

INFOSYS AI AGENT

BROCHURE



WHY ENGINEERS NEED AN AI AGENT ON EVERY WELL

Working in well operations today means working with tight timelines and massive data – from EoW reports and daily logs to offset well data, visuals, and risk registers.

The challenge? There's no time to read it all, let alone connect the dots.

That's where the AI Agent comes in.

Built by Infosys, it's a domain-tuned generative AI assistant that reads, understands, and surfaces what matters, instantly.



Answers technical questions in plain English



Finds similar wells and past fixes



Synthesizes historical insights with 92% accuracy



Double-checks answers with reflective prompting



Acts as a single hub for subsurface intelligence



Fits into daily workflows for planning and NPT risk checks



Adapts to taxonomies and naming conventions



Runs on Azure for security and scalability



Powered by GPT-4o for advanced reasoning



Summarizes logs and reports automatically



OSDU-compatible and integrates with subsurface apps

WHAT AI AGENT DELIVERS



Reads thousands of pages in seconds



Understands text, charts, and lithology data



Speaks the language of the wellsite and unit conversions



WHERE AI AGENT HELPS: USE CASES FROM THE FIELD

From offshore rigs to pre-operational planning, AI Agent is already helping teams save time, cut risk, and make better decisions.

Here are four key use cases:

- Anomaly detection in daily operations
- Well-to-well performance benchmarking
- Faster root cause analysis (RCA)
- Pre-operational planning and report generation



Welcome to Well Planning AI Assistant

Hi! I can help you with well data, analysis, and logging details. What do you need?

Just now

What is the tool string used in Run 4 if LWD logging summary from Stickle-9H5? Give point-wise

Just now

Response: The tool string used in Run 4 if the LWD logging summary from Stickle-9H5 is as follows:

1. PowerDrive Xceed 675
2. Geosphere Transmitter
3. Periscope
4. Geosphere Receiver 1
5. TeleScope
6. Geosphere Receiver 2
7. AND6

Source: Stickle-9H5 Final WCR Rev 1.0_page_8

Just now

[Type your message...]



USE CASE 1: FIELD-LEVEL RIG OPERATIONS SUMMARY

MEET IBRAHIM, OFFSHORE SUPERVISOR

PROBLEM

Tripping operations were taking longer than usual, but delays often went unnoticed until much later.

SOLUTION BY AI AGENT

Summarized overnight reports, flagged the anomaly in tripping time, pulled similar past cases, and suggested probable causes.

OUTCOME

Ibrahim identified the issue early and avoided unnecessary troubleshooting delays.



USE CASE 2:

WELL COMPARATIVE ANALYSIS

MEET ELENA, WELL PERFORMANCE ENGINEER



PROBLEM

Well 18 took longer to operate than Well 12 – the reason wasn't immediately clear and would normally take days to analyse.

SOLUTION BY AI AGENT

Delivered a visual comparison across ROP, NPT, and casing run efficiency. Highlighted key differences, including a stuck pipe incident on Day 6.

OUTCOME

Elena quickly identified the root cause and helped the team refine plans for future wells.

USE CASE 3: OPERATION DIAGNOSTICS FOR SPECIFIC EVENTS MEET CARLOS, WELLSITE SUPERVISOR

PROBLEM

A casing operation led to unexpected NPT. Identifying the root cause would typically take weeks of manual investigation.

SOLUTION BY AI AGENT

Analyzed operational reports, specs, mud weights, and notes. Detected a pattern across three rigs and flagged mud losses during shoe track cleaning as a likely cause.

OUTCOME

Carlos created a stronger, data-backed RCA report in minutes, reducing investigation time and increasing confidence in the fix.



USE CASE 4: AUTOMATED REPORT GENERATION

MEET EMMA, PLANNING ENGINEER

PROBLEM

Pre-operational planning and documentation, like well plans, risk registers, and offset reviews, used to take days and often started from scratch.

SOLUTION BY AI AGENT

With a single prompt, the AI Agent pulled offset data, drafted structured plans, flagged known risks, and suggested mitigations. It also assisted with post-well summaries.

OUTCOME

Emma moved from blank pages to polished drafts in hours, freeing up time for engineering decisions and planning the next well.



AN AI AGENT THAT LEARNS. ADAPTS. DELIVERS.

From planning to performance reviews, the AI Agent evolves with every use, shaped by real data, field experience, and your team's workflows.

WHY IT MATTERS

- Learns from every well
- Adapts to role, task, and geology and to your taxonomies and naming conventions
- Speeds up planning and post-well reviews
- Surfaces risks and insights early before they impact operations
- Supports users without replacing expertise
- Ensures enterprise-grade security and scalability with Azure
- Provides advanced reasoning and language understanding with GPT-4o



For more information, contact askus@infosys.com

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Navigate your next

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