EXPRO

WELL FLOW MANAGEMENT™

/ Expro Excellence TCP

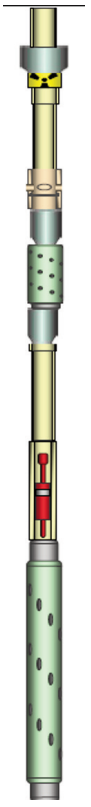
Expro-designed dynamic underbalanced perforating improves production

Objectives/background

- A large, independent operator in Alaska contacted Expro to undertake an evaluation of an enhanced recompletion method to improved production of an existing offshore well
- The client wanted to improve production through the recompletion using TCP dynamic underbalanced perforating

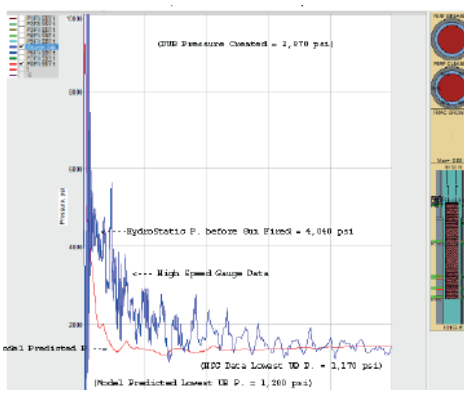
Expro Excellence

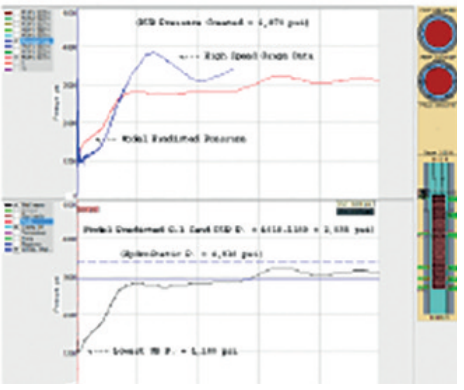
- Working collaboratively with reservoir engineers from Expro Group Integrated Service (EGIS), the client's reservoir was evaluated considering: formation type and compressive strength; porosity and permeability; pressures existing in the formation and wellbore; bottomhole temperature; and completion fluid used
- Pre-job modelling allowed Expro to optimise the completion by recommending TCP dynamic underbalanced perforating
- Down hole fast gauges were placed in close proximity to perforating guns, which measured event parameters (pressure/temperature) validated the pre-job model calculations
- Upon firing the assembly, the formation fluid surged at the optimum pressure to clean up the perforation tunnel within the formation to allow maximum flow



Value to client

- Several zones within the wall were perforated and subsequently tested for each zone
- Increased production and long-term enhanced results – the well has returned to production and now consistently generating revenue
- Restored confidence – fast gauge data confirmed the perforating program was correctly modelled and effectively executed





- 13,000 – 13,500ft measured depth
- Up to 12 shots per foot
- One trip with sequential gun firing

Contact

For further information, please contact:

Kerry Daly
Global Business Development Manager, DST-TCP
kerry.daly@exprogroup.com
www.exprogroup.com/dst