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Rock Physics Model Based Prediction

Rock physics model-based prediction of shear wave velocity utilizing machine learning technique for a carbonate reservoir, southwest Iran ... Along with

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using the machine learning techniques, a rock physics model-based approach is proposed to have a better prediction of S-wave velocity in carbonate rocks with the complexity of pore structure.

Rock physics model-based prediction of shear wave velocity ...

Inverse Rock Physics Modelling (IRPM) is

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a rock physics based inversion method for predicting reservoir properties such as porosity, lithology and fluid saturation. The method was developed at University of Bergen by Prof. Johansen and Dr. Jensen, and has been published in several peer-review journals.

Rock physics modelling and

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A rock physics model-based method is developed for estimating pore aspect ratio and predicting shear wave velocity V_s from the information of P-wave velocity, porosity and mineralogy in a borehole. Statistical distribution of pore geometry is considered in the rock physics models.

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Rock physics model-based prediction of shear wave velocity ...

An important activity in characterizing reservoirs is constructing models of rock physics, which represent how properties of rocks result in observable characteristics. This model-centric approach contrasts with an analysis-

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based approach, which reasons backwards from observables to rock properties.

Model-Based Approach to Rock Physics Improves Predictions ...

Rock physics model-based prediction of shear wave velocity utilizing machine learning technique for a carbonate

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reservoir, southwest Iran Highlights • We used a combination of rock physics, and machine learning to estimate VS. • A simplified Gassmann equation is derived with a defined C-factor. • We used the GPR technique to predict the C-factor from reservoir properties. • The pore volume ...

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Rock physics model-based prediction of shear wave velocity ...

A rock physics model-based method is developed for estimating pore aspect ratio and predicting shear wave velocity V_s from the information of P-wave velocity, porosity and mineralogy in a...

(PDF) Rock physics model-based

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Prediction of shear wave velocity based on a statistical rock-physics model and Bayesian theory Highlights • Shear wave velocity prediction is presented based on a statistical rock-physics model. • Prior information is used in Bayesian inversion framework to improve estimation. • The new method can improve accuracy of

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velocity prediction and provide additional statistics of the estimation ...

Prediction of shear wave velocity based on a statistical ...

in unconventional resources. A rock physics model-based method is developed for estimating pore aspect ratio and predicting shear wave velocity

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V_s from the information of P-wave velocity, porosity and mineralogy in a borehole. Statistical distribution of pore geometry is considered in the rock physics models.

Rock physics model-based prediction of shear wave velocity ...

Firstly, a statistical rock-physics model is

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built for the relationship between logging curves and V_s , which is realized by initializing key petrophysical parameters of Xu-White model by...

Prediction of shear wave velocity based on a statistical ...

The rock physics modeling of shale gas in orthotropic (OA) medium is designed

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to equate the normal compaction trend (NCT) to predict pore pressures. P-wave velocity is inverted from azimuthal seismic data based on the reflectivity approximation of OA medium. .

Pore pressure prediction in orthotropic medium based on ...

The most important part of the

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prediction process is the determination of the effective stress coefficients and dry-rock moduli versus effective pressure, since these properties characterise the acoustic behaviour of the rock. The inversion method based on the shaley sandstone model must fix some parameters while inverting the others.

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Rock Physics of Geopressure and Prediction of Abnormal ...

Rock physics constructs the relationship between the elastic properties (P -wave velocity, S -wave velocity, density, etc.) and underground reservoir parameters (porosity, fluid saturation, clay content, etc.), which is the foundation of reservoir

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prediction and hydrocarbon detection with seismic data.

The construction of shale rock physics model and ...

Integration of Rock Physics Modelling to Improve Pore Pressure Prediction in Unconventional Shales A presentation shared at URTeC. We discuss some

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initial and ongoing work in the Midland Basin. The work focusses on how we can potentially improve pore pressure work and techniques in unconventional shale plays.

Resources | Ikon Science

Based on the observed correlation between porosity and mineral

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composition and known microstructure of tight oil siltstone in Daqing oilfield of Songliao basin, we develop a rock physics model by combining the Voigt-Reuss-Hill average, self-consistent approximation and differential effective medium theory.

Rock physics model of tight oil

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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. Compare velocity predictions from petro-elastic

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models with measured/conditioned
velocity logs.

CGG: Rock Physics

Based on a well-derived rock physics model in a clastic setting, they tested the ability to predict lithotypes from inverted seismic data using a Bayesian lithoseismic classification, classification

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using a Democratic Neural Network Association, and the direct neural network inversion for rock properties (PHIE, Vshale).

Comparing Bayesian and Neural Network Supported Lithotype ...

Rock physics models can be constructed to predict elastic rock properties as a

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function of mineralogy, porosity, effective pressure, temperature, etc. Often the models are simplified by setting certain rock properties to be constant, such as pressure and temperature.

Predicting Mineralogy from Elastic Rock Properties | CSEG ...

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Digital rock physics combines modern microscopic imaging with advanced numerical simulations to analyse the physical properties of rocks.

Elastic-wave propagation modelling based on the microstructure images is used to estimate the effective elastic properties of the rock.

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Digital rock physics: numerical prediction of pressure ...

Ikon's Rock Physics model-driven correction of TOC variation in 3D allowed robust prediction of pore pressure – a driving factor in production performance in this play. Well Planning & Design. To optimize for cost effective, safe operations, there are many factors to

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consider in well design.

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