

Halliburton Enters Conventional Liner Hanger Market on Sinclair Well

FIRST MATCHSET™ SYSTEM IS SUCCESSFULLY INSTALLED IN HIGHLY DEVIATED HORIZONTAL APPLICATION

WILLISTON BASIN, NORTH DAKOTA

CHALLENGE

Operator needed a liner hanger solution with a modular design that could be customized to meet the needs of this highly deviated horizontal well with a sidetrack

SOLUTIONS

MatchSet™ conventional liner hanger:

- » Modular design capable of hanging long and heavy liners with minimal stress to parent casing
- » Ideal for highly deviated or horizontal wells

RapidStart® Initiator sleeves:

- » Provides access to the formation, thus eliminating the need for tubing-conveyed perforating during the first stage

RESULTS

First installation of the MatchSet system was a complete success

- » All customer expectations were met, with hanger setting at the desired depth and wellbore pressure tested to specifications
- » Completed job with zero NPT and zero quality issues

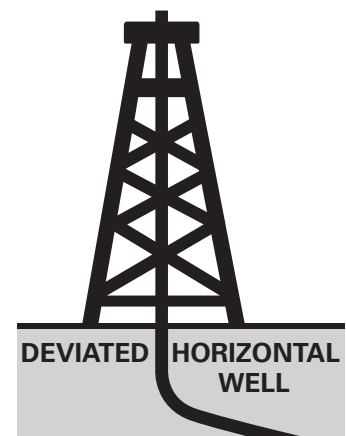
OVERVIEW

Sinclair needed a solution for its complex deviated wellbore in the Williston Basin, so the company challenged Halliburton to provide a hanger with a modular system that could be customized to meet Sinclair's specific needs. With its VersaFlex® expandable liner hanger systems, Halliburton has long been the market leader of these systems – and has a long history of being able to reliably complete wells where others could not. In this case, however, the operator's preference was to run a conventional type liner hanger. Thus, Halliburton recommended its new MatchSet™ conventional liner hanger system, as it features all of the capabilities that an operator has come to expect from a conventional type liner hanger, including a completely modular design, multiple tieback receptacle options, and an anti-preset feature for performance assurance.

MODULAR DESIGN PROVES BEST MATCH FOR THE JOB

The customer had limited operations in the Williston Basin, and was faced with the complexity of a highly deviated horizontal well with a sidetrack. It needed a hanger with a modular design that could handle long and heavy liners with minimal stress to the parent casing. The MatchSet conventional liner hanger, with an integral liner-top packer, has a unique compact design ideal for deviated or horizontal wells. It provides an effective annular seal between the top of the liner and the parent casing, and the anti-preset feature allows the liner to reach and set at the desired depth.

Halliburton was awarded its first field trial of the MatchSet system on Sinclair's Ian Quicksilver 19-20-1H well. A hydraulic set/hydraulic release liner hanger with a liner-top packer and a 20-foot (6-meter) polished bore tieback receptacle were selected for Sinclair's highly deviated horizontal cemented liner completion. Two RapidStart® Initiator sleeves were also used in this customized completion. Once the liner was deployed to total depth and the liner hanger was spaced out for proper setting depth, the hanger was set, utilizing a Halliburton cementing unit. The cement job was pumped, and the wellbore pressure was tested to the customer's requirements with complete success.



FIRST INSTALLATION OF CONVENTIONAL LINER HANGER EXCEEDS OPERATOR'S EXPECTATIONS

The first MatchSet™ conventional liner hanger was successfully installed in this challenging wellbore, providing the hanging strength and isolation that the operator needed. Reaming operations were carried out to ensure that the wellbore was clear and that the string would track into the correct wellbore. With its MatchSet system, Halliburton delivered a reliable, safe, and cost-effective solution – and with zero nonproductive time (NPT) and zero quality issues. All of the customer's requirements were met, confirming that this Halliburton entry into the conventional liner hanger market was a complete success.



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