



Weatherford®

REAL RESULTS

Gas-Lift System Recovers Dead Well, Improves Fluid Rate, Avoids Shutting-In Gas Injector, Saves Downtime, Associated Costs

Objectives

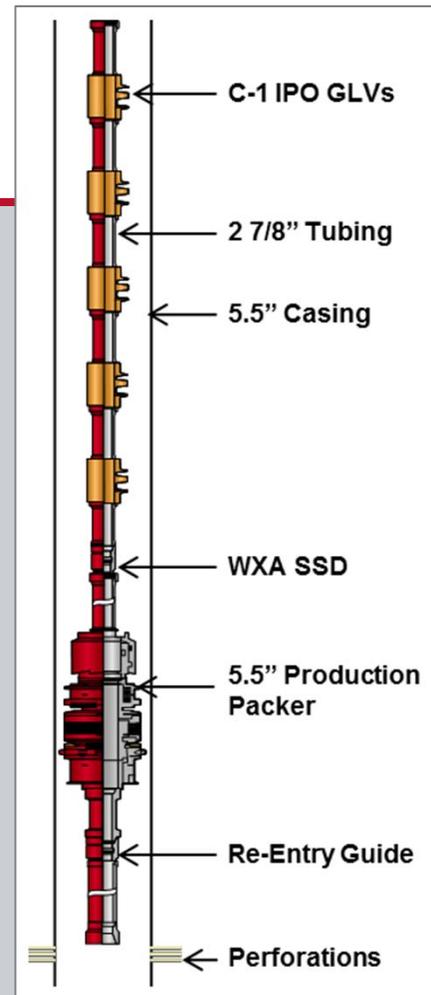
- Maximize production by recovering fluid from deeper, dead, and loaded-production layers with the existing low pressure in a gas-supply line to reach a deep gas-injection point.

Results

- Weatherford used data provided by the operator and Weatherford's gas-lift-design software to design and model an optimal solution.
- Personnel deployed C-1 injection pressure operated (IPO) gas-lift and CV-1 check valves on 2.8 CM-1 tubing-retrievable conventional mandrels with 2 7/8-in. tubing.
- A Weatherford 5 1/2-in. Arrowset I-X mechanical-retrievable production packer was set at the desired depth to isolate the casing-tubing annular from formation fluid. The 2.875-in. WXA sliding sleeve was located one joint above the packer.
- Weatherford's gas-lift system increased the fluid-production rate from 76 to 189 B/D (12 to 30 m³/d).

Value to Client

- Using Weatherford's gas-lift system enabled the operator to increase the fluid-production rate and return dead, potentially lower zones back to production.
- The efficiency of Weatherford's gas-lift unloading procedure in the well saved the operator downtime and costs associated with performing unnecessary jobs using a pump truck, compressor, and swabbing unit.
- The operator avoided having to shut-in the gas supply line of the offset wells to increase injection pressure.
- The system enabled the adjustment of injection rates to the optimum injection-gas level and avoid extra gas consumption.



Weatherford's gas-lift system.

Location

West Turkmenistan

Formation

Sandstone

Liquid Rate

- 189 B/D (30 m³/day)
- Base sediment and water: 10%
- Gas-injection pressure: 580 psi (3.9 MPa)

Depth

10,299 ft (3139 m)

Tubing Setting Depth

10,040 ft (3060 m)

Casing Size and Angle

5 1/2-in., 20 to 23 lb/ft
(29.8 to 34.2 kg/m), vertical

Products/Services

- Gas-lift equipment
- Cased-hole completion services

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford and may be registered in the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents. Specifications are subject to change without notice. Weatherford sells its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.