



Wellbore.AI

AI-Powered Wellbore Intelligence

*Next-generation AI-Powered wellbore data
processing and interpretation software*

CONTACT DETAIL:

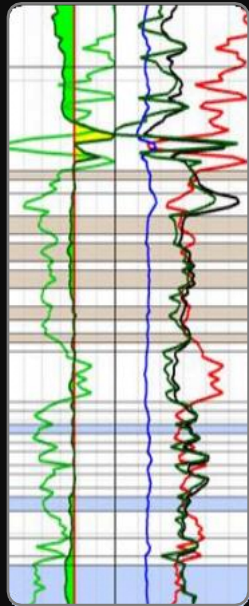
Email: info@gpst.com.pk

Phone: +92 321 4588961

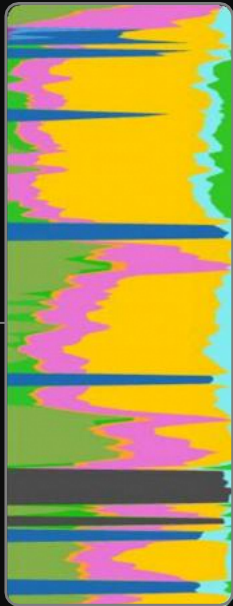
Office: City Arcade Plaza, Sector I-8 Markaz, Islamabad, Pakistan

GOLDENSUN PETROLEUM SERVICES AND TECHNOLOGY

WELLBORE AI | FULL SCOPE OF WELLBORE TOOLS



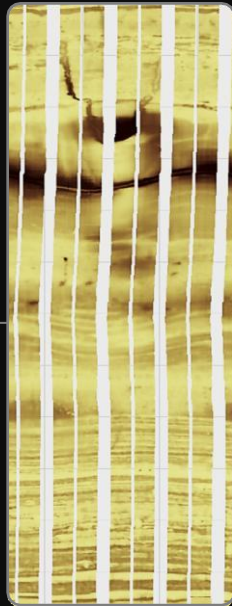
Basic
petrophysics



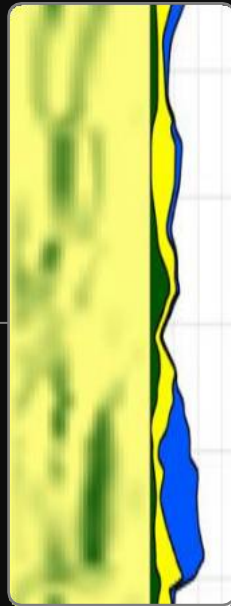
Mineral
models



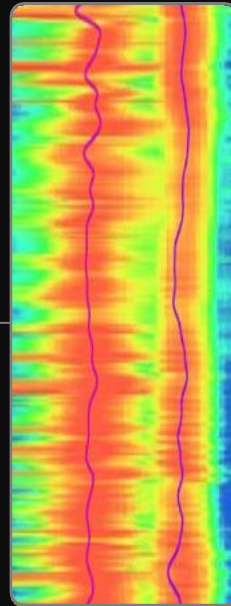
Core and
fluids



Wellbore
imagers



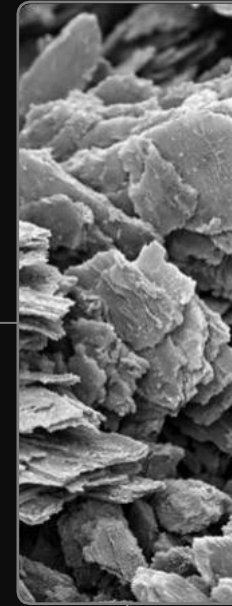
NMR



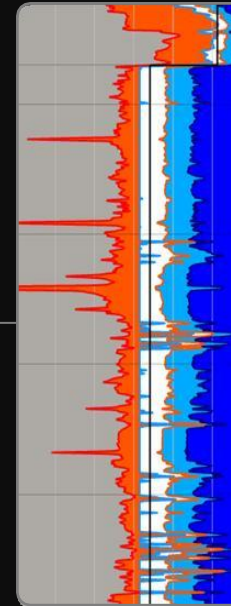
Acoustics



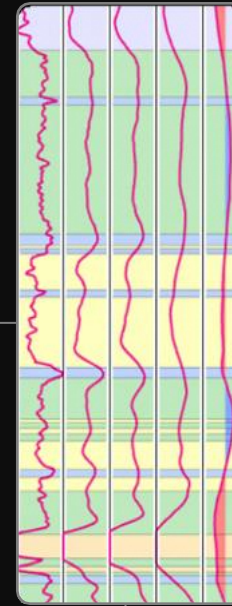
Geology



Digital core



Geomechanics



Rockphysics

AI and Big Data driven product architecture

High-performance parallel computing engine

Open and flexible operational wellbore database

DATA PLATFORM FOR TRANSPARENCY AND COLLABORATION

Scalable Enterprise-Grade Project Database

Effortlessly handles growing data volumes and complex workloads for organizations of any size.

