GeoMaster

Go Geo, Master Everything

Geosteering, rebuilt for the browser

GEOMASTER SOFTWARE SUITE

BROWSER-BASED PLATFORM

A fully web-based platform for geosteering, built on one data foundation.

Interpretation, drilling execution, and the data underneath them, in one browser tab.

GeoMaster is built around a single idea: geosteering interpretation, drilling execution, and the data both depend on should not live in three different tools that don't talk to each other. Every module in this catalogue, the interpretation workspace, the drilling dashboard, the forward-planning tool, and the data engine underneath, runs on one shared model of the well, updated in real time, accessible from any browser with no local install.

WHY GEOMASTER

Genuine SaaS Platform

Sign up, subscribe, and start working the same day. When we checked, we found no competing geosteering platform offering self-serve, subscription-based signup the way GeoMaster does.

AI-Native & Agnostic

GeoMaster's AI core runs against multiple leading models interchangeably. Adopting a better model is a configuration change, not a re-platforming project.

Accessible Business Model

A genuine entry tier and a trial tier alongside paid plans, not an enterprise-only front door. Individual engineers get real functionality without a procurement cycle.

GEOMASTER INTEGRATED MODULES

GeoMatch Interpretation	Interactive geological mapping & log correlation.	LIVE
GeoMatch Versioning	Collaborative, restorable geological model timeline.	LIVE
DrillTracker	Continuous trajectory tracking against the active plan.	LIVE
LookAhead	Forward trajectory targeting and feasibility planning.	EARLY ACCESS
DataEngine	Data import, validation & standardisation for every format.	LIVE
Emerging Capabilities	3D visualisation, surface maps, and azimuthal image logs.	ENGINE COMPLETE
GeoEngine	Conversational AI and multi-agent platform for subsurface data.	IN ENGINEERING
Data Governance & Compliance	Shipped security controls and roadmap certifications.	LIVE
Getting Started	Trial environment, demos, and onboarding paths.	ENGINE COMPLETE

