

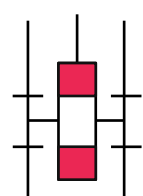
RODSIM

Rod Lift Design-and-Simulation Platform

POWERED BY PETROBENCH™

Fast and Effective Rod Lift Modeling and Well Analysis with Cloud-Native Collaboration and Asset-Wide Flexibility

Elevate rod lift strategy, well production, and bottom-line optimization with new Weatherford RodSim, Powered by PetroBench™—an exclusive design-and-simulation platform built for next-generation, rod lift specifications. RodSim efficiently provides centralized, Cloud-based well data for team-wide cooperation equipped with multi-scenario modeling, design comparison, and information analysis. Model fluid properties, pump parameters, and well conditions in real-time for continuous rod-pump optimization, operations management, and equipment monitoring from any Web browser, anywhere.



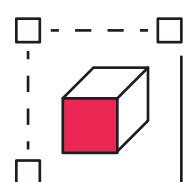
TOTAL ROD-SYSTEM DESIGN

Create rod-pumped wells with cubic-spline-wellbore modeling and multi-scenario comparison in a secure Web browser.



MULTI-SCENARIO COMPARISON

Evaluate up to five rod-pump designs in a single view. Compare production rates and mechanical stress across scenarios and set the base case.



IN-BROWSER SIMULATION

Visualize parameter changes and predict equipment behavior under various conditions in under 30 seconds—allowing multiple candidate-runs at once.



FAILURE ANALYSIS

Bulk-simulate across changing wellbore conditions to identify failure-causes. Inform design changes that prevent failures and extend equipment life.



WELL-DEVIATION ANALYSIS

Adjust step length down to 10 ft for high-resolution surveys and identify critical stress and wear zones including centralizer placements.



CUBIC-SPLINE INTERPOLATION

Add strategic cubic splines so loads follow established survey designs and deviated wells maintain their designated angles.

Exclusive RodSim Capabilities

- ✓ Secure browser access from any device
- ✓ Free, automatic updates
- ✓ Field-level, multi-design differentials
- ✓ Real-time, same-well collaboration
- ✓ User/timestamp audit tracking
- ✓ Unlimited Cloud-parallel scenarios
- ✓ Direct integration with Snowflake®, Databricks®, Azure®, and WellView®

Accelerate Well Design with Smarter Answers



High-Speed Specifications

Respond to evolving well conditions with continuous fluid modeling and new pump for fast for optimized equipment selection before deployment.

Get Instant Results

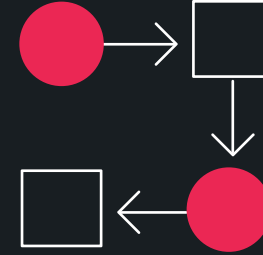
Design complete rod lift systems in under 10 seconds. Scenarios run in parallel in the Cloud with no case-count ceiling, and up to five designs that sit side-by-side in the Comparison Tool. Differentiate pump size, stoke, speed, and taper—all without reopening files.

Take-On Deviated Wells

Configure step resolution down to 10 feet and interpolate cubic-spline surveys for a truer picture of side loading and rod wear in directional wellbores. Plot against DLS curves with color-coded tapers so guide placements are visible, not inferred.

Connect Directly

Drag-and-drop deviation surveys (.xlsx/.csv files) pull fluid levels straight from fluid-shot records and let IPR auto-calculate from test data. Import existing RODSTAR® and SROD™ files directly to retain all design histories.



Flexible Functionality

Improve rod lift strategy, production, and efficiency with centralized well data, team-wide access, and multi-scenario modeling.

Work from Anywhere, Together

Access any browser on Windows, macOS, Linux, and iPad. Share simulations on a secure link, collaborate live in the same workspace with other engineers at the well or with Weatherford during joint design reviews.

Centralize Well Databases

Create a system-of-record with organization-scoped equipment libraries, role-based access, and connections to Snowflake®, Databricks®, Azure®, WellView®. SSO and SCIM allows access to multiple applications and automates user accounts and client-ready PDF reports.

Keep Every Change

Save all versions automatically and get field-level differentials between any two versions. One-click restorations and full audit trails with user and timestamps are easy and peer reviews are shared with a secure link—not “final_v3” file names.