Flexible, User-Defined Project Structures

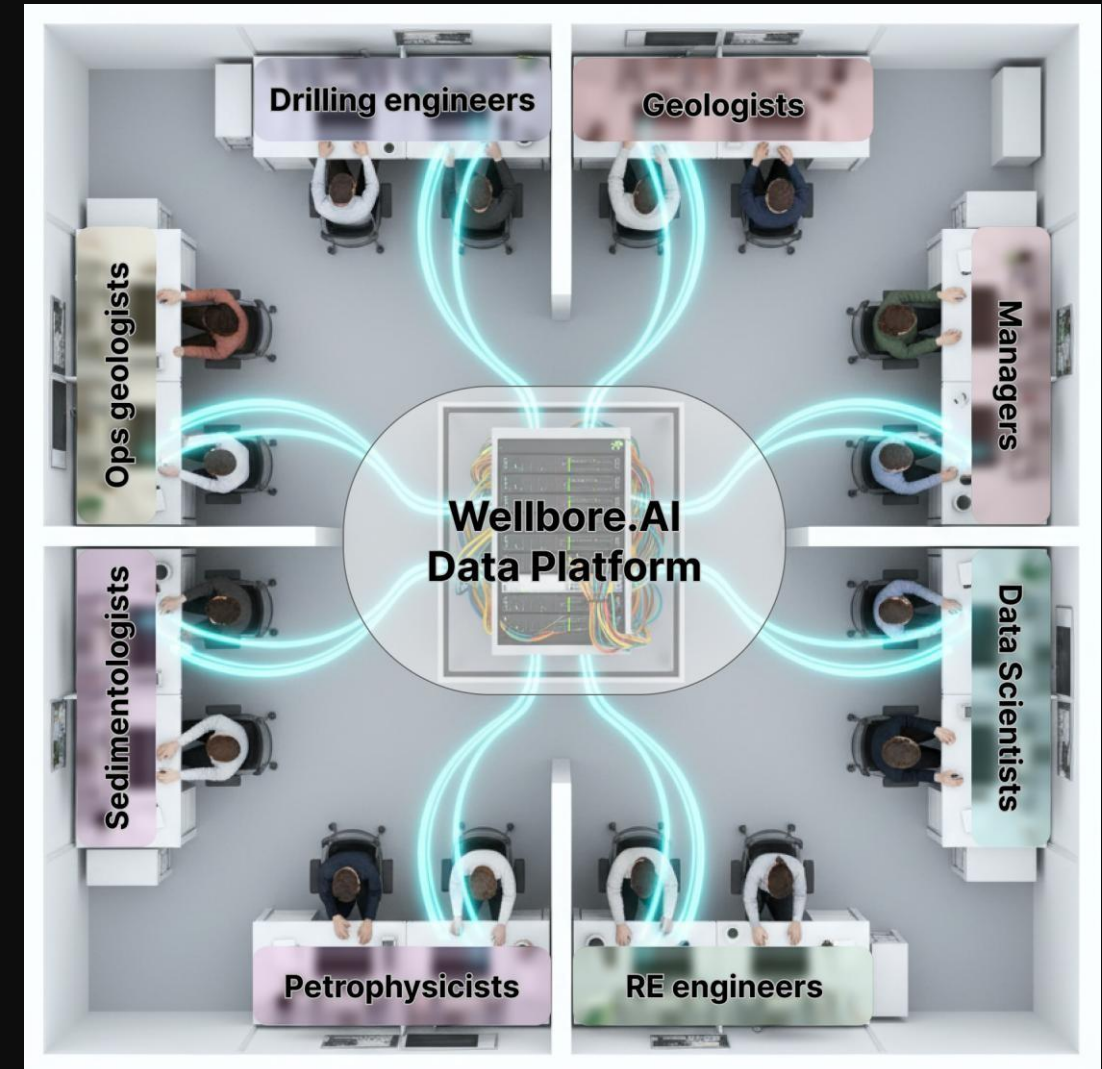
Customize hierarchies and store unstructured data seamlessly—adapt to your unique workflows without constraints.

Real-Time Multi-User Collaboration

Work together simultaneously with live updates and conflict-free editing, just like Google Docs—boost team productivity instantly.

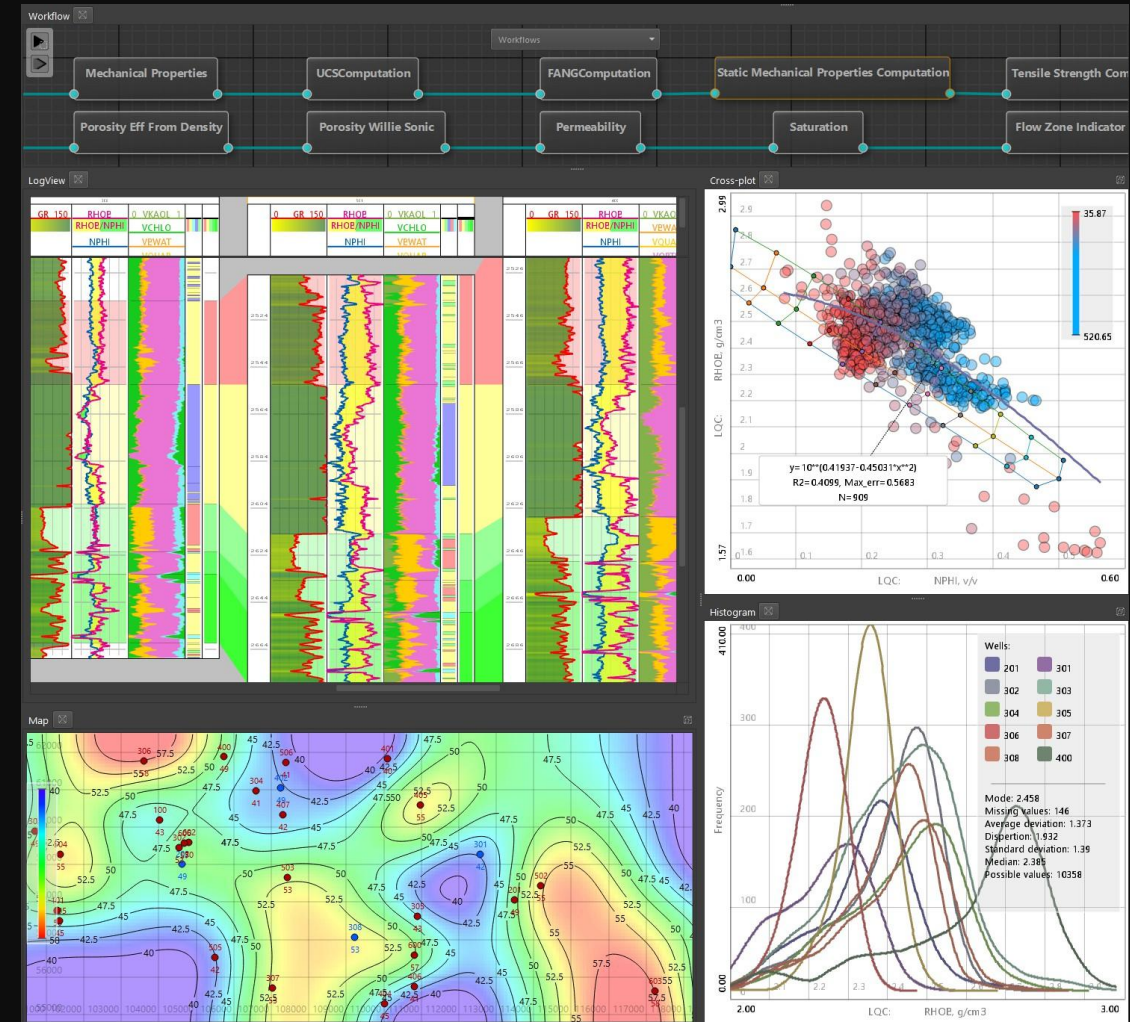
Multi-Cloud Deployment Flexibility

Deploy on AWS, Azure, Google Cloud, or your secure internal enterprise infrastructure—total control, zero vendor lock-in.



