Weatherford®

REAL RESULTS

Gas-Lift System Allows Operator to Produce "Dead" Well with Resulting Field Improvements for Subsequent Well Development

Objectives

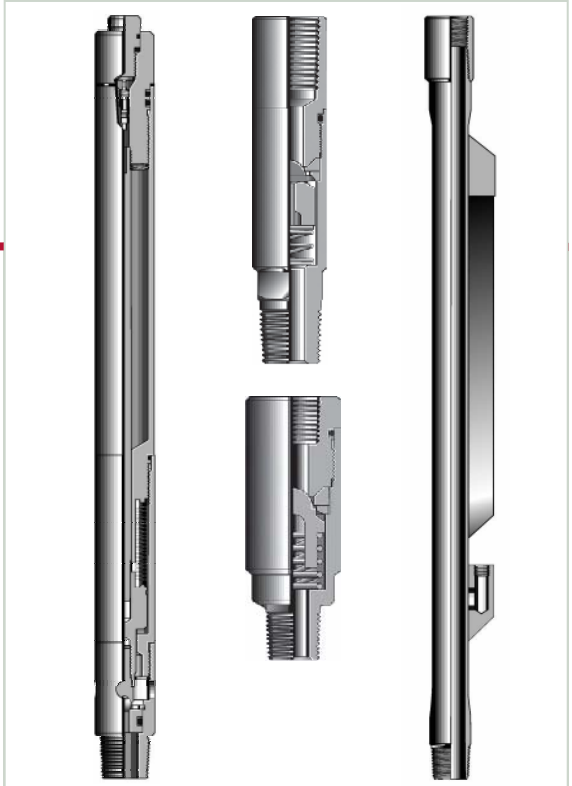
- Find an economically viable method of artificial lift to restore gas production in a new horizontal well with no production history, while creating documentation that would benefit subsequent production planning for the field's development.

Results

- Weatherford's McMurry-Macco® gas-lift equipment and a 2 3/8-in. retrievable PR-3 double-grip production packer were installed in the well at a 67° angle. This approach allowed the operator to maximize production by installing a mechanical-set production packer and injecting gas into the well at the deepest possible depth.
- Injection-pressure-operated *McMurry-Macco* C series tubing-retrievable valves with CM series gas-lift mandrels were then placed above the PR-3 production packer.
- Four other nonproductive wells were subsequently completed with similar results.

Value to Client

- The well completion objective was met economically with relatively low risk.
- Gas production from the well averaged approximately 1.1 MMscfpd.
- Gas-lift technology allowed the operator to make more accurate economic evaluations for drilling and producing additional wells in this field.



Weatherford's *McMurry-Macco* gas-lift systems offer exceptional economic value and flexibility in a variety of onshore and offshore gas-lift applications. These systems comprise a complete portfolio of value-added products, services, and solutions for production enhancement and ultimate reservoir recovery.

Location
Eastern Oklahoma

Formation
Woodford shale

Type of Wells
Horizontal gas well completions

Casing
5-1/2 in., 17-lb/ft P-110 LTC

Tubing
2 3/8-in., 4.7-lb/ft EUE 8rd

Hole Size
8-1/2 in.

Products/Services
- *McMurry-Macco* gas-lift equipment with C series gas-lift valves
- CM series mandrels
- *PR-3* production packer

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