

CHALLENGE

The client's well fluids had dropped by 50% during the past 2 years. Scale deposition was suspected to be in and near the perforations. No remediation had been done in 10 years. The client was planning a workover and required a remediation method that would improve lost fluid flow. Based on adjacent wells' production, the client was expecting increases of approx. 5 BOPD and 5 mcf/d gas. Payout was required to be less than 9 months.

HIGHLIGHTS

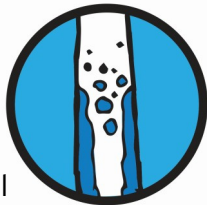
Conventional oil
Vertically drilled
Perforated completion
Artificial lift

LOCATION

Lea County, New Mexico

CONDITIONS

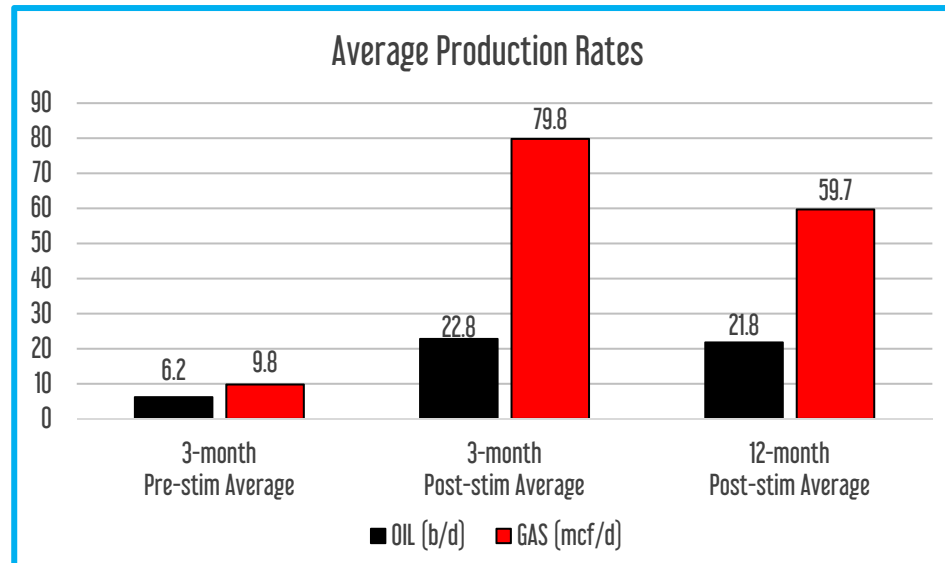
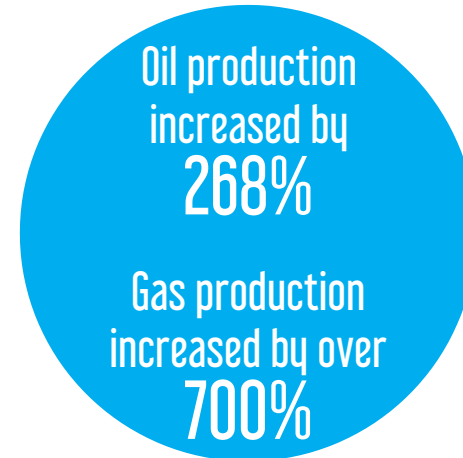
Depth: 9,700 ft (2950 m)
Temperature: 145°F (63°C)
1st Bone Spring formation



Scale Removal

OUTCOME

- Data from the WASP® treated well showed a 3-month oil production increase from 6.2 to 22.8 b/d (268% increase)
- Gas production increased from 9.8 to 79.8 mcf/d in the same 3 months (714% increase)
- The 12-month average rates correspond to a 250% increase for oil and a 510% increase for gas compared to the pre-stim rates
- Based on the results, the client is looking for other candidates in the field to remediate



SOLUTION

Improve connectivity to the reservoir using electro-hydraulic stimulation technology

- The reservoir was treated with Blue Spark Wasp® (Wireline Applied Stimulation Pulsing) to re-initiate production losses
- Approximately 40 ft (12 m) of perforated interval was treated with our wireline conveyed tool during a single day
- The client ran both the pump assembly and production tubing into the wellbore and began monitoring production rates. An immediate increase in production was observed.