OUTSTANDING UI PERFORMANCE

- Industry-leading visualization and processing tool for any kind of wellbore data
- Efficient UI with state-of-the-art graphics capabilities based on GPU processing
- Access to all domain graphical data analysis tools: cross-plot, histogram, pie charts, maps and much more



AI-DRIVEN AUTOMATED PREPROCESSING

RAW data
management



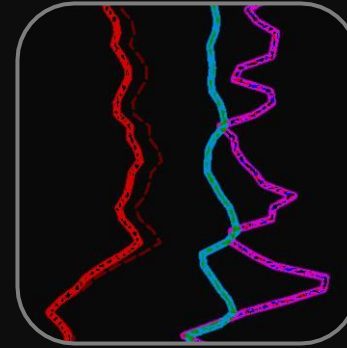
AI log types
assignment



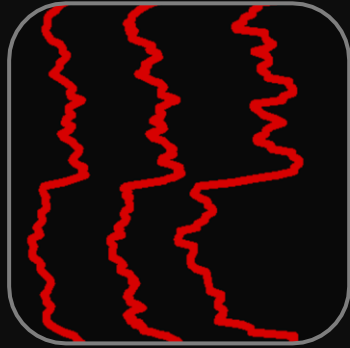
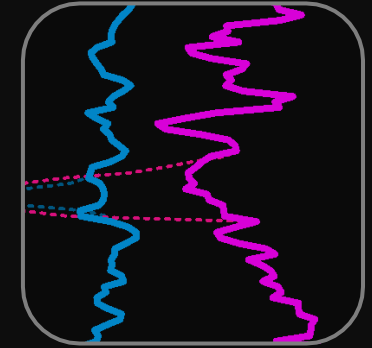
AI units
verification



