

## CASE STUDY

# QUEST GWD SAVED 15 HOURS OF RIG TIME WHILE SIDETRACKING A WELL ALLOWING THE OPERATOR TO REACH THE ORIGINAL RESERVOIR

### ▶ TECHNOLOGY

- Quest™ gyro-while-drilling (GWD) system
- SPEAR™ solid-state sensors

### ▶ APPLICATION

- Wellbore placement
- Collision risk mitigation
- Directional drilling

### ▶ LOCATION

- Latin America

### INDUSTRY CHALLENGE + OBJECTIVE

An operator in Latin America lost the original well, and a sidetrack was planned to reach the same reservoir objective. The Whipstock was set at 5,600 ft in the original well and the new well plan was drilled with less than 20 ft, center to center. The objective was to drill as close as possible to the original well that had the liner inside. The MWD tool was not an option, because it would be magnetically interfered along the entire well. The second option was to orient the motor using a conventional gyro on wireline, which would take a longer time. So, the client decided to run with GWD as it was going to save a lot of time, improve wellbore placement accuracy and collision risk mitigation.

## TECHNOLOGY + SERVICE SOLUTION

- We suggested implementing our Quest GWD system.
- Quest can take surveys quickly enough to be “invisible” to the rig operation. Surveys are taken during pipe connections which means no extra rig time taken.
- No magnetic interference.
- Best tool available to drill a sidetrack closer to the original well with excellent collision risk mitigation.

## RESULTS + VALUE DELIVERED

- The operator successfully ran the Quest GWD system from the window (+/-5,600 ft) down to TD (+/-8,000 ft).
- 15 wireline gyro runs were avoided by using the Quest GWD.
- The Quest GWD system saved at least 15 hours versus running a conventional gyro system on wireline.
- MWD tool was not an option for this application, the sensor was going to be magnetically interfered along the entire sidetrack.
- The well was drilled with less than 20ft, center to center to the original wellbore.
- This Sidetrack was drilled in record time in this country.
- The Operator was able to reach the original reservoir objective.

