

CASE HISTORY

gyroMWD MODULE DELIVERS 64% IMPROVEMENT & REDUCES COLLISION RISK

APPLICATION

Pad Drilling and Directional Drilling

TECHNOLOGY

gyroMWD Module and All-Attitude Drop Keeper (AdK)

LOCATION

Gulf of Thailand

CUSTOMER CHALLENGE

The customer was ready to begin a batch drilling campaign on a new platform, just 400 ft away from an existing 24-well platform. The campaign included 3 batch sets (totaling 24 wells) in what was already a highly congested environment. On a previous pad, the customer had used chalk scribe lines to orient the directional tools in the top section of each well. After utilizing SDI's All-Attitude Drop Keeper (AdK), it was discovered they were an average of 23 ft from their planned locations. Optimal spacing and collision avoidance was critical, as the proximity of the offset wells prevented the use of magnetic MWD tools for steering.

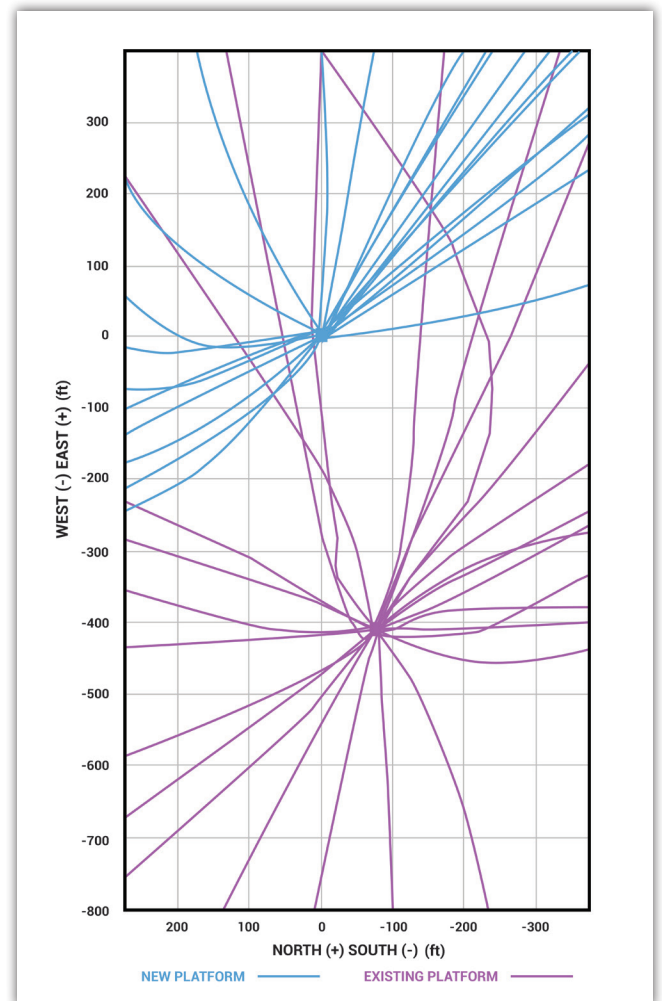
SCIENTIFIC SOLUTION

Scientific Drilling provided their gyroMWD Module to deliver high accuracy surveys and tool face data in real-time from surface to TD. The module enabled operational efficiency by seamlessly integrating with the existing MWD system and BHA configuration.

After the first well was completed, SDI's AdK was run to confirm bottom hole location. The resulting surveys derived from the AdK correlated extremely close to those provided by the gyroMWD Module, proving the customer could use the module alone for the remaining wells to complete the campaign.

CUSTOMER VALUE

The precision of the gyroMWD Module in the top section allowed all casing shoes to be placed on target, at an average of 10 ft away from the planned location, versus 23 ft on previous campaigns. According to the customer, this was an approximate 64% improvement and eliminated the need for any corrective actions, saving the customer additional time and money. The gyroMWD Module performed flawlessly and reduced the risk of collisions dramatically by delivering accurate survey data. This ultimately provided the customer with the confidence to safely complete the entire 24-well campaign.



PLOT OF THE TWO PLATFORMS, TOTALING 48 WELLS

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