Challenge:
In the North-East of Venezuela, Punta de Mata fields, wells recompleted during Workover interventions yielded unsatisfactory production results due to severe near wellbore damage:
- High formation damage induced by drilling and workover fluids invasion.
- High heterogeneity, multi-layers field.
- Asphaltenic flocculation.
- Fines migration intensified by high production drawdown pressure.

Additional Challenge:
As the field and reservoir complexity increase, conventional techniques have resulted in limited success in many cases failing to increase or recover well production:
- Standard re-perforating jobs without success
- Matrix Stimulation with limited results
- Coil tubing clean up without good results

Analysis:
- Mechanical: completion integrity.
- Petrophysics analysis per interval
- Dynamic: Multirate tests, Production Logs and Build-up transient tests. NODAL analysis.
- Wellbore damage-skin characterization and evaluation per interval. Perforating analysis.

Solution:
A tailored wireline Dynamic Underbalance Re-perforating:
- Customized for each interval to treat.
- Using controlled and focused dynamic under balance, for effective removal of near wellbore formation and perforating damages.
- Designed with specialized Simulator and Hardware.
- Combined with new ultra-deep penetrating shaped charges, specially designed for stressed-rock performances.
- Perforating systems (gun size, charge type, shot density) selected to optimize flow profile and well productivity.

Results:
The results obtained under such challenging conditions prove that the technique of Dynamic Underbalanced Re-perforating:
- Is very effective in removing severe formation and perforating induced damages.
- Delivers skinless perforated completions.
- More than triples well production.
- Cost effective intervention.