

PETRONAS Carigali Eliminates Survey Time, Improves Drilling Efficiency, and Reduces Stuck Pipe Risks Offshore Malaysia

TruLink services delivers real-time BHA location data and borehole conditions, improving directional drilling decisions and averting washouts

PETRONAS Carigali Sdn Bhd deploys TruLink* definitive dynamic surveys-while-drilling service in three-well drilling campaign, eliminates up to 15 min of survey-related rig time per survey and associated drilling risks and improves overall drilling efficiency.

Reduce survey-related rig time that impedes overall drilling efficiency

Baram Field is located offshore just northwest of Borneo Island. PETRONAS Carigali often drills among a cluster of 17½-in, 12¼-in, and 8½-in sections, which causes magnetic interference. Consequently, drilling programs require conventional MWD surveys for every stand, taking approximately 10–15 min per stand and includes working the pipe before and postsurvey, keeping pipe stationary, and during the survey transmission period. In total, the process adds 8–10 h of rig time per well and increases stuck pipe risks, bogging down drilling efficiency.

Deploy definitive dynamic surveying for real-time BHA location and borehole conditions

The PETRONAS Carigali borehole surveying subject matter expert and Schlumberger recommended replacing the conventional MWD with TruLink definitive dynamic survey-while-drilling service for three wells, from the 16-in tophole sections to intermediate 12¼-in sections of the drilling campaign. TruLink service incorporates new telemetry innovations that enable up to 20 bps. And the advanced drilling dynamics design includes three-axis shock and vibration and turbine power. Additionally, geological accuracy is refined using gamma ray and electromagnetic resistivity in combination with continuous six-axis directional and inclination sensors. The ultimate yield is definitive dynamic surveys, delivering real-time borehole conditions that reduce time to TD.

Eliminate survey-related rig time and avert associated drilling risks

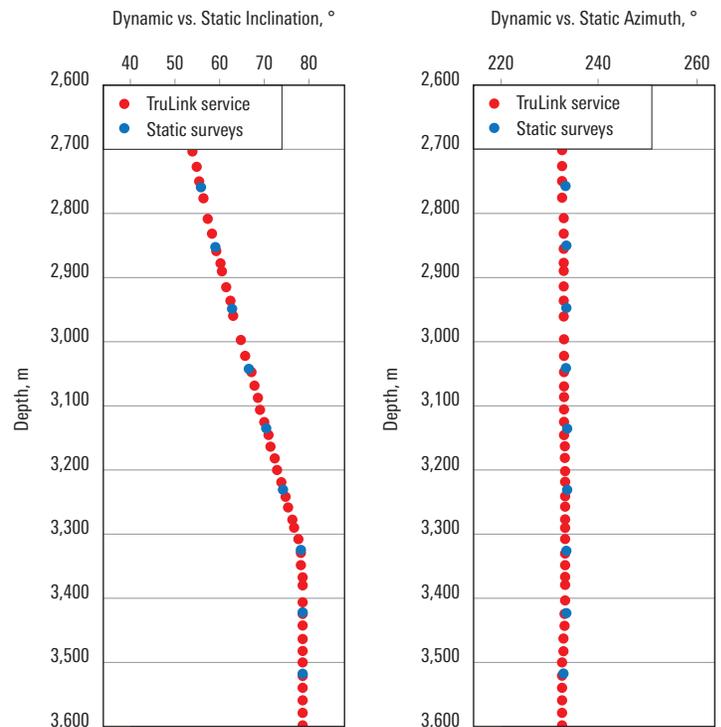
TruLink service enabled Petronas to acquire precise BHA location data at a higher frequency during drilling for improved decision making, eliminating up to 15 min of survey-related rig time per survey. This also eliminated the need for additional pump cycles, along with their associated washouts, stuck pipe risks, and other directional drilling difficulties.

Definitive dynamic surveys have been a dream for a long time. Now it has become a reality and will be the future of MWD-surveying technology with great benefits that the industry can experience. I appreciate the collaboration opportunity and look forward to TruLink service becoming standard practice

Mondali

Subject Matter Expert, Borehole Surveying
PETRONAS Carigali Sdn Bhd

TruLink Service vs. Static MWD Surveys



Comparisons with conventional static MWD surveys show TruLink service delivers increased survey frequency and real-time data for improved decision making while directional drilling.

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