

CHALLENGE

Client's conventional oil well production rates had decreased by more than 60% in only 8 months. Root cause analysis, and previous data collected through solids analysis and visual characterization, concluded that a carbonate type scale was forming. Since this was a low producer, a cost effective solution, in conjunction with a workover, was required to remediate the well. Identifying and utilizing an alternative cost effective technology that deals directly with suspected blocking mechanism (scale) in the wellbore and nearwell reservoir.

OUTCOME

- Oil production more than doubled after the remediation
- Client data shows an average increase in oil production of more than 10 b/d over a 3-month period (163% increase)
- The data for the 1-year period poststimulation showed a 90% increase in average production to 12.6 b/d



SOLUTION

Oil rate

increase of

163%

Electro-hydraulic stimulation in cased hole to improve well inflow.

- In conjunction with a workover on the well to pull tubing and bottom hole pump assembly, WASP® was deployed.
- Completed Blue Spark WASP® (Wireline Applied Stimulation Pulsing) Treatment over the 3 m (10 ft.) perforated zone of interest – Gething Formation (sandstone).
- Ran production tubing and pump assembly in wellbore and began monitoring production rates, pressure and fluid levels.
- Immediate increase in production was observed.



HIGHLIGHTS

Onshore Conventional oil Vertically drilled Perforated completion

LOCATION

Western Canada



CONDITIONS

Gething Sandstone Depth: 1500 m (4900 ft.) Temperature: 35ºC (95ºF)

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