Revolution[®] **Core RSS** Drills Challenging Well 7 Days Early and \$700,000 Ahead of AFE

Objectives

- Drill through high-temperature and very dense limestone and sandstone formations in the Austin Chalk and Anachacho formations to a total depth (TD) of 16,559 ft (5,014 m).
- Increase rate of penetration (ROP) and reduce nonproductive time (NPT). Three other service providers had previously experienced several tool failures while drilling nearby wells.

Our Approach

- The Weatherford drilling team deployed an 8 1/2-in. bottomhole assembly (BHA) with the following configuration: a high-temperature azimuthal gamma ray (HAGR[™]) sensor and a hostile-environment-logging (HEL[™]) system to monitor downhole vibrations, including stick-slip, whirl, and lateral-axial torsional dynamics; DownLink Commander[®] bi-directional communication tool for possible trajectory changes; and a Revolution Core rotary steerable system (RSS).
- The BHA was tripped in hole and drilled out the casing and float shoe at 5,657 ft (1,724 m). The team then drilled vertically to a 10,770-ft (3,283-m) kickoff.
- The Revolution Core RSS built the curve section, landing at 90° inclination, in only 10 hours—one-third the time expended in previously drilled wells. The team continued drilling the lateral section to a TD of 16,559 ft (5,014 m) at an average ROP of 104 ft/hr (32 m/hr).

Value to Client

- Compared to nearby wells and the client authorization for expenditure (AFE), the well was completed 7 days ahead of schedule, for savings valued at US \$700,000.
 Based on this performance, the client selected these tools for future campaigns.
- The 104-ft/hr (32-m/hr) ROP represents a 75% increase compared to conventional motors.



LOCATION Texas, Eagle Ford Shale

WELL TYPE Onshore horizontal, oil

FORMATIONS Austin Chalk, Anachacho

HOLE SIZE 8 1/2 in.

WELL DEPTH

16,559 ft (5,014 m)

AVERAGE ROP 104 ft/hr (32 m/hr)

MAXIMUM HOLE TEMPERATURE 328°F (164°C)

PRODUCTS/SERVICES

- Revolution Core RSS
- HEL system
- HAGR sensor
- DownLink Commander tool



weatherford.com

© 2015 Weatherford. All rights reserved. 11862.04

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford and may be registered in the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents Specifications are subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.