

Product True Flow

Reservoir Pressure

Evaluates and quantifies formation pressure

What it delivers

Knowing reservoir pressure is fundamental to managing well and reservoir performance more effectively. But assessing formation pressure behind casing using traditional techniques can be costly, time consuming and disruptive.

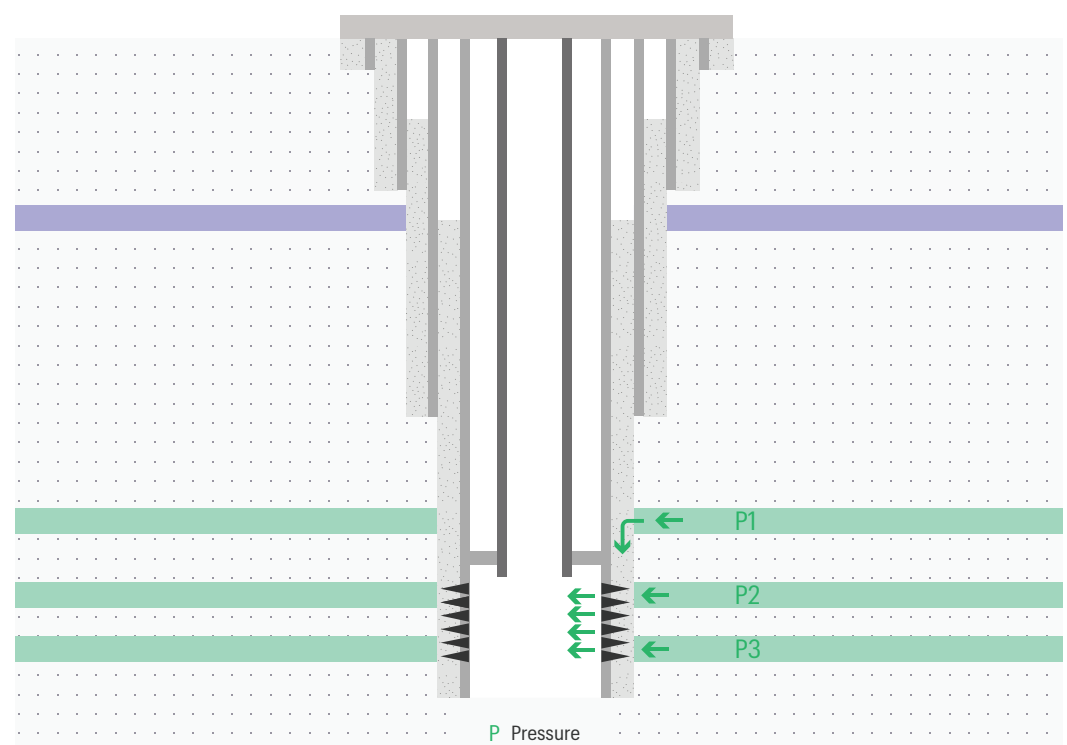
Reservoir Pressure provides formation pressure information behind casing, bringing the critical insights needed without the cost and disruption of more invasive techniques.

Delivered by our True Flow system using the Chorus (acoustic) platform; Reservoir Pressure provides the clarity and insight needed to manage well and reservoir performance more effectively.

Reservoir Pressure has become an invaluable resource for operators managing assets to improve or maintain well and reservoir performance.

Well sketch shows a range of pressures exhibited at different formation layers that Reservoir Pressure can evaluate.

Reservoir Pressure provides the clarity and insight needed to manage well system performance more effectively.



