



Better Ways to The Bottom™

CASE STUDY

Date: December 7, 2008

CS #: 27-081207-CDS-Chesapeake

TESCO Gets Casing to Bottom on Long Reach Wells in Barnett Shale Under DFW Airport.

OPERATOR: Chesapeake Energy

LOCATION: Barnett Shale, Dallas-Ft. Worth Airport, Tarrant County, TX

WELL NAMES: DFW A5HZ, A7HZ, A8HZ, and A9HZ (4 wells)

CONTRACTOR: Nomac Drilling, Rig #27

CASING: 5-1/2" N-80 BTC

BACKGROUND:

The Barnett Shale covers large areas of North Central Texas and Chesapeake Energy has the challenge of drilling Barnett Shale wells under the Dallas Ft. Worth International airport. These wells are drilled on the airport adjacent to busy runways, taxiways, major roads, freeways and buildings. Due to the large size of the lease and the obvious restrictions on well site locations, Chesapeake is required to drill these wells with long departures and laterals. Getting casing to bottom on these long reach wellbores is a significant challenge.

OBJECTIVE:

Drill multiple long reach wells under the airport from a single pad location on the north side of airport adjacent to taxiways servicing runways 18/36. These wells were drilled near vertical to approximately 8,000ft then directionally drilled with build rates up to 12°/100' for departures up to 9,000ft +.

PERFORMANCE:

Chesapeake Energy set records for the Barnett Shale running casing, setting a record for the longest departure of 9,356ft (Well DFW A5HZ) and the longest lateral of 7,359ft (Well DFW A8HZ). These records were achieved using TESCO's proprietary and enabling Casing Drive System™ (CDS™) technology, providing the ability to ream and circulate simultaneously while running the casing, overcoming challenging hole geometry and wellbore conditions and successfully getting casing to bottom. TESCO's new wireless TesTork™ system was used to accurately monitor connection make-up and reaming torques.

FOR MORE INFORMATION:

Visit TESCO's website at www.tescocorp.com or email casingrunning@tescocorp.com



Nomac Rig #27 at Dallas-Ft. Worth Airport



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Tesco Corporation / 3993 W. Sam Houston Pkwy N Ste. 100, Houston, Texas, USA, 77043 / Phone: 713 359 7000 / Fax: 713 359 7001 / Web: www.tescocorp.com