Environmental
corrections



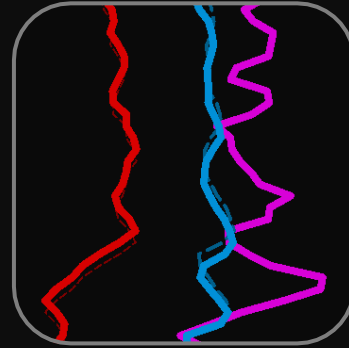
Bad holes
detection



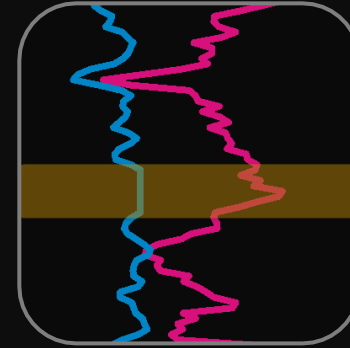
Best log



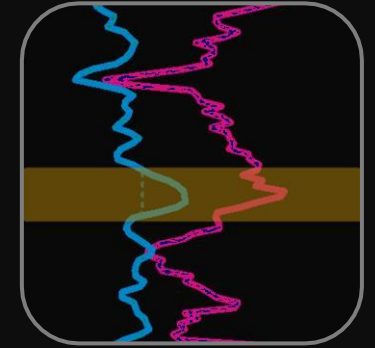
Splicing



Shifting



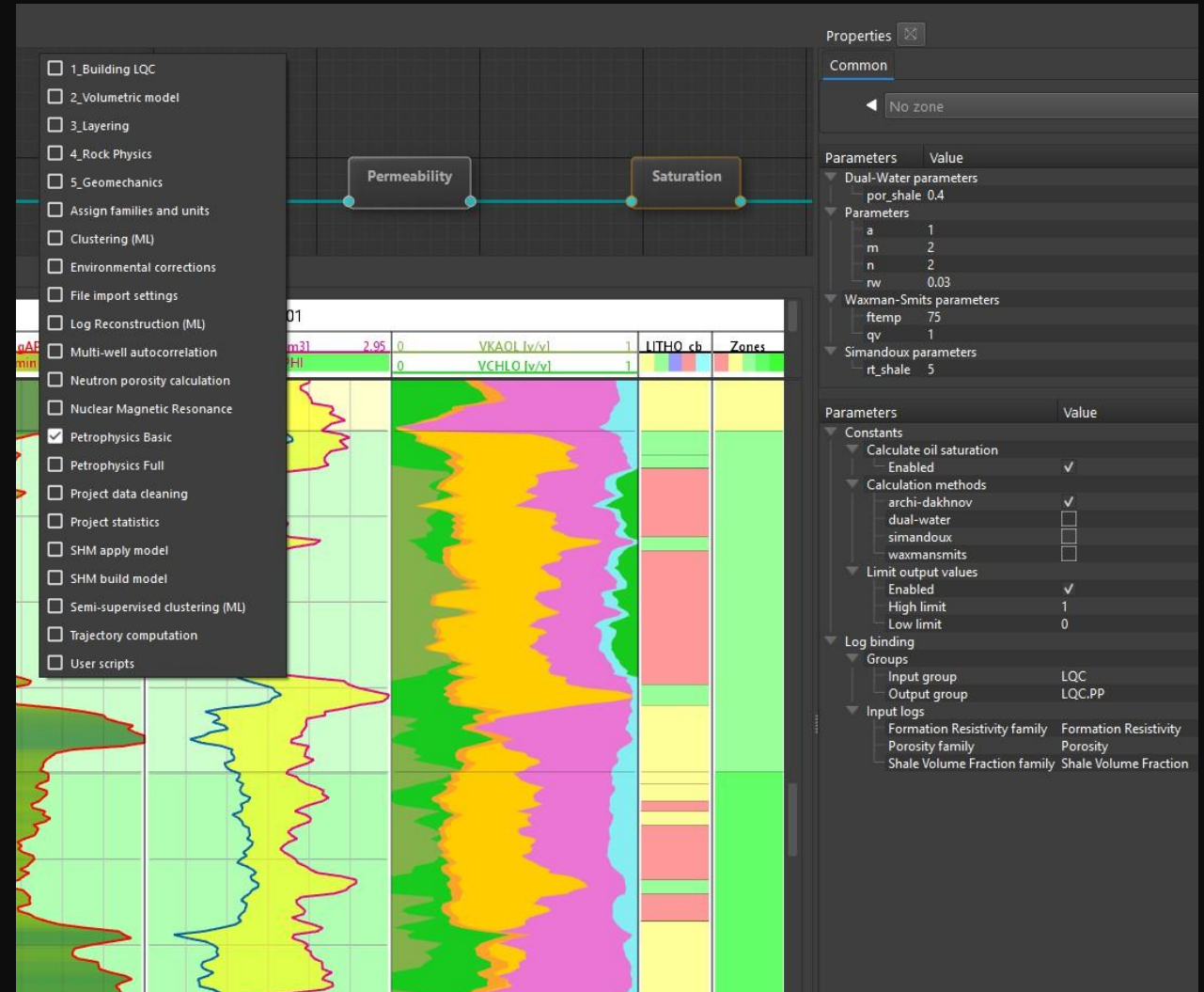
Outliers'
detection



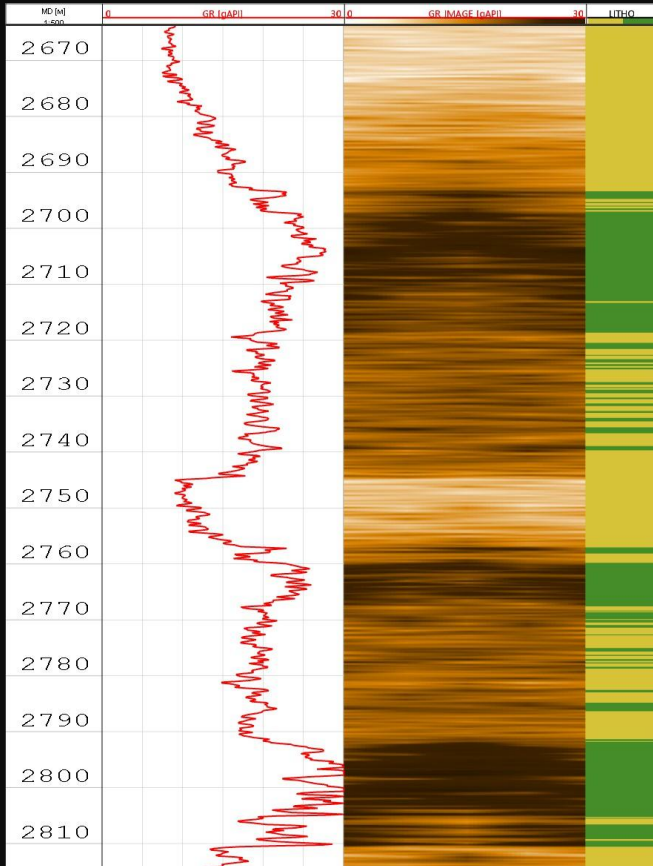
Logs
reconstruction

WORKFLOWS | INTERPRETATION AUTOMATION

- **End-to-end workflow automation** from raw data to actionable insight
- **Powerful processing engine** for both basic interpretation and advanced logs
- **Full transparency & control** with manual adjustment at any step
- **Adapts to your team** by supporting existing and custom user workflows



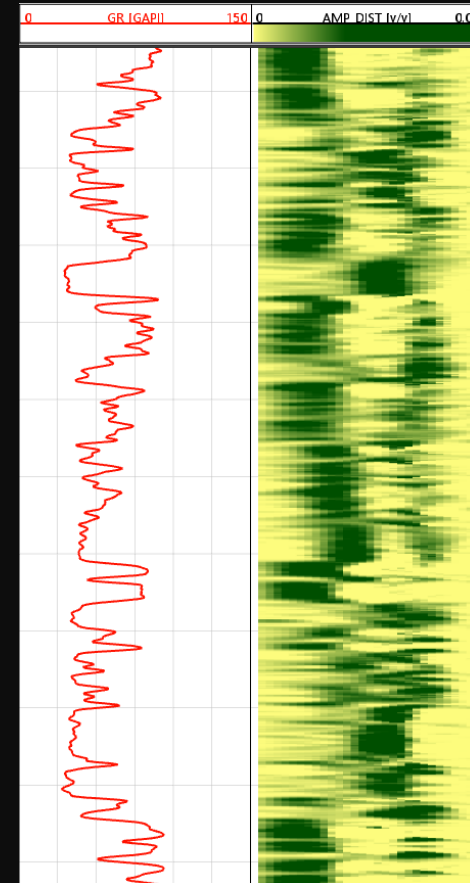
ADVANCED LOGS PROCESSING AND INTERPRETATION



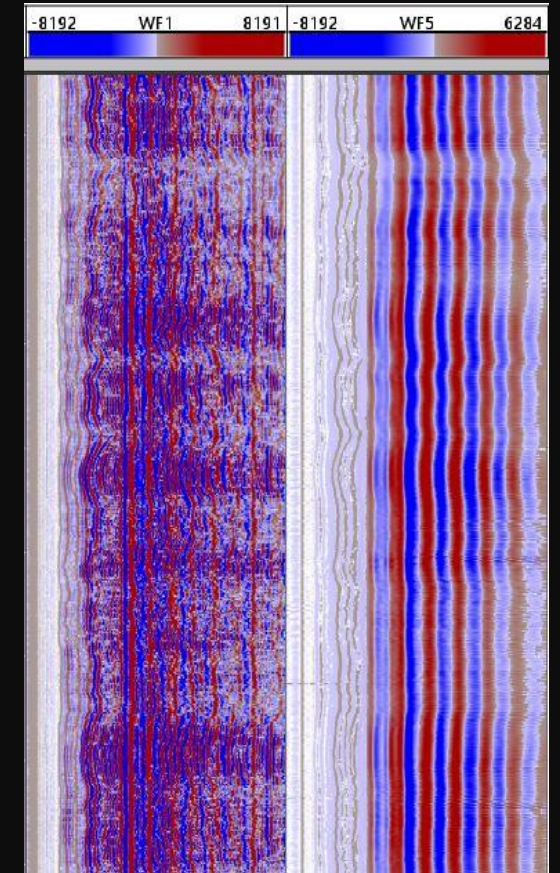
LWD images processing and interpretation



