

CASE HISTORY

MagTraC MWD RANGING™ MINIMIZES COLLISION RISK TO SAFELY DRILL AHEAD

APPLICATION

Collision Avoidance

TECHNOLOGY

MagTraC MWD Ranging™

LOCATION

UK (North Sea)

CUSTOMER CHALLENGE

Survey reports alerted the customer that the active wellbore had drifted off plan and was nearing a collision zone. The projection ahead was clear of issues only if no further deviation from plan occurred. To minimize collision risk, the customer decided to use SDI's ranging services to provide close position monitoring as they approached the collision zone.

SCIENTIFIC SOLUTION

SDI's MagTraC MWD Ranging™ was utilized to provide collision avoidance services to the customer. The upper section had already been drilled to 430 m. To confirm the point of closest interference, MagTraC MWD Ranging™ data was collected from 265 m back to 253 m. The closest point was confirmed at only 2.8 m away. Ranging data was then collected from 423.6 m to 411.7 m, confirming the separation was 3.2 m. All ranging data was subsequently calculated to revise the wellbore position relative to the offset well. The data proved it was safe for the customer to drill ahead from 430 m (utilizing a specific orientation) without immediate collision risk. A gyroMWD survey was taken after 12 m, confirming the offset position and wellbore separation. Lastly, additional MagTraC MWD Ranging™ shots were taken to confirm the wellbore had diverged to a point of no collision risk.

CUSTOMER VALUE

SDI's MagTraC MWD Ranging solution delivered highly accurate positional data, allowing the customer to safely drill ahead and avoid potential collisions. SDI was able to quickly mobilize, ensuring there was little disruptions to operations, while also enabling the operators to make the necessary decisions, in a shorter time frame.

With the operation process streamlined, significant time and money will also be saved by eliminating a trip out of hole in all of the client's future projects.

TESTIMONIAL

"I'd like to thank each of you for the very quick and professional support with your MagTraC MWD Ranging™ service. As you know, it provided added confidence for us to drill ahead."

- Drilling Superintendent

