

ZENG Quanshu

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Education

Ph.D., Oil & Gas Well Engineering, China University of Petroleum - Beijing, 2017

B.S., Petroleum Engineering, China University of Petroleum - Beijing, 2011

Research Areas and Interests

Fundamentals of Coalbed Methane Reservoir Engineering

Fundamentals and Applications of Well Completion Engineering

Professional Experiences

2016.07-2017.07, Visiting Scholar, Energy & Geoscience Institute, The University of Utah, USA

2017-present, Assistant Professor, Department of Petroleum Engineering, China University of Petroleum-Beijing, China

Selected Publications

1. Zeng Quanshu, Wang Zhiming, Liu Liangqian, et al. Modeling CH₄ displacement by CO₂ in deformed coalbed during enhanced coalbed methane recovery. *Energy & Fuel*. 2018.
2. Zeng Quanshu, Wang Zhiming, Brian McPherson, et al. Modeling competitive adsorption between methane and water on coals. *Energy & Fuel*. 2017, 31(10): 10775-10786.
3. Zeng Quanshu, Wang Zhiming, Brian McPherson, et al. Theoretical approach to model gas adsorption/desorption and the induced coal deformation and permeability change. *Energy & Fuel*. 2017, 31(8): 7982-7994.
4. Zeng Quanshu, Wang Zhiming. A new cleat volume compressibility determination method and the corresponding modification to coal permeability model. *Transport in Porous Media*, 2017, 119(3): 689-706.
5. Zeng Quanshu, Wang Zhiming, Wang Xiaoqiu, et al. A novel oil-water separator design and its performance prediction. *Journal of Petroleum Science and Engineering*. 2016, 145: 83-94.
6. Zeng Quanshu, Wang Zhiming, Wang Xiaoqiu, et al. A novel autonomous inflow control device design and its performance prediction. *Journal of Petroleum Science and Engineering*. 2015, 126: 35-47.
7. Zhao Lin, Zeng Quanshu, Wang Zhiming. Design and performance of a novel autonomous inflow control device. *Energy & Fuel*. 2018, 32(1): 125-131.
8. Wang Zhiming, Zhang Quan, Zeng Quanshu, et al. A unified model of oil/water two-phase flow in the horizontal wellbore. *SPE Journal*. 2017, 22(1): 353-364.
9. Wang Xiaoqiu, Wang Zhiming, Zeng Quanshu, et al. Non-Darcy effect on fracture parameters optimization in fractured CBM horizontal well. *Journal of Natural Gas Science and Engineering*, 2015, 27: 1438-1445.

10. Zhao Yanlong, Wang Zhiming, Zeng Quanshu, et al. Lattice Boltzmann simulation for steady displacement interface in cementing horizontal wells with eccentric annuli. *Journal of Petroleum Science and Engineering*, 2016, 145: 213-221.
11. Zeng Quanshu, Wang Zhiming, Sun Hansen. A dynamic reserve estimation method for both methane and water in coal reservoirs. Paper 2861237 Presented at the AAPG 2018 Annual Convention & Exhibition Held in Salt Lake City, Utah, USA, 20-23 May 2018.
12. Zeng Quanshu, Wang Zhiming, Brian McPherson, et al. Modeling the sequestration and transportation of CO₂ in deformed coalbed during enhanced coalbed methane recovery. Paper 398d Presented at the AIChE Annual Meeting Held in Minneapolis, Minnesota, USA, 29 October - 3 November 2017.
13. Wang Xiaoqiu, Zeng Quanshu, Wang Zhiming, et al. A novel oil-water separator design based on the combination of two flow resistance mechanisms. Paper OTC 26368 Presented at the Offshore Technology Conference Held in Kuala Lumpur, Malaysia, 22-25 March 2016.
14. Zeng Quanshu, Wang Zhiming, Wang Xiaoqiu, et al. Selection of passive inflow control devices based on dynamic weight fuzzy evaluation. Paper IPTC 17794 Presented at the International Petroleum Technology Conference Held in Kuala Lumpur, Malaysia, 10-12 December 2014.
15. Zeng Quanshu, Wang Zhiming, Wang Xiaoqiu, et al. A novel autonomous inflow control device design: improvements to hybrid ICD. Paper IPTC 17776 Presented at the International Petroleum Technology Conference Held in Kuala Lumpur, Malaysia, 10-12 December 2014.
16. Wang Xiaoqiu, Wang Zhiming, Zeng Quanshu. A novel autonomous inflow control device: design, structure optimization, and fluid sensitivity analysis. Paper IPTC 17758 Presented at the International Petroleum Technology Conference Held in Kuala Lumpur, Malaysia, 10-12 December 2014.
17. Zeng Quanshu, Wang Zhiming, Wang Xiaoqiu, et al. A novel AICD design based on the combination of two dynamic fluid technologies. Paper SPE 170069 Presented at the SPE Heavy Oil Conference-Canada Held in Calgary, Alberta, Canada, 10-12 June 2014.
18. Zeng Quanshu, Wang Zhiming, Yang Gang, et al. Selection and optimization study on passive inflow control devices by numerical simulation. Paper SPE 167443 Presented at the SPE Middle East Intelligent Energy Conference and Exhibition Held in Dubai, UAE, 28-30 October 2013.
19. Zeng Quanshu, Wang Zhiming. Comparative study on passive inflow control devices by numerical simulation. Paper Presented at the International Conference on Computational & Experimental Engineering and Sciences Held in Seattle, Washington, USA, 23-28 May 2013.