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Simultaneous oil recovery and residual gas storage: A pore-level analysis using in situ X-ray micro-tomography

S. Iglauer A.*, A. Paluszny b, M.J. Blunt b

HIGHLIGHTS

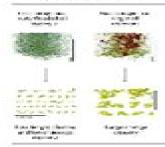
- Waterflooding a reservoir prior to gas injection leads to significantly lower oil recovery.
- More oil can be produced by directly injecting gas into a virgin oil
- Waterflooding a reservoir prior to gas injection leads to significantly lower gas storage capacities.
- More residual gas can be stored by directly injecting gas into an oil program.
- Residual oil and gas clusters have a large dissers size distribution and surface area.

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Enyments: Sehara ed oil moneny Griton goo-enquestration Residual oil Residual gas

GEAPHICAL ABSTRACT



ABSTRACT

We imaged sandstone cores at residual gas saturation (S_w) with synchrotron radiation at a nominal resolution of (9 µm)³. We studied two three-phase flooding sequences: (1) gas injection into a core containing oil and initial water followed by a waterflood (gw pinorm); (2) gat injection into a waterflooded over followed by another waterflood (wgw process). In the gw flood we measured a significantly higher S_w (=20.6%; S_w in the ways flood was \$3.00) and a significantly lower residual oil saturation (S_w; S_w in the gw flood was 21.6% and S_w in the wgw flood was 29.3%). We also studied the size distribution of individual trapped dusters in the gore space. We found an approximately power-law distribution $N = e^{-t}$ with an exponent $\tau = 2.02-2.03$ for the residual oil clusters and $\tau = 2.04$ for the gas clusters in the gw flood. τ (=2.12) estimated for the gas clusters in the way process was significantly different. Furthermore, we calculated the surface area A -volume V relationships for the clusters. Again an approximate power-law relationship was observed, $A \simeq V^{\mu}$ with $\rho \approx 0.75$. Moreover, in the gw flood sequence we identified oil layers sandwiched between the gar and water phases; we did not identify such oil layers in the wow flood. These results have several important implications for oil recovery, carbon peo-sequestration and contaminant tramport: (a) significantly more oil can be produced and much more gas can be stored using a gw flood; (b) duster size distributions for residual oil or gas clusters in three-phase flow are similar to those observed in analogue two-phase flow; (c) there is a large cluster surface area available for dissolution of the residual phase into an aqueous phase; however, this surface area is significantly smaller than predicted by percolation theory (p = 1) which implies that CO₂ dimolution trapping and contamination of aquifers by hazardous organic solvents is slower than expected because of reduced interfacial contact

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^{*}Custin University, Department of Petroburn Engineering, 26 Deth Petry Avenue, 6351 Petit, Assorbia

^{*}Imperial Gridge London, Separateur of Earth Science and Engineering, Peters Compar Boat, SNT 242 London, United Kingdom

^{*} Corresponding author.

E-mail address: stefantiglase (Kourtib, odu.au (S. Iglever).

<u>Simultaneous Oil Recovery And Residual Gas Storage A</u> <u>Pore</u>

Laura Romero-Zerón

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Imperial College Lectures In Petroleum Engineering, The - Volume 2: Reservoir Engineering Martin Blunt, 2017-03-24 This book covers the fundamentals of reservoir engineering in the recovery of hydrocarbons from underground reservoirs It provides a comprehensive introduction to the topic including discussion of recovery processes material balance fluid properties and fluid flow It also contains details of multiphase flow including pore scale displacement processes and their impact on relative permeability with a presentation of analytical solutions to multiphase flow equations Created specifically to aid students through undergraduate and graduate courses this book also includes exercises with worked solutions and examples of previous exam papers for further guidance and practice As part of the Imperial College Lectures in Petroleum Engineering and based on a lecture series on the same topic Reservoir Engineering provides the introductory information needed for students of the earth sciences petroleum engineering engineering and geoscience Chemical Enhanced Oil Recovery (cEOR) Laura Romero-Zerón, 2016-10-19 Commercial application of chemical enhanced oil recovery cEOR processes is expected to grow significantly over the next decade Thus Chemical Enhanced Oil Recovery cEOR A Practical Overview offers key knowledge and understanding of cEOR processes using an evidence based approach intended for a broad audience ranging from field operators researchers to reservoir engineers dealing with the development and planning of cEOR field applications This book is structured into three sections the first section surveys overall EOR processes The second section focuses on cEOR processes while the final section describes the electrorheology technology These sections are presented using a practical and realistic approach tailored for readers looking to improve their knowledge and understanding of cEOR processes in a nutshell **Development of Unconventional Reservoirs** Reza Rezaee, 2020-04-16 The need for energy is increasing and but the production from conventional reservoirs is declining quickly This requires an economically and technically feasible source of energy for the coming years Among some alternative future energy solutions the most reasonable source is from unconventional reservoirs. As the name unconventional implies different and challenging approaches are required to characterize and develop these resources This Special Issue covers some of the technical challenges for developing unconventional energy sources from shale gas oil tight gas sand and coalbed methane

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Fundamentals and Practical Aspects of Gas Injection Reza Azin, Amin Izadpanahi, 2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the

reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering Progress and Challenge of Porous Media: Proceedings of the 16th Annual Meeting Conference on Porous Media Jun Yao, Yongfei Yang, Wendong Wang, Hai Sun, Lei Zhang, Kai Zhang, 2025-04-08 This book is a compilation of selected papers from the 16th Annual Meeting Conference on Porous Media InterPore 2024 The work focuses on novel techniques for porous media materials transport mechanisms in porous media multiscale multiphysics pore scale modeling and porous media mechanics. The contents make valuable contributions to academic researchers engineers in the industry and regulators of aviation authorities As well readers will encounter new ideas for problems in porous media science and engineering Proceedings of the Sixteenth World Petroleum Congress Institute of Petroleum, World Petroleum Congress, 2001-03 Fossil Energy Update ,1986 Quantitative Characterization and Engineering Application of Pores and Fractures of Different Scales in Unconventional Reservoirs - Volume II Wenlong Ding, Hu Li, Shuai Yin, 2023-04-05 Journal of the Institute of Petroleum ,1963 Petroleum Engineering Handbook Larry W. Lake, 2007 **Iournal of the Institute of Petroleum** Institute of Petroleum (Great Britain).1963 **Journal** Institute of Petroleum (Great Britain), 1962 Vols 7 include Abstracts which beginning with v 9 form a separately paged section and from v 17 on have separate title pages Abstracts of the Journal Institute of Petroleum (Great Britain), 1962 Petroleum Abstracts, 1993-04 Proceedings Society of Core Analysts. International Symposium, 2006 Shale Shaker ,1975 Society of Petroleum Engineers Journal Society of Petroleum Journal of Petroleum Technology ,1988-06 Transactions of the Society of Petroleum Engineers of AIME., 1972

Engineers American Institute of Mining, Metallurgical, and Petroleum Engineers, 1983

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http://www.technicalcoatingsystems.ca/data/uploaded-files/fetch.php/combined_cycle_gas_turbine_problems_and_solution.pdf

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web bitter almonds contain 42 times higher amounts of cyanide than the trace levels found in sweet almonds extract of bitter almond was once used medicinally but even in small doses effects are severe or lethal especially in children the cyanide must be removed before consumption

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web jul 3 2020 bitter almonds were the most common species grown until a few thousand years ago when a genetic mutation inhibited the almond tree s ability to make amygdalin the compound that gives bitter