Challenges

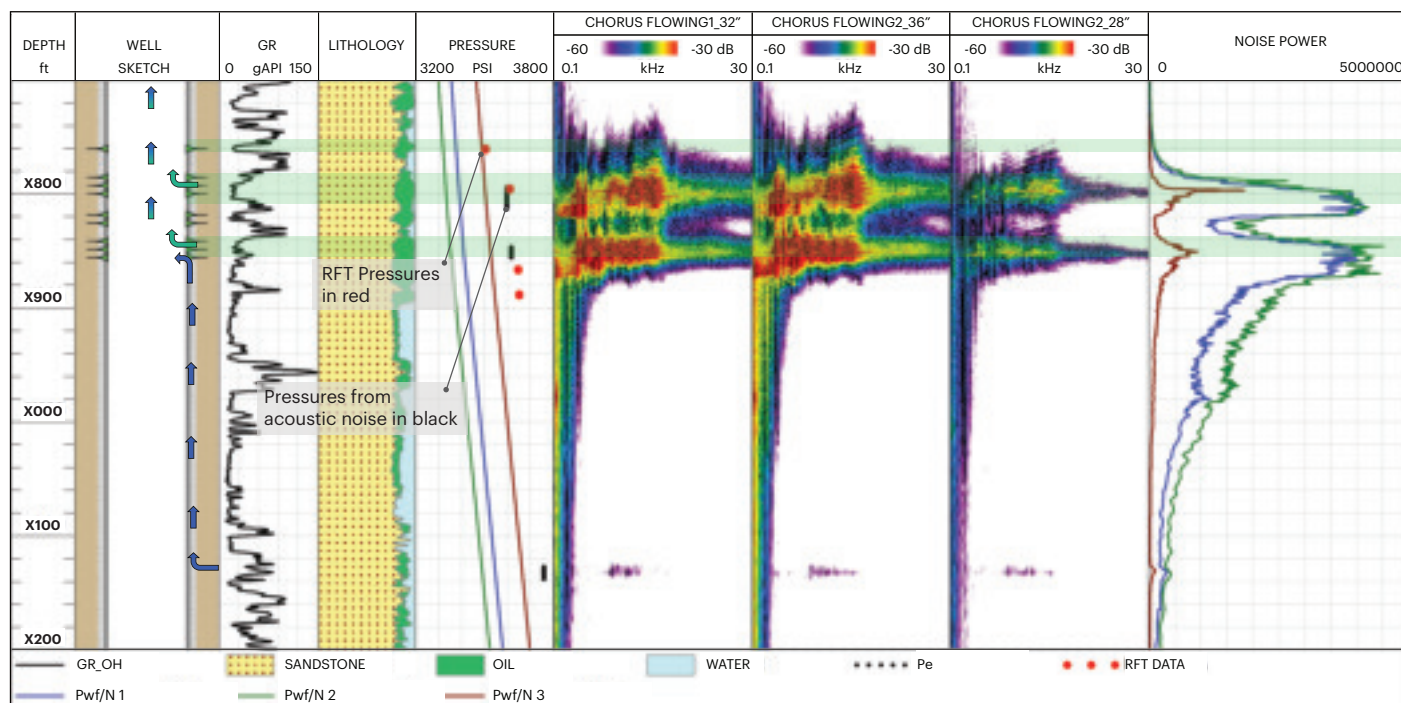
- Quantify formation pressure behind casing
- Poor production or injectivity performance
- Unexpected change in well system performance
- Unexpected water or gas breakthrough
- Suspected cross-flow
- Recalibrating reservoir model

Benefits

- Determine actual formation pressure behind casing
- Better well and reservoir management decisions, precisely targeted
- Improve well system performance
- Calibrate reservoir model

Indicative logplot for Reservoir Pressure

Estimation of pressures for each layer from noise powers at three flow rates (black bars) matched the RFT pressure data (red marks) that has been recorded in nearby wells, and in the same well previously.



Case studies

CS013 Formation pressure established for individual layers, under flowing conditions without shutting in the well.

Technical papers

SPE-177620: Quantification of Reservoir Pressure in Multi-Zone Well under flowing conditions using the Chorus Acoustic platform (SNL) Zubair Reservoir, Randhatain Field, North Kuwait.