Two ways to correct a geosteering interpretation, one workspace

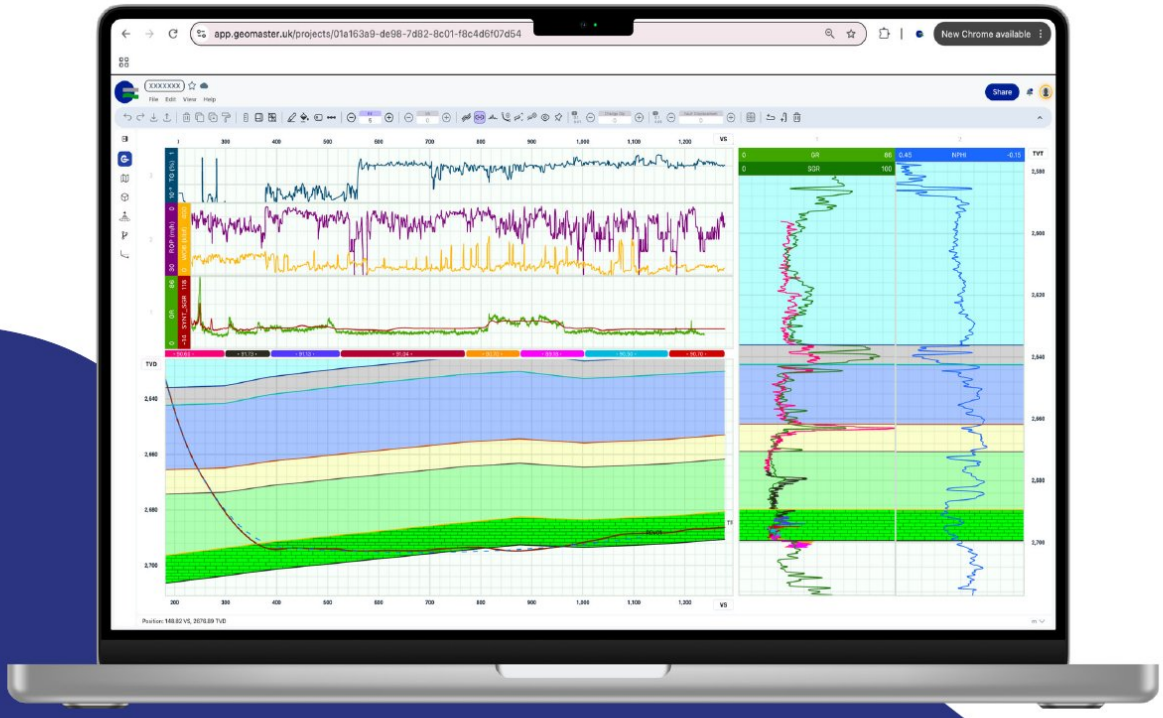
GEOSTEERING TECHNIQUES

Stratigraphic Correlation

Plots the well's own log against true stratigraphic thickness, so it can be read directly against the reference well's log. Layers can be thickened or thinned to bring the two into line.

Forward-Model Correlation

Builds a synthetic log from the reference well, carried through the interpreted structure, and overlays it on the real log. Layers can be thickened or thinned to bring the two into line.



ADDITIONAL WORKSPACE CAPABILITIES

01

GeoMatch can generate a synthetic log from the current interpretation for comparison against the real log.

02

Bulk operations for resetting, re-segmenting, or applying thickness changes across the interpreted trajectory.

03

GeoMatch reads directly from the well's trajectory and log data, standardised by DataEngine, so there's no export or re-import step.

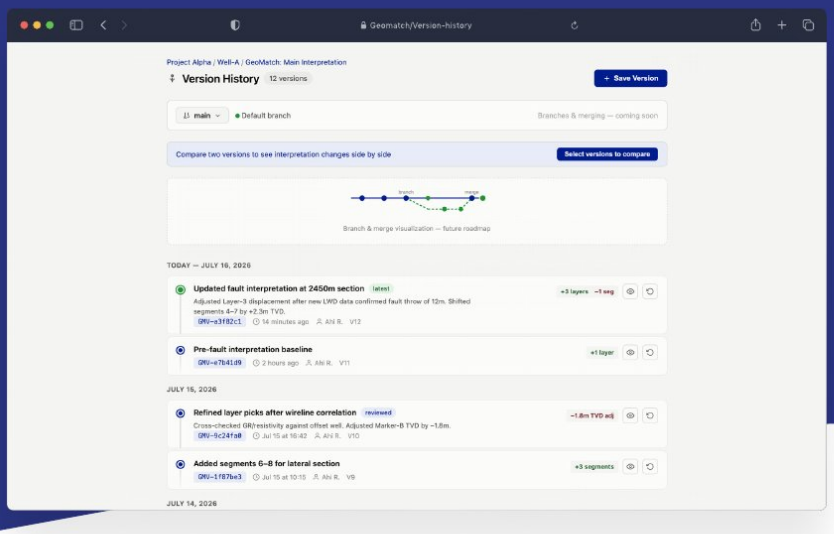
Every interpretation is a version. Every project is a team.

A full, restorable history of every interpretation, and role-based sharing across everyone who touches the well.

GeoMatch is GeoMaster's geosteering interpretation workspace. Interpretations change constantly as new log data arrives, that's expected. What's harder is knowing which version of the interpretation a decision was based on, and being able to get back to it. GeoMatch treats every saved state as a first-class, named version rather than an overwrite.

Full Version History Ledger

Each version carries a unique code, a title and description, and a computed summary of what changed since the last one, generated automatically by comparing the two states, not written by hand. Two saved versions can be compared directly to see exactly what moved. If a later interpretation turns out to be wrong, restoring an earlier version doesn't discard the interim work: the current state is itself saved as a new version first, so nothing is ever silently lost.



Automated Change Tracking

01 Save Current State

02 Compare Versions

03 Restore Earlier State

Project-Level Permissions

A project can be shared with the full set of people who need to see it: geoscientists, directional drillers, operators, each with a viewer or editor role. Sharing happens by invitation, invitations can be revoked before they're accepted, and project ownership itself can be formally transferred.

