

# NaviTrak UT delivers fast EM data rates and excellent data density to improve real-time decision-making and optimize drilling efficiency

## CHALLENGES

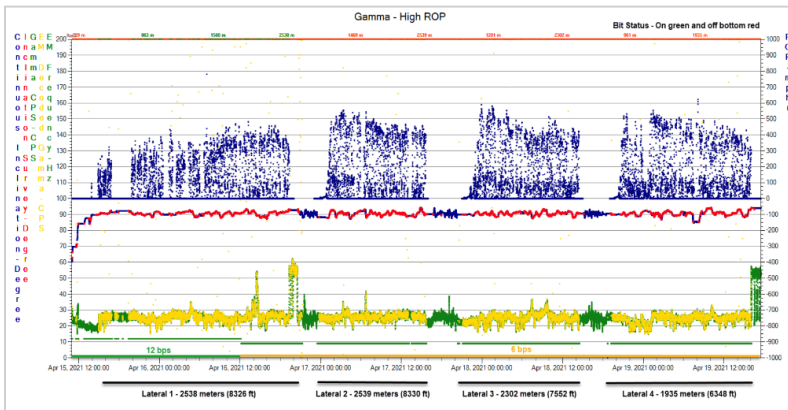
- The drilling operation required adequate gamma ray density and steering control data in the lateral section, without compromising rate of penetration (ROP)
- The operation required excellent data quality while achieving an average ROP of 375 m/hr (1,230 ft/hr) and a peak ROP of 600 m/hr (1,970 ft/hr)
- The drilling plan called for faster data rates at a lower power output to save costs and extend battery life

## SOLUTION

- Baker Hughes deployed its [NaviTrak™ UT directional and gamma MWD service](#) to provide:
  - EM telemetry logging and decoding at faster data rates
  - Flexible telemetry configurations of 12 bits per second (bps) at 12 Hz and 6 bps at 9 Hz
  - Adjustable power output with sequential depletion to improve battery management
  - Reliable, high-quality data at desired ROPs

## RESULTS

- Achieved high-quality logging data at peak ROPs of up to 600 m/hr (1,970 ft/hr)
- Delivered exceptional data density while providing excellent steering control
- Effectively decoded EM telemetry data using just 2 watts of power allowing to extend the battery life to approximately 480 hrs (20 days) of downhole time
- Afforded more confident, informed, real-time drilling decisions to stay on target



NaviTrak UT's telemetry data helped the driller make real-time decisions to maintain a continuous inclination degree at high ROPs—saving time and costs during the drilling operation.