

Expro Excellence

Three Years of Trusted Performance in Guamal profundo 1 and Tejón 1

Well Flow Management | Well Testing



Objectives and background

- Over the past three years, Expro has partnered with Ecopetrol to execute extended well testing (EWT) operations on two exploration wells—Guamal and Tejón—in Colombia’s CPO-09 block
- These operations were crucial for evaluating the upper and lower T2 reservoir formations and supporting future development planning
- The wells are located in a remote exploration area without infrastructure to connect to a central processing facility. Both wells produce heavy crude oil with 8.1° API gravity under low pressure, requiring artificial lift via submersible pumps and onsite treatment to meet regulatory standards for sale
- To comply with Colombia’s Resolution 40236/2022, operations needed to deliver oil with sediment and water (BS&W) content below 0.5%. This required establishing an on-site treatment process to meet the required specification
- In alignment with Expro’s values, the project was designed for operational excellence, environmental responsibility, and active engagement with the local community

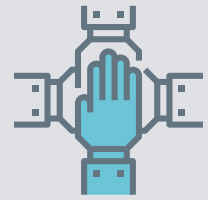
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- Expro delivered the project through a pre-engineered setup and rigorous planning, leveraging proven processes and high-quality equipment for consistent, high-integrity operations
- A local workforce was integrated into operations, trained by Expro to build technical capacity and embed company values, fostering long-term community benefits
- Technical complexity was managed by adapting boiler systems to utilize produced gas as a combustion source, enhancing fuel efficiency and reducing emissions
- As operations progressed, the setup was optimized by unifying separator streams, minimizing equipment footprint, and improving cost-effectiveness without compromising performance
- Environmental impact was reduced through solar-powered lighting and rain water reused for steam generation on boilers

Value to the client

- As a result of the collaboration between Ecopetrol and Expro over 632,000 barrels of net crude oil have flowed through Expro’s equipment across flow test periods. What started as a short well test has now developed into an early production facility (EPF). This collaboration has led to reduced costs while maintaining high service quality
- Operations have been continuous and uninterrupted for over three years, with no major rework
- The setup enabled on-site dehydration and direct delivery of crude oil to the sales line, eliminating the need for further treatment by Ecopetrol and simplifying logistics in an area with no CPF access
- Full compliance with environmental regulations was ensured across all phases
 - Measurement and fluid handling requirements in accordance with Resolution 40236/2022
 - The environmental standards established by Ecopetrol are in accordance with the requirements of the current environmental licensing regulations under Decree 1076 of 2015 (ANLA)
- Operating costs were reduced through pump optimization and the use of produced gas for energy generation
- Ecopetrol has recognized the asset as a strategic discovery. The Lorito field is part of the CPO-09 exploration and production block, with a declared recoverable resource potential of 250 million barrels of oil, making it one of Colombia’s most significant finds in the past decade

Partnership



Quality standard

