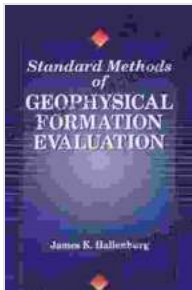


Standard Methods of Geophysical Formation Evaluation: Unlocking Subsurface Secrets for Reservoir Success

The exploration and development of subsurface reservoirs require a thorough understanding of the geological formations and their properties. Geophysical formation evaluation plays a crucial role in this process by providing valuable insights into the physical characteristics of the subsurface. The book "Standard Methods of Geophysical Formation Evaluation" presents a comprehensive guide to the established techniques and applications of geophysical methods in reservoir characterization.



Standard Methods of Geophysical Formation Evaluation

by James K. Hallenborg

★★★★☆ 4.6 out of 5

Language	: English
File size	: 15210 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 444 pages



Key Concepts and Techniques

The book covers a wide range of geophysical methods, including:

- Well logging: Measuring physical properties of formations along a wellbore

- Seismic data: Imaging subsurface structures and properties using sound waves
- Petrophysics: Establishing relationships between rock properties and geophysical measurements

These techniques provide valuable information on formation porosity, permeability, saturation, and other rock properties essential for reservoir evaluation.

Applications in Reservoir Characterization

The book demonstrates the practical applications of geophysical formation evaluation in various aspects of reservoir characterization:

- Reservoir delineation and mapping
- Identification of hydrocarbon-bearing zones
- Estimation of reservoir properties (porosity, permeability, saturation)
- Monitoring reservoir changes over time (e.g., production or injection)

Benefits of Using Standard Methods

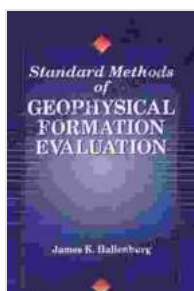
Adopting standard methods in geophysical formation evaluation offers several advantages:

- Consistency and comparability of results across different projects
- Established best practices and quality control procedures
- Improved accuracy and reliability of reservoir characterization
- Reduced uncertainties and risks in decision-making

Case Studies and Real-World Examples

The book presents numerous case studies and real-world examples to illustrate the practical implementation of geophysical formation evaluation methods. These examples cover a diverse range of geological settings and reservoir types, showcasing the applicability and effectiveness of these techniques.

"Standard Methods of Geophysical Formation Evaluation" is an indispensable resource for geoscientists, petroleum engineers, and professionals involved in reservoir characterization and management. It provides a comprehensive and practical guide to the established techniques and applications of geophysical methods, empowering readers to make informed decisions and optimize reservoir development.



Standard Methods of Geophysical Formation

Evaluation by James K. Hallenborg

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