

CASE STUDY

GYROGUIDE SUCCESSFULLY VALIDATES WELLBORE TRAJECTORY AFTER LOW-QUALITY COMPETITOR PRODUCT FAILS

► TECHNOLOGY

- GyroGuide™ gyro surveying system

► APPLICATION

- Directional drilling
- Wellbore placement
- Lateral section drilling

► LOCATION

- South Texas, Nueces County

INDUSTRY CHALLENGE + OBJECTIVE

An operator in Nueces County was drilling a well with a planned lateral section to access the reservoir. The operator used a competitor gyro system to survey the wellbore, but after running the directional BHA to drill the intermediate bottom hole, the inclination and azimuth data from the MWD tool varied significantly from the gyro survey data. After a second survey revealed additional errors, the operator decided to run our GyroGuide survey system to verify the well trajectory and whether the MWD or competitor gyro data was correct.

TECHNOLOGY + SERVICE SOLUTION

- Our GyroGuide gyro surveying system provides high-accuracy wellbore placement with positional, orientation, steering, and continuous surveys.
- GyroGuide technology is capable of running up to 250 ft/min in continuous mode from vertical to horizontal while traversing in or out of the well.

RESULTS + VALUE DELIVERED

- After running the GyroGuide survey system to TD, we proved that the discrepancies between the MWD and competitor gyro data were due to extreme inaccuracy in the competitor gyro.
- By running our system, the operator was able to determine the correct well trajectory and drill ahead successfully to TD, placing the well accurately.
- The project highlighted the perils of choosing a product purely based on cost, with the operator acknowledging their intent to use our gyro surveying system moving forward.