Vendor neutral hi-res borehole images processing and interpretation support

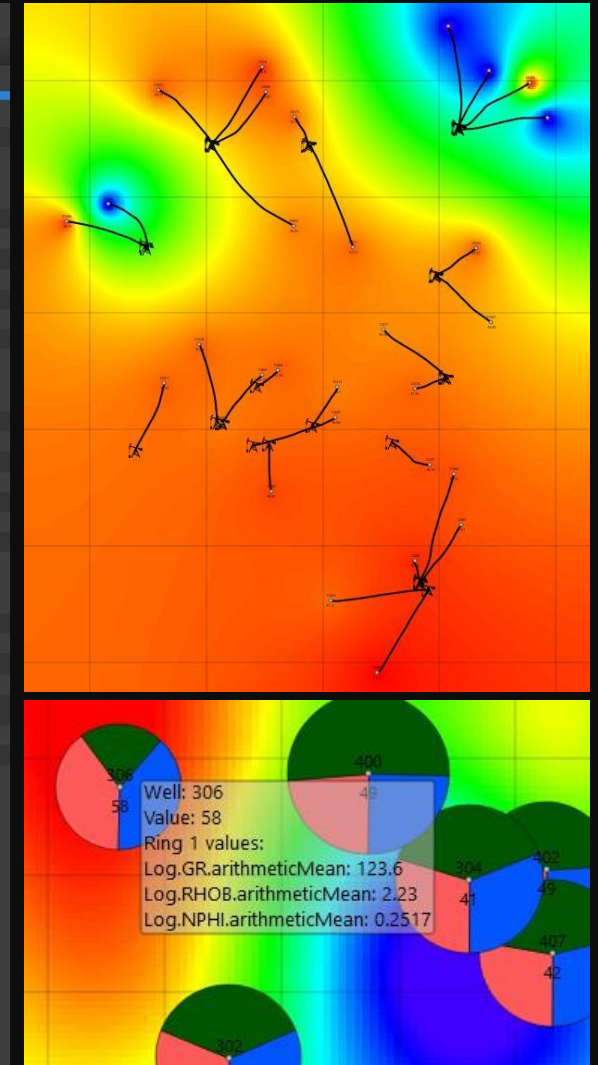
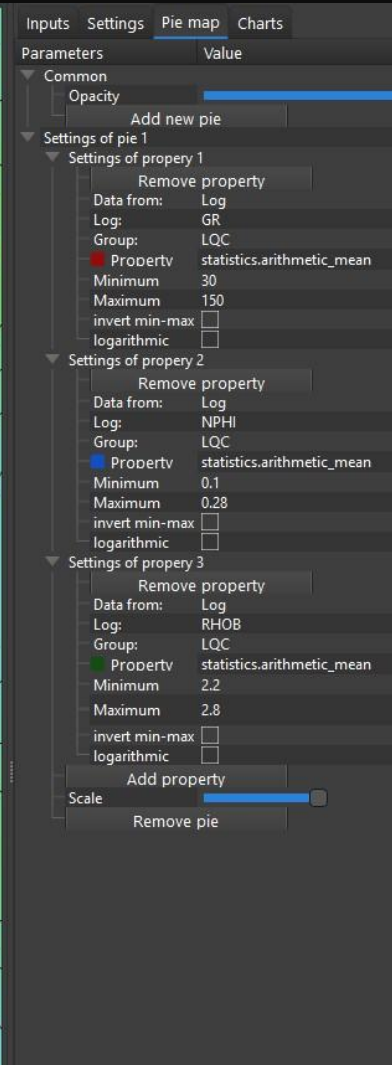
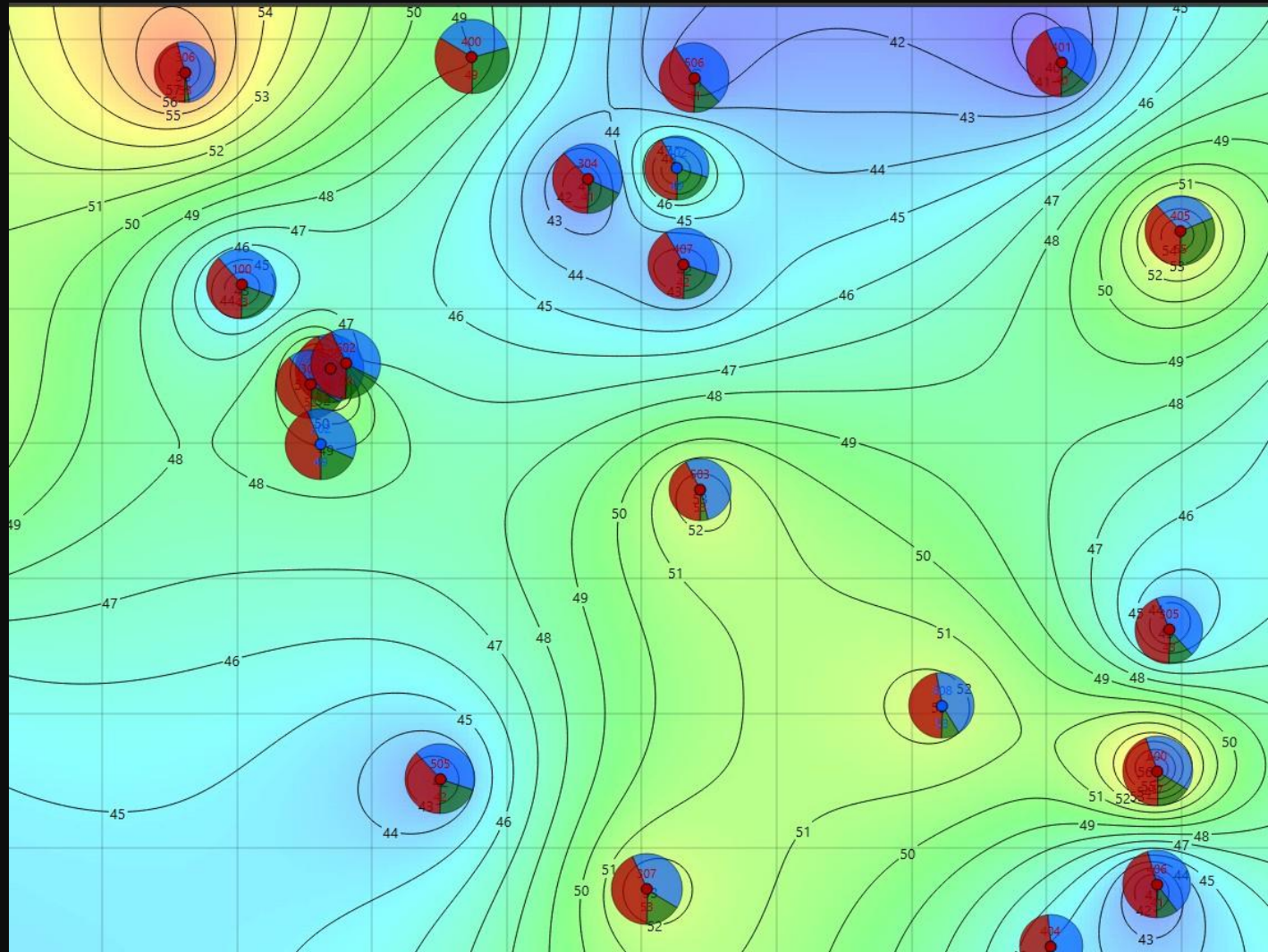


