

**CHALLENGE**

Client was seeking to deploy a technology that is simple, and that deals directly with the root cause of the production decline — loss of worm-hole flow paths. Oil production was lost two months after well completion resulting in only water being produced. As a low volume producer, a cost effective solution, in conjunction with a workover, was initiated to remediate the well.

**HIGHLIGHTS**

Heavy Oil (13 API)  
Vertically drilled  
CHOPS

**LOCATION**

Western Canada

**CONDITIONS**

Depth: 450m  
(1500ft) Unconsolidated  
Sandstone

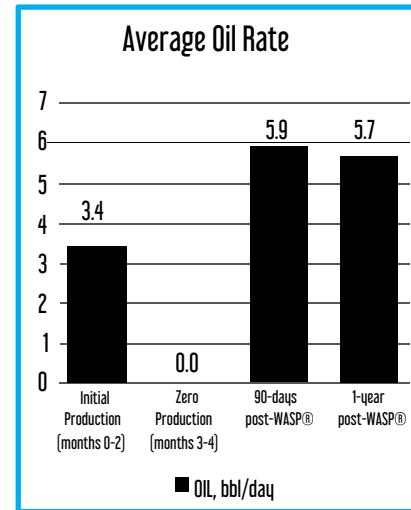


Producing Wells

**OUTCOME**

- Worm-holes were re-initiated allowing oil to flow into the well
- Client data from the WASP® treated well showed an average production increase from 0 bbl/day to 5.9 bbl/day for 90 days post stimulation.
- Sustained production over one year had averaged 5.7 bbl/day

**PRODUCTION RE-INITIATED.  
75% INCREASE ABOVE INITIAL PRODUCTION.**



**SOLUTION**

- Improve connectivity to the reservoir by re-initiating worm holes using electro-hydraulic stimulation technology.
- Unconsolidated sandstone (CHOPS) reservoir was treated with Blue Spark WASP® (Wireline Applied Stimulation Pulsing) to re-initiate production.
- Approximately 2.5 m (8 ft.) of perforated interval were treated with our wireline conveyed tool.
- Treatment was completed in half a day.
- Production rates and fluid levels were both monitored for comparison to pretreatment values.