OWNER	Full project ownership. Can transfer ownership, manage invitations, and control project-level settings.
EDITOR	Full model control. Can create versions, adjust structural dip, and modify faults.
VIEWER	Read-only dashboard. Perfect for executives, asset partners, or rig site monitors.

One active plan, every revision kept, so nothing is left to guess

Drillers see the current plan against the actual drilled path, and only one plan can ever be active at a time.



ACTUAL VS PLAN

DISTANCE TO PLAN

+1.2m

Within optimal corridor

TOOL-FACE ANGLE

42.5°

Optimal slide heading

BUILD/TURN RATE

3.2°/30m

Smooth build profile

A Single Source of Truth

The mechanism that makes “which plan is current” a non-question is structural, not procedural: a well can have exactly one active plan at any time, enforced by the database itself rather than by convention. That also gives you version control. When a geosteerer activates a new plan, the previous one isn’t deleted, it’s frozen as a dated revision with how well it tracked the actual path, so “what did we plan before, and why did we change it” is always answerable. DrillTracker shows this in three zones: historical versions, the active plan against the drilled path, and the ahead-of-bit zone showing what the plan still requires from the current bit position.

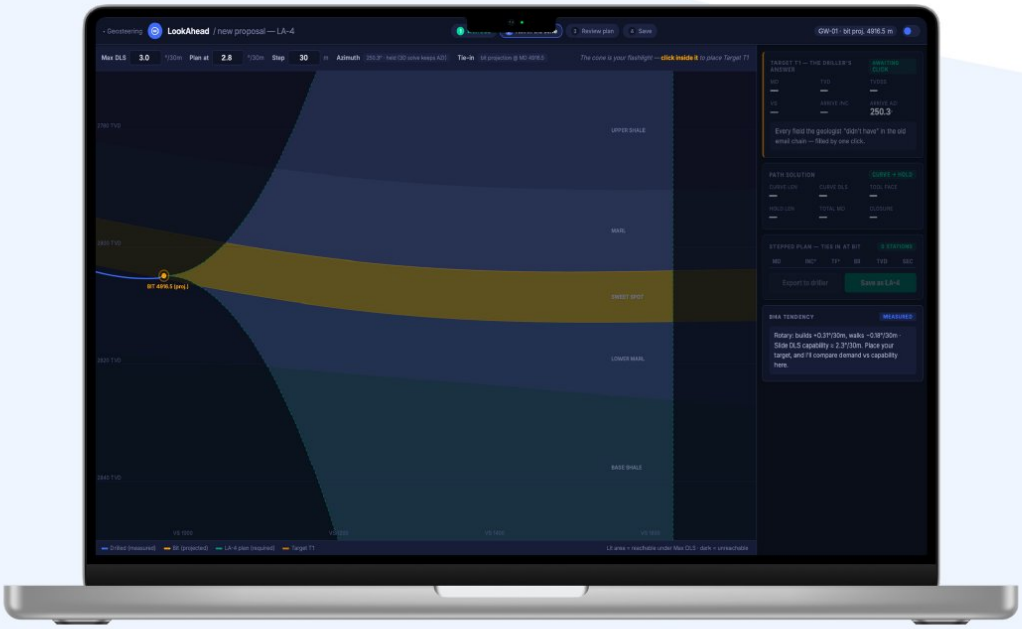
EARLY ACCESS

From interpretation to forward plan, without leaving the platform

Geosteerers turn a read into a target. Activating it becomes the plan drillers follow immediately.

LookAhead is GeoMaster's forward-planning tool: it closes the loop between geosteering interpretation and drilling execution. A geosteerer defines a forward target (where the wellbore should be, in TVD, vertical section, and azimuth, informed by their read of the formation ahead), and LookAhead solves a drillable curve from the current bit position to that target. Before committing, the line-of-sight of that target can be previewed against the current trajectory to check feasibility.

