



Weatherford®

REAL RESULTS

Inflatable Jet Straddle Packer System Selectively Stimulates 15 ICDs in One Run, Improves Productivity

Objectives

- Selectively stimulate the 15 inflow control devices (ICD) in a light-oil well using coiled tubing with a minimum restriction of 2.562-in. (65 mm) and a setting inside diameter (ID) of 3.548-in. (90 mm). The well was completed with 4-in. (101 mm) ICD screens and swellable packer assemblies.
- Perform the operation in one run. The straddle packers needed to be set and unset 15 times and maintain its seal integrity following each set and be able to return to the original outside diameter (OD) for subsequent retrieval in this 74-degree deviated well.

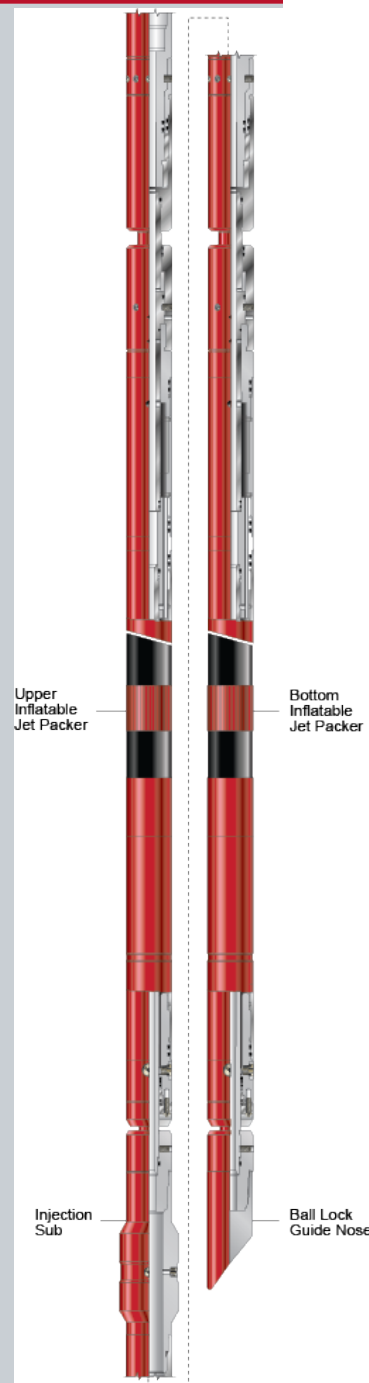
Results

- Weatherford deployed the 2.125-in. inflatable jet straddle-packer (IJSP) system rigged up with 1.75-in. coiled tubing.
- The 15 ICDs were successfully selectively stimulated using a xylene/diesel combination at a rate of 0.75 barrels/min (0.11 m³/min). Blank pipe tests were conducted between sets to confirm that the rubber elements were sealing effectively.
- The bottomhole assembly was pulled out of the hole with the inflatable rubber elements in good condition with minimal wear and tear.
- Following the operation, the well began to flow after the well was lifted with nitrogen, a positive indication that the ICDs have been effectively cleaned and zones were successfully treated, as the well was not producing prior to the job.

Value to Client

- Using Weatherford's IJSP system to selectively stimulate the 15 ICDs enabled the operator to confirm that all treatment fluid was being effectively sealed off and treated by mechanically diverting the treatment fluid directly into the required zone. This prevented the risk of having more permeable sections absorb most of the fluid, and ensured that the treatment chemicals were not wasted but were used in a cost-effective manner.
- Since the IJSP is a multiset tool, the entire operation was conducted in a single coiled-tubing run, avoiding the necessity for multiple runs to isolate sections using plugs or other devices.

Weatherford's IJSP is designed to be run on coiled tubing or a threaded-and-coupled workstring. This dual-element packer can be set multiple times, moved to different locations between each setting cycle, and then returned to the surface. The packer inflates and provides pressure sealing during pumping operations and deflates when flow is stopped.



Location

Rajasthan, India

Well Type

Onshore, oil producer

Maximum Deviation

74°

Target Depth

2,900 ft (883 m)

Products/Services

- Inflatable Jet Straddle Packers (IJSP)
- Thru-Tubing Packers

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