

## CASE STUDY

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

### ▶ TECHNOLOGY

- GyroDrill - Performance Motor
- MagGuide - Mud Pulse (MP) 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 Wolfcamp A zone within the Permian Basin and was proactively seeking opportunities to improve overall drilling performance.

This formation is characterized by thick undulating layers of varying rock type, therefore the selected drilling equipment and procedures must be optimized to extend tool life while maintaining a differential pressure that maximizes ROP.

### TECHNOLOGY + SERVICE SOLUTION

Gyrodata enlisted one of its directional drilling teams with extensive experience in this basin and configured a BHA featuring the 6<sup>3</sup>/<sub>4</sub>" GyroDrill performance drilling motor, MagGuide MP MWD, and Ulterra U616 PDC bit to deliver both superior performance and efficiency.

The GyroDrill motor was selected for this project 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

- 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 8<sup>1</sup>/<sub>2</sub>" lateral (**7,704 ft**) of the final well was completed in less than **46.5 hours**, and with an average **ROP of 166 ft/hr**. This was the fastest conventional lateral drilled to date in the Permian Basin - setting a new record for performance 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

