

CASE HISTORY

HORIZONTAL COMPLETION EVALUATION

APPLICATION

Horizontal Frac Sleeves
Completion Evaluation

TECHNOLOGY AND SERVICES

MFT-24 Memory Multi-Finger
Caliper

LOCATION

Oklahoma STACK,
Kingfisher County, Oklahoma

CUSTOMER CHALLENGE

The Client needed to know the status of 24 ball-actuated frac sleeves across the lateral section of the well in order to determine how to proceed with completion operations. It was unclear which stages had been fracked in the targeted Meremac formation in the Oklahoma STACK.

SDI was challenged to evaluate the lateral and assist in the safe delivery of the final well completion.

SCIENTIFIC SOLUTION

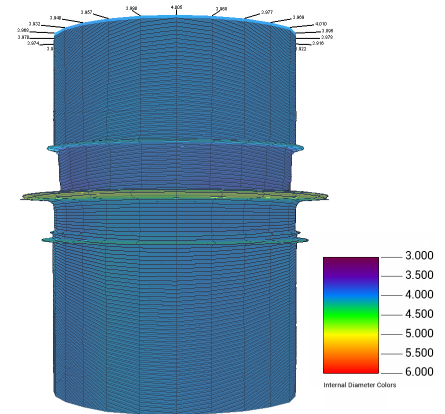
The proprietary Vulcan MFT-24 Caliper was deployed on coiled tubing. The tool has a proven track record, giving confidence to the Client to meet the job objectives.

There were issues getting past the liner top and one of the frac sleeves necessitating two logs with a mill run in between to reach the desired depth. The final log showed that one of the sliding frac sleeves had parted and, as a result, the pipe was also slightly offset at that juncture. The processed data revealed both open and closed sleeves. Data was sampled every 0.01 second, which offers very high resolution data.

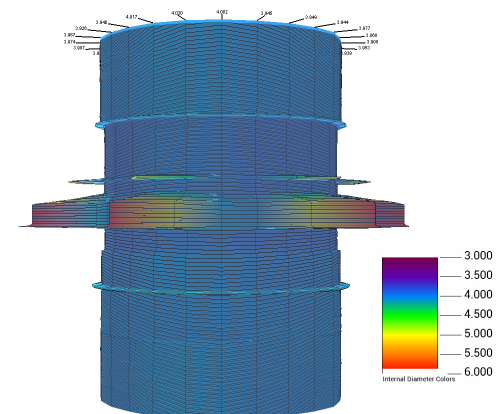
CUSTOMER VALUE

The Client was able to minimize down-time thanks to the swift processing of the data by the SDI Team. Direct and regular communication between the Client Completion Engineer and the SDI Log Analyst provided assurance in the interpretation of the data provided.

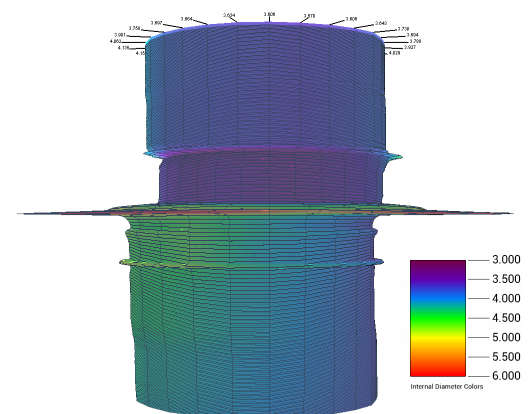
Using the detailed evaluation of the completion, the Client was able to proceed with completion activities with confidence. The identification of mechanical failure of a frac sleeve allowed the Client to mitigate potential risks and continue with operations safely.



Closed FraCPort Sleeve



Open FraCPort Sleeve



Parted FraCPort Sleeve

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