

CHALLENGE

Client was seeking to deploy a technology that is simple to use during routine workovers to improve production of their wells in a mature field. Their wells were originally hydraulically fractured, and subsequently had matrix acidizing done on them, but this generally had minimal success and was short-lived. The client required the additional remediation to be cost-effective and to be done efficiently together with re-perforating and acidizing.

HIGHLIGHTS

- Light Oil (44 API)
- Vertically drilled
- Perforated completion
- Artificial lift

LOCATION

Central Alberta, Canada

CONDITIONS

Depth: 2,100m (7,000ft)
Cardium Sandstone

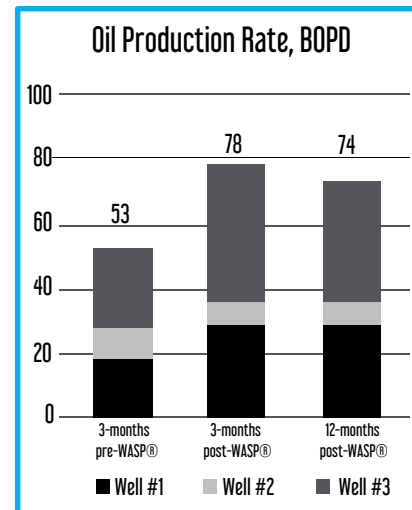


Chemical Treatment

OUTCOME

- The client data showed an immediate increase of 96% in the 3 wells combined.
- Public data showed an increase from 53 to 78 BOPD in a 3-month comparison (47% increase).
- Sustained production over one year averaged 74 BOPD, a 40% increase over the 3-month period prior to the workovers.

Increase in oil:
47% for 3 months
40% for first year



SOLUTION

Improve connectivity to the reservoir using electro-hydraulic stimulation technology combined with re-perforation and matrix acidization.

- Three wells were treated with Blue Spark WASP® (Wireline Applied Stimulation Pulsing) to improve production.
- The wells were re-perforated, then stimulated with WASP® and lastly were acidized.
- An average of 8 m (26 ft) of perforated interval per well was treated with our wireline conveyed tool.
- Production rates and fluid levels were both monitored for comparison to pretreatment values.