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Experimental and

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numerical models of sand production problem are the key approaches in finding a solution for the sand production problem, at the same time with increasing computing power the...

**(PDF) Review of Sand Production Prediction Models**

Prediction of sand has been historically challenging due to the periodic nature of sand

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production, insufficient laboratory tests and lack of field tests validation.

**(PDF) Prediction of sand production in gas and gas ...**

Predicting sand production involves developing empirical and analytical techniques. Empirical techniques relate sand production to some single parameter or group of parameters

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such as porosity, flow or drawdown analytical techniques relates to rock stresses.

Numerical analytical techniques are also sometimes used.

**Practical Approach  
To Effective Sand  
Prediction, Control**

...

Practical Guidelines for Predicting sand Production. Paper SPE 136980 presented at the 34th Annual SPE

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International  
Conference and  
Exhibition, Tinapa-  
Calabar, Nigeria. 31  
July-7 August. Nouri, A.,  
Vaziri, H., Belhaj H.,  
and Islam, R. 2004.

“Sand Production  
Prediction: A New Set  
of Criteria for Modeling  
Based on Large-Scale  
Transient

**Numerical Sand  
Prediction Model  
Analysis for Sand  
Onset ...**



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the production condition at which sand production occurs.

Sanding onset prediction involves simulating the stress state on the surface of an oil/gas producing cavity (e.g. borehole, perforation tunnel) and applying appropriate sand production criterion to predict the fluid pressure or pressure gradient at which sand production occurs. In this

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**NUMERICAL AND  
ANALYTICAL  
MODELING OF  
SANDING ONSET  
PREDICTION**

Sand production is a universally encountered issue during the exploration of unconsolidated sandstone reservoirs particularly during production. The production of sand particles with the reservoir fluids

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depends on the stress around a wellbore and the properties of the reservoir rocks and fluids.

**Geomechanical Sanding Prediction in Oil Fields by Wellbore ...**

Sand production is initiated when the formation stress exceeds the strength of the formation. The formation strength is derived mainly from

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the natural materials that cement the sand grains but the sand grains are also held together by cohesive forces resulting from immovable formation water (residual water).

**COMPARATIVE  
STUDY OF THE SAND  
CONTROL METHODS  
USED IN THE ...**

Conventional sand prediction techniques used in the industry today are based on

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field observation and experience, laboratory sand production experiments and theoretical or numerical modelling (Veeken et al., 1991). Only recently, neural network based technique evolved through the work of Kanj and Abousleima (1999).

**Analytical critical drawdown (CDD) failure model for**

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The results of these two methods are close to each other (Fig. 9). For the proposed fast prediction method in this paper simplifies each layer in each block to a single reservoir type, its results have about 5% deviation from those of Fig. 8. Production profile prediction of layer U4/2 in Block 5\_3. Fig. 9.

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**A method of  
production profile  
quick prediction  
based on ...**

Theory and test results show that the influence of the sand layer thickness beneath the footing depends mainly on the bearing capacity ratio of the clay to the sand, the friction angle of the sand, the shape and depth of the foundation.

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**PREDICTION OF  
BEARING CAPACITY  
OF GRANULAR ...**

Sand production prediction can help identify the most economical way of sand control methods with the desired production rate. This chapter examines some methods to model perforation failures for sanding prediction.



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overview |

**ScienceDirect Topics**

This paper introduces a predictive tool that forecasts the drawdown associated with the onset of sanding as well as it predicts the sanding rate in real time. Experimental data on hollow cylinder...

**(PDF) Sand  
Production  
Prediction: A New  
Set of Criteria ...**

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## Research Paper

### Sand Production

In this context, a prediction model was proposed where the volume of the produced sand was estimated as the volume of the plastic zone of the failed materials surrounding the perforation tunnels. The model assumes an evolving truncated conical shape for the damage zone and takes into account stress distributions and shear failure in this

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zone.

**A sand production  
prediction model for  
weak sandstone ...**

CLIMATE CHANGE AND  
AGRICULTURE

RESEARCH PAPER

Prediction of maize  
yield under future  
water availability

scenarios using the  
AquaCrop model M.

ABEDINPOUR1\*, A. SAR  
ANGI2, T.B.S.RAJPUT2  
ANDMAN SINGH2 ...

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AND AGRICULTURE  
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CRIME ANALYSIS  
AND PREDICTION  
USING DATA ...**

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Sand production is a serious problem in many petroleum basins worldwide. It costs the oil and gas industry tens of billions of dollars annually. CSIRO has developed capability and unique models to predict sand production and its severity - a key step in tackling sand production problems.

**Sand production  
prediction - CSIRO**

*Page 21/27*

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**Research**

There are several methods for predicting sand production. The methods include use of production data, well logs, laboratory testing, acoustic, intrusive sand monitoring devices, and analogy. The methodologies are reviewed and the data needed for predicting sand production are enumerated.

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Well

**Sand production prediction using ratio of shear modulus to ...**

Prediction of maximum sand-free production rate provides information for sand-control decisions and allows maximization of rate in those wells that are completed without sand control. In some fields, data, including both logs and core tests, are plentiful; but, in most, only minimal

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data are available for making this decision.

**Prediction of Sand Production in Gas Wells: Methods and**

...

Modeling the occurrence and severity of sand production should help identify the most economical pairing of sand control remediation methods with the desired production rate. This



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Well

paper examines an advanced technique for modeling such failures, leading to improved drilling and completion practices.

**Event - Completions  
& Production - Sand  
Production  
Prediction**

title = "REALISTIC  
SAND PRODUCTION  
PREDICTION:  
NUMERICAL  
APPROACH.", abstract  
= "This paper provides

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an analysis of  
perforation tunnel  
stability using a set of  
3-D transient fluid flow  
and geomechanical  
finite element codes.  
The results are  
quantitatively accurate  
and can be applied to  
field design completion  
problems.

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