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Using seismic and well data to determine processes of folding in the Pomeranian segment of the Caledonian Foredeep Basin, Poland Author links open overlay panel Andrzej Konon a Michał Wyglądała a Anna Haluch a Barbara Rybak-Ostrowska a Marta Cyz b Michał Malinowski b

Using seismic and well data to determine processes of ...

Seismic velocities complement well control data to build a comprehensive velocity database. Interpreters have always been intrigued with the concept of creating maps from seismic velocities to complement available well control data. The FootNote identifies the type of data required

Building a Velocity Database using Seismic and Well Data ...

Statistical wavelet extraction has the luxury of requiring no well information and only uses the seismic amplitude data, however, it is assumed that the seismic data and well are in phase, and the seismic data is noise-free. Well log data will preferably be incorporated into any wavelet estimation process, but a problem exacerbated by the growth in broadband seismic methods is the fact that most logging intervals only span short vertical distances; sometimes only the producing reservoir ...

Linking broadband seismic data to well information | Oil ...

Both PCA and neural network can be used to integrate a number of seismic attributes to predict a continuous vari - able, such as porosity, permeability, and hydrocarbon production. When well data...

Integration of seismic and well-log data using statistical ...

Integration of Seismic and Well Log Data Using Vertical Seismic Profile

Integration of Seismic and Well Log Data Using Vertical ...

Analysis and integration of seismic data together with well logs data can effectively improve the accuracy of reservoir characterization [10],[13][14] [15] [16]. Hence, the required minimal level ...

(PDF) Reservoir Characterization using Seismic and Well ...

Seismic velocities complement well control data to build a comprehensive velocity database. Interpreters have always been intrigued with the concept of creating maps from seismic velocities to complement available well control data.

Building a Velocity Database using Seismic and Well Data ...

Traditionally, an interpreter uses well log data, which has high vertical resolution but little lateral coverage, to understand amplitude variations in seismic data, which has lower vertical resolution than well logs but high spatial coverage. The process of calibration is referred to as a seismic-well tie.

Seismic and well log data integration using data-matching ...

During analysis, hydrocarbon saturation in relatively unconsolidated sandstone reservoirs is a pore fluid property that has been successfully mapped using seismic surveys. The presence of hydrocarbon typically lowers the seismic velocity and density

(PDF) Reservoir Characterization Using Seismic and Well ...

An attempt has been made using seismic and well data to predict the possible overpressure zones and pore pressure estimation for the principal reservoir, the Sui Main limestone formation, at...

Special Report: Seismic, well data used to estimate pore ...

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### Seismic Drilling Solutions - Reservoir Characterization ...

This dataset represents a project-based collection of seismic interpretations of 2D and 3D commercial seismic reflection data. These data are integrated in a relational database in ORACLE in a data model called OpenWorks. Well log data, stratigraphic, velocity and well and seismic location data are also held in the database.

### Interpreted Seismic And Well Data. - data.gov.uk

Tie well data to seismic sections. Interpret horizons and faults on 2D and 3D seismic data (paper). Conduct a regional evaluation to identify high-potential blocks. Generate time structure and isochron maps. Design and cost a 3D seismic survey. Use seismic attributes to understand reservoir facies. Build a reservoir quality map.

### Using Seismic Data from Acreage Capture to Early Field ...

Seismic and well log data are widely used in petroleum exploration to map the subsurface. The two data sources are complementary: seismic profiles provide an almost continuous lateral view of subsurface, whereas well logs yield fine vertical resolution of the geology at the borehole.

### Integration of Well Logs and Seismic Data for Prospects ...

All modern seismic inversion methods require seismic data and a wavelet estimated from the data. Typically, a reflection coefficient series from a well within the boundaries of the seismic survey is used to estimate the wavelet phase and frequency. Accurate wavelet estimation is critical to the success of any seismic inversion.

### Seismic inversion - Wikipedia

of well data from 2 wells (AA-1 and BB-5) and 2D seismic data of 20 lines. The well log suit consists of gamma ray, resistivity, sonic, density and neutron. Check shots and well tops of the Songo Songo AA-1 and BB-5 were also used. Methodology The seismic section was used for seismic stratigraphic and structural analysis while the wire line logs were used in identifying the

### Integrated Seismic Stratigraphic and Structural Analysis ...

A typical Seismic data inversion technique workflow includes the following steps - Log Conditioning, editing of the wash outs, cycle skipping, shales alteration, modeling the Vp and density of the reservoir formation - Petrophysical and geophysical well log analysis, in which mud filtrate invasion is corrected and the lithology of the reservoir formation delineated using Vshale and Vclay.

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