

MS Spacer

Intermediate Casing - Anadarko Basin



Overview

On an intermediate casing job in the Anadarko Basin, an operator encountered severe lost circulation while drilling through a weak Brown Dolomite zone. Multiple attempts to cement the interval had failed, prompting the need for a more effective wellbore-strengthening and isolation strategy.

Solution

To address the persistent losses and isolation challenges, the team deployed 50 bbls of MS Spacer mixed with 1.5 ppb of RadiLock 3 mm fiber and a 9.5-pound-per-gallon bead lead. The system included a 17-lb/bbl polymer loading and was engineered to provide a 10-minute contact time across the weak interval. This optimized blend delivered improved wellbore support, enhanced suspension, and effective loss mitigation ahead of cement placement.

Problem/Challenge

The Brown Dolomite presented a significant weak zone that caused complete losses with casing on bottom. The operator had already attempted five foam cement jobs, all of which failed with zero returns, no cement reaching the surface, and consistently poor bond logs. Traditional cementing techniques were unable to isolate the zone or establish wellbore stability, creating a high-risk situation for the remaining wells on the pad.

Result

The treatment successfully restored full returns—an outcome that had not been achieved in any of the previous attempts. A USIT log confirmed that the Brown Dolomite was effectively isolated. Although the cement was not designed to reach the surface, zonal isolation was fully achieved. This success allowed the same approach to be applied to the remaining wells on the pad, where it consistently delivered reliable isolation and improved performance.

LAB SANDBED TESTS



A: Neat cement exhibits deep penetration into the sand bed **WITHOUT** a sealing spacer membrane.

B: Same test as above. In contrast, the Ritek's sealing spacer allows minimal cement penetration, maintaining a clean, sealed sand bed.

C: Birdseye view of **B**. Cement stayed in place with no leak-off, demonstrating effective sealing performance.





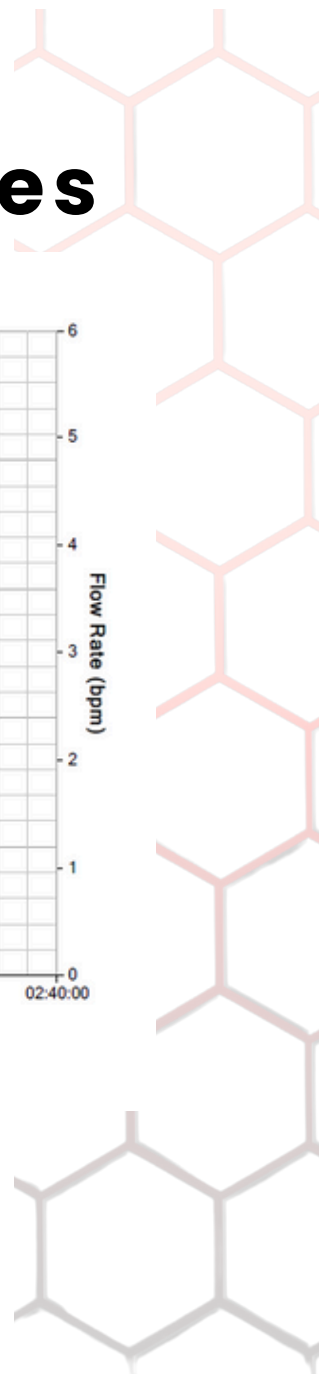
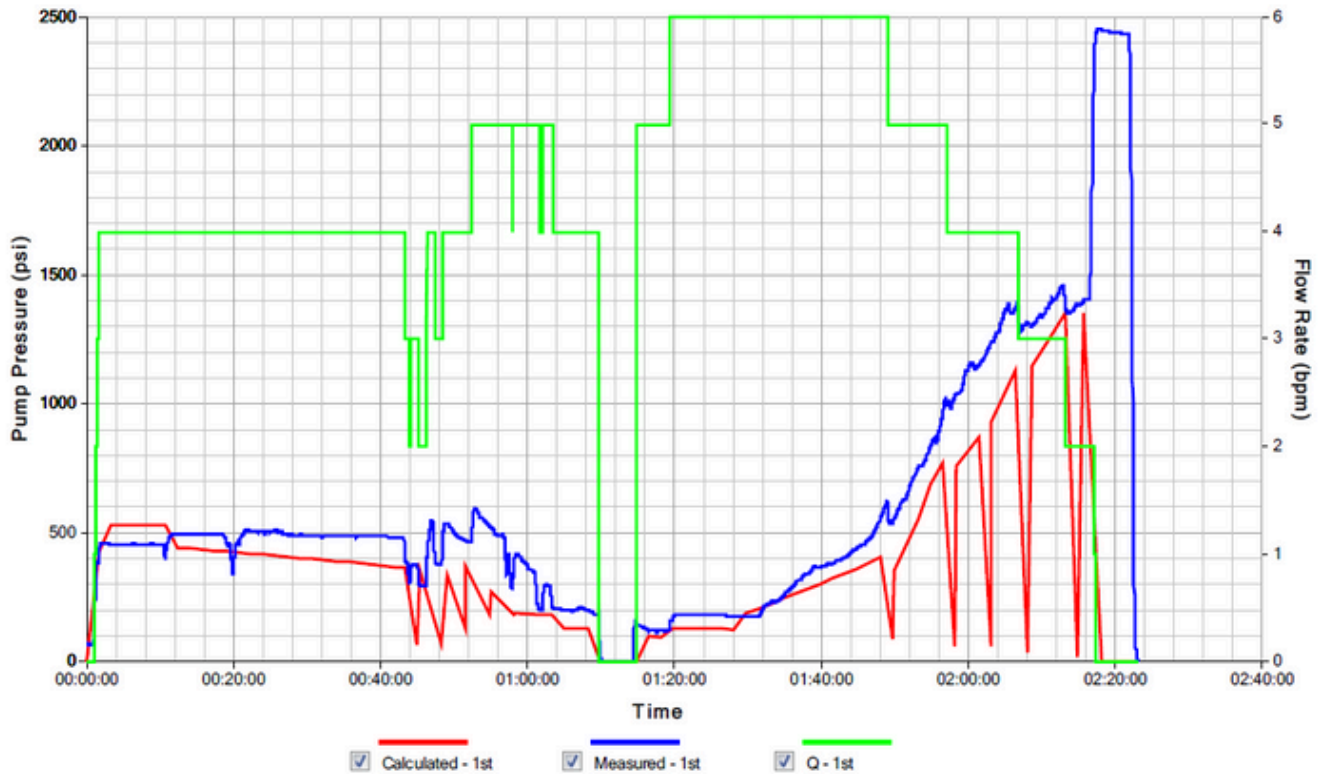
CASE STUDY

MS Spacer

Intermediate Casing - Anadarko Basin



Design Vs Actual Pressures



RITEKS INC. www.riteks.com



Scan to Request
a Sample

[281.569.3500](tel:281.569.3500)
service@riteks.com

