

Angola; Aphron Fluid Technology for Drilling Problematic Formations

Well Information

Location:	Luanda, Angola, Pacassa Field
Formation:	Mississippian Age Fractured Vugular Dolomite
Formation Pressure:	Less than 599 kg/m ³ equivalent
Interval:	Modified S-Curve 49° deviated directional wells

The Objective

The operator needed to drill a fractured, vugular formation eliminating differential sticking and fluid losses. Operator also needed to control the frequent occurrences of H₂S and CO₂ gas and kicks at the top of the Albian A formation.

The Solution

The HiTech engineering group recommended the use of our Aphron ICS™ Fluid System.

The Results

Switching from invert to Aphron ICS™ Fluid System, wells were successfully drilled to TD with minimal losses and no stuck pipe. The Aphron ICS™ System also allowed for 99.9% core integrity, a full open-hole logging series and eliminated cementing issues. Combined, these successes allowed for expanded development of the Pacassa Field.

Losses:	reduced from 477 m ³ to 40 m ³
ROP:	increased from 2 to 5 meters per hour
Rig Days:	reduced from 50 days to 29 days

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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