

Weatherford®

REAL RESULTS

ZoneSelect™ System, FSV Shifting Tool Isolate, Stimulate Four Zones Through Tight Restriction, Increase Production with No Lost Time

Objectives

- Pass through an upper-completion ID restriction to actuate the lower completion ZoneSelect system sleeves. Standard shifting tools were too large to pass through the tight restriction.
- Shift ZoneSelect sleeves and FloReg[™] reservoir control (RC) open and closed multiple times with adequate tensile force.

Results

- Weatherford personnel deployed the FSV shifting tool (FSV-ST), a hydraulically activated device designed to manipulate sleeves between open and closed positions. The FSV-ST was expanded into a 3.98-in. (101-mm) ID of the *ZoneSelect* sleeves and easily passed through the 2.562-in. (65-mm) ID restriction.
- The FSV-ST was deployed on coiled tubing and passed through the restriction without any issues.
- After reaching the horizontal section of the well, the FSV-ST was flow activated shifted the ZoneSelect sleeve's monobore and FloReg RC sleeves 32 times in one run, a record for the FSV-ST tool in one well.
- The operator has successfully entered the well and stimulated the system four times in six months with zero lost time.

Value to Client

- Using Weatherford's FSV-ST shifting tools enabled the operator to pass through an ID-restricted open hole and actuate the ZoneSelect sleeves in a horizontal section.
- During four FSV-ST deployments, the operator incurred zero lost-time incidents.
- Within nine months, the operator had increased gas production in all four zones to 330,000 stm³/day, exceeding expectations.

Weatherford's FSV-ST, with a smaller OD, passed through a tight upper completion restriction and actuated the *ZoneSelect* monobore and *FloReg* sliding sleeves in a horizontal well section, enabling the operator to stimulate all four zones of the well and increase production with zero lost-time incidents.

Location

Black Sea, Romania

Well Type

Offshore, gas producer

Hole Size

6-1/8 in.

Depth

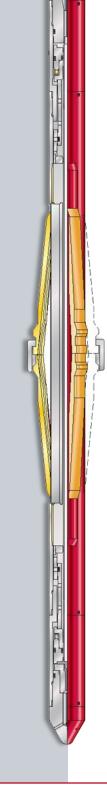
5,725 ft (1,745 m)

Casing

7 in., L-80

Products/Services

- ZoneSelect system
- Monobore sleeves
- Fraxsis® swellable packers
- FloReg RC



Weatherford
Don McRobb
Openhole Completions
Regional Product Line Manager
don.mcrobb@eu.weatherford.com

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