

SOLUTION PROFILE

BSS06-023

16.0 ppg ACCOLADE® Clay-Free Fluid left in Wellbore for 34 Months Saved Rig Time and Mud

Gulf of Mexico

Operator's Challenge

The operator wanted to re-enter an existing deepwater Gulf of Mexico (GOM) well, drill four cement plugs and two cement retainers / bridge plugs, set a cement kickoff plug and drill a sidetrack. This was to be accomplished without encountering barite sag / synthetic-based mud (SBM) issues with the existing ACCOLADE® clay-free fluid that was left between plugs for the past 34 months.

Halliburton's Solution

Halliburton suggested using the ENCORE® fluid which is an all Isomerized Olefin version of the ACCOLADE fluid technology, to perform these operations. The existing ACCOLADE fluid and spacers were incorporated into the active ENCORE system without issue. Two bottoms up samples of the ACCOLADE fluid that was left between plugs were checked.

Fluid	ACCOLADE fluid Left in Hole	ACCOLADE fluid 34 Months	After	ACCOLADE fluid 34 Months	After
Depth			12,008		13,755
Density, ppg	16		15.7		15.95
PV	69		74		72
YP	19		36		36
Gels	8/14/2015		18/29/38		23/40/49
ES	466		120		258
WPS, mg/l	240,214		266,071		240,485

Considering the time the ACCOLADE fluid had been static in the hole and the spacers that were utilized and eventually incorporated into the existing active ENCORE system, the only treatments required were base oil for the ENCORE system, LE SUPERMUL™ emulsifier, BAROID® weighting agent, and a small concentration of ATC® thinner. The lowest mud weight seen was 15.7 ppg and there were no mud weights above 16.0 ppg. The active system then was used to successfully drill 2,664 ft of 8 1/2" x 9 7/8" hole without issue.

Economic Value Created

By utilizing ENCORE synthetic-based mud, the operator did not have to perform clean up runs nor did they have to dispose of approximately 450 bbl of ACCOLADE fluid that was in the existing wellbore. This saved a significant amount of rig time. The one-well savings was approximately \$250,000 (around 2 days of rig time and the loss of about 450 bbl of ACCOLADE fluid).

Solution Technology from the Solution PeopleSM

For more information contact your Baroid Fluid Services Product Champion.

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