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for basin evolution

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Technology

73(6-7):18

Building a 3D

model of a gas field

for geomechanical

modelling

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Djordje, Peric. Oil &
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Energies nouvelles,
Volume: 73, Start
page: 18 . Swansea

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University Author:

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Towards an
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We developed a
workflow for
integrated 3D
geomechanical
modelling to
accurately predict
deformation. The

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workflows integrates

the tools for

geological

modelling, fluid

flow modelling and

stress analysis,

allowing efficient

transfer of data

between the

shared earth

models. We used

GOCAD (GOCAD,

2001) to model the

3D geometry, while

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relying on DIANA
(DIANA, 2000) for
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the finite element
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geomechanical approach has been developed to more accurately predict the FG of wellbores subject to various trajectories. The approach deploys the Kirsch equations and takes into account the effects of formation pressure variations on

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stresses.

Use of Coupled Reservoir and Geomechanical Modelling for ...

The integrated workflow has been used to assess the controls on reservoir stress path, use of microseismicity and 4D seismic for

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detecting reservoir compartmentalization as well as top seal integrity, and the need for coupled fluid-flow and geomechanical production simulation modelling.

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HYDROCARBON

EXTRACTION B.

Orlic, J.D. Van

Wees, R. Van Eijs

Netherlands

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b.orlic@nitg.tno.nl

SUMMARY

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Structural Analysis

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Abstract Reservoir engineering (and simulation) have historically paid little attention to the geomechanical behaviour of porous media. However, a number of important (primarily

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Geomechanical

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unconventional)
recovery processes
can be properly
engineered only by
including this effect
(e.g., thermal
recovery in oil
sands, compaction
drive in soft and
unconsolidated
reservoirs, chalk
reservoirs, stress ...

Integrating fully

Acces PDF Integrated Geomechanical coupled Modelling For Production Of modeling with ...

This case study demonstrates the significance of integrated pre-drill geomechanical modelling and real-time monitoring for drilling wildcat exploratory wells in the deepwater settings of an

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offshore field in
South-East Asia.

The key challenges
in the area include
deeper water
depths (1.6 km),
lack of relevant
offset well
information and a
complex geological
setting. In this
project, the ...

Integrated fluid-

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flow, geomechanic

- ResearchGate

Integrating fully

coupled

geomechanical

modeling with

microseismicity for

the analysis of ...

Fully coupled

geomechanical

modeling and

microseismic

analysis was

integrated to study

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the ... B.T. Lee, M.

Mack Calibrated

microseismic

geomechanical

modeling of a Horn

River basin

hydraulic fracture.

Paper Presented at

the 50th U.S ...

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Model - an

overview |

ScienceDirect

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Topics

Geomechanical

modelling is a

process of

development of a

numerical strain-

stress state model

for geological

media, on the basis

of which it is

possible to

calculate the limits

of permissible

loads. The well

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production rate
and wellbore
stability are key
tasks during oil and
gas field
development.

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geomechanical

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modelling to

accurately predict

deformation. The

workflow integrates

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modelling, fluid

flow modelling and

stress analysis,

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models. We used

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modelling for

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prediction of
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subsidence and

induced seismicity

due to hydrocarbon

extraction Author

Orlic, B., Wees, J.D.

van, Eijs, R. van

Predicting Stress

and Fracture

Orientations with ...

In this study, an

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geomechanical

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analysis was carried out for the Sarvak carbonate reservoir in three wells of one of the oil fields in Abadan Plain, SW Iran. The static Young's modulus (ES), unconfined compressive strength (UCS), cohesion (C), and angle of internal

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friction (Φ) were determined directly, using rock mechanics tests.

Wellbore stability analysis using integrated geomechanical ... Geomechanical models have been introduced to qualify the impact of key parameters

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that control the extent and complexity of productive stimulated rock volume (Huang et al., 2014). Microseismic data is used to calibrate the geomechanical model. Figure 9.21 shows the complex fracture network

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geometry coupling
with microseismic
data and synthetic
microseismic
events.

Geogrid:

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Modelling

Prediction of

Reservoir

Properties for

Geomechanical

Analysis Using 3-D

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Seismic Data and
Rock Physics

Modeling in the

Vaca Muerta

Formation,

Neuquen Basin,

Argentina Convers-

Gomez, Carlos E.

Abstract

3D Geomechanical

Modeling Mitigates

NPT Caused by

Wellbore ...

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Integrated fluid-flow, geomechanic
... processing,
geomechanical
solver and post-
processing facili- ...
and seismic
modeling. We
present the
integrated
workflow

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In particular, it illustrates that geomechanical modelling for stress and fracture prediction can be fully integrated into a corresponding Petrel ® project of the reservoir. The case study indicates that a robust prediction of the stress field,

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including its local

perturbations near

faults, can be

based primarily on

the reservoir

geometry with only

sparse well control.

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modelling for prediction of subsidence and induced seismicity due to hydrocarbon extraction.

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flow, geomechanic
and seismic
modelling ...

3D Geomechanical
Modeling Mitigates
NPT Caused by
Wellbore Instability
While Drilling in
Oman Author:
Schlumberger
Subject: Cause of
borehole breakouts

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in multiple zones
determined, proper
mud weights to
maintain wellbore
stability

recommended

Keywords:

geomechanical

modeling,

determine mud

weight window,

mitigate drilling

risk, Oman Created

Date

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Numerical
geomechanical
modeling can
bridge the gap by
coupling physically
realistic and
mechanically
rigorous analyses
that yield testable

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predictions.

Stratigraphic and
structural data sets
based on seismic
and well data yield
3D geologic
framework models
(GFM).

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