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Basement Tectonics Of Saudi Arabia

Basement tectonics of Saudi Arabia as related to oil field structures: by H. Stewart Edgell . Abstract. All the oil fields of Saudi Arabia are of the structural type and they all lie in the northeastern part of the country, including the Saudi offshore portion of the Persian Gulf.

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All the oil fields of Saudi Arabia are of the structural type and they all lie in the northeastern part of

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the country, including the Saudi offshore portion of the Persian Gulf. These oil field... Basement Tectonics of Saudi Arabia as Related to Oil Field Structures | SpringerLink

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Underlying these sediments in most of onshore northeastern Saudi Arabia, there is a faulted Precambrian basement, with alternating horsts and grabens directed along the N-S Arabian Trend. This is the 'old grain' of the Arabian Peninsula formed by repeated, E-W, extensional tectonism (Henson 1951).

Basement tectonics of Saudi Arabia as related to oil field ...

The geology of Saudi Arabia includes Precambrian igneous and metamorphic basement rocks, exposed across much of the country. Thick sedimentary sequences from the Phanerozoic (including sandstone , anhydrite , dolomite , limestone , chert and marl) dominate much of the country's surface and host oil .

Geology of Saudi Arabia - Wikipedia

Geophysical Evidence of Basement Tectonics Most of the data on geophysics of the basement underlying the Arabian Platform in the Saudi oil-field areas is confidential and restricted by major oil companies, such as Saudi Aramco and the Arabian Oil Company.

Basement Tectonics of Saudi Arabia | Arabian Peninsula ...

Older basement of the type recognized in western Saudi Arabia (Afif Terrane, 1770 Ma, Stacey and Agar, 1985) has not been recorded in Oman. The calc-alkaline signature of many of the igneous basement rocks onshore eastern Oman and the apparently ophiolitic ultramafic rocks in the Al Halaaniyaat islands imply the presence of another continental ...

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The Tectonic Evolution of Interior Oman | GeoArabia ...

We use catalogue events recorded by Oman, UAE, Saudi Arabia and Iran networks, the International Seismological Centre and the National Earthquake Information Center. Events of 1.8–16 degree distances were used for this Pn-tomography. In this study we show that the northeastern Arabia plate is characterized by cold and stable lithospheric mantle.

Tectonics of the Arabian Plate | Tectonic Evolution of the ...

Tectonic History. The Arabian plate is located in the Middle East of Asia and is home to the countries of Kuwait, Bahrain, Qatar, the United Arab Emirates, Oman, Yemen, Saudi Arabia, Syria, Jordan and Iraq (Konert et al., 2001).

Arabian Plate - African/Arabian Tectonic Plates

In general, both the African continent and Arabia are composed of a Precambrian basement of crystalline meta-sedimentary, meta-igneous, and igneous rocks (Figure 2) (Schlüter and Trauth, 2008). This basement is overlain by a range of cover rock – from sedimentary and volcanic sequences to unconsolidated Cenozoic sediments (Schlüter and ...

African/Arabian Tectonic Plates - Home

Saudi Arabia, and, with the approval of the governments of neighboring countries, a number of other oil companies contributed additional mapping to complete the coverage of the whole of the Arabian Peninsula. So far as we are aware, this is a unique experiment in geological

GEOLOGY OF THE ARABIAN PENINSULA

Infracambrian salt basin in Rubâ al Khali basin, southern Saudi Arabia, on regional seismic line. Figure 9. Subcrop map of units, according to age, below Hercynian unconformity. Figure 10. Middle Cambrian environments of deposition on the Arabian plate, with continental clastics as an east-west

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band south of widespread carbonates.

Paleozoic Hydrocarbon Habitat in the Arabian Plate, by ...

The basement rocks of southern Saudi Arabia and northern parts of Yemen are almost continuous and similar in the lithostratigraphic succession. In spite of the presence of such common basic characteristics for each, there are slight differences of local structural framework and major tectonic events.

Lithostratigraphy, deformation history, and tectonic ...

ble basement structures they represent; and to discuss briefly some of the structural and tectonic implications of the data. 2. Character of exposed basement Exposed Precambrian units in Saudi Arabia consist of low- to medium-grade volcanic, volcani- clastic and epiclastic rocks, and large amounts of

Magnetically inferred basement structure in central Saudi ...

The Ninth International Conference on Basement Tectonics was held at the Australian National University in Canberra 2-6 July 1990. The opening keynote address was given by Prof. R.W.R. Rutland, Director of the Bureau of Mineral Resources. ... Basement Tectonics of Saudi Arabia as Related to Oil Field Structures.

Basement Tectonics 9 - Australia and Other Regions ...

Thick-skinned tectonics and basement-involved fold-thrust belts: insights from selected Cenozoic orogens - Volume 153 Issue 5-6 - OLIVIER LACOMBE, NICOLAS BELLAHSEN Skip to main content We use cookies to distinguish you from other users and to provide you with a better experience on our websites.

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Thick-skinned tectonics and basement-involved fold-thrust ...

Salt distribution outside Saudi Arabia was not reviewed in this study. Structural contours are from basement map in Figure 3c. (b) Three-dimensional reflection seismic line over the East Rub' Al-Khali salt basin, location is in Figure 6a. Vertical axis is in two-way time ranging from 0 to 5.75 s.

Structural geology of the Rub' Al-Khali Basin, Saudi Arabia

The Persian Gulf Basin is the richest region of the World in terms of hydrocarbon resources. According to different estimates, the basin contains 55–68% of recoverable oil reserves and more than 40% of gas reserves. The basin is located at the junction of the Arabian Shield and Iranian continental block that belong to two different (Arabian and Eurasian) lithospheric plates. Collision of ...

The Persian Gulf Basin: Geological history, sedimentary ...

The Persian Gulf Basin, is found between the Eurasian and the Arabian Plates. The Persian Gulf is described as a shallow marginal sea of the Indian Ocean that is located between the south western side of Iran and the Arabian Peninsula and south and southeastern side of Oman and the United Arab Emirates. Other countries that border the Persian Gulf basin include; Saudi Arabia, Qatar, Kuwait ...

Persian Gulf Basin - Wikipedia

The core of complex basement rocks accounts for about 670,000 km², or one-third of the Arabian Peninsula. Reconnaissance mapping of these crystalline rocks, together with bordering sedimentary rocks and volcanic flows, begun in 1950, resulted during the next 13 years in a series of geologic and geographic maps without extensive texts.

Geology of the Arabian Peninsula; shield area of western ...

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