

Abnormal High Formation Pressure Prediction

Abnormal High Formation Pressure Prediction and Causes Analysis . Yuan Cao , Jingen Deng, Baohua Yu . State Key Laboratory of Petroleum Resources and Prospecting, China University of Petroleum-Beijing . Abstract. Formation sedimentary environment change will cause high pressure, and the properties of formation will change accordingly. Different causes of high pressure induce different properties. Acoustic

Abnormal High Formation Pressure Prediction and Causes ...

Pore, abnormal formation and fracture pressure prediction F. Khoshnaw, P. Jaf & S. Farkha Petroleum Engineering Department, Koya University, Iraq Abstract Oil and gas well drilling planning is the main task of any drilling engineer. In order to overcome this task, it is required to maintain the wellbore pressure between the

Pore, abnormal formation and fracture pressure prediction

Abnormal high pressure exists in Lower Fars formation of Fauqi oil field in Iraq and lead to many complicated problems during drilling. There are salt, anhydrite and shale in Lower Fars formation through lithology analysis.

Abnormal High Pore Pressure Prediction and Cause Analysis ...

Knowledge of the presence of abnormally-high pressure zones (AHFP) prior to drilling into them can p

Origin and Prediction of Abnormal Formation Pressures - Knovel

The maximum well pressure that does not fracture the formations is called the fracture pressure and the formation fluids pressure is called the pore pressure. Therefore, pore pressure and fracture pressure are considered as the most crucial parameters for drilling engineering planning and for launching new wells. Another significant parameter for well planning is the detection and estimation ...

Pore, Abnormal Formation And Fracture Pressure Prediction

Prediction of abnormally high pressure in regions with nonequilibrium compaction. Abnormal pressure due to temperature variations. Estimation and prediction of abnormally low pressures in basins in permafrost regions. Formation pressure in regions with upthrown and downthrown blocks (uplift and subsidence of sedimentary rocks). Calculation of abnormal pore pressure during drilling. Method of equivalent depth. Method of normal compaction trend. Method of compressional curves. Radioactivity ...

Origin and Prediction of Abnormal Formation Pressures ...

At present the formation velocity is used as the main parameters of predrilling formation pressure prediction - and post-drilled pressure calculation, Interval velocity increases with depth in normal compaction stratum, which is smaller than normal value in abnormal high-pressure stratum (usually referring to the undercompaction

High-Temperature Overpressure Basin Reservoir and Pressure ...

The difference in acoustic slowness between the normal and abnormal trends can be converted to an equivalent fluid-pressure gradient and formation pressure for a given depth (Fig. 2). This method may not be applicable or effective in all areas or where undercompaction is not the mechanism for overpressuring.

Overpressure prediction using acoustic logging - petrowiki.org

Log of drilling rate. Drilling time is useful for detecting abnormal pressure. If the variables are limited (weight on bit, rotary speed, mud properties, pump pressure, and bit type), the major remaining variable that affects rate of penetration in shale is porosity.

Pressure prediction: analysis of well-log and seismic data ...

In the ratio method, pore pressure is calculated using the assumption that, for sonic delta-t, density, and resistivity, respectively, the pore pressure is the product of the normal pressure multiplied (or divided by) the ratio of the measured value to the normal value for the same depth.

Methods to determine pore pressure - petrowiki.org

Prediction of Abnormally-High Formation Pressure. The software for prediction of Abnormally-High Formation Pressure allows to estimate formation pressure and identify the required specific gravity of the drilling fluid when entering AHFP zones and determine the depth for running casing columns.

Prediction of Abnormally-High Formation Pressure

Abnormal pressure, or pressures above or below hydrostatic pressure, occurs on all continents in a wide range of geological conditions. In young (Tertiary) sequences, compaction disequilibrium is the dominant cause of abnormal pressure. In older (pre-Tertiary) rocks, hydrocarbon generation and tectonics are most often cited as the causes of overpressure. Hydrocarbon accumulations are ...

Rock Physics of Geopressure and Prediction of Abnormal ...

Normal reservoir pressure is the pressure in the reservoir fluids necessary to sustain a column of water to the surface. Normal pressures range between 0.43 and 0.50 psi/ft. Normal drilling muds weigh about 9 ppg (pounds per gallon) and exert a bottom hole pressure of approximately 0.47 psi/ft of depth.

Pressure detection - AAPG Wiki

The accurate prediction of overpressure is one of the key issues that restrict the effective development of oil and gas resources in the Yinggehai Basin. In this paper, the formation mechanism of overpressure in Yinggehai Basin is studied. Based on this mechanism, the quantitative prediction model

Overpressure Identification and Pressure Prediction in ...

These have concentrated on overpressure generating mechanisms and the ability of abnormal pressure prediction. This article will examine the information that can be deduced by the knowledge that a ...

How abnormal pressures affect hydrocarbon exploration ...

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