

Duong Spe Decline Analysis

Duong Spe Decline Analysis Creating a Duong Decline Analysis. 1. Launch an entity for analysis. 2. Click the Decline thumbnail; then select the type of worksheet you want to create. The worksheet opens in the main pane, displaying a plot of the selected well's production data: 3. Add the Duong analysis to the worksheet. Duong Decline - feketec.com Creating a Duong Decline Analysis. 1. Launch an entity for analysis. 2. Click the Decline thumbnail; then select the type of worksheet you want to create. The worksheet opens in the main pane, displaying a plot of the selected well's production data: 3. Add the Duong analysis to the worksheet. See Adding an Analysis for additional information. 4. Duong Decline Duong decline analysis theory. The Duong analysis was developed specifically for unconventional reservoirs with very low permeability. The shape of the curve is suited for wells that exhibit long periods of transient flow. The Duong method will reach a finite EUR, and tends to be more conservative than traditional Arps declines with $b > 1$. Duong decline analysis theory - ihsenergy.ca This is outlined under decline curve analysis. The traditional decline analysis can also be modified to a terminal / limiting decline rate. Duong decline — an empirical method developed specifically for low permeability systems exhibiting long periods of transient flow. Types of decline analysis in production forecasting ... Decline-Curve Analysis. Duong (2011) proposed a decline-curve model that is serviceable for unconventional reservoirs that exhibit long periods of linear flow caused by the pressure depletion within fracture networks. It models gas rate (q) as a function of time (t) and four parameters (a, m, q Combining Decline-Curve Analysis and Geostatistics To ... June 2011 SPE Reservoir Evaluation & Engineering 377 Rate-Decline Analysis for Fracture-Dominated Shale Reservoirs Anh N. Duong, SPE, ConocoPhillips Summary Traditional decline methods such as Arps' rate/time relations and their variations do not work for wells

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producing from supertight or shale reservoirs in which fracture flow is dominant. Rate-Decline Analysis for Fracture-Dominated Shale Reservoirs Summary. Traditional decline methods such as Arps' rate/time relations and their variations do not work for wells producing from supertight or shale reservoirs in which fracture flow is dominant. Most of the production data from these wells exhibit fracture-dominated flow regimes and rarely reach late-time flow regimes,... Rate-Decline Analysis for Fracture-Dominated Shale Reservoirs The production decline curves have two main functions, including (a) to determine the reservoir permeability parameter by matching the production decline curve with it, which belongs to quantitative analysis, and (b) to diagnose the production performance characteristics, that is, to qualitatively judge the flow state, the change of production index, the offset interference, and the extraneous energy supplement and so on. Methodology and Cases for Decline Curve Analysis ... They are: a) the Power Law Exponential Decline, b) the Stretched Exponential Decline, c) Duong's Method, and d) the Logistic Growth Model. Each method has different tuning parameters and equation ... (PDF) Production Decline Models: A Comparison Study Decline curve analysis (DCA) is a graphical procedure used for analyzing declining production rates and forecasting future performance of oil and gas wells. Oil and gas production rates decline as a function of time; loss of reservoir pressure, or changing relative volumes of the produced fluids, are usually the cause. Production forecasting decline curve analysis - PetroWiki COMPARISON OF EMPIRICAL DECLINE CURVE ANALYSIS FOR SHALE WELLS A Thesis . by This study compares four recently developed decline curve methods and the ... Power Law Exponential Decline (PLE). 2. Stretched Exponential Decline (SEPD). 3. Duong Method. 4. Logistic Growth Model (LGM). Each method has different tuning parameters and equation ... COMPARISON OF EMPIRICAL DECLINE CURVE ANALYSIS FOR SHALE ... 1970s, decline curve analysis was considered to be a convenient empirical procedure for analyzing performance; no particular significance was to be attributed to the values of D_i SPE 83470 A Decline Curve Analysis Model Based on Fluid Flow Mechanisms Kewen Li, SPE, and Roland N. Horne, SPE, Stanford University A Decline Curve Analysis Model Based on Fluid Flow Mechanisms For traditional reservoirs, the most

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common practice of reserve evaluation is Decline Curve Analysis (DCA), a method with decided advantages; it is not only the simplest and least time-consuming method, but it also accommodates the historical field uncertainties by honoring observed performance trends. Extended exponential decline curve analysis - ScienceDirect Probabilistic Decline Curve Model. Despite the simplicity and easy application of DCA methods as compared to other production forecast tools such as analytical methods, semi-analytical methods, and numerical methods, DCA methods have some shortcomings due to their nature of the deterministic inversion procedures. Methods of Decline Curve Analysis for Shale Gas Reservoirs Optimal Decline Curve Analysis (DCA) Models for Liquid Rich Shale (LRS) Gas Condensate Reservoirs A. Khanal, M. Khoshghadam, and W. J. Lee, University of Houston (PDF) Optimal Decline Curve Analysis (DCA) Models for ... Empirical and semi-theoretical decline models including Arps, Fetkovich, Stretched Exponential, Power-Law, Transient Linear Flow, and Duong; Diagnostic plots for flow regime identification, pressure normalization of rate data, recommended workflow for pressure-rate-time production data analysis Production Forecasts and Reserves Estimates in ... Why Simple Decline Models? Need: 100's or 1000's of wells to forecast in short time Periodic reserves estimates Economic analysis of operations Full physics models may take days for initial reservoir description, history matching, forecasting Analytical model studies usually take less time, but far more time than available for routine forecasting Workflow for Applying Simple Decline Models to ... - SPE-GCS Production decline analysis of tight gas and shale-gas wells with this method typically results in a best-fit value of greater than unity for the decline exponent parameter. The result often is physically unrealistic in that cumulative production becomes unbounded as time increases. Unconventional Data-Driven Methodologies Forecast ... SPE Eastern Regional Meeting, vol. 2018-October, Society of Petroleum Engineers (SPE), SPE/AAPG Eastern Regional Meeting 2018, ERM 2018, Pittsburgh, United States, 10/7/18. Combining decline curve analysis and geostatistics to forecast gas production in the Marcellus shale. Combining decline curve analysis and geostatistics to ... Challenges of Reserves Estimate (tight and unconventional reservoirs) By: Saad Ibrahim, P.Eng. ... (SPE 116731) <New decline curve analysis techniques to allow the analysis of transient

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data ... yields good results using "segmented decline tool" • Duong's Method yields reasonable results for short production history < 1 year.

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