- Interpretation
- Forward target
- Feasibility preview
- Activation
- Plan drillers follow



NO HAND-OFF STEP REQUIRED

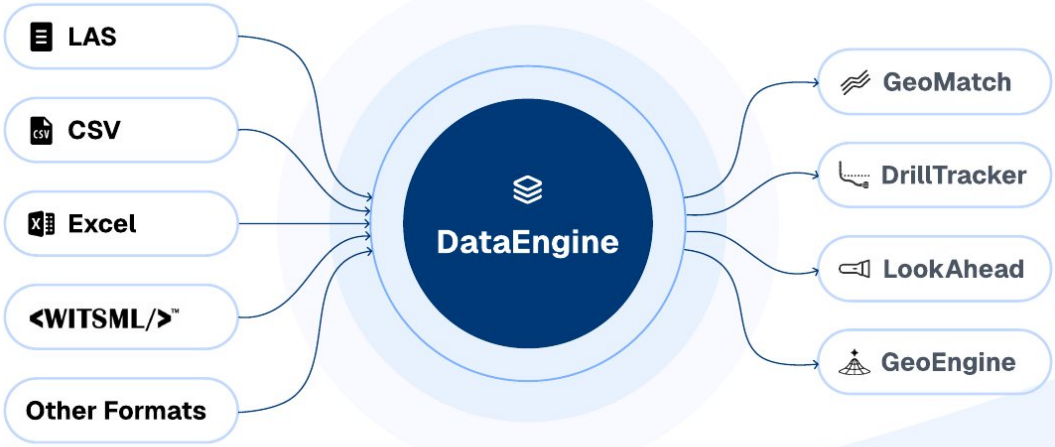
Activating a LookAhead proposal makes it the well's active plan directly. GeoMaster's actual-vs-plan drilling dashboard always reads whichever plan is currently active, so the moment a LookAhead target is activated, that is what drillers are tracking against immediately, with no export, no re-import, and no separate hand-off step between planning and execution.

WHERE THIS IS HEADED

Today, targets are defined directly by the geosteerer based on their own read of the interpretation. The near-term direction is tighter integration with GeoMaster's geosteering interpretation workspace itself, so a forward target can be derived more directly from the current interpretation rather than re-entered by hand. LookAhead is available today in early access; this catalogue will be updated as that integration lands.

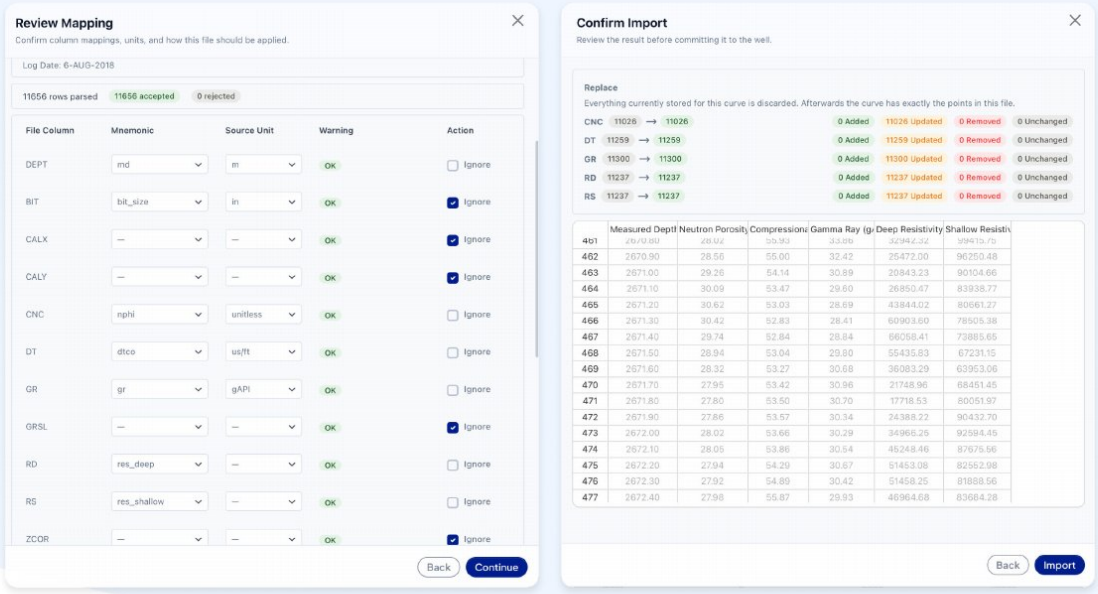
One canonical schema underneath every well, every format

