

Flawlessly Executed Operation Using the TrackMaster Select* Hard Formation System in a Deep-Well Application in Colombia

Four laterals were drilled in 7 inch casing to help increase the drainage area across the reservoir.

A multilateral well construction challenge in a deep, hard rock application.

The customer required a rapid response to execute a challenging deep-well multilateral project in the foothill plains of Colombia. Two of the customer's main objectives were to increase the drainage area across the reservoir thereby increasing production from the well.

The Wellbore Integrity Solutions' (WIS) Colombia team analyzed and simulated the critical facts concerning the operation before work began. The WIS operation team's dedication and expertise allowed them to successfully complete the first whipstock retrieval in Colombia and deliver superior performance with outstanding service quality.

SUMMARY OF WELL APPLICATION				
Lateral No.	Top of the Well (ft)	Lateral Length (ft)	Casing	Formation UCS (Kpsi)
1	18,483	387	7 inch	
2	18,069	1,000	32 ppf	
3	17,249	94	P-110	> 30
4	17,214	1,000	13% Cr	

CHALLENGE

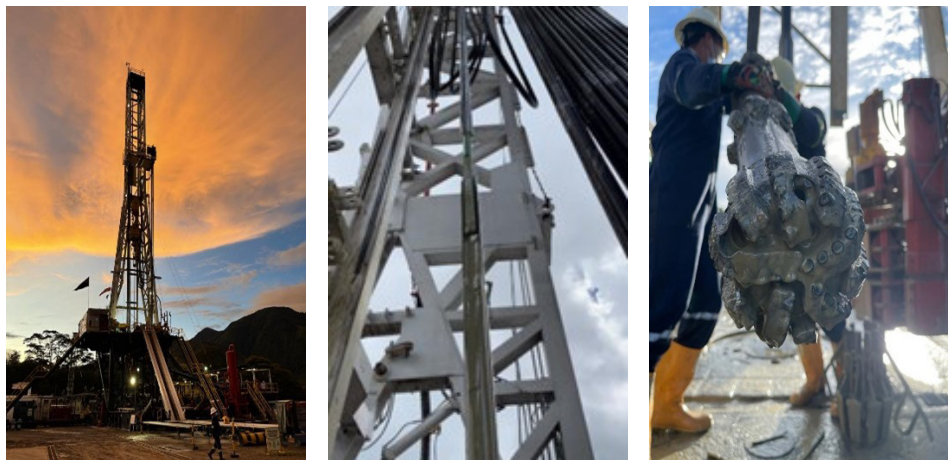
The customer needed to enhance the drainage area across the reservoir. The best solution was to drill a multilateral well (4 laterals) in 7 inch, 32 ppf, P-110, 13% Cr casing. Possible torque issues dictated that the casing exit should be performed with a Positive Displacement Motor (PDM) in a high compressive strength formation.

SOLUTION

WIS recommended TrackMaster Select Hard Formation (HF) Systems configured with hard formation bit-mills to complete the four laterals successfully. After milling the windows, drilling to total depth continued and each lower completion deployed.

RESULTS

- Four laterals were successfully completed in a 7 inch, 32 ppf, P-110, 13% Cr casing and a hard formation with a UCS > 30 Kpsi.
- Whipstocks and anchors were successfully retrieved for each lateral.
- Subsequent directional drilling assemblies passed freely through the window, allowing drilling operations to continue.
- Lower completion assemblies passed freely through the windows to complete each lateral.
- The customer's objectives were achieved.



Deep-well multilateral TrackMaster Select HF System project in Colombia.

TrackMaster Select™

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE



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