



CASE HISTORY

Drilling & Completions: Well Control

TAMPlug Permanent Bridge Plug System

HIGH-TEMPERATURE DOWNHOLE ENVIRONMENT IN SOUTH TEXAS EXPERIENCES LOSSES

TAM's Robust TAMPlug Permanent Bridge Plug System Isolates a Lost Circulation Zone with Bottom Hole Temperatures of 290° F – Eagle Ford

CHALLENGES: An operator in South Texas encountered a lost circulation zone at 13,650 ft measured depth (MD) while drilling an 8-1/2 in. open hole vertical well into the production zone. The operator experienced losses of over 5,000 bbls of oil-based mud (OBM) while trying to gain control of the well for 3 weeks with lost circulation material (LCM) and a cement plug. They required a solution that would isolate the lost circulation zone in bottom hole temperatures of 290° F with 16.7 ppg OBM and so enable them to continue to cement their 5-1/2 in. production casing.



SOLUTION: The robust TAMPlug Permanent Bridge Plug System uses a specialized bottom hole assembly (BHA) with a high probability of success when harsh environments are likely. The TAMPlug was set just above the lost circulation zone and provided a bridge plug for cement with an expected maximum differential pressure of 4,000 psi and bottom hole temperatures of 300° F at setting depth.

RESULTS AND BENEFIT: A TAM service specialist was on-site within 24 hours from the initial request for a solution. The TAMPlug Permanent Bridge Plug System isolated the lost circulation zone on the first run. TAM's solution allowed the operator to dump cement and continue with normal drilling operations right away. This ultimately saved the operator from having to continue fighting losses or closing in the well.

The successful TAMPlug provides our customers with a reliable solution while drilling in a potential field where lost circulation zones are prevalent. We offer a stand-by solution that can be used to save operators tens of thousands of dollars if a lost circulation zone is encountered. By being on-site during drilling operations, we can improve the response time to regaining control of the well.



The TAMPlug Permanent Bridge Plug System isolates a lost circulation zone and allows the operator to regain control of the well.