Central Hub Architecture



DATAENGINE IMPORT SCHEMA MAPPER

AGNOSTIC INGESTION



SUPPORTED SUB-SURFACE STANDARDS & INTERFACES

LAS · CSV · Excel · WITSML · CPS-3 · Zmap · IRAP · GOCAD · Petrel · Surfer · EarthVision · GeoJSON

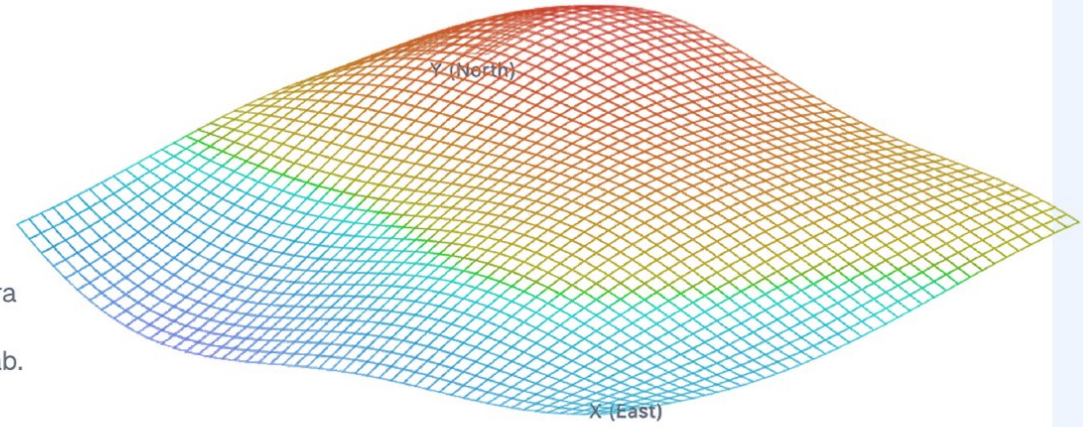
Already shipped, and close behind it

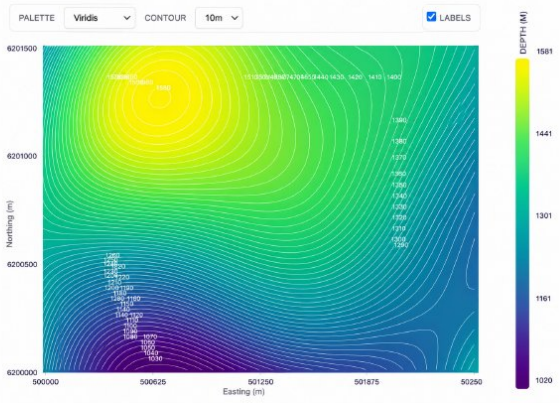
Full 3D trajectory visualisation is live today. Two more capabilities are engineered and validating now.

LIVE

3D Workspace Visualisation

GeoMaster includes a full 3D trajectory view: planned and actual wellpaths rendered together, with interactive camera control, built directly into the project workspace as its own tab.





ENGINE COMPLETE

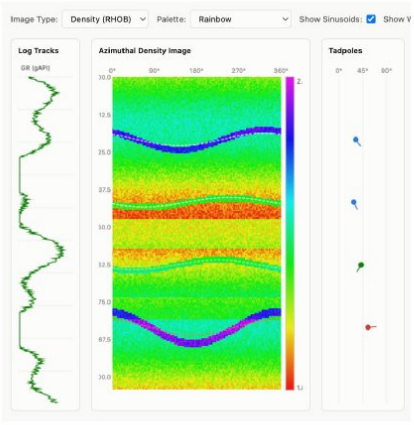
Surface & Horizon Maps

GeoMaster's underlying data engine already supports geological surfaces (horizons, faults, isopachs) sourced from imported files, calculated internally, AI-generated, or contributed directly by users. The full computation set is built: contouring, dip and azimuth, intersection with the wellbore, vertical-section projection, and isopach calculation. What's still ahead is the workspace interface for it.

