Reservoir enhancement

Does reservoir stimulation enhance production of Natural Gas Hydrate (NGH)?
Simulations on enhancement of production by reservoir stimulation are presented. Low production rate, limited recovery range, and short period of stabilized production of natural gas hydrate (NGH) field trials indicate a large gap to commercial production.

Does reservoir stimulation enhance production of non-diagenetic hydrate reservoir?
Besides, the production enhancement by reservoir stimulation of non-diagenetic hydrate reservoir should be further evaluated considering the evolution of artificial seepage channels during hydrate decomposition.

How can reservoir stimulation improve production?
To solve the problems,reservoir stimulation was innovatively proposed by researchers,which is an effective technique to enhance production by improving the connectivity between the wellbore and the reservoir.

How can unconventional reservoirs be stimulated & stabilized?
To further increase and stabilize the production of unconventional reservoirs,researchers continue to develop new technologiesand apply them to this field. This Special Issue combines unconventional reservoir stimulation and enhanced oil recovery technologies and the latest research on geology,reservoir,drilling,and completion.

How can gas stimulation improve the production performance of hydrate reservoirs?
Gas stimulation is also an important method to improve the production performance of hydrate reservoirs. CO 2 /N 2 mixed gas injection is currently the most studied injection system.

How can unconventional reservoirs increase production?
In the past decade, significant advances in reservoir stimulation and enhanced oil recovery technologies have resulted in rapid production growth in unconventional reservoirs. To further increase and stabilize the production of unconventional reservoirs, researchers continue to develop new technologies and apply them to this field.

The main methods for reservoir stimulation are summarized into four aspects: hydraulic fracturing, jet breaking, overlying layer modification, and split grouting, of which working principle, advantages, and limitations are highlighted. Besides, the simulations on the enhancement of NGH production by reservoir stimulation are presented.

Reservoir Assessment and Production Enhancement Minimise Risk, Leverage Opportunity . Our fully integrated sub-surface workflow from geophysical interpretation and reservoir characterisation through to reservoir modelling, ...

This Special Issue combines unconventional reservoir stimulation and enhanced oil recovery technologies and

the latest research on geology, reservoir, drilling, and ...

To improve the depressurization effect, a new method of volume-fracturing and cyclic N 2 stimulation combination (VFCS) was proposed. The production performance of this method was investigated by using numerical ...

The training course is designed to identify the sources of the reservoir engineering data and the benefits of integrating this data in the reservoir management. New Training Courses; Course Finder; Training Formats . ... Oil Recovery Enhancement Techniques. Introduction to Enhanced Oil Recovery (EOR) techniques; Conventional and non ...

A sizeable chunk of spending in an exploration and production activity is expended to characterize a potential hydrocarbon reservoir. Despite the spectacular advances in reservoir characterization techniques and in 3D and 4D modelling, the risks involved in the exploration of new, deeper or diagenetically complex prospects remain large.

Deep oil reservoirs, characterized by high temperature and high pressure, are conducive for enhancing the miscibility between gas and crude oil, thereby improving oil ...

Climate change induced spatiotemporal variation in global water availability modifies the proposed design criteria of water infrastructure structures like dams and reservoirs. Although reservoir ...

Gas Production Enhancement from a Multilayered Hydrate Reservoir in the South China Sea by Hydraulic Energy & Fuels (IF 5.2) Pub Date : 2021-07-26, DOI: 10.1021/acs.energyfuels.1c01785

Eden is the leader in sustainable natural resource recovery. ? Our Electrical Reservoir Stimulation technology leverages the power of high-voltage electricity granting us precise control over the directionality of the fractures we ...

Deep Carbonate Geohermal Reservoir Production Enhancement Technology in North China Plain. Earth Science, 49 (4): 1470-1486. doi: 10.3799/dqkx.2022.449. 1. 2. North China area is ...

Deep Carbonate Geohermal Reservoir Production Enhancement Technology in North China Plain. Earth Science, 49(4): 1470-1486. doi: 10.3799/dqkx.2022.449. Citation: Wang Guiling, Yue Gaofan, Lin Wenjing, Ma Feng, Liu Yanguang, 2024. Deep Carbonate Geohermal Reservoir Production Enhancement Technology in North China Plain.

Building Robust Models to Forecast the Induced Seismicity Related to Geothermal Reservoir Enhancement Banu Mena; Banu Mena Swiss Seismological Service, ETH Zurich, NO H 55, Sonneggstrasse 5, CH-8092 Zurich, Switzerland Search for other works by this author on: GSW.

Reservoir enhancement

The most simple and effective method for blockage removal and perfusion enhancement in recharge wells involves injecting stimulation fluid into reservoirs to improve ...

Due diligence, quality assurance and peer reviews activities on reservoir characterisation and dynamic modelling studies, Parametrisation and peer reviews for concept screening, concept selection and field development ...

Reservoir reconstruction is a critical challenge in many significant underground energy projects, such as enhanced geothermal systems, oil shale extraction, and shale gas development. Effectively reconstructing geothermal reservoirs can significantly enhance the exploitation and production capacity of geothermal resources. However, this process requires ...

Reservoir geo-engineering mechanics emphasizes integrating reservoir geomechanics theories with reservoir modification and enhancement. It addresses key technical challenges in deep energy resource development, focusing on reservoir fracturing, modification, fluid flow, and THMC(thermo-hydro-mechanical-chemical) coupling processes.

Currently, its predominant application is in segmented fracturing and reservoir enhancement techniques, specially tailored for shale gas and tight gas wells. Y457R-88-70 Dissolvable Bridge Plug. The Y457R-88-70 Dissolvable Bridge ...

A workflow integrating different types of data including geologic, geophysical, well/petrophysical, and associated knowledge at their respective scales is proposed for reservoir modeling.

Reservoir characterization is the process of systematically gathering and analyzing various types of data and information related to a subsurface reservoir, including geological, ...

The SWAT-HEC-ResSim-GA derived reservoir operation rules for the baseline scenario revealed that the reservoir release could satisfactorily meet the desired water ...

Eden Raises $12 Million Seed Round to Scale Next-Generation Geologic Reservoir Permeability Enhancement Technology "The Eden team has the technology, the expertise, and the commitment to scale this technology across geologies." Alejandro Solé, Chief Investment Officer at TechEnergy Ventures.

A detailed study of the productivity and recovery potential for a turbidite reservoir has been completed using a practical application of stochastic modeling and reservoir simulation techniques.

of acceptable ways of reservoir enhancement. Below we summarize the preliminary results from drilling, logging, testing and stimulating the Basel 1 well and suggest a reservoir model where some aspects of both the reservoir development and the driving mechanism for the perceptible induced seismic events are described.

1.1. Tectonics and ...

Proven production enhancement to repair wellbore skin damage and improve your well"s productivity. Find the optimal set of solutions for your wells today. Skip to main content ... effective, and extended reservoir contact without damage to the formation. Achieve effective water conformance . Produce less water, recover more hydrocarbon and ...

Reservoir construction and transboundary water management are key issues causing national and international tension. Peaceful and just societies, digital technologies, and international cooperation are prerequisites for resolving social, economic, and political conflicts arising from the use of natural resources and safeguarding human well ...

Production dynamic data and reservoir formation analysis have shown that more than 90% of high-yield wells are located in strike-slip fault zones, ... To achieve the attenuation of seismic noise and the enhancement of the diffusion filtering effect of geological structural features, the search for the diffusion tensor is the most critical step ...

Reservoir stimulation methods for marine hydrate reservoir are summarized into four groups. Simulations on enhancement of production by reservoir stimulation are presented. ...

Wang Guiling, Yue Gaofan, Lin Wenjing, Ma Feng, Liu Yanguang, 2024. Deep Carbonate Geohermal Reservoir Production Enhancement Technology in North China Plain. Earth Science, 49(4): 1470-1486. doi: ...

This study nevertheless provided invaluable lessons for reservoir-enhancement efforts. Floating wetlands continue to be an attractive option for creating unique waterfront spaces in Singapore, and their functionality could ...

Reservoir tunneling concepts are used to drill branched channels in the formation from the main wellbore. With thousands of tunnels drilled to date, it is a viable technique that ...

Wang Guiling, Yue Gaofan, Lin Wenjing, Ma Feng, Liu Yanguang, 2024. Deep Carbonate Geohermal Reservoir Production Enhancement Technology in North China Plain. Earth Science, 49(4): 1470-1486. doi: 10.3799/dqkx.2022.449

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