

CASE STUDY

GYRODATA DELIVERS SUPERIOR PERFORMANCE IN THE PERMIAN, SETS NEW DRILLING RECORD

▶ TECHNOLOGY

- GyroDrill - Performance Motor
- MagGuide - Mud Pulse MWD

▶ APPLICATION

- Drilling Optimization
- One-Run Solution

▶ LOCATION

- Permian Basin (West Texas)

INDUSTRY CHALLENGE + OBJECTIVE

A major operator had a 8 well campaign in the Permian Basin and was proactively seeking opportunities to improve overall drilling performance.

The formation (Wolfcamp A) in this basin is characterized by thick undulating layers of varying rock type, therefore the drilling equipment must be carefully selected to maximize tool life and for strict maintenance of the differential throughout the respective section.

TECHNOLOGY + SERVICE SOLUTION

Gyrodata enlisted one of its directional drilling teams with extensive experience in this basin and configured a BHA featuring the 6³/₄" GyroDrill performance drilling motor, MagGuide MP MWD, and Ulterra U616 PDC bit to deliver both superior performance and efficiency.

The GyroDrill motor was selected to tackle these wells as it has drilled over two million feet in the Permian Basin and continues to raise the bar in reliability with a 99% successful run rate, and 98.5% operating efficiency.

RESULT + VALUE DELIVERED

- The 8 horizontal sections were successfully drilled in one-run with improved ROP as the campaign progressed.
- The project was completed several days ahead of schedule, **saving the operator significant rig time and associated costs.**
- The 8¹/₂" lateral (**7,704 ft**) of the final well was completed in **46.41 hours**, and with an average **ROP of 168 ft/hr**. This was the fastest conventional lateral drilled to date in the Permian Basin - setting a new record for performance amongst other directional drilling providers in the area.

CUSTOMER TESTIMONIAL

"Thank you for your outstanding performance on this (well and rig). This is the fastest conventional lateral that I am aware of in the Permian Basin. I believe your directional tools and directional expertise were the contributing factors to our success."

- Drilling Supervisor