ENGINE COMPLETE

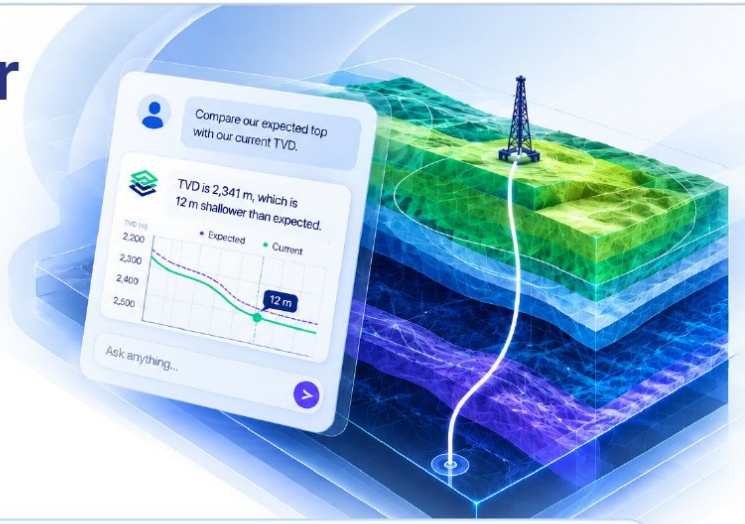
Azimuthal Image Logs

Azimuthal image-log processing (assembling images from sector-log channels, sinusoid fitting on picked points, and automated dip picking from the resulting image) is built and running against real LWD image data. As with surfaces, the computation engine is ahead of the interface: the workspace viewer for browsing and picking directly on an image log is the next capability to bring into the main product.



The part of GeoMaster designed to be asked, not just operated

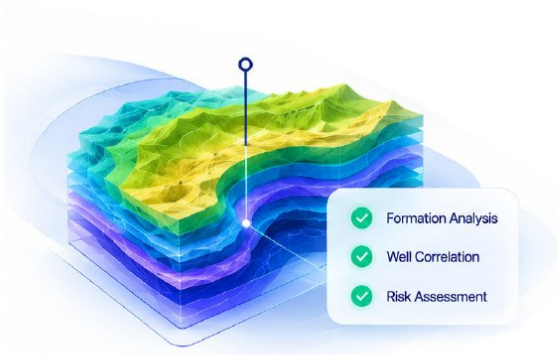
A project-aware AI assistant today. A full multi-agent platform underneath it, in active engineering.



Most of GeoMaster's modules are tools a geosteerer or driller operates directly. GeoEngine is different: it's the layer designed to be asked, about a project, a well, a piece of data, rather than manually navigated.

LIVE Field Intelligence

Inside a GeoMaster project, GeoEngine's Field Intelligence assistant answers project-aware questions directly in context, grounded in that project's actual wells, logs, and interpretations, not a generic model with no visibility into the data.



User: Compare our expected top with our current TVD. Are we still in target?

GeoEngine: Based on Survey #32, TVD is 2,341m. The adjusted limestone horizon top is at 2,339m. You are currently 2m below the top, inside the 4.5m target pay zone.

IN ENGINEERING The Agentic Platform

Behind Field Intelligence sits a substantially larger system: a dedicated orchestration platform with named agents (a geosteering agent and a wellsite-geology agent today, with more defined on its roadmap), and a secure gateway for AI tools with proper modern authorisation controls. The platform is built to run against several of today's leading AI models interchangeably. All engineering calculation still runs through GeoMaster's dedicated data and calculation engine, not through a language model. GeoEngine reasons and orchestrates; it does not recompute engineering numbers itself.

GEOSTEERING AGENT Synthesizing log mismatches.

