An operator in the Middle East was drilling a series of ERD wells from a multi-well pad. Since an accurate survey to determine the correct wellbore placement was critical for success of the project, the operator surveyed all wells in the field from surface to TD using gyro continuous survey technology on wireline. The objective of the gyro survey was to identify the final wellbore placement accurately and reduce the ellipse of uncertainty (EOU) due to the complexity of the field with multiple wells.

The well had been drilled to TD at 26,140 ft with a horizontal section from 5,600 to 26,140 ft. Gyrodata presented the advantages of deploying the Omega<sup>x</sup> drop gyro system, and the operator decided to utilize Omega<sup>x</sup> for the survey.

- The Omega<sup>x</sup> survey moved the wellbore position by 144 ft at TD versus the MWD surveys, which were corrected for BHA sag and in-field referencing.
- The Omega<sup>x</sup> survey saved the operator approximately 30 hours of rig time versus a comparable wireline gyro run and reduced the EOU by 67% versus the corrected MWD surveys, giving the operator better spacing for future field development and anti-collision analysis.
- The Omega<sup>x</sup> system provides new opportunities to increase the accuracy of the operator’s survey program within their ERD developments.