

90 Day Try and Buy

Revelant is a green production optimization company.

Simplistically, the financial performance of a particular oil well is influenced by the characteristics of the well and reservoir such as pressure, well productivity, depth, diameter of the well, completion design, and physical properties of the fluids.

Oil properties such as API gravity, cloud point, pour point, paraffin content, asphaltene content, and viscosity affect well profitability. Water properties also impact profitability due to scale, corrosion, and disposal costs. Furthermore, gas can be corrosive as well as affect the pumping efficiency. When these three types of fluids come together, emulsions can also be problematic and thus affect production volumes and remediation costs.

Historically, on-going chemical programs have been employed to improve well profitability. Unfortunately, chemical programs can be costly, do not end, and do not always yield the desired results, hence the need for hot oiling, knife cutting, stripping jobs, or other costly workover techniques.

Revelant addresses these production challenges by utilizing materials that are not magnetic or nuclear; they do not use radio frequency; they are not externally powered and they are not “charged” during manufacturing.

The materials we use absorb the energy of the surrounding environment and filter specific frequencies of the energy source. The filtered frequencies are transmitted and drive changes in the physical characteristics of the well fluids. In this way, the materials affect the way that molecules in the fluids vibrate and changing molecular-level vibrations affects how molecules interact with one another.

The results are production at a lower cost because paraffin commonly remains soluble, asphaltenes continue to be dispersed, calcium carbonate crystal polymorphs change and/or remain more soluble, and the oil/water

Features

- ◆ Environmentally friendly
- ◆ Uses Revelant Materials Science Technology
- ◆ Produced fluid properties remain stable over time.
- ◆ Engineered for H₂S service
- ◆ Applicable with rod pump, ESP, plunger lift and flowing wells
- ◆ Easy to install
- ◆ Helps keep subsurface and surface pipe clean

Benefits

- ◆ Reduces well downtime
- ◆ Stabilizes production to follow the closer natural decline curve
- ◆ Increases equipment efficiency
- ◆ Reduces downtime for remedial surface and subsurface pipe clean outs
- ◆ Extended product life
- ◆ Reduces handling of toxic chemicals and chemical waste
- ◆ Reduces chemical costs
- ◆ Reduces hot oil treatments
- ◆ Reduces high tank bottoms and BS&W



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1. Look for problem wells: these are wells that have severe paraffin problems, frequent interventions, and "saw-tooth" production patterns.
2. Our number one priority is our customer's economic success and this comes from the correct application of the technology. Together with the operator, we decide if the well is a candidate for a 90-day trial based upon the well information provided by the operator:
 - Production history (BOPD, BWPD, MCFD, interventions, chemical program, etc.)
 - Well bore diagram
3. We mutually define success with the operator by selecting the most appropriate criteria. Some of the metrics we have agreed upon in the past include:
 - Financial metric: payback period, net present value, or internal rate of return
 - Comparison of lab results
 - Pull the well after 90 days
 - Measure rod loads
 - Evaluate pump cards
 - Determine working fluid levels
 - Measure flow line pressures
 - Measure flow rates
 - Visual inspections of surface lines.
4. To establish a baseline, an oil sample must be pulled at the wellhead prior to installation. A fluid analysis is performed. (The operator may already have a complete oil analysis in the well file).
 - Industry standard oil analysis includes % paraffin, % asphaltene, % solids, API Gravity, Cloud Point, Pour Point.
5. During the downhole installation, The well must be properly cleaned (bailed, chemical sweeps, tubing steamed, etc.)
6. Put well back on production and suspend paraffin treatment.
 - The fluid changes happen as soon as the tool is installed. Once the production rate has stabilized a representative goes to location and pulls another set of wellhead samples to be analyzed.
 - Our representative is on location for production issues that may involve our technology, all visual inspections and anytime the tools are pulled.
7. To demonstrate effectiveness of the technology, we use the collected data to prepare an analysis of the well performance pre and post installation.
8. If the operator is not satisfied with the well results, simply return the product.