



DAV MX™



GOM operator utilises DAV MX™ CircSub to cure persistent losses by pumping more than 880bbls of heavy LCM.

DAV MX™ proved to be an important contingency tool, when used against persistent losses encountered by a GOM operator while drilling the 10-5/8" x 12 1/4" section. The tool was activated on three occasions with Standard Diverter Dart™, allowing a total of nine concentrated LCM pills to be pumped through it, while by-passing the BHA below. On each activation, the Smart Darts™ were pumped down at over 150gpm and reached the valve in less than 20 minutes.

CIRCUMSTANCES

Operator's plan was to drill a 12 1/4" section using a reamer assembly in a loss-prone zone. A 6-5/8" Reg. DAV MX™ CircSub with four, 0.75" nozzles, was placed in the BHA as a contingency against losses and for potential hole cleaning issues.

THE CHALLENGE

Whilst drilling the section sizable losses (177bbl/h - Dynamic) were encountered, threatening the stability of the well. Losses had to be cured rapidly not to allow the well to get dangerously underbalanced. With a great amount of concentrated LCM pills lined up, the only way of spotting them was through the CircSub making sure that the BHA below would not be contaminated.

THE SOLUTION

The DAV MX™ was opened on three separate occasions allowing a total of nine LCM pills (886bbls) to be pumped through. After each pill losses decreased gradually in severity to reach a safe level of 2bbls per hour. After the last pill was displaced, the string was POOH with the Standard Diverter Dart™ still in place, allowing the rig crew to dry trip to surface.

COMMENTS

Initial dynamic losses of 177bbls/hr reduced to 2bbls/hr.



RIG & WELL INFORMATION

• Location & Date.....	GOM, Green Canyon, December 2015
• BHA	10-5/8" x 12-1/4" RSS
• Measured Depth (at the tool).....	15,644ft
• Drilling Fluid	15.2ppg OBM

