

HiTech Fluid Systems

THE BALANCE IS ALWAYS IN THE SERVICE

Western Canada; Aphron Fluid Technology for Workover of Under-pressured Dolomitic Carbonates

Well Information

Location:	Western Canada, Peco Field
Spud/Completion:	Winter 2009
Formation:	Nisku "C" (under-pressured carbonate)
Formation Pressure:	Less than 699 kg/m ³ equivalent
TVD:	Original Depth = 3,975m (13,041 feet) Final Depth = 4,004m (13,136 feet)
BHT:	120 °C (248 °F)
H ₂ S Content:	6.8%
Interval:	Vertical Workover

The Objective

Deepen an existing well without damaging existing perforated production zones.

The Solution

The operator wanted to work-over this well, remove multiple packers, drill 29m of new hole out of a 114 mm liner opening up virgin reservoir in the Nisku "C", while minimizing fluid losses to the existing producing formation. New packers were to be set and the well perforated. Operator was concerned about the depth, BHT, and high H₂S content of the well, and wanted to work-over the well with a column of fluid as it would be a safer alternative.

The HiTech engineering group recommended the use of our Aphron ICS™ Fluid System. Aphron fluid provides excellent sealing mechanics to protect the existing perforated zones, superior hole cleaning characteristics for cuttings removal, and a safe working environment by being able to work over and complete a "dead" well, instead of the optional choice of snubbing on a "live" well.

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The Results

The operator was able to kill the well using our Aphron ICS™ Fluid System and perform all downhole work required to complete the workover. Initially, circulation was lost due to an operational malfunction. Once corrected, circulation was re-established and the operator was very happy with the limited amount of fluid lost to the producing formation.

We were able to eliminate the cost of coil tubing and completed the project ahead of schedule with a service rig only.

Additional Information

If you would like to know more about the Aphron System and how it's performed on hundreds of wells for our customers, please contact HiTech Fluid Systems Ltd.



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