

## MAXDRIL-N® Mixed Metal Silica Fluid Pill Helped Operator Stop Severe Losses and Set 7" Liner in Limestone Formation

### Abu Dhabi

#### Operator's Challenge

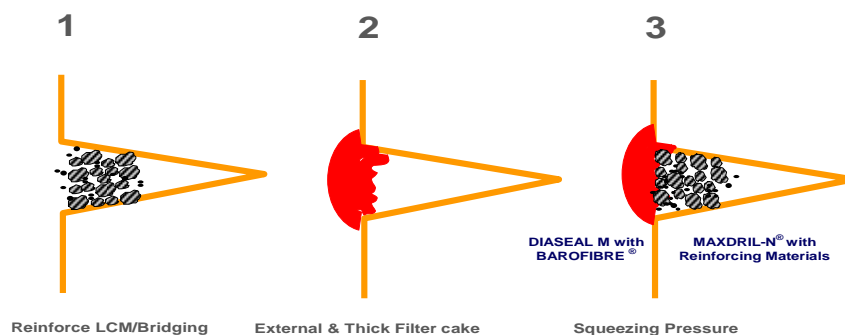
Abu Dhabi Marine Operating Company (ADMA-OPCO) encountered severe lost circulation while drilling a deviated hole through a multi-section gas reservoir. The loss rate had to be reduced from 120 bbl/hr to zero bbl/hr, and the fracture propagation pressure had to be increased from 0.96 sg (8.0 ppg) to 1.61 sg (13.4 ppg) prior to running and cementing the 7" liner.

The criteria for optimal well conditions established by ADMA personnel and the Baroid Fluid Services Abu Dhabi team required achieving the equivalent of 0.7 psi/ft during a formation integrity test (FIT) at the last casing shoe. Hydrostatic or circulating pressure in excess of 0.7 psi/ft would instigate lost circulation while running casing or cementing.

#### Halliburton's Solution

To prevent lost circulation during this critical operation in a limestone formation, the Baroid team recommended running a tandem pill formulated with MAXDRIL-N® mixed metal silica fluid and STEELSEAL® resilient graphitic lost circulation material (LCM). The sweep also contained BARACARB® sized calcium carbonate, Diaseal M® squeeze material and BAROFIBRE® seepage loss additive.

Two treatments were pumped. The first pill gelled rapidly allowing deposition of the reinforcing LCM and plugging the fractures. The second pill—which contained only brine, Diaseal M material and BAROFIBRE additives—provided rapid deposition of a thick filter cake that could bridge any fractures left unsealed by the first treatment.



*Mechanism for Curing Losses: Engineered fluid solutions customized to maximize wellbore value.*

#### Economic Value Created

A 400-psi squeeze pressure was applied and the FIT was performed successfully. Dynamic losses were reduced to zero. The 7" liner was run and cemented as planned.

Solution Technology from the Solution People<sup>SM</sup>

For more information contact your Baroid Fluid Services Product Champion.

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