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Dipmeter and Borehole Image Log Technology: Memoir 92 (Aapg Memoir)

By M. Poppelreiter, C. Garcia-Carballido, M.A. Kraaijveld



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Borehole imaging is among the fastest and most accurate methods for collecting high resolution subsurface data. Recent breakthroughs in acquisition, tool design, and modeling software provide real-time subsurface images of incredible detail, from the drill bit straight to a workstation. Associated interpretation workflows offer the high level of detail that is needed to make operational decision and to increase the predictability of subsurface models.

Many exploration and production companies have acquired a wealth of dipmeter and image log data. The data are readily available and provide, for example the orientation of fractures and fluvial channels in space. Further applications of borehole imaging technology include matrix and fracture characterization, pore-type partitioning, geosteering, and in-situ stress determination. Exciting new applications are found in enhanced oil recovery, carbon dioxide sequestration, and geothermal projects. In addition, borehole image data are paramount to unlocking unconventional plays such as shale gas and coal-bed methane.

AAPG Memoir 92 portrays key applications of dipmeter and image log data across the exploration and production life cycle. It illustrates the value of integrating high-resolution dipmeter and borehole image data with seismic, well-log, and geological knowledge in order to construct integrated subsurface modes. It provides the fundamentals of the technology for novice and specialist geoscientists and petroleum engineers alike, as well as introducing state-of-the-art applications.

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- Sales Rank: #2612580 in Books
- Published on: 2010-12-15
- Original language: English
- Binding: Hardcover
- 312 pages



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