Cheng Linsong

Ph.D., Professor

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Education

Ph.D., Petroleum Engineering, China University of Petroleum (China), 1994

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

B.S., Petroleum Engineering, the East China Petroleum Institute (China), 1986

Research Areas and Interests

Flow dynamics of tight/shale oil/gas reservoirs

The mechanism of heavy oil development (CSS, SAGD)

Study of flow discipline of complex wells and completion

The development strategy of high water cut oil reservoirs

Teaching

Flow dynamics in porous media; Advanced flow dynamics in porous media; New progress of oil-gas development; Reservoir Numerical Simulation

Professional Experiences

1988.12-1992.03, Teacher Assistant, Department of Petroleum Engineering, China University of Petroleum-Beijing, China

1994.08-1995.05, Visiting Scholar, SSI (Scientific Software Institution), USA

1992.03-1994.11, Teacher, Department of Petroleum Engineering, China University of Petroleum-Beijing, China

1994.12.-2000.01, Assistant Professor, Department of Petroleum Engineering, China University of Petroleum-Beijing, China

2000.01-present, Professor, Department of Petroleum Engineering, China University of Petroleum-Beijing, China

Other Appointments

Member, CNPC Key Laboratory of reservoir physics and fluid mechanics Academic Committee

Vice director, National Society of Professional Committee of seepage mechanics

Vice director, Petroleum engineering committee of Beijing Petroleum Institute

"New Century Excellent Talents Scheme", Ministry of Education

Adjunct professor, the East China Petroleum Institute (China)

Members, editorial boards for Lithological reservoir and Chinese Journal of Computational Physics

Members, technical editor for more than 6 journals, such as Petroleum Science, Petroleum Exploration and Development, ACTA PETROLEI SINICA and so on

Other Professional Affiliations

Beijing Petroleum Society
Chinese Society of Theoretical and Applied Mechanics
The National Natural Science Foundation of China

Honors and Awards

Science Technology Improvement Award of Science Research Famous Achievement Award in Higher
Institution, Second Prize, New theory and application of heavy oil multi heat medium, 2017
Beijing Higher Education Achievement Prize, 2013
China Petroleum and Petrochemical Institute of Science and Technology Progress, Second Prize, Heavy
oil reservoir development and application of evaluation technology, 2012
Teaching Celebrities in Beijing, 2012
China Petroleum and Petrochemical Institute of Science and Technology Progress, Nonlinear flow and
development technology in ultra-low permeability reservoirs, 2010
Flow dynamics in porous media is awarded excellent course in Beijing, 2010

Selected Publications

1. L. Cheng, S. Fang, Y. Wu, et al. A hybrid semi-analytical model for production from heterogeneous tight oil reservoirs with fractured horizontal well[J]. Journal of Petroleum Science & Engineering, 2017, 157:588-603.
2. L. Cheng, P. Jia, Z. Rui, et al. Transient responses of multifractured systems with discrete secondary fractures in unconventional reservoirs. Journal of Natural Gas Science and Engineering, 2017 41: 49-62.
3. L. Cheng L, H. Gu, S. Huang, et al. A comprehensive mathematical model for estimating oil drainage rate in SAGD process considering wellbore/formation coupling effect[J]. Heat & Mass Transfer, 2016:1-19.
4. Y. Wu, L. Cheng, S. Huang, et al. A practical method for production data analysis from multistage fractured horizontal wells in shale gas reservoirs[J]. Fuel, 2016, 186:821-829.
5. P. Jia, L. Cheng, S. Huang, et al. Pressure Transient Analysis of a Finite Conductivity Inclined Fracture Connected to a Slanted Wellbore. SPE Journal, 2016.21(2): 522–537. SPE-178929-PA.
6. Jia P, Cheng L, Huang S, et al. A semi-analytical model for the flow behavior of naturally fractured formations with multi-scale fracture networks[J]. Journal of Hydrology, 2016, 537:208-220.
7. Tian X, Cheng L, Cao R, et al. A new approach to calculate permeability stress sensitivity in tight sandstone oil reservoirs considering micro-pore-throat structure[J]. Journal of Petroleum Science and Engineering, 2015, 133: 576-588.
8. L. Cheng, P. Lian, R. Cao., et al. A Viscoelastic Polymer Flooding Model Considering the Effects of Shear Rate on Viscosity and Permeability. Petroleum Science & Technology, 2013, 31(1):101-111.
9. L. Cheng, F. Zhou, C. Cai. Research on Improved Recovery Method by Composed Synergistic Action of Well Pattern and Tertiary Recovery，International Symposium on Multifield Coupling Theory of Rock and Soil Media and Its Applications. 2010:357-363.
10. R. Cao, L. Cheng, L. Li, et al. Constitutive Model of Viscous-Elastic Polymer Solution in Porous Media. Petroleum Science and Technology. 2010, 28(11):1170-1177.