

A01 State-of-the-Art in Well Test Analysis

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The presentation reviews the evolution of well test analysis techniques during the past half century and shows how improvements have come in a series of step changes 20 years apart. Each one has increased the ability to discriminate among potential interpretation models and to verify the consistency of the analysis. This has increased drastically the amount of information that one can extract from well test data and, more importantly, the confidence in that information. In particular, the latest development, deconvolution, makes it possible to see boundaries in deconvolved data, a considerable advantage compared with conventional analysis, in which boundaries often are not seen and must be inferred. This has a significant impact on the ability to certify reserves.