

CASE HISTORY

INNOVATIVE BHA DESIGN SLASHES DRILLING TIME

APPLICATION

Geothermal,
Directional Drilling

TECHNOLOGY

Titan Series Mud Motor, and
Falcon EM MWD

LOCATION

Negros Island, Philippines

CUSTOMER CHALLENGE

The customer had a history of slow drilling in the 17½" and 26" hole sections, mostly due to hard formations. Even after reaming, it was difficult keeping the surface hole vertical, making it a challenge to run casing to bottom. The customer required a BHA that would maintain verticality enhance ROP and eliminate the need for reaming.

SCIENTIFIC SOLUTION

Scientific Drilling reviewed the drilling program and modified an existing BHA to meet the customers needs. It consisted of donut stabilizer, 9½" Titan series mud motor, reamer, shock sub, Falcon EM MWD, drill collar, and heavy weight drill pipe.

SDI's experienced crews were able to implement this assembly and drilled the 26" hole section vertically (0.6 degree max inclination) and eliminated the need for reaming.

CUSTOMER VALUE

The customer noted the overall ROP of drilling the 26" section was doubled (less than 24 hours) compared to 60+ hours on average. When utilized in 17 ½" hole section, the drilling time was decreased by two-thirds. This modified BHA is now the standard for drilling the vertical surface hole for the customer.

