

LLANOS BASIN, AGUAS BLANCAS 27
 CASANARE, COLOMBIA

Lithology	Siltstone, sandstone, sand, claystone
Interval	12¼ in
Depth	60–726 ft [18.29–221.29 m]
Flow rate	200–600 galUS/min
Speed	30–135 rpm
WOB	4,000–18,000 lbf [17,793–80,068 N]

Background

Parex Resources wanted to improve ROP while drilling a 12¼-in shallow section for a 9½-in casing. Using the i-DRILL* integrated dynamic system analysis service, a drill map was developed for the section depth from 60–726 ft [18.29–221.29 m]. While the drill time of the nearest offset was 15 hours, the plan using a Direct XCD* drillable alloy casing bit predicted 8½ hours of drill time.

Technology

- Direct XCD drillable alloy casing bit
- i-DRILL integrated dynamic system analysis service

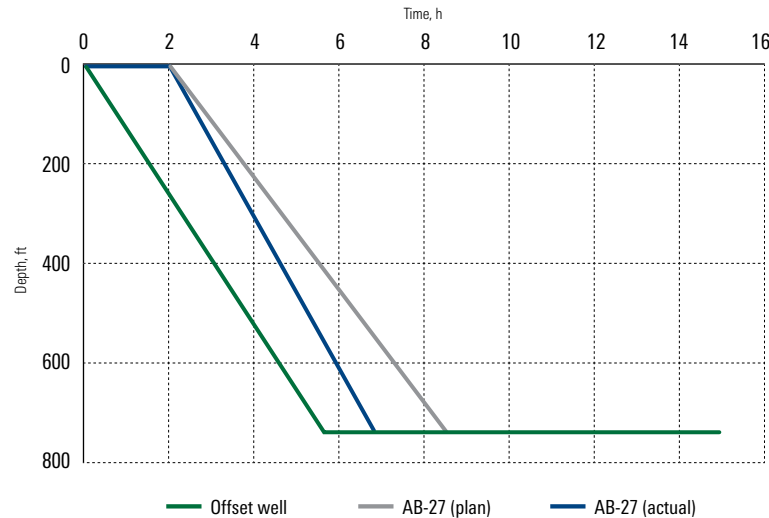
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Direct XCD Bit Helps Parex Resources Reduce Drill Time by 17.6% Below Plan and 53% Below Nearby Offset

Drillable alloy casing bit achieves effective ROP of 301.8 ft/h in Colombian well



The Direct XCD bit reached target depth within 7 hours of drilling time, which is 1.5 hours less than the planned drilling time and 53% less than the drilling time required on a nearby offset. This represents an average ROP of 132.8 ft/h.

