

CHALLENGE

Client determined that a reduction in total fluid produced was the result of severe scaling of the perforated interval in the Montney formation.

This build-up of scale was confirmed to be Calcium Carbonate. Previous acid treatments had little effect in removing the scale deposition to improve production.

HIGHLIGHTS

Onshore
Shale Oil
Vertically Drilled
Perforated Completion

LOCATION

Northern Alberta, Canada

CONDITIONS

Depth: 1900m
(6200ft) Temp:
65°C (150°F)
Formation: Montney Shale



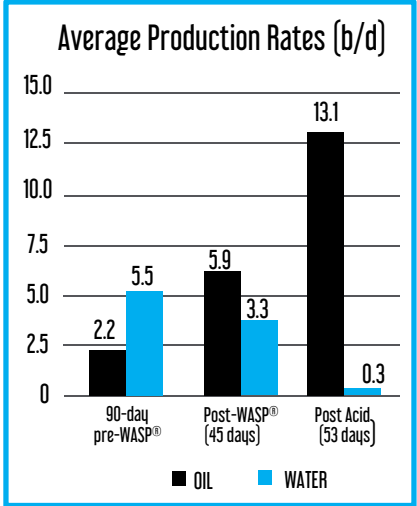
Chemical Treatment

OUTCOME

- Client data from the WASP® treated well showed an increase from 2.2 bbl/day (0.35m³/d) of oil to 5.9bbl/day (0.93 m³/d) in the first 45 days post stimulation.
- After complementary matrix acidizing, the oil rate increased further to an average of 13.1 bbl/day (2.09 m³/d) for the next 53 days

166%
increase in OIL
after WASP® stimulation.

6X oil rate
after WASP® + acid
treatment



SOLUTION

Improve connectivity to the reservoir using electro-hydraulic stimulation technology.

- Blue Spark WASP® (Wireline Applied Stimulation Pulsing) technology was run on third party wireline
- A 2m (7ft) interval was stimulated with a total operating time of just over 2 hours.
- The well was placed back on production and an immediate sustained increase in production was observed
- After 45 days of sustained production the customer successfully acidized the well with outstanding results