

CASE STUDY

DROP GYRO SYSTEM CORRECTS WELLBORE PLACEMENT BY 40 METERS IN AN EAST-WEST WELL

▶ TECHNOLOGY

- Drop gyro surveying system

▶ APPLICATION

- Directional drilling
- Wellbore placement

▶ LOCATION

- Latin America

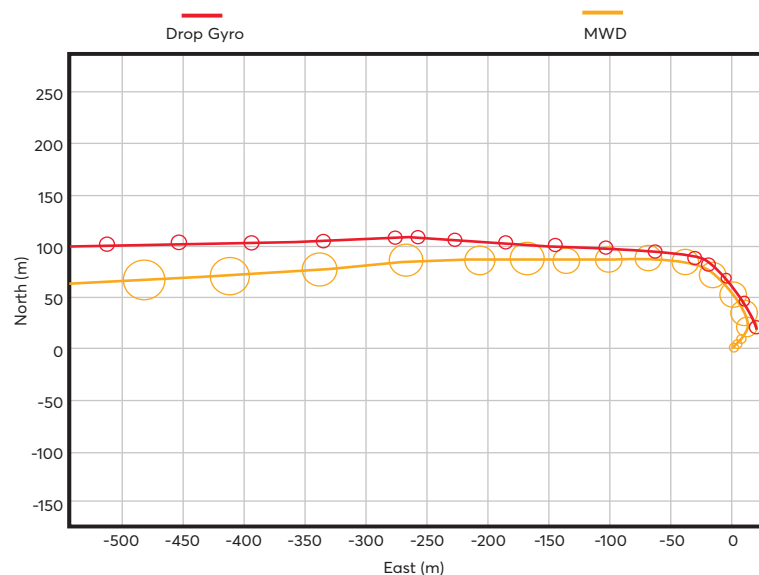
INDUSTRY CHALLENGE + OBJECTIVE

An operator in Latin America needed to ensure that their well was placed accurately in a recent drilling campaign. Issues with magnetic interference had previously been encountered with MWD tools throughout the well, and the operator requested a gyro run to obtain a definitive final survey. The well was approximately 4800 m deep and built from a vertical into a deviated tangent at 30° inclination.

TECHNOLOGY + SERVICE SOLUTION

- Drop gyro systems provide improved accuracy and precision.
- Drop gyro systems save critical downtime associated with using a wireline gyro—potentially 12 hours or more.

RESULTS + VALUE DELIVERED



- We successfully surveyed the well through the sections of magnetic interference where MWD surveys had previously returned unreliable data. Analyzing the azimuth of both tools, we found points where the MWD data indicated uncharacteristic azimuth spikes.
- The readings from the MWD surveys were incorrect due to magnetic interference. We discovered a 40-m lateral difference between the MWD surveys and our drop gyro surveys, correcting the bottomhole location position considerably.

