Oil & Gas · Global

A drilling contractor cut rig downtime by 31% in 90 days with tool tracking and PM

A drilling contractor running onshore and offshore rigs tagged its critical tools, put preventive maintenance and calibration on schedule, and gave supervisors one view of rig readiness.



31% reduction in rig downtime

90 days to reach that reduction

100% visibility into tool movements

AT A GLANCE

INDUSTRY
Oil and gas drilling

OPERATIONS
Multiple onshore and offshore rigs

ASSETS
Drilling tools, hoisting, pumps, safety systems

PREVIOUSLY
Paper logs, missed PM

FEATURES USED
Assets · Maintenance · Insight

01 The client

The client is a major oil and gas drilling contractor operating several onshore and offshore rigs.

Its work depends on specialized tools, drilling equipment, hoisting machinery, safety systems and downhole assemblies, each needing strict tracking, calibration and preventive maintenance. Every hour of downtime costs significant money.

02 The challenge

Recurring breakdowns and tool-related delays kept rigs idle. Critical tools went missing between sites, and maintenance and calibration records could not be trusted.

- Poor traceability of torque wrenches, drilling jars, MWD/LWD tools, BOP spares and downhole equipment.
- Missed preventive maintenance on hoisting equipment, pumps and hydraulic systems.
- Tools misplaced between rigs, forcing urgent, costly replacements.
- Technician logs incomplete or missing evidence of work done.
- Calibration certificates outdated or unavailable during audits.

03 What they set up in Asset Infinity

The contractor centralized tool tracking, preventive maintenance and calibration for every rig in Asset Infinity, with crews working from the mobile app.

Assets

Tool tracking with QR and RFID

Every high-value tool is tagged and checked out to a crew, from tool crib to rig floor to maintenance bay, with its location and usage history recorded.

Maintenance

Preventive plans and checklists

Pumps, top drives, mud systems, generators, cranes and hoisting equipment have PM plans with standard checklists for lubrication, pressure checks, wear parts and safety tests.

Maintenance

Calibration and certification

Torque wrench calibrations, pressure gauge checks, sensor inspections and BOP certifications are scheduled plans, with certificates attached to each asset and reminders before they fall due.

Insight

Rig health dashboard

One view shows equipment readiness across all rigs, overdue PM and the components that fail most often.

04 How it works day to day

Here is how tools and equipment are looked after on a rig now.

TOOL PUSHER
Checks a tool out
Scanning a tool's QR or RFID tag checks it out to the crew that needs it, recording where it is going and who has it.

SYSTEM
Records moves between sites
RFID readers and scans record each tool moving between tool crib, rig floor and maintenance bay, so the register always shows its last location.

SYSTEM
Raises PM work
Preventive plans for pumps, top drives, cranes and hoisting gear create work orders when due. Overdue work is escalated to supervisors.

TECHNICIAN
Completes the checklist
On the mobile app, the technician records readings, photos, spares used and a signature against each step of the checklist.

SUPERVISOR
Validates the repair
The supervisor reviews the evidence on the work order and approves it, checking the quality of the work without a separate visit.

SYSTEM
Reminds about calibration
Date-based plans remind the team before a torque wrench calibration or BOP certification falls due, and the new certificate is attached to the asset.

RIG MANAGER
Checks rig readiness
The dashboard shows readiness across all rigs, overdue PM and frequently failing components.

05 Before and after

	BEFORE	WITH ASSET INFINITY
Critical tools	Misplaced between rig sites	Tagged and tracked; 100% visibility into movements
Preventive maintenance	Often missed	Scheduled plans with escalation of overdue work
Technician logs	Inconsistent, missing evidence	Photos, readings, spares and signatures on every job
Calibration certificates	Outdated or missing at audit	Scheduled, with certificates on each asset
Equipment readiness	No unified view	One dashboard across all rigs
Rig downtime	Recurring breakdowns	Down 31% within 90 days

06 How it rolled out

1

Phased across rigs. Onshore and offshore rigs moved over in phases, with no disruption to ongoing drilling.

2

Crews trained on mobile. Field crews, tool pushers and maintenance technicians were trained on the mobile workflows.

3

Connected where needed. Asset Infinity was connected to existing rig systems where operations required it.

07 The results

- Strong reduction in tool-related delays and emergency procurement
- PM compliance increased significantly, stabilizing rig performance
- Better audit readiness with complete calibration and maintenance records
- Faster repairs and clearer technician accountability
- Stronger HSE compliance through structured documentation

08 Why it worked

Phased rollout

Moving rigs over in phases meant no disruption to drilling while crews learned the new way of working.

Evidence at the source

Technicians record readings, photos and signatures as they work, so the log is complete without extra paperwork.

Tools and machines together

Tools, equipment and their certificates sit in one register, so readiness is visible rig by rig.

09 Looking ahead

By putting tool tracking, maintenance and calibration in one system, the contractor cut rig downtime by 31% within 90 days and protected revenue in an operation where every minute counts.

Complete service and calibration records now travel with every tool and machine, which keeps rigs audit-ready and helps crews spot failing components before they stop a rig.

See it on your own assets

A 30-minute demo, set up for a drilling contractor or oilfield operator.

The client's name is withheld for confidentiality. Results are as reported by the client.

Book a demo

Start a 14-day free trial