Processing, inversion and interpretation of NMR data



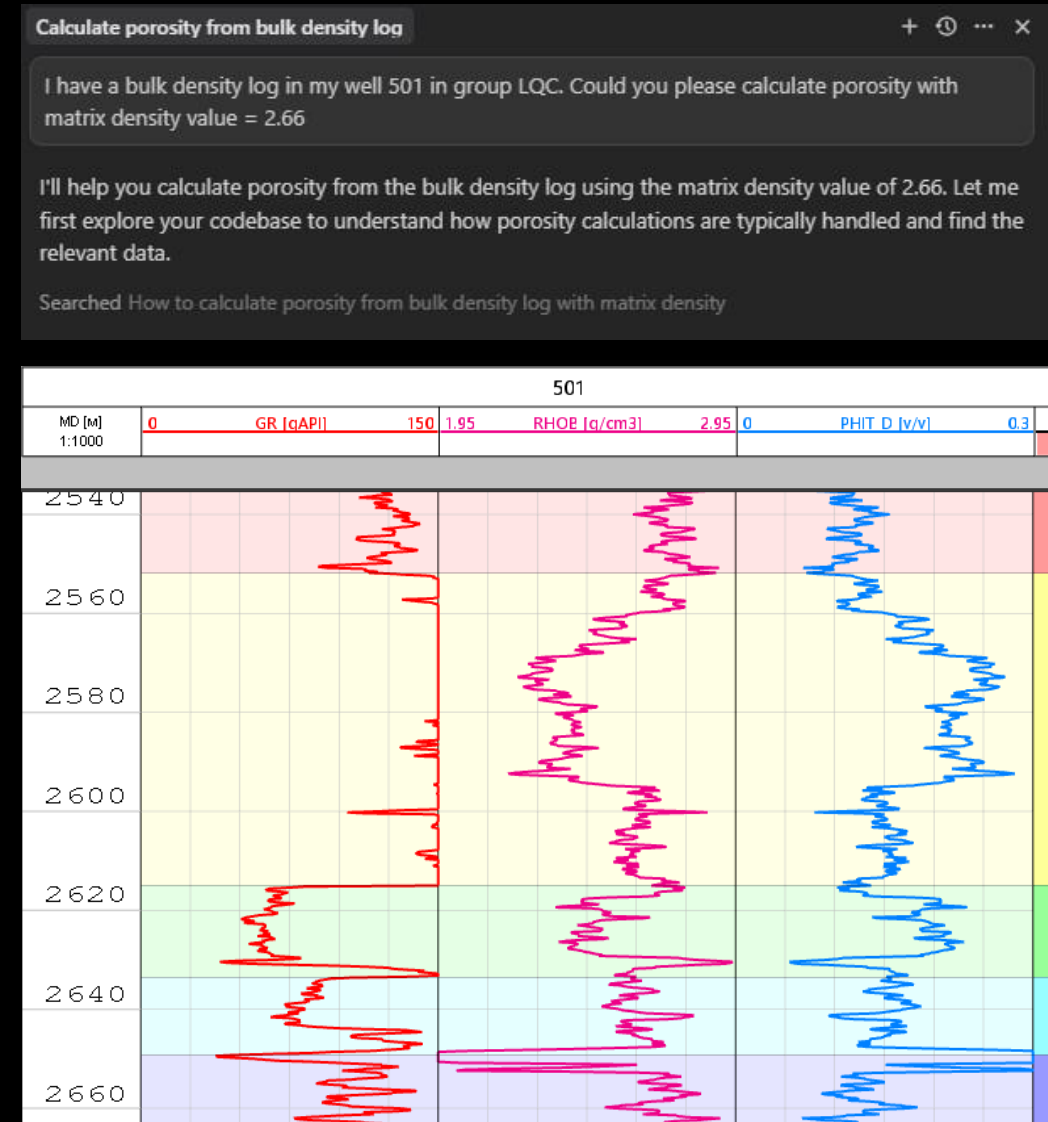
Acoustics advanced processing

FAST AND RELIABLE MAPPING



AI driven solutions

- Seamless Native Integration with the world's most powerful LLM tools
- The Only Solution Fully Integrated with cutting-edge Generative AI
- Deep Domain Expertise + API Access for next-gen AI engines



Example 1. Calibration of calculations for core data

I have core porosity in my well 501 and currently calculated porosity doesn't fit well to my core data. could you please find best parameters for density of fluids and matrix in equation to better fit by log porosity to core data?

I'll help you find the optimal parameters for matrix density and fluid density to better fit your log porosity to core data. Let me first explore your codebase to understand how core data is handled and then create a script to perform parameter optimization.

Perfect! Now I can see that core porosity data is stored as 'CPHI' in the 'CORE' group. Let me create a parameter optimization script that will find the best matrix and fluid density values to fit your log porosity to core data.

Create parameter optimization script to find best matrix and fluid de... 1 of 3

porosity_parameter_optimization.py (new) +276

2 of 3 Done View All

Create parameter optimization script to find best matrix and fluid density values

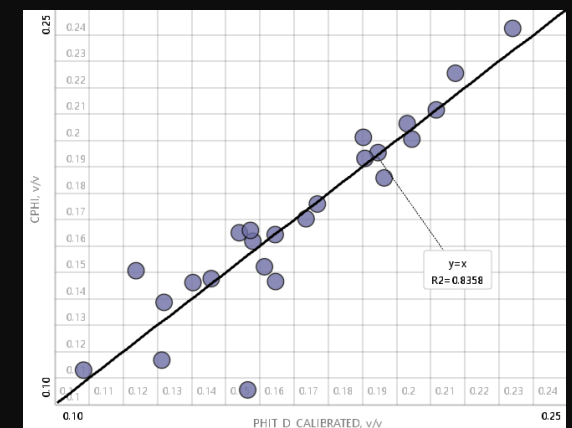
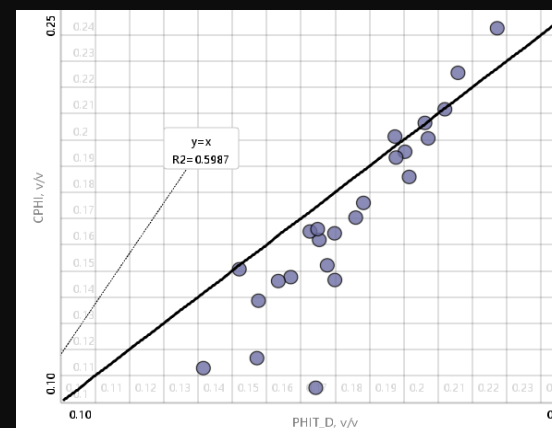
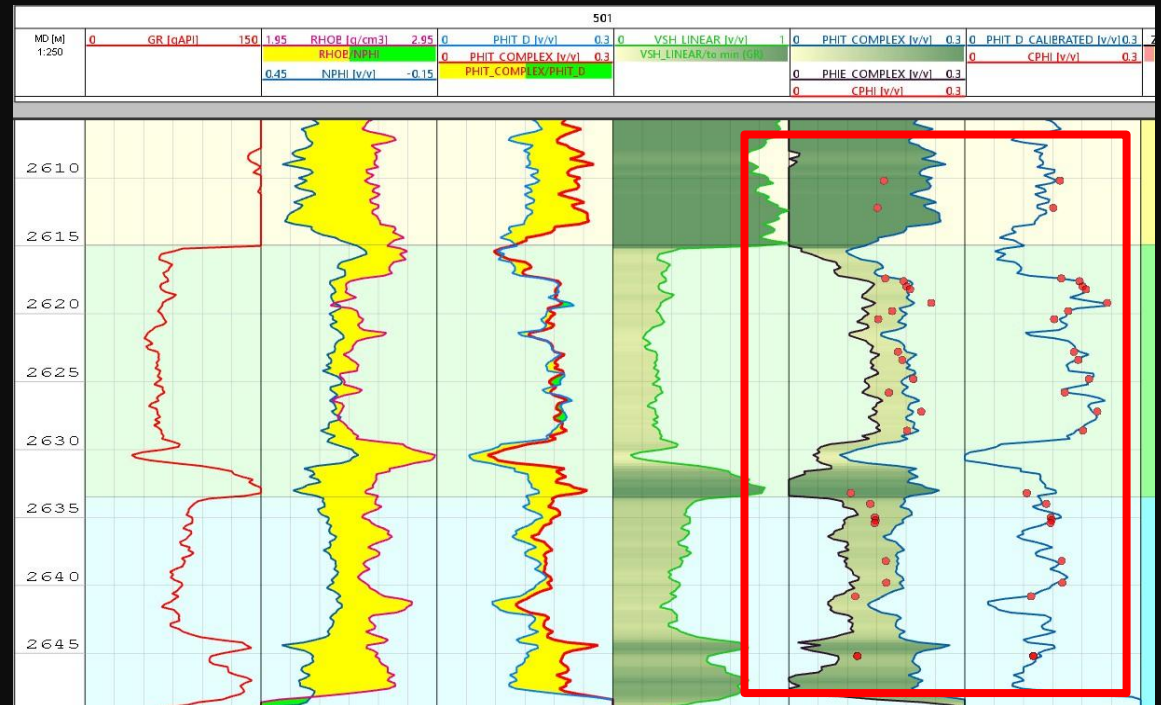
Test the optimization script with well 501 data

