LithoStar® Service

INTEGRATED POROSITY IMAGING FOR ACCURATE RESERVES CALCULATIONS AND GEOLOGICAL AND PETROPHYSICAL INTERPRETATIONS

OVERVIEW

Formation density is a key petrophysical measurement for understanding the porosity of your reservoir. The LithoStar® service from Halliburton makes wireline-quality density measurements while drilling. Real-time density borehole images, in both oil-based and water-based mud systems, provide a detailed understanding of the geological structure. The LithoStar service also provides accurate measurements of formation neutron porosity, helping to distinguish between fluid types. The LithoStar service provides petrophysical and geological insight throughout the well-construction process.

HIGH ACCURACY AT THE RIGHT TIME FOR BETTER DECISIONS

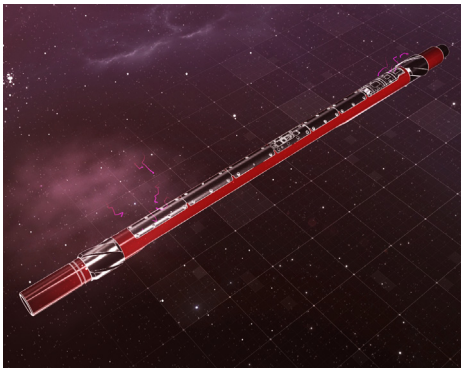
The advanced downhole processing algorithms used by the LithoStar service deliver high-accuracy and high-precision measurements while drilling–before significant borehole degradation or fluid invasion can occur. This gives the best picture of the true formation properties. With the borehole in its best condition, porosity determination is enhanced leading to improved reserves calculations.

GEOLOGICAL AND LITHOLOGICAL INSIGHT

Density and photoelectric (Pe) absorption borehole images let you understand your lithology and structural dip regardless of borehole orientation. Real-time structural dip interpretation leads to better geosteering decisions to accurately place the well in the target zone. The image logs reveal borehole shape and hole spiraling and can help assess stress-induced breakout and mitigate borehole stability issues.

GAS DETECTION AND REAL-TIME FLUID TYPING

Integrated density and thermal neutron porosity measurements detect and evaluate gas-bearing formations and determine lithology and porosity in structurally complex geological environments. With the LithoStar service, you can improve your real-time decision making and gain a clearer understanding of the petrophysical and geological characteristics of your reservoir.



BENEFITS

- Improve reserves calculations
- Determine lithology with Pe measurements and images
- Refine the earth model by measuring structural dip in real time
- Optimize wellbore placement through precise geosteering
- Acquire real-time formation images in oil-based or water-based mud systems
- Improve understanding of mechanical rock properties
- Delineate complex lithologies and identify target zones in real time
- Evaluate gas-bearing formations

FEATURES

- Wireline-quality density measurements
- Integrated formation density, neutron porosity, and ultrasonic standoff measurements
- Azimuthal density and porosity images
- Comprehensive environmental corrections

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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