



Weatherford®

REAL RESULTS

Custom-Designed Gas-Lift Valve System Adds Up to 300 MCFD

Objectives

- Increase production by dewatering the well. The operator had been producing 120 to 500 MCFD and 50 to 60 bbl/d of fluid through a compressor. A gas-lift solution was needed to meet the production target of 1 MMCFD and 150 bbl/d of fluid.

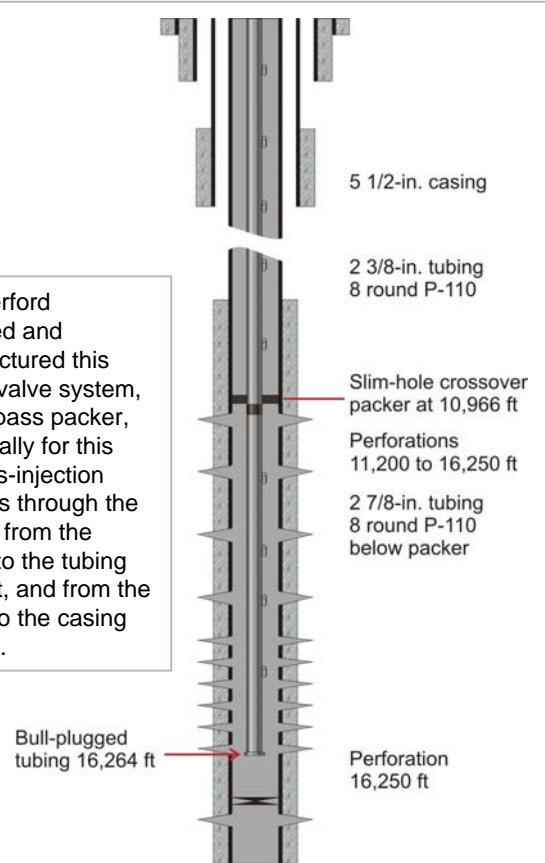
Results

- Weatherford custom-designed a gas-lift valve and manufactured a bypass packer that could run through 26-lb casing and be set in 23-lb casing. Gas-lift mandrels and a 1-in. orifice tube through the packer took the gas-injection flow from casing to tubing above the packer, and from tubing to casing below the packer.
- Gas and fluid were flowed from the perforations, up through the packer, and to the surface.
- At last report the well was producing 800 MCF of gas, 88 bbl of oil, and 21 bbl of water per day.

Value to Client

- Daily production was increased by an average of 300 MCF, with oil as a bonus.
- No downtime was experienced.

Weatherford designed and manufactured this gas-lift valve system, with bypass packer, specifically for this job. Gas-injection flow was through the packer, from the casing to the tubing above it, and from the tubing to the casing below it.



Location

Stephens County, Oklahoma, USA

Well Type

Flowing well

Formation

Shale and sandstone

Hole Size and Angle

12 1/4-in. vertical

Casing Size and Type

4.545 in., 23 and 26 lb/ft

Tubing Sizes and Types

- Below packer: 2-7/8 in., 6.5 lb/ft
- Above packer: 2-3/8 in., 4.6 lb/ft

Setting Depths

- Bypass packer: 11,000 ft (3,353 m)
- Tubing: 16,264 ft (4,957 m)

Products/Services

- Artificial-lift services
- Custom-designed gas-lift valve
- Custom-built bypass packer