WANG Zhiming

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Education

Ph.D., Petroleum Engineering, China University of Petroleum (Beijing), 1993

M.S., Petroleum Engineering, China University of Petroleum (Beijing), 1988

B.S., Petroleum Engineering, China University of Petroleum (East China), 1985

Research Areas and Interests

Complex Flow Mechanics and Well Completion Optimization

Unconventional Natural Gas Development Technology

Smart Well Technology

Teaching

Advanced Well Completion Engineering

Fluid Mechanics

Professional Experiences

2013, Visiting Professor at University of Calgary in Canada

1998, Visiting Scholar at Texas A&M University in U.S.

1997-present, Professor in Petroleum Engineering at China University of Petroleum

1993-1997, Associate Professor in Petroleum Engineering at China University of Petroleum

1988-1990, Assistant Professor in Petroleum Engineering at China University of Petroleum

Honors and Awards

2007, National Scientific and Technological Progress Award for “Extended Reach Horizontal Well Technology in offshore Drilling Technology in China”

2007, National Scientific and Technological Progress Award for “Self-Oscillation Jet Technology”

2008, Beijing Government Excellent Textbook Award for “Fluid Mechanics”

2008, Beijing Government Award for “Excellent Teacher”

Selected Publications

1. Zhao L, Zeng Q S, Wang Z M. Design and performance of a novel autonomous inflow control device. Energy & Fuels. 2018, 32(1): 125-131.
2. Zeng Q S, Wang Z M, Liu L Q, et al. Modeling CH_4 displacement by CO_2 in deformed coalbed during enhanced coalbed methane recovery. Energy & Fuels. 2018.
3. Wang Z M, Zhang Q, Zeng Q S, et al. A unified model of oil/water two-phase flow in the horizontal wellbore. SPE Journal. 2017, 22(1): 353-364.
4. Zeng Q S, Wang Z M, McPherson B, et al. Modeling competitive adsorption between methane and water on coals. Energy & Fuels. 2017, 31(10): 10775-10786.

5. Zeng Q S, Wang Z M, McPherson B, et al. Theoretical approach to model gas adsorption / desorption and the induced coal deformation and permeability change. Energy & Fuels. 2017, 31(10): 10775-10786.
6. Zeng Q S, Wang Z M. A new cleat volume compressibility determination method and corresponding modification to coal permeability model. Transport in Porous Media. 2017, 119(3): 689-706.
7. Zhao Y L, Wang Z M, Zeng Q S, 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.
8. Zeng Q S, Wang Z M, Wang X Q, et al. A novel oil-water separator design and its performance prediction. Journal of Petroleum Science and Engineering. 2016, 145: 83-94.
9. Guo X, Wang Z M, Zhao Y L. A comprehensive model for the prediction of coal swelling induced by methane and carbon dioxide adsorption. Journal of Natural Gas Science and Engineering. 2016, 36: 563-572.
10. Wang Z M, Li B M, Li J Z, et al. Sand movement by heavy oil in a horizontal wellbore. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37(6): 655-662.
11. Wang Z M, Yang J K, Zhang Q, et al. Evaluation of horizontal wellbore single-phase pressure drop models based on large-scale experiment. Petroleum Exploration and Development, 2015, 42(2), 238-241.
12. Zeng Q S, Wang Z M, Wang X Q, et al. A novel autonomous inflow control device design and its performance prediction. Journal of Petroleum Science and Engineering, 2015, 126, 35-47.
13. Wang X Q, Wang Z M, Zeng Q S, 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.
14. Wang Z M, Yang G, Zhang J. A new coal permeability prediction method based on experiment and dimension analysis. SPE Journal, 2014, 19(3): 356-360.
15. Chen T, Wang Z M, Yang G, et al. Analysis of cavitation pressure difference during blowdown in CBM cavity completion. Journal of Natural Gas Science and Engineering, 2014, 18: 175-179.
16. Zhang Q, Wang Z M, Wang X Q, et al. A new comprehensive model for predicting the pressure drop of flow in the horizontal wellbore. Journal of Energy Resources Technology, 2014, 136: 1-9.

Selected Publications

1. Wang Z M. Completion optimization theory and applications of complex wells. Petroleum Industry Press, 2010.
2. Wang Z M. Fluid mechanics in petroleum engineering. Petroleum Industry Press, 2008.
3. Wang Z M, Cui H Q. Fluid mechanics. Petroleum Industry Press, 2006.