Radial Drilling Significantly Increases Production at Petrobras Maria Ines Del Oeste & Puesto Peter fields, in Southern Argentina

Lateral jetting technology allows accurate positioning of laterals, significantly increasing completion effectiveness compared to conventional and less accurate directional drilling and/or fracturing.

**CHALLENGE**

Extreme accuracy required to complete the Magallanes formation cost effectively.

**SOLUTION**

Apply a sequence of extended laterals accurately depth positioned to surgically penetrate the oil zone in a thin bedded formation.

**RESULTS**

Production increases in excess of 300% were achieved.

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**Thin-bedded Magallanes formation required precise depth accuracy**

The Magallanes formation exhibits good porosity & permeability characteristics, but has differing levels where saturation varies between 30%-80%. Conventional directional drilling and fracturing lacked the accuracy required to maintain a position in the low saturation zone.

**Laterals accurately depth positioned provide immediate solution.**

Four wells in the Maria Ines Del Oeste and Puesto Peter fields were chosen to receive precise depth positioned laterals in the horizons with low-level water saturation.

Laterals were achieved using inhibited fluid with volumes no more than 1,000 liters per lateral and configured for zero formation invasion.

**300% - 600% production increase without loss of efficiency or added cost.**

Following lateral placement, the wells flowed back and produced a comparison cumulative oil volume with an increased production between 300%-600%. This far exceeded the operator’s original expectations. As a result Petrobras continues to apply the technique.