

Successful Execution of a Challenging Dual Completion Fishing Operation in the UAE

Experienced Wellbore Integrity Solutions (WIS) personnel planned and recovered a severely corroded dual completion.

CHALLENGE

A dual completion recovery operation was required by the customer, in a well with a complex downhole condition such as restricted wireline access to the tubing ID, severely corroded tubing, and collapsed liner in multiple sections. A contingency plan for well abandonment was considered by the customer due to the operational complexities.

SOLUTION

WIS provided experienced personnel to plan and efficiently execute the operation. Equipment, positioned locally, was utilized to ensure operational continuity. Extensive planning and technical analyses were done on BHA options and contingencies.

RESULTS

- 100% recovery of the old completion tubing and accessories was achieved.
- Comprehensive planning and experience were combined to ensure a successful operation.
- The customer was able to restore valuable well production.
- Formal recognition of outstanding performance was provided to WIS.

A complex dual completion recovery was completed and exceeded customer expectations.

The WIS team in the UAE planned and executed a challenging dual completion recovery, comprising of 2 $\frac{7}{8}$ in. and 3 $\frac{1}{2}$ in. tubing with both HS and GT hydraulic packers. During the planning process, several key factors were identified that increased the complexity of the operation:

- No internal access for wireline operations.
- Heavily corroded tubing.
- The liner was collapsed at intermittent sections.
- Multiple unrecorded obstructions in the wellbore.
- The well was at a 65-degree inclination with 7-10 degree dogleg severity (DLS).

The planning process included BHA optimization, to minimize stuck scenarios. Contingency plans were also considered for all phases of the operation. The presence of unrecorded obstructions in the wellbore also required flexibility in the wellsite execution process.

Equipment and personnel were mobilized from a WIS base to ensure prompt service and support for the customer. Close collaboration with the customer was maintained at all times to ensure the operation was completed successfully.



Figure 1: Recovered corroded tubing.



Figure 2:
Recovered HS
packer.

Figure 3: Corroded tubing
junk recovered.



Figure 4: Recovered wireline tools previously lost in hole without any records.

