



Weatherford®

REAL RESULTS

Optimax™ Subsurface Valve Permits Fracture-Stimulation without Pulling the Production String, Saving Operator over \$2 Million per Job

Objectives

- Provide a subsurface safety valve that would allow the operator to perform required periodic fracture-stimulation operations to keep production rates at acceptable levels without pulling the completion string and running a frac string. The valve supplied by another service company was not durable enough to withstand the high pressures of up to 13,000 psi (89.6 MPa) when fracturing the well.

Results

- Weatherford provided its *Optimax* series tubing-retrievable surface-controlled subsurface safety valve (TRSCSSV), model WSP(E)-10 to allow frac operations through the valve.
- Using the valve, the operator successfully completed two fracturing jobs with two months of production between each job. There have been no adverse impacts on the *Optimax* valve.

Value to Client

- The ability to fracture through the safety valve without removing the completion and having to install a frac string has saved the operator approximately US\$2 million per frac job. Based on this success, the operator has placed orders for additional *Optimax* valves and has made Weatherford its preferred supplier.

Weatherford's *Optimax* TRSCSSV rod-piston, curved flapper-type safety valve is designed to shut in a well in the event of uncontrolled flow caused by equipment failure or damage. An integral part of the completion string, each model is controlled by a single hydraulic control line. The model WPS(E)-10 valve is qualified for sandy service applications with both API and in-house testing that exceeds industry standards.

Location

Remote land location in Colombia

Well Type

Oil

Well Pressure

Up to 13,000 psi (89.6 MPa) during fracturing

Depth of Operation

300 ft (91 m)

Product/Services

Optimax WSP(E)-10 TRSCSSV

