

Petroleum Geoscience Gluyas Swarbrick

Density logging This is one of three well logging tools that are commonly used to calculate porosity, the other two being sonic logging and neutron porosity logging. e. Publ. (2004) Petroleum Geoscience. of abnormally high log porosities. Sonic logging Gluyas, J. Blackwell Publishing. p32 “Schlumberger Oilfield Density logging is a well logging tool that can provide a continuous record of a formation's bulk density along the length of a borehole. & Swarbrick, R. In geology, bulk density is a function of the density of the minerals forming a rock (i. matrix) and the fluid enclosed in the pore spaces 87ded51a4d

Flat spot (reflection seismology) Bright spot Seismic attribute Reflection seismology Gluyas, J. ISBN 978-0-632-03767-4 In reflection seismology, a flat spot is a seismic attribute anomaly that appears as a horizontal reflector cutting across the stratigraphy elsewhere present on the seismic image. (2011).). 242. Blackwell Publishing. Its appearance can indicate the presence of hydrocarbons. ; Swarbrick, R. Petroleum Geoscience (2nd ed. Therefore, it is known as a direct hydrocarbon indicator and is used by geophysicists in hydrocarbon exploration. p 87ded51a4d

Petroleum reservoir ISBN 978-0-632-03767-4 A petroleum reservoir or oil and gas reservoir is a subsurface accumulation of hydrocarbons contained in porous or fractured rock formations. p. Such reservoirs form when kerogen (ancient plant matter) is created in surrounding rock by the presence of high heat and pressure in the Earth's crust. Gluyas, J; Swarbrick, R (2004). 148. Blackwell Publishing. Retrieved 2012-02-02. Petroleum Geoscience. the original on 2013-01-23 87ded51a4d

Abyssal fan List of oceanic landforms Gluyas, J. Blackwell Publishing Clift; Gaedicke; Edwards; Abyssal fans, also known as deep-sea fans, underwater deltas, and submarine fans, are underwater geological structures associated with large-scale sediment deposition and formed by turbidity currents. They can be thought of as an underwater version of alluvial fans and can vary dramatically in size, with widths from several kilometres to several thousands of kilometres. (2004) Petroleum Geoscience. & Swarbrick, R. by the Bouma sequence. Publ. The largest is the Bengal Fan, followed by the Indus Fan, but major fans are also found at the outlet of the Amazon, Congo, Mississippi and elsewhere 87ded51a4d

Oil and gas reserves and resource quantification Natural gas is frequently associated with oil directly and gas reserves are commonly quoted in barrels of oil equivalent (BOE). The remaining resource estimates (after the reserves have been accounted) are likely sub-commercial and may still be under appraisal with the potential to be technically recoverable once commercially established. Consequently, both oil and gas reserves, as well as resource estimates, follow the same reporting guidelines, and are referred to collectively. Petroleum Geoscience, 2nd edition (paperback) (2 ed. Oil and gas reserves tied to approved operational plans filed on the day of reserves reporting are also sensitive to fluctuating global market pricing. Retrieved 5 July 2022.). 2118/170669-PA. (2021). Gluyas, Jon G. ; Swarbrick, Richard E. doi:10. UK, USA Oil and gas reserves denote discovered quantities of crude oil and natural gas from known fields that can be profitably produced/recovered from an approved development 87ded51a4d

Nuclear magnetic resonance logging (2004) Petroleum Geoscience. Publ. resonance in porous media Logging while drilling SNMR Gluyas, J. & Swarbrick, R. Blackwell Publishing Nuclear Magnetic Resonance Nuclear magnetic resonance (NMR) logging is a type of well logging that uses the NMR response of a formation to directly determine its porosity and permeability, providing a continuous record along the length of the borehole 87ded51a4d

Biostratigraphy info/biostratigraphy. Ideally these fossils are used. (2004) Petroleum Geoscience. Publ. Fossils within these strata are useful because sediments of the same age can look completely different, due to local variations in the sedimentary environment. 80–82 Young, Keith Biostratigraphy is the branch of stratigraphy which focuses on correlating and assigning relative ages of rock strata by using the fossil assemblages contained within them. 2018, www. trilobites. However, if the fossil species recorded are similar, the two sediments are likely to have been laid down around the same time. & Swarbrick, R. For example, one section might have been made up of clays and marls, while another has more chalky limestones. pp. The primary objective of biostratigraphy is correlation, demonstrating that a particular horizon in one geological section represents the same period of time as another horizon at a different section. Blackwell Publishing. htm Gluyas, J 87ded51a4d

Petroleum seep ISBN 978-0-632-03767-4. Gluyas, J; Swarbrick, R (2004). 77. g. Petroleum Geoscience. Gluyas, J; Swarbrick, R (2004). Petroleum Geoscience A petroleum seep is a place where natural liquid or gaseous hydrocarbons escape to the Earth's atmosphere and surface, normally under low pressure or flow. Blackwell Publishing. The hydrocarbons may escape along geological layers, or across them through fractures and fissures in the rock, or directly from an outcrop of oil-bearing rock. , sandstones, siltstones, limestones, dolomites). p. Seeps generally occur above either natural terrestrial or underwater petroleum accumulation structures (e 87ded51a4d

Reservoirs are broadly classified as conventional and unconventional reservoirs. In conventional reservoirs, the naturally occurring hydrocarbons, such as crude oil (petroleum) or natural gas, are trapped by overlying rock formations with lower permeability, while in unconventional reservoirs the rocks have high porosity and low permeability, which keeps the hydrocarbons trapped in place, therefore not requiring a cap rock. Reservoirs are found using hydrocarbon exploration methods. 87ded51a4d Petroleum seeps are quite common in many areas of the world, and have been exploited by mankind since Paleolithic times. A comprehensive compendium of seeps around the world was published in 2022. Natural products associated with seeps include bitumen, pitch, asphalt and tar. In locations where seeps of natural gas are sufficiently... 87ded51a4d

Petroleum trap Publ. & Swarbrick, R. , Geldart In petroleum geology, a trap is a geological structure affecting the reservoir rock and caprock of a petroleum system allowing the accumulation of hydrocarbons in a reservoir. E. Traps can be of two types: stratigraphic or structural. Gluyas, J. Retrieved 2023-01-27. Blackwell Publishing Sheriff, R. Structural traps are the most important type of trap as they represent the majority of the world's discovered petroleum resources. (2004) Petroleum Geoscience. Energy Glossary. "structural trap" 87ded51a4d

Unconventional (oil and gas) reservoir Petroleum Geoscience. 52. pp. Gluyas, Jon; Swarbrick, Richard (2004). ISBN 978-1-61399-660-7. UK, USA & Australia: Blackwell Publishing. p. Engineers. i-350 Unconventional (oil and gas) reservoirs, or unconventional resources (resource plays) are accumulations where oil and gas phases are tightly bound to the rock fabric by strong capillary forces, requiring specialized measures for evaluation and extraction 87ded51a4d

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