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Rock Physics Templates for 4 D Seismic Reservoir Monitoring

Rock-physics templates (RPT) establish a link between the elastic properties (e.g., velocity, density, impedance, wet-rock stiffness moduli) and the reservoir properties such as porosity, fluid saturation and clay content in sandstones or kerogen content and

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Based on the rock physics model, we constructed rock physics templates in terms of seismic attributes and geomechanical properties for the analysis of porosity, lithology and BI. The results show that the seismic attributes of both V_p / V_s and I_p can reflect the variation in porosity, but compared to I_p , V_p / V_s has more sensitivity to the variation in clay content, especially as ...

Seismic rock physics - SEG Wiki

Rock Physics Templates - CGG

Rock physics template (RPT) analysis of well logs and ...

Cross plotting of Rock Properties for Fluid and Lithology ...

Rock-physics templates. The set of models for varying degrees of N:G shown above are a basic example of rock-physics templates (RPTs), as promoted by Avseth et al. (2005). From that starting point, it is fairly easy to build a function to create RPTs that show not only variations in porosity and mineralogy but also fluid content.

CGG: Rock Physics

We build rock-physics templates (RPTs) for reservoir rocks based on seismic quality factors. In these templates, the effects of partial saturation, porosity, and permeability on the seismic properties are described by generalizing the Johnson mesoscopic-loss model to a distribution of gas-patch sizes in brine- and oil-saturated rocks.

Applying Rock Physics towards Seismic Characterization ...

Quantitative Seismic Interpretation demonstrates how rock physics can be applied to predict reservoir parameters, such as lithologies and pore fluids, from seismically derived attributes. The authors provide an integrated methodology and practical tools for quantitative interpretation, uncertainty assessment, and characterization of subsurface reservoirs using well-log and seismic data.

2. Rock physics templates. Rock Physics Templates (RPTs) are charts and graphs generated by using rock physics models, constrained by local geology, that serve as tools for lithology and fluid differentiation (Odegaard and Avseth, 2004).

Rock Physics Template for Brittleness Interpretation and ...

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Vp/Vs in Reservoir Characterization - Telesto Energy

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Rock physics analysis for QI and reservoir ...

Lithology and fluid differentiation using rock physics ...

Rock Physics Templates For Analysis

Rock-physics templates based on seismic QRock-physics ...

Rock Physics analysis – a prerequisite. However, for effective application of this attribute to reservoir identification and subsequent use in seismic reservoir characterization, we should carry out a rock physics study and cross-plotting analysis using rock physics template (RPT).

This document discusses the rock physics templates (RPT), and how we have implemented the RPT approach in the Hampson-Russell software release HRS-9. The method is based on theory proposed by Dvorkin and Nur (1996) and Ødegaard and Avseth (2003). We will show the equations and the concepts behind the theory using graphical methods .

Rock Physics Analysis PGS' specialist approach to rock physics and AVO studies is based on a robust statistical rock physics workflow and is the foundation of more extensive quantitative interpretation studies enabling us to handle rock physics models in the depth domain.

Lithology and fluid differentiation using rock physics template The elastic properties such as velocity, density, impedance, and V_p / V_s ratio take an important role in reservoir characterization because they are related to the reservoir properties. To analyze these elastic properties, rock physics rock physics template based on an organic-rich rock physics model and two new RBIs (short for relative brittleness index) which presented by us formerly. The template establishes a connection of ...

Combined porosity, saturation and net-to-gross estimation ...

Rock-physics templates for hydrocarbon sourcerocks

Rock Physics Explore the link between reservoir properties and seismic data. Build rock physics models and calibrate them to well data. Start with a seismic-petrophysical model to derive optimal elastic properties for all lithologies including non-reservoirs.

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rock physics analysis seven acoustic zones identified. applying rock physics towards seismic characterization: case study from an unconventional resource, neuquén basin argentina . 2- case study: location and geology . teresa santana*, r. weger**, silvana gandi*, alejandro d'odorico*, ariel kautyan*

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