



AES DRILLING FLUIDS

CHALLENGES

- Hole issues including key seating and washouts resulted in extended time to drill intermediate section
- Poor drilling rates required multiple bit trips

SOLUTION

- EnerSEAL MMH system to minimize washout and improve hole quality
- Drill through salt zones with brine and displace to EnerSEAL to drill to interval depth

RESULTS

- Interval drilled and cemented in 8 days versus 70 days on the previous well
- No issues drilling, running casing, or cementing

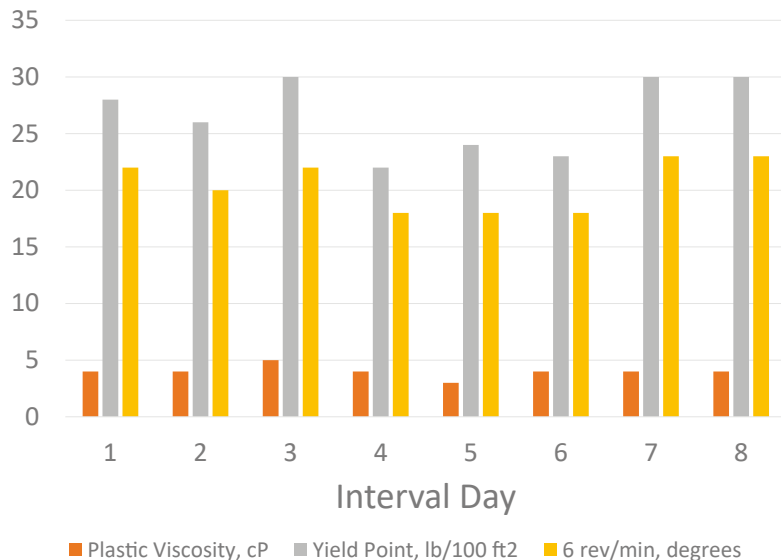
EnerSEAL[†] introduction sets records for fewest trips and fewest days on intermediate section in Reeves County

Overview

An operator working in Reeves County northwest of Pecos was experiencing a number of issues drilling their 12 ¼" intermediate section. Previous wells required numerous trips for bits and hole issues. The preceding well required 70 days to drill to the interval due to key seating and multiple fishing operations.

AES Drilling Fluids recommended EnerSEAL for its superior hole cleaning capabilities and thixotropic characteristics to minimize washout. The salt-laden formations of the intermediate section were drilled with field brine, displacing to EnerSEAL for the remaining half of the interval. Using optimized EnerSEAL properties, the interval was drilled, cased and cemented in 8 days without added trips.

The success of EnerSEAL resulted in its adoption as the standard for drilling intermediate intervals for the operator in Reeves County.

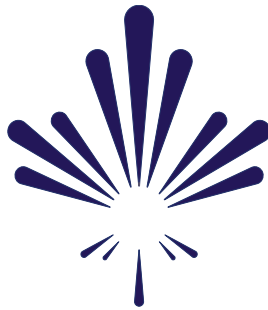


Select rheological properties while drilling with EnerSEAL

Details

Mud weight ranged between 9.4 and 9.8 lbm/gal, increasing as needed for background gas. The first portion of the intermediate section was drilled from 2,336' with field brine to 5,000'. At 5,000', well was displaced on the fly to EnerSEAL using a 200 bbl spacer. Drilling continued without issue to total depth of 9,898'. While drilling with EnerSEAL, the system was treated and maintained with a 6 rev/min reading between 18 and 23 degrees for hole cleaning and loss prevention. The plastic viscosity ranged between 3 and 5 lb/100ft².

There were no issues tripping and running casing and the interval was cemented using a two-stage operation.



AES DRILLING FLUIDS

www.aesfluids.com

info@aesfluids.com

888-556-4533

Revision 1.00

© 2018 AES Drilling Fluids. All rights reserved. The information provided is for informational purposes and is believed to be accurate, although this cannot be guaranteed. No guarantees or warranties are stated or implied. [†]Marks of AES Drilling Fluids, LLC.

