

South Texas

First RapidStage® completion sleeve system deployed in the Eagle Ford shale saves operator USD one million

Halliburton customized a unique completion solution for multi-zone, interventionless stimulation

CHALLENGE

A major operator sought the most cost-effective way to achieve a multi-zone, interventionless stimulation:

- Running completion equipment into a well with past performance issues
- HT and H₂S influx required durable equipment capable to withstand harsh conditions

SOLUTION

To address complex well conditions, Halliburton customized a unique, cost-effective solution.

- Stiffer, more robust reaming assembly, enlarged to be the same length as the packer
- Completion solution comprised of RapidStage® sleeves, a VersaFlex® ELH and Swellpacker® systems

RESULT

Compared to previous wells in the field, Halliburton delivered a cost savings of USD one million.

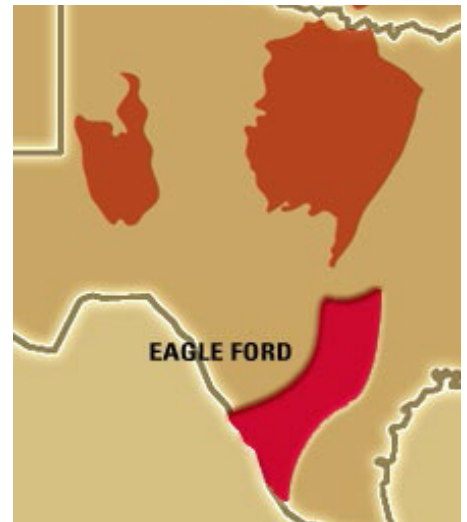
- Reacted to TD in less than 18 hours
- Continued 24-hour pumping operations
- Interventionlessly stimulated multiple zones in less than two days

Overview

A major operator in south Texas was in search of the most cost-effective way to achieve a multi-zone, interventionless stimulation in an Eagle Ford shale reservoir, and effectively compartmentalize the intervals.

Because of the complex well conditions, Halliburton customized a unique solution that included RapidStage® frac sleeves, a VersaFlex® expandable liner hanger (ELH), and Swellpacker® oilswelling (OS) high-temperature (HT) packers.

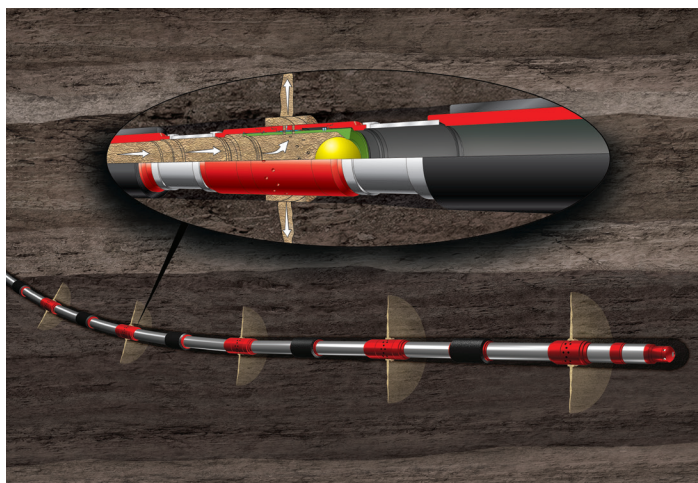
After the wellbore was successfully reamed, the completion assembly was run to total depth in less than 18 hours without incident. In addition to this quick run, the operator continued 24-hour pumping operations and interventionlessly stimulated multiple zones in less than two days. Compared to previous wells in the field, Halliburton saved the operator USD one million on this well.



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Challenge

Running completion equipment into this well was a major concern for the operator, because past performance issues to include trouble getting to depth because of hole geometry and inadequate reaming procedures. The operator was also concerned with HT conditions as well as possible hydrogen sulfide (H₂S) influx, and needed reliable equipment that could withstand these harsh conditions. Completion design and well performance were both critical to make this shale play economical for the operator.



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Solution

Halliburton performed extensive well analysis and evaluation to design the most optimal simulation and completion design for the complex well conditions. Torque and drag analysis was conducted to ensure the entire assembly could be run to bottom efficiently. To help ensure the design met the operator's expectations and requirements—which meant the completion system needed to be capable to withstand all wellbore fluids—extensive simulations were performed to model various Swellpacker® isolation systems.

Based on the torque and drag analysis, a stiffer, more robust reaming assembly was proposed that would help better replicate the completion assembly. In adherence to best practices for well reaming, Halliburton also created a unique solution for the assembly to help make the process more successful. The Halliburton reaming/drift assembly was enlarged to be the same length as the Swellpacker isolation system. Three multi-zonal completion/stimulation methods were tested in the field to determine which completion system was the most cost-effective without compromise to value and results.

The tests led the Halliburton team to recommend the a completion solution, which included the following components:

- VersaFlex® ELH
- RapidStage® sleeves
- Swellpacker OS HT packers

Result

After the wellbore was successfully reamed, the completion assembly was run to total depth in less than 18 hours without incident. In addition to this quick run, the operator continued 24-hour pumping operations and interventionlessly stimulate multiple zones in less than two days.

Using the pneumatic ball dropping head, all RapidStage sleeves were opened while continuously pumping, which allowed each stimulation treatment to be accurately placed. The use of Swellpacker isolation systems as the primary isolation method reduced treatment pressure versus previous exploratory wells drilled. Compared to previous wells in the field, Halliburton saved the operator USD 1 million on this well.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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