

Case Study: Single trip SPECTRUM® FUSION, SPECTRUM® 360 and PLT for Production Evaluation

Challenge

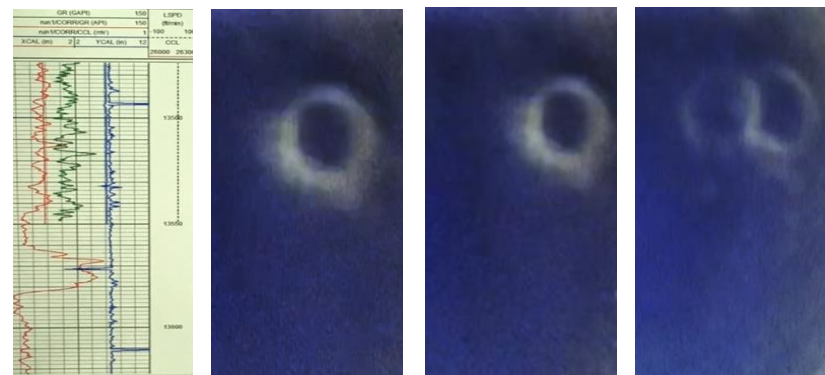
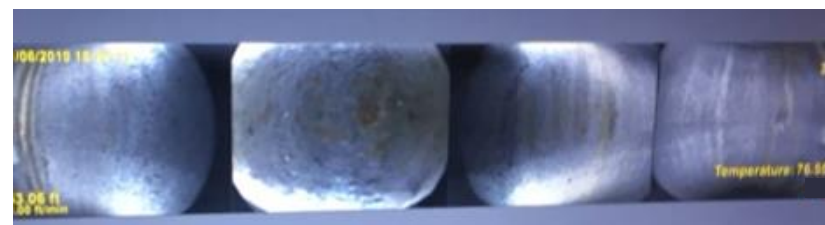
- Perform a PLT and perforation evaluation under live well conditions, while flowing 42 mmscfd and 3,200 bpd.
- Minimize the number of trips and amount of equipment required on location to complete job objective.
- Keep the tool string as short as possible to reduce stack height.

Solution

- Halliburton Production Solutions and Wireline teams collaborated to review the well conditions and assess the capabilities of available technologies in country to reliably perform the operation in a single trip while flowing.
- Halliburton team proposed the deployment of SPECTRUM® FUSION electric and fiber optic system and SPECTRUM® 360 camera in conjunction with a Wireline PLT
- SPECTRUM® FUSION technology provided a flow through BHA integrating a 360° side-view Camera, GR, CCL, P, T, WOB and Torque sensors, and the ability to incorporate the wireline PLT tool into a single tool assembly.

Results

- In a single run, Halliburton was able to provide the customer a solution to perform the PLT and evaluate the perforations in each zone with a real-time video feed for 36Hrs with a BHT of 230F.
- Utilizing SPECTRUM® FUSION, it was possible to minimize the surface equipment requirements by combining the CT and Wireline applications into a single run, integrating multiple tools into a single BHA.
- SPECTRUM® FUSION WOB supplied string forces input and CCL and GR were used as back up, reducing the PLT length string by removing sensors.
- The customer was able to maintain well production during the operation, reducing the overall cost impact of the services.



Location: Colombia | Challenge: Real-Time Diagnostics