

# Smart Gas Lift Decreases Gas Injection Volumes by up to 50%, Improves Production in a Mature Field

## Objectives

- Reduce consumption of buyback gas for gas-lift operations in a mature field with 150 wells in South Texas.
- Optimize injection rates for an intermittent gas-lift system.
- Maintain or increase fluid production.
- Keep expenditures to an absolute minimum.

## Our Approach

- Weatherford artificial-lift engineers used proprietary production optimization programs to assess production rates, gas-to-liquid ratios, and artificial-lift systems throughout the field.
- Weatherford recommended the Smart Gas Lift solution—including the WellPilot® controller—as a rigless, low-cost solution that continually calculates and injects gas to deliver the optimal amounts to each well.
- They implemented intermittent gas lift without changing existing continuous-lift valves.
- The Weatherford WellPilot controller monitored casing and tubing pressure. The controller also regulated and recorded gas inflow and outflow.

## Value to Customer

- The Weatherford Smart Gas Lift solution with the WellPilot controller enabled the operator to decrease gas injection volumes by up to 50% in each well.
- WellPilot monitoring and reporting enabled the operator to concentrate oversight and maintenance only on wells showing signs of impending problems and reduce lifting costs by up to 50%.
- The WellPilot controller maintained or increased production in the majority of wells, and the operator realized a return on investment in one to three months per well.
- Minimal installation expenditures were quickly repaid through savings in OPEX and increases in production.



The above photo shows the WellPilot controller with injection-gas control valves and solar panels in the background.

### LOCATION

South Texas

### WELL TYPE

Onshore, oil and gas

### DEPTH

10,000 ft (3,048 m)

### PRODUCTS/SERVICES

- WellPilot controller
- Gas-lift valves

