

# Proposed Pilot Evaluation Program

*Rebound Production Recovery Technology*

A practical field evaluation framework for selected mature oil wells

<b>Document status</b>	Operator discussion draft
<b>Primary audience</b>	Production, operations, and technical evaluation teams
<b>Product name</b>	Rebound
<b>Prepared for</b>	Operator pilot evaluation discussions
<b>Date</b>	June 2026

## **Proposal purpose**

This proposal defines a practical, data-driven pilot structure for evaluating Rebound under operator-controlled field conditions.

*Confidential operator-facing proposal*

## 1. Pilot Objective

The objective of the proposed pilot is to evaluate Rebound on selected mature oil wells under operator-controlled field conditions. The pilot should determine whether Rebound improves production response, flow efficiency, pressure behavior, flowback behavior, or maintenance-related indicators relative to a documented baseline.

### Core pilot question

Can Rebound improve measurable production or operating performance in selected mature wells where near-wellbore flow restriction, hydrocarbon adhesion, or flow inefficiency may be limiting production?

## 2. Pilot Scope

The pilot is designed as a practical field evaluation, not a full-field commercial deployment. The initial scope should be limited to a small number of candidate wells with sufficient baseline data and operating access.

Pilot Element	Recommended Scope
Initial well count	1 to 5 candidate wells, depending on field access, operator priorities, and data quality.
Baseline period	A defined pre-application period long enough to establish typical production, pressure, and operating behavior.
Monitoring period	A defined post-application period, typically 21 to 60 days, adjusted to local field conditions.
Primary evaluation	Oil production response, gas response where applicable, water behavior, pressure behavior, flowback observations, downtime, and maintenance indicators.
Decision point	Expand to additional wells, repeat under modified conditions, or stop if no meaningful response is observed.

## 3. Candidate Well Selection

Candidate selection is the most important part of the pilot. Rebound should be evaluated on wells where production decline may be related to restricted flow efficiency rather than complete reservoir depletion.

Preferred Candidate Criterion	Reason for Inclusion
Mature producing well with measurable decline	Allows the operator to compare post-application response against a known production trend.
Stable recent baseline	Reduces uncertainty and helps distinguish product response from normal production variation.
Suspected near-wellbore restriction or impaired flow	Aligns the pilot with the proposed Rebound mechanism and field value proposition.
Accessible wellbore or injection pathway	Ensures the field application can be performed safely and consistently.
Available oil, gas, water, pressure, and downtime records	Allows technical review and defensible performance interpretation.
No unresolved major mechanical issue	Avoids attributing mechanical repair effects to chemical performance.

## 4. Baseline Data Package

Before any field application, the operator and Rebound team should agree on the baseline dataset. The baseline is used to establish the comparison point for the post-application monitoring period.

Data Category	Requested Information
Well identification	Well name/number, field, formation, depth, completion notes,

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	artificial lift system.
Production history	Daily or weekly oil, gas, and water production for the agreed baseline period.
Pressure and pump data	Injection pressure, pump pressure, pump run time, pump loading, and energy usage where available.
Mechanical history	Recent workovers, pump changes, downtime, tubing/pump problems, paraffin or solids history.
Recent treatments	Acid, solvent, surfactant, hot oil, paraffin treatments, or other chemical applications.
Operating constraints	Field access, safety requirements, injection limitations, fluid handling, produced-water system constraints.

## 5. Proposed Field Application Concept

The final field procedure should be developed jointly with the operator. This proposal does not replace operator-approved procedures, SDS review, or site-specific safety requirements.

- Confirm candidate well, baseline period, and monitoring window.
- Confirm Rebound application route, volume, concentration, contact time, and shut-in or circulation requirements.
- Record all application details, including time, volume, dilution, contact period, pressure, and operating status.
- Resume or continue operations according to the agreed field procedure.
- Begin post-application monitoring immediately and record operating events that may affect interpretation.

## 6. Monitoring Plan

### Pilot Evaluation Workflow



**Decision point: expand, repeat with modified conditions, or stop.**

The monitoring plan should be simple enough for daily field use but detailed enough to support a credible technical review.

