

CLAYSEAL® PLUS Shale Stabilizer and BARACOR® 95 Corrosion Inhibitor Save Four Days of Rig Time

SOLUTION HELPS MINIMIZE WELLBORE INSTABILITY

COLOMBIA

CHALLENGE

Avoid lost circulation, CO₂ contamination, and wellbore instability seen on offset wells

SOLUTION

Optimize water-based fluid with CLAYSEAL® PLUS shale stabilizer and BARACOR® 95 corrosion inhibitor

RESULT

Halliburton solution helps operator drill well four days faster than plan, saving US\$240,000

CHALLENGE

Offset wells encountered lost circulation, stuck pipe, and both water and carbon-dioxide (CO₂) influxes. The operator wanted to use a water-based mud (WBM) that would minimize these issues and tolerate static temperatures near 230°F (110°C).

SOLUTION

The Baroid team tested several formulations to determine the optimal fluid for the known field conditions, and ultimately recommended a polymeric WBM treated with CLAYSEAL® PLUS shale stabilizer to obtain superior wellbore stability and clay inhibition.

Testing was also conducted to confirm that BARACOR® 95 corrosion inhibitor would increase fluid stability in the presence of CO₂.

A flocculation unit was installed to mechanically enhance control over low-gravity solids (LGS) buildup in the drilling fluid, enabling improved downhole hydraulics and lowering risks of lost circulation.

RESULT

Using this optimized system, the well was drilled in four days less than the operator's well plan, for a savings of approximately US\$240,000.

MUD SYSTEM FORMULATION

Products	Concentration (lb/bbl)
AQUAGEL®	5.00
BARITE	46.00
CLAY GRABBER®	0.75
CAUSTIC SODA	0.20
BARAZAN® D PLUS	0.50
CLAYSEAL® PLUS	6.00
PAX CELL LV	1.00
POLYAC PLUS™	1.25
GLUTARALDEHYDE	1.00
BARASCAV™ L	0.25
BARACOR® 95	0.25
BARACARB® DF 150	20.00
BARACARB® DF 50	20.00

www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

H011733 6/16 © 2016 Halliburton. All Rights Reserved.