Perfect! I've created a comprehensive parameter optimization script that will help you find the best matrix and fluid density values to fit your log porosity to core data. Here's what the script does:

Key Features:

1. Data Loading & Preparation

- Loads bulk density log (RHOB) from LQC group
- Loads core porosity data (CPHI) from CORE group
- Interpolates both datasets to a common depth reference
- Removes invalid data points



Ex 2. Log reconstruction using Generative AI and ML algorithms

Calculate porosity from bulk density log

I have GR, RHOB, NPHI logs in some wells. I would like to use machine learning algorithms to train AI model to be able to reconstruct RHOB log in well where it is absent

I'll help you create a machine learning model to reconstruct RHOB (bulk density) logs using GR (gamma ray) and NPHI (neutron porosity) logs. Let me first explore your codebase to understand the existing ML capabilities and then create a comprehensive solution.

To-dos 4

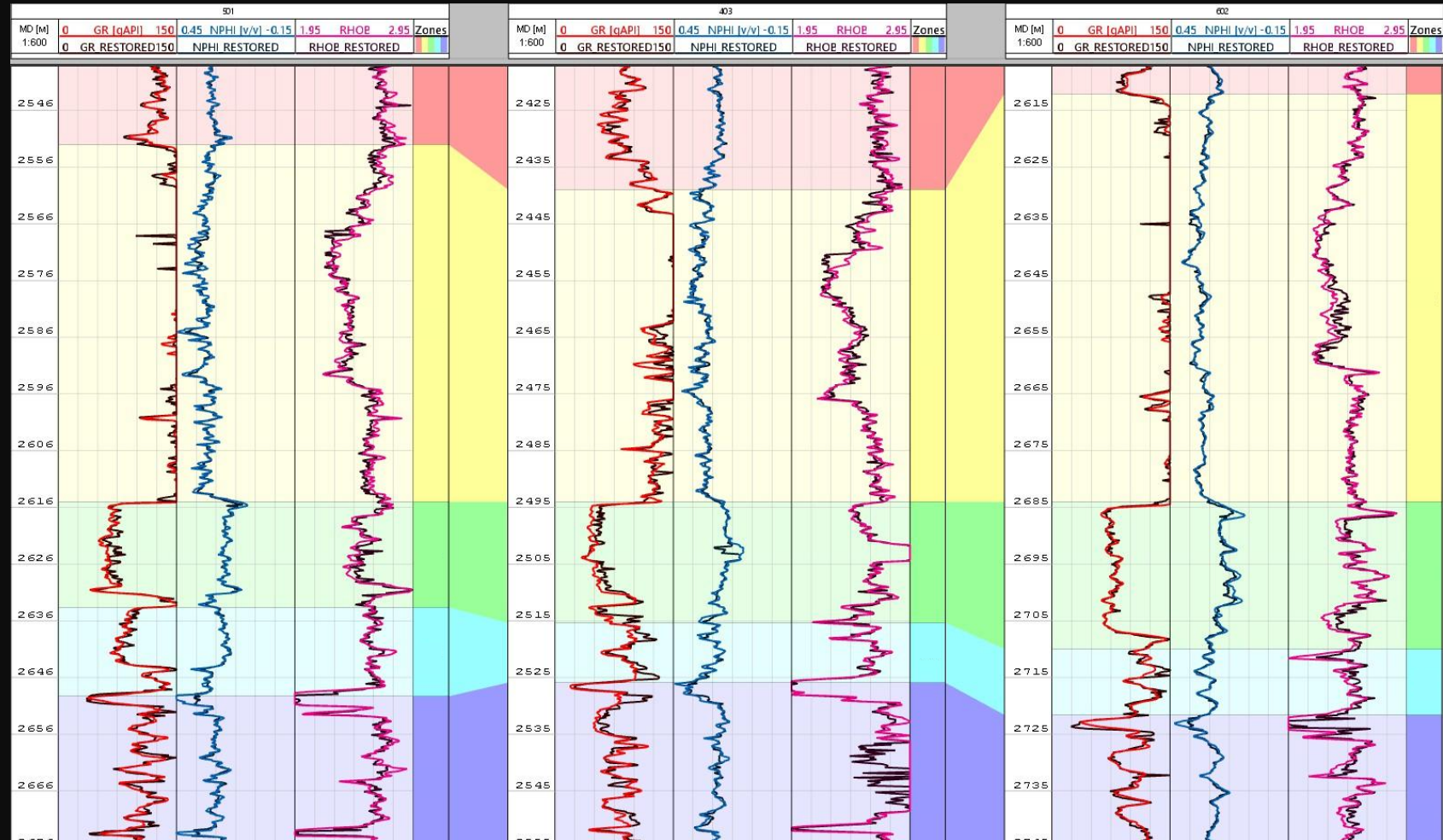
- ➔ Explore existing ML capabilities and examples in the codebase
- Create ML model to predict RHOB from GR and NPHI logs
- Implement model training and validation pipeline
- Create script to apply trained model to wells without RHOB

Perfect! I've created a comprehensive machine learning solution for RHOB log reconstruction. Here's what the script provides:

Key Features:

1. Advanced Machine Learning Pipeline

- **CatBoost Regressor:** Robust gradient boosting algorithm
- **Feature Engineering:** Creates 10+ engineered features from GR and NPHI
- **Cross-validation:** 5-fold CV for reliable model evaluation
- **Model Persistence:** Save/load trained models for reuse



Example 3. Log data QC using ML

ok. lets analyse all my Wells in Project FieldData and based on logs GR, RHOB, NPHI, DT lets find outliers and visulaze them on crossplot. Also please create CSV table with all details of analysis inside

I'll create a comprehensive outlier analysis script that examines all wells in your FieldData project using GR, RHOB, NPHI, and DT logs. The script will identify outliers using multiple statistical methods and create detailed visualizations and CSV reports.

