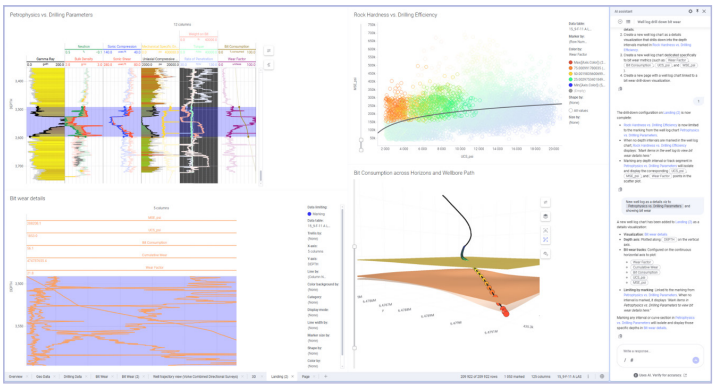
- A&D opportunity screening & prioritization
- Portfolio analysis
- Reserves estimation & planning

Find out more

Field Development

Align field development decisions across disciplines.

Field development decisions depend on synthesizing geology, petrophysics, drilling, completions, and production — perspectives rarely evaluated together early enough. Spotfire brings them into a single, interactive decision layer, letting teams explore scenarios, benchmark strategies, and identify performance drivers with built-in statistics and machine learning.



Key decisions supported:

- Integrated field development scenarios
- Drilling-to-reservoir performance
- Completion design optimization
- Reservoir characterization

Find out more

Production Optimization

Maximize recovery and extend asset life.

Production optimization evolves over the life of the well, but reservoir response, wellbore condition, and economic thresholds are often evaluated in isolation across surveillance systems, models, and spreadsheets. Spotfire combines live sensor data with historical and spatial context to reveal patterns in decline, downtime, and constraints, so teams can act earlier and prioritize the right interventions.



Key decisions supported:

- Production life cycle analysis
- Trajectory optimization

Find out more

Operational Excellence

Surface operational risk before disruption.

Equipment degradation, capacity limits, and operational risk often emerge gradually, with signals scattered across historians, maintenance systems, and spreadsheets — by the time issues surface in reports, disruption has already occurred. Spotfire brings condition, performance, and capacity insight together in one view, so teams can see risk forming and align responses earlier.

Key decisions supported:

- Forecast-to-capacity balancing
- Workover prioritization

Find out more

Built to extend across the value chain

Upstream analysis is often constrained by volume. Teams sample production histories, narrow the well set, or wait on extracts, because full-field analysis is too slow to stay interactive, and sampled analysis is how anomalies get missed.

Spotfire pushes computation to where the data already lives, including cloud data platforms and enterprise sources, so engineers can investigate complete fields and full production histories without moving data and without giving up interactivity. Investigation stays iterative at any scale.

The same decision-layer approach that unifies subsurface, production, and economic insight upstream applies wherever fragmented data slows high-stakes decisions, including midstream and downstream operations. Spotfire Industry Pro is built to bring disciplines together in one environment, wherever the data lives and whoever needs to act on it.

Trusted by leading energy organizations

Upstream operators rely on Spotfire Industry Pro to turn fragmented data into confident, faster decisions:

Hunt Oil	Combines real-time and historical drilling data to make faster, smarter drilling decisions with smart IoT.
Liberty Energy	Gains second-by-second visibility into live frac operations for greater operational agility.
Diamondback Energy	Aligns operations, costs, and performance with insight spanning facilities, wells, and financials.
S&P Global	Reduced time for well attribute visualization and analysis by 80%.

Spotfire®

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