

Weatherford®

REAL RESULTS

Hybrid Water Fracturing Technology Achieves Longer Effective Fracture Half-Lengths, Increases Production by 20%



 Compare the stimulation effectiveness of hybrid—water versus conventional fracturing technology. The goal was to determine if an operator could achieve longer effective fracture half-lengths and higher effective fracture conductivities more consistently using the hybrid water-fracturing technique to induce more cumulative production at the treated reservoirs.

Results

- Weatherford personnel used a hybrid water-fracturing technique on 15 wells in the Chicontepec Basin, a sandstone region. The hybrid technology combined the advantages and benefits of both conventional gel fracturing techniques and water-fracturing treatments.
- Weatherford measured the stimulation effectiveness using production performance data at the post-fracture conditions.
- With the successful injection of the fracture treatments, the wells were put in production. After flowing the reservoirs for 3 months, the cumulative production obtained with hybrid technology was 20% greater than that from conventional fracturing systems.

Value to Client

- Using Weatherford's hybrid water fracturing technology enabled the operator to increase the rate and efficiency of oil production.
- The production responses of the treated reservoirs were consistent with the 656-ft (200-m)-long effective flowing fracture half-lengths, representing an additional annual income for the operator of US\$1.95 million.



Weatherford used a hybrid water-fracturing technique on 15 wells in the Chicontepec Basin, Mexico, enabling the operator to realize a 20% cumulative production increase over conventional fracturing treatments.

Location

Veracruz, Mexico

Formation

Chicontepec Basin (sandstones)

Well Type

Onshore, oil producers

Hole Size

5-1/2 in.

Interval

8,200 to 8,300 ft (2,499 to 2,529 m) MD

Products/Services

Weatherford Fracturing Technologies

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