

Seismic Attributes Analysis

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THE ADVANCED **Seismic Attributes Analysis** A seismic attribute is any measure of seismic data that helps us better visualize or quantify features of interpretation interest. Seismic attributes fall into two broad categories – those that help us quantify the morphological component of seismic ...

Analysis of seismic attributes gives insight into hydrocarbon presence, fluid movement (in time lapse mode), porosity, and other factors used in evaluating reservoir potential. This study evaluates a producing lease using **Seismic Attributes Analysis** of an area covered by a 2010 3D seismic survey

Attribute analysis of 3-D seismic data in time slices presents a great opportunity for reservoir characterization. The interpretable information of the 3-D seismic data can be enhanced with complex seismic trace attributes. The correlation between various P-wave seismic attributes and lithology has been used for some time, however, the

and azimuth, waveform similarity, or frequency content), seismic attributes often organize features into displays that provide enhanced images for either a human interpreter or for modern geostatistical or neural-network computer analysis. While seismic attributes are

the porosity. From the seismic attribute studies and well log analysis the estimated thickness of the reservoir zone is about 12.2 m and the porosity in the reservoir zone varies from 28-32 %. Keywords: Seismic attribute, Reservoir characterization, Thickness and Porosity Introduction Seismic attributes have been increasingly used in both

Seismic attributes are the components of the seismic data which are obtained by measurement, computation, and other methods from the seismic data. Seismic Attributes were

introduced as a part of the seismic interpretation in early 1970's. Since then many new attributes were derived and computed. Most of these attributes are of commercial interest

3D Seismic Attributes for Prospect Identification and Reservoir Characterization 29 May – 1 June 2013 (4 Days) MUNICH GATE – Garching Technologie und Gründerzentrum Munich-Garching 4 DAYS COURSE Registration Deadline: 19 April 2013 INSTRUCTOR: Kurt Marfurt Professor at the University of Oklahoma and Director of the Center for Applied Geosciences and Energy

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Multi-attribute Analysis and Coloured Inversion of a 3D seismic dataset to increase resolution of structural and stratigraphic features in the subsurface: A case study from Taranaki Basin. Introduction Available Data The aim of this study is to use multiple seismic attributes to delineate subsurface geological features such as faults and ...

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seismic attribute analysis **ABSTRACT** In this paper the use of seismic attributes calculated from depth-migrated seismic data has been employed. The goal applying seismic attribute analysis is to enhance subtle amplitudes resulted from 3-D depth seismic migration and to obtain a clear mutual correlation with microseismic events.

Seismic Attributes Analysis The essence of running sweetness attributes on seismic volume is to identify and subsequently map sweet spots on the seismic section. Figure 5a shows high sweetness region within the seismic data indicating characteristically high amplitude and low frequency of hydrocarbon bearing sand units.

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4. Selection of Seismic Attribute and Their Processing for Analysis It is always a critical stage of research, because selection of seismic attributes is one of the main steps in recog-

nizing stratigraphic events and to overcome pitfalls in interpretation. We incorporated Seismic amplitude, -0.2 -0.1 0 0.1 0.2 Time (sec) -1 -0.5 0 0.5

Seismic Attributes-A Review. Dat Pham. P - 398 Seismic Attributes- A Review D.Subrahmanyam*, P.H.Rao Oil & Natural Gas Corporation Ltd., India., E-Mail: dsm1959@rediffmail.com Summary Seismic attributes are the components of the seismic data which are obtained by measurement, computation, and other methods from the seismic data.

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slices for seismic geomorphology analysis. Can also be used as input to facies mapping in particular for seismic geomorphology analysis. Selected frequencies, also combined with other attributes in an ANN, can detect possible fractures zones via attenuation analysis or, ...

- Fourier Attributes--frequency domain attributes obtained through Fourier analysis (e.g., amplitude variation with bandwidth in frequency (avbf), spectral decomposition)
- Time Attributes--related to the vertical position of the waveform in the seismic section (e.g., horizon time picks, isochrons)
- Window Attributes--attributes which summarize information from a vertical window of data.

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Churning seismic attributes with principal component analysis Singh (2007) discussed the application of principal component analysis on AVO-derived attributes for lithofacies discrimination and fluid detection. In particular this study found that PC2 was a robust discriminator of lithofacies in comparison with other

Preliminary analysis of selected seismic attributes allows for several possible geological interpretations. For example, analysis of seismically rendered p-wave amplitudes may show a correlation to differences in reservoir-quality rocks within the Marly zone; an interval of thinly interbedded limestone and dolostone at one well and a

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Summary Seismic attributes are an invaluable aid in the interpretation of seismic data. Different attributes are derived for different purposes. For example there are discontinuity attributes for fault interpretation, impedance and AVO-derived attributes for lithology interpretation, spectral decomposition frequency volumes to quantify tuning effects and help identify hydrocarbons, and many ...

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14/5/2016 · While seismic attributes are routinely applied to 3D data, they are less commonly applied to 2D data. Today's low commodity prices call for the utilization of all available data. To quantify the value of 2D attribute analysis I use attributes computed from a ...

Recommends and conducts advanced geophysical surveys, including **Seismic Attributes Analysis**, seismic modeling, ray footprint, inversion and AVO to map reservoir properties. The second theme is digital data analysis, including seismic data processing, multichannel time-series analysis ...

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