

Accepted Manuscript

Title: Wettability alteration in gas-condensate carbonate reservoir using anionic fluorinated treatment

Author: G.R. Karandish M.R. Rahimpour S. Sharifzadeh
A.A. Dadkhah



PII: S0263-8762(14)00248-2
DOI: <http://dx.doi.org/doi:10.1016/j.cherd.2014.05.019>
Reference: CHERD 1597

To appear in:

Received date: 11-8-2013
Revised date: 28-4-2014
Accepted date: 23-5-2014

Please cite this article as: Karandish, G.R., Rahimpour, M.R., Sharifzadeh, S., Dadkhah, A.A., Wettability alteration in gas-condensate carbonate reservoir using anionic fluorinated treatment, *Chemical Engineering Research and Design* (2014), <http://dx.doi.org/10.1016/j.cherd.2014.05.019>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Wettability alteration in gas-condensate carbonate reservoir using anionic fluorinated treatment

G.R. Karandish^a, M.R. Rahimpour^{1, b}, S. Sharifzadeh^b, A.A. Dadkhah^a

^a *Department of Chemical Engineering, Isfahan University of Technology, Isfahan 84154, Iran*

^b *Department of Chemical Engineering, School of Chemical and Petroleum Engineering,*

Shiraz University, Shiraz 71345, Iran

Research Highlights

- Wettability alteration to gas wetness is proposed to Sarkhun rock.
- The treatment is consisted of an anionic fluoro-surfactant with an optimized solvent.
- The effect of this method is evaluated by various tests.
- Brine and condensate imbibition decrease after treatment.
- The relative permeability increase by a factor of 1.7.

During gas production from gas condensate reservoirs, as the bottom hole pressure drops below the dew point pressure, the liquids drop out and form condensate banking resulting

¹ Corresponding author. Tel.: +98 711 2303071 ; fax : +98 711 6287294
E-mail: rahimpour@shirazu.ac.ir (Prof. M.R. Rahimpour)

Download English Version:

<https://daneshyari.com/en/article/7007538>

Download Persian Version:

<https://daneshyari.com/article/7007538>

[Daneshyari.com](https://daneshyari.com)