Measurement	Frequency	Purpose
Oil production	Daily or normal operator reporting interval	Primary production response indicator.
Gas production	Daily where metering is available	Secondary response indicator, especially where prior gas response was observed.
Water production / water cut	Daily or routine reporting interval	Determines whether oil response is associated with water behavior changes.
Pressure data	Daily or continuous where available	Evaluates pressure reduction, pump loading, or flow efficiency changes.
Flowback observations	During and after application	Documents solids, sand, formation material, paraffin, emulsion behavior, or recovered oil.

Measurement	Frequency	Purpose
Downtime / mechanical events	As they occur	Protects the interpretation from mechanical or operational interruptions.

## 7. Success Criteria and Decision Gate

Success criteria should be agreed before field execution. The pilot should not depend on one single metric; it should evaluate the combined technical response.

Indicator	Positive Pilot Signal	Decision Relevance
Production response	Oil or total hydrocarbon production increases above baseline trend.	Supports expansion to additional wells.
Pressure behavior	Injection or pump pressure decreases for comparable operating conditions.	Supports improved flow efficiency or reduced mechanical strain discussion.
Flowback behavior	Recovered formation material, solids, paraffin, or separated oil is observed.	Supports near-wellbore cleanup or mobilization interpretation.
Maintenance indicators	Reduced downtime, workover frequency, pump strain, or flowline restriction is observed.	Supports economic value discussion if verified with records.
Repeatability	Similar response is observed in more than one suitable candidate well.	Supports broader deployment decision.

### Decision gate

At the end of the monitoring window, the operator and Rebound team should decide whether to expand to additional wells, repeat under adjusted conditions, or stop the evaluation.

## 8. Roles and Responsibilities

Activity	Operator Responsibility	Rebound Team Responsibility
Candidate selection	Provide well list, production history, mechanical history, and access constraints.	Review candidates and recommend pilot shortlist.
Baseline definition	Provide agreed baseline data and confirm reporting intervals.	Define baseline comparison approach and data template.
Field procedure	Approve site-specific procedure, safety requirements, and field access.	Provide product guidance and application support within operator-approved procedure.
Execution	Control field operations, personnel, equipment, and site safety.	Support application and record product-related details.
Monitoring	Record production, pressure, downtime, and operating events.	Maintain pilot tracker and review data trends.
Final review	Validate operating events and production records.	Prepare pilot summary and expansion recommendation.

## 9. HSE, Regulatory, and Handling Requirements

All field use must follow operator-approved safety procedures, local regulations, transport requirements, storage requirements, and the current product SDS. Any handling claims, biodegradability claims, flashpoint claims, or toxicity claims should be reconciled with the current SDS and approved regulatory language before external use.

- Review current SDS before field execution.
- Confirm PPE, spill response, storage, transport, and waste-handling requirements.
- Confirm compatibility with produced water, field fluids, equipment, and downstream handling systems.
- Confirm whether any operator-specific chemical approval process is required before application.

- Document field handling, product batch/lot, volume, dilution, and application conditions.

## 10. Proposed Pilot Timeline

Phase	Typical Duration	Primary Output
Candidate review	1-2 weeks	Shortlist of wells and required data package.
Baseline confirmation	2-4 weeks, depending on data availability	Agreed baseline production and operating profile.
Field application	1 day to several days, depending on procedure	Recorded Rebound application and field conditions.
Monitoring period	21-60 days	Production, pressure, flowback, and operating data.
Technical review	1-2 weeks	Pilot report and decision recommendation.
Deployment decision	Operator-defined	Expand, repeat with adjustments, or stop.

## 11. Pilot Deliverables

- Candidate well selection summary.
- Baseline production and pressure summary.
- Field application record.
- Post-application monitoring table.
- Production response chart.
- Pressure and operating behavior summary.
- Flowback and field observation summary.
- Technical interpretation and decision recommendation.

## 12. Appendix: Candidate Well Screening Worksheet

Screening Question	Yes/No/Notes
Does the well have a documented production decline?	
Is recent baseline production stable enough for comparison?	
Is there suspected near-wellbore restriction, solids, paraffin, or impaired flow?	
Is the well mechanically suitable for evaluation?	
Are oil, gas, water, pressure, downtime, and workover records available?	
Can the operator safely execute the proposed application route?	
Are there recent treatments or repairs that could interfere with interpretation?	
Is the operator willing to monitor the well through the agreed evaluation window?	

### Final note

This pilot proposal is intended to support a structured technical discussion. Final procedures, success criteria, safety requirements, and field responsibilities should be agreed with the operator before execution.