

First Successful Wire Line and Extended Coring Through the Unconventional Reservoirs in UAE: Saved 50% of Coring Time with World Record

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ABSTRACT

The reason and the goal for Coring in different fields are to obtain results and data from the formations of interest in productive zones. This is done by coring different intervals conventionally. This is done with great care and concern which does consume a lot of time and money for Coring.

ADCO investigated different coring scenarios to optimize the coring operation and technology where two of the solutions were Extended Coring (Long Barrel) and Wire line to compromise and save cost and rig time comparing to the conventional Coring.

ADCO succeed to core the 1st longest core through 8.5" hole in one of the appraisal wells with 420 ft. barrel length in 1 run which lead to save 11 days of rig time with 100% successful recovery and core quality in addition to the 1st longest core through 6" hole with 270 ft. barrel length in 1 run with world record and 100% successful recovery & core quality.

This work describes the coring plan, the core handling procedures and lessons learned. A cost-benefit analysis is presented in which the applied coring technology has been compared to conventional coring. Moreover the design and working of the various configurations of the new coring platform are presented.