WELLSITE-GEOLOGY AGENT Analyzing cutting-report PDFs.

In action

From a simple question to a confident decision, **in seconds.**

- **Real-time insights**
- **Expert knowledge**
- **Built for geosteering**

GeoEngine treats the current best-performing commercial model as an interchangeable component, not a permanent foundation. This guarantees future agility as core systems evolve.

What's actually in place, stated plainly

Shipped security controls and roadmap certifications, kept clearly separate.

In Place Today

Standard Auth & Sign-In

Sign-in via Google and LinkedIn, alongside standard credentials, with session tokens delivered as secure, HTTP-only cookies.

HTTP-Only Secure Cookies

HTTP-only cookies with CSRF protection, not stored in a way client-side scripts can read.

Project Role-Based Permissions

Viewer and Editor roles to manage collaborative permissions.

Categorised Activity Logs

Traceable ledger logs mapping user workspace operations.

Multi-Cloud Infrastructure

Production on AWS, separate staging environment on Oracle Cloud, and Cloudflare providing DNS, edge routing, and email handling.

Interpretation Version History

Complete traceable commit history for geological adjustments.

Encryption In Transit & At Rest

Enforced HTTPS and HSTS in production. Credentials for connected third-party systems, such as WITSML server connections, are encrypted at rest.

Cloudflare Edge Protection

DNS, edge routing, and email handling in front of both production and staging environments.

On the Roadmap

SOC 2 Type II Certification

Independent validation of security, availability, and confidentiality controls. Targeting audit completion in late 2026.

Enterprise SSO Integration

Direct corporate directory mappings via standard SAML 2.0 and OIDC protocols.

Verified Automated Backups

Dynamic snapshots with automated validation checks and regional multi-site redundancy.

More Workspaces

We are building more workspaces, all on the same shared well model.

IMPLEMENTATION REFERENCE



DATA OWNERSHIP & REGULATORY DATA

GeoMaster is operated by Greenstone Energy Ltd (registered in England & Wales), which acts as data controller for account and billing information, and as data processor for well and project data uploaded to the platform, consistent with UK GDPR and the Data Protection Act 2018. A Data Processing Agreement is available on request for enterprise customers.

See it against your own well

GeoMaster runs entirely in the browser: no install, no local hardware requirement, no IT ticket to open.

Because GeoMaster is genuine SaaS, with its interpretation engine running client-side in the browser and every collaborator working from the same live project, getting started doesn't involve a deployment step, a sales cycle, or a signed contract before you can log in. Sign up, bring a well, and the same platform your team will use in production is the one you evaluate it on. And because GeoMaster offers a genuine entry tier and a trial tier, not an enterprise-only front door, getting started doesn't require a procurement cycle either.

ONE CONNECTED PLATFORM

What a standard technical trial covers

Step 01

Import Real Well Data

Import a real well through GeoMaster (a log, a survey, or a plan) and see it validated and normalised against schema.

Step 02

Interactive Geological Correlation

Build or import a geosteering interpretation and try both correction techniques directly against the log.

Step 03

Invite Collaborators Safely

Save versions, invite a colleague onto the project with a viewer or editor role, and see live collaboration in practice.

Step 04

Trajectory Deviation Dashboards

Set up the actual-vs-plan drilling dashboard against a plan and see the tracking drillers use day to day.

Step 05

Conversational Subsurface Queries

Ask GeoEngine's Field Intelligence a question about the project directly, in context.

CONTACT US DIRECTLY

support@geomaster.uk — We respond to all enquiries within 1 business day.

GeoMaster
Go Geo, Master Everything

One platform. One well model. Every decision connected.

Interpretation, drilling execution, and the data underneath them, in one browser tab.

ONE CONNECTED PLATFORM

Geosteering

Interactive geological mapping and log correlation, computed against one deterministic TVT engine.

Forward Planning

Define a forward target, preview feasibility, and activate the plan drillers follow.

Request a Technical Demo

support@geomaster.uk

We respond to all enquiries within 1 business day.

Company

Greenstone Energy Ltd

Company No. 17151768