

## Publications

- Elshehabi, T. A. (2022).** *Well Control Complications in Unconventional Shale Laterals*. Chapter in the *Shale Gas Production - Lessons Learned* Textbook, edited by Prof. Rouzbeh, and published by ELSEVIER in Feb. 2022, ISBN: 9780323901857.
- Elshehabi, T. A. (2021).** When We Care We Share: Empowering Students with an Innovative Visual Teaching Philosophy. Paper presented at the Original **Lilly** Conference on College Teaching, Oxford, OH. November 19-21.
- Elshehabi, T. A. (2021).** Visual Teaching Philosophy Empowering Inclusive Learning and Managing Expectations. Paper presented at the 2021 American Society for Engineering Education (**ASEE**) Virtual Annual Conference & Exposition, July 26-29.
- Elshehabi, T. A., & Heshmati, M. (2021).** Fundamentals of Petroleum Engineering. Open Education Resources OER Textbook. Laramie, Wyoming. Funded by the University of Wyoming Libraries. (Work in progress)
- Elshehabi, T. A. (2020).** When the Whole is Greater Than the Sum of Its Parts: The Power of The Team-Based Collaborative Mode of Learning. Abstract accepted in the Rocky Mountain Section (RMS) of the American Society for Engineering Education (**ASEE**). The conference was cancelled due to the global COVID-19 pandemic. May 17-19.
- Elshehabi, T. 2019.** Innovative Hands-on Teaching Tools Inspiring Upcoming Petroleum Engineers and K-12 Students. The 2019 Rocky Mountain Section (RMS) of the American Society for Engineering Education (**ASEE**), Laramie, Wyoming, USA, May 19-22.
- Elshehabi, T. and Bilgesu, I. 2017.** Marcellus Shale Toe-up Laterals: Hydraulics and Well Control Implications. Paper presented at the Society of Petroleum Engineers (**SPE**), Eastern Regional Meeting, Lexington, Kentucky, USA, 4-6 October. <https://doi.org/10.2118/187517-MS>.
- Elshehabi, T.A. 2017.** Hydraulics and Well Control Complications in Unconventional Shale Laterals. Ph.D. Dissertation, College of Engineering and Mineral Resources, West Virginia University, Morgantown, WV, USA. ProQuest # 10281277.
- Bilgesu, H., Cox, Z., **Elshehabi, T.A.**, Smith, C., Idowu, G. and Florence, F.R. **2017.** A Real-Time Interactive Drill-Off Test Utilizing Artificial Intelligence Algorithm for DSATS Drilling Automation University Competition. Paper presented at the Society of Petroleum Engineers (**SPE**), Western Regional Meeting, Bakersfield, California, USA, 23-27 April. <https://doi.org/10.2118/185730-MS>.
- Elshehabi, T. and Bilgesu, I. 2017.** Drilling Unconventional