

CHALLENGE

The reservoir had sustained skin damage during the drilling process, and a remediation was required. Previous acid stimulation had resulted in negligible well production increases and caused lower borehole collapsing due to matrix dissolution. With a ban on conventional hydraulic fracturing, the client was looking for an alternative but effective remediation option.

HIGHLIGHTS

On shore
Conventional oil
Vertically drilled

LOCATION

Eastern Canada

CONDITIONS

Depth: Shallow
Formation: Unconsolidated sandstone
Temperature: 25°C (77°F)

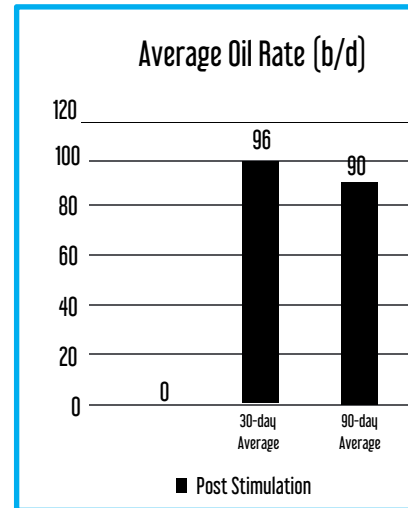


Open Hole

OUTCOME

- Pre-and post-stimulation image data comparison (electrical resistivity) on a single producing wellbore confirmed that electro-hydraulic technology created fractures in the near wellbore region.
- Client data from the WASP® treated well showed an average increase in oil production of 96 b/d over a one month period.
- Sustained oil production over 90 days maintained an average of 90 b/d
- Client is evaluating the use of electro-hydraulic stimulation in other tight oil reservoir environments, especially where acid-stimulations failed.

From negligible production to 90 b/d



SOLUTION

Improve connectivity to the reservoir in open hole, with electro-hydraulic stimulation technology.

- In consultation with our client, the wellbore candidate was confirmed, and subsequently treated with Blue Spark WASP® (Wireline Applied Stimulation Pulsing) technology.
- Approximately 58m (190 ft) of open hole were treated with our wireline conveyed tool.
- No special tools or equipment were required on location to complete the remediation operation.
- Evaluated production rates pre and post-stimulation to determine success.