



Better Ways to The Bottom™

CASE STUDY

Date: August 29, 2009

CS #: 50-090829-CDS-Southwestern

TESCO Achieves Record Lateral Casing Run in Fayetteville Shale using the Casing Drive System™ (CDS™)



OPERATOR: SOUTHWESTERN ENERGY

LOCATION: Cleburne County, Arkansas

LITHOLOGY: Fayetteville Shale

MUD: Oil Based

RIG: Saxon 118

CASING TYPE: 5-1/2" 17# P-110 with GB connection

OBJECTIVE:

Drill an extended reach lateral in the Fayetteville Shale in an effort to maximize value.

BACKGROUND:

The Fayetteville Shale is an unconventional gas reservoir that extends across northern Arkansas from the state's western edge throughout north central Arkansas. Ranging in thickness from 50 to 550 feet and varying in depth from 1,500 to 6,500 feet, this Mississippian-age shale is the geologic equivalent of the Barnett Shale.

Southwestern Energy is the largest gas producer in the Fayetteville Shale with gross operated production of approximately 990 MMcf per day as of June 30, 2009.

During the second quarter of 2009, the company's Fayetteville wells had an average horizontal lateral length of 4,123 feet and average time to drill to total depth of 11 days from re-entry to re-entry.

PERFORMANCE:

Southwestern Energy set a new record for the longest ever lateral in the Fayetteville Shale. The horizontal section reached 5876' beating SWN's previous record by several hundred feet. This well also achieved a longest measured depth of 10,297' (TVD 4033'). These records were achieved using TESCO's proprietary and enabling Casing Drive System (CDS) technology, providing the ability to ream and circulate while running the casing. The ability of the CDS to rotate and reciprocate the string at the same time also added value to the cementing process. A full circulation cement job was achieved in the lateral section, reducing channeling typically experienced in this type of cementing application.

FOR MORE INFORMATION: marketing@tescocorp.com

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