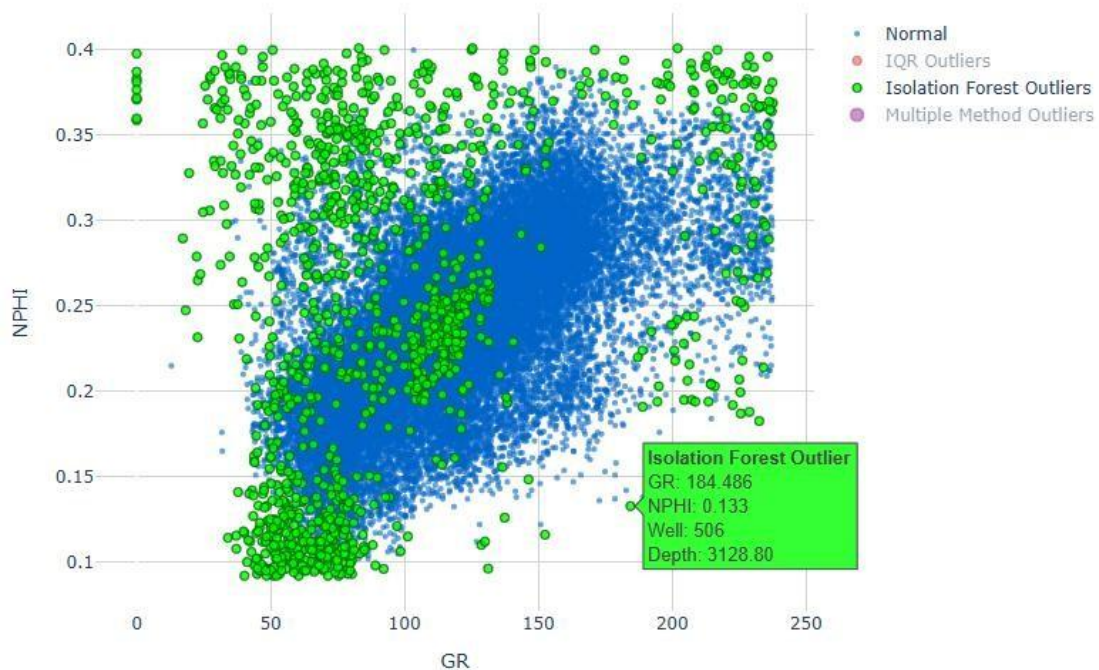
Crossplot is not clear for this purpose. Could you please create histogram and show Wells with the biggest amount of outliers?

✦ Summarizing chat context

I'll create a script that generates histograms to visualize the distribution of outliers across wells and highlight the wells with the most outliers. This will provide a clearer view of data quality across your field.

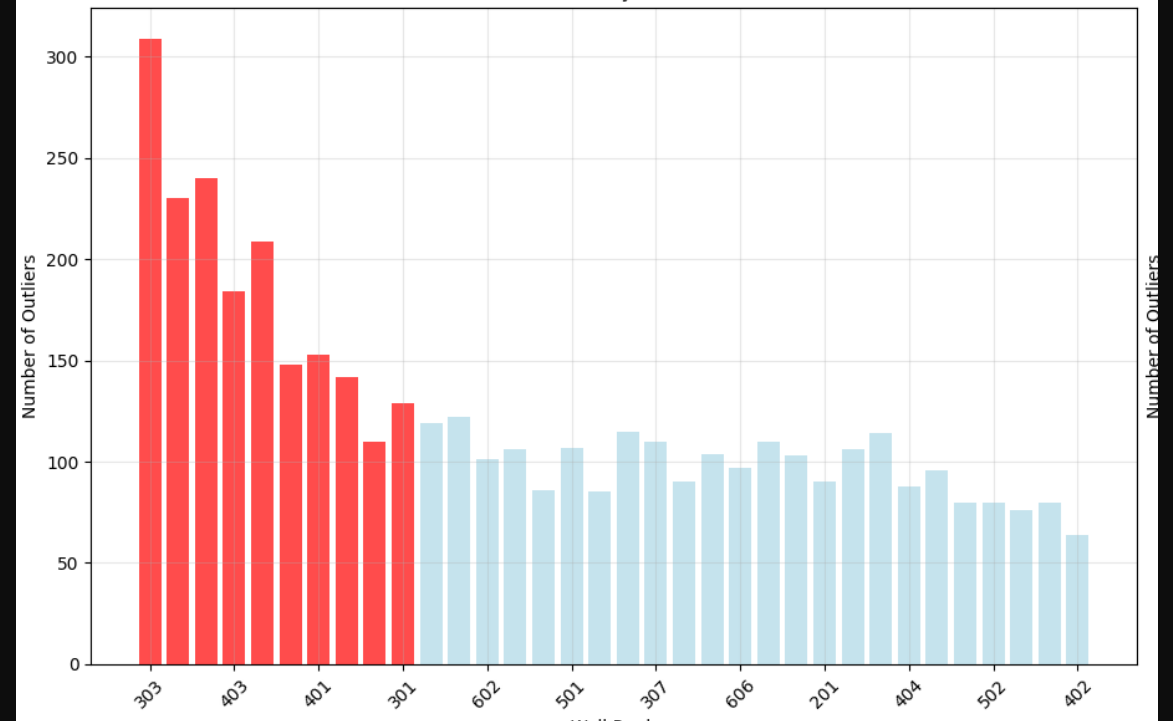
GR vs NPHI - Interactive Outlier Analysis

Correlation: 0.535



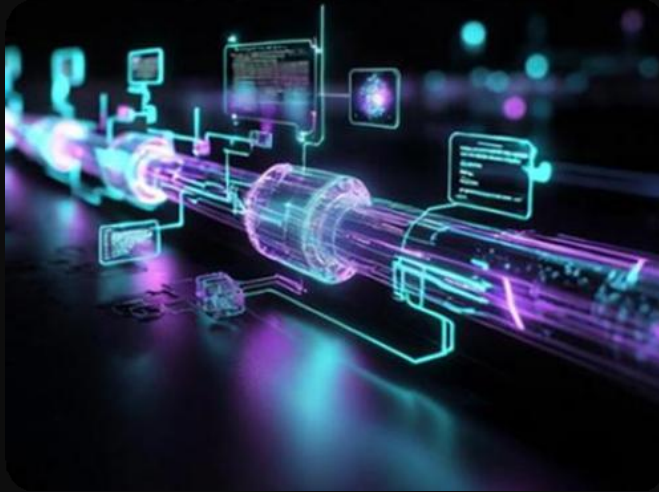
Wells Ranked by IQR Outliers

Well Ranking by



HIGHLIGHTS OF WELLBORE.AI

#1 in automation
Superior level of automation from wellbore data QC and pre-processing to petrophysical interpretation and final reporting



ML/AI ready
Implementation of advanced AI algorithms, ML and NN allows to achieve reliable interpretation results and fabulous performance on such calculations



Outstanding performance
Advanced computing capabilities on CPU and GPU hardware are used to achieve the required speed of computation and visual analysis of large data amount



Database and real-time collaboration.
Store everything, collaborate with colleagues in real-time, track changes and get rid from silos in wellbore data workflows.



Email: info@gpst.com.pk

Phone: +92 321 4588961

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Your personal wellbore expert

*Next-generation AI-Powered wellbore data
processing and interpretation software*

Lubinetz Aleksey, CEO and founder
Dubai Digital Park, Building A1
Mobile (UAE): +971 58 554 0649
Email: alex.lu@wellbore.ai