

Ecuador Achieves Successful Cased Hole Sand Cleanout and Well Stimulation in a Single Run

First use of a 45% inch Sand Bailer and 6 inch Junk Mill to clean sand from a 7 inch casing and perform biocide well stimulation in a single workover run.

A wellbore sand clean out challenge in Ecuador.

A major Oil & Gas Operator, in collaboration with Ecuador's Wellbore Integrity Solutions (WIS) team, planned a new workover approach combining sand clean out and well stimulation operations. The well required the removal of a 25 ft interval of resin and sand mixture inside 7 inch casing. The clean out was performed using a 45% inch OD Sand Bailer tool, featuring a 15 ft stroke that creates a suction effect of 9 gallons per stroke. As the tool is actuated, the material is drawn into the chamber and retained by a flapper valve. A Drain Sub was installed above the Sand Bailer, providing annular communication to pump a biocide sweep for well stimulation.

The operation was executed efficiently thanks to thorough planning, resulting in significant cost savings.

Using integrated solutions and advanced technology.

The Sand Bailer System's competitive advantage over similar local tools lies in its rotary connection, which enables the BHA to rotate, clear obstacles, and retrieve resin and sand from the wellbore. This capability allowed for an integrated approach, saving the customer up to one trip by combining sand clean out and well stimulation. Technology selection and BHA optimization were key customer priorities, and WIS engineering delivered the optimal solution to meet their objectives.





Left: Well trajectory Center: Junk Mill 6 inch OD Full Bore with Gauge Ring Right: Sand Bailer System Mandrel

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Well Information:

Location: Ecuador Casing Size: 7 inch (P-110, 26 lbs/ft) Setting Depth: 10 488 ft @1.82 (°/100 ft)

CHALLENGE

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The customer required to clean out 25 ft of mixture of resin and sand inside the 7 inch casing, prior to perform a well stimulation to assure and maintain suitable productivity level.

SOLUTION

Wellbore Integrity Solutions (WIS) recommended and deployed a wellbore sand clean out technology.

The solution included:

- A 45% inch Sand Bailer with a 15 inch stroke to retrieve material into the chamber.
- A 6 inch OD Junk Mill to remove remaining resin and sand.

RESULTS

- A successful execution that exceeded customer expectations, optimizing the number of BHAs intended.
- Integrated solution approach functioned as intended.
- First outstanding run of this BHA combination in the Ecuadorian oilfield.



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