



Petroleum Science and Technology >

Volume 30, 2012 - Issue 20

194 30

Views CrossRef citations to date Altmetric

0

Original Articles

The Effect of DC Electrical Potential on Enhancing Sandstone Reservoir Permeability and Oil Recovery

B. Ghosh, E. W. Al Shalabi & M. Haroun

Pages 2148-2159 | Received 06 Nov 2010, Accepted 24 Dec 2010, Published online: 20 Aug 2012

🗨 Cite this article 🔗 <https://doi.org/10.1080/10916466.2010.551233>

Sample our
Earth Sciences
Journals



>> **Sign in here** to start your access
to the latest two volumes for 14 days

📄 Full Article

🖼 Figures & data

📖 References

🗨 Citations

📊 Metrics

📄 Reprints

We Care About Your Privacy

We and our 887 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting I Accept enables tracking technologies to support the purposes shown under we and our partners process data to provide. Selecting Reject All or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the Show Purposes link on the bottom of the webpage. Your choices will have effect within our Website. For more details, refer to our Privacy Policy. [Here](#)

We and our partners process data to provide:

Use precise geolocation data. Actively scan device

Identify you and others using device identifiers

Use precise geolocation data. Actively scan device

Identify you and others using device identifiers

I Accept

Reject All

Show Purpose



Abstract

The mer

sandston

Normal a

condu

brine

spectros

with the

configur

in norma

recovere

moveme

configura

bility on

studies.

studies are

roduced

anced 180%

n reverse

s observed

onal oil is

electrolyte

electrode

configuration, formation of colloidal clay suspension and flowing out along with

produced brine is evident. This has resulted in increased pore passage and core permeability, whereas in the reverse configuration, clay structures remained unchanged. The given explanations are supported by ICP-MS and X-ray diffraction results.

Keywords:

- clay migration
- electrokinetics
- electromigration
- permeability enhancement

Related research

People also read

Recommended articles

Cited by
30



Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2010 Taylor & Francis Group
Taylor & Francis Group

Accessib

Registered
5 Howick Pl

