

## CASE STUDY

# OMEGA<sup>X</sup>™ SAVES 12 HOURS RIG TIME AND IMPROVES WELLBORE POSITION BY 136 FT IN THE NORTH SEA

### ▶ TECHNOLOGY

- Omega<sup>X</sup>

### ▶ APPLICATION

- Offshore Drilling
- Lateral Section Drilling

### ▶ LOCATION

- North Sea

### INDUSTRY CHALLENGE + OBJECTIVE

An operator in the North Sea was drilling an extended lateral section from a platform. After drilling the wellbore to TD at 20,829 ft, the operator decided to run a gyro survey to verify the accuracy of the data from the MWD survey, which had been corrected for in-field referencing, multistation analysis, and BHA sag. The operator's end goal was to reduce the ellipse of uncertainty (EOU) and improve the final wellbore placement. The operator originally proposed a continuous wireline gyro survey to accomplish these goals but ultimately chose the Omega<sup>X</sup> drop gyro system instead.

### TECHNOLOGY + SERVICE SOLUTION

- Powered by our SPEAR™ solid-state gyro technology, the Omega<sup>X</sup> system was chosen for its ability to provide more accurate wellbore placement and improved reliability versus previous solutions.
- The Omega<sup>X</sup> system eliminated a significant amount of survey time versus an equivalent wireline run, which would have taken approximately 12 hours including rig-up and rig-down.

### RESULT + VALUE DELIVERED

- Using the Omega<sup>X</sup> system saved rig time, required fewer people onsite, and reduced HSE risk by eliminating the need for wireline. In addition, using the system reduced the EOU by 56% and lateral uncertainty by 46%. This led to the final wellbore position being moved 63 ft laterally and 121 ft highside. These results revealed that the wellbore had not been placed accurately as noted in the original MWD survey.

## ELLIPSE OF UNCERTAINTY

Omega<sup>X</sup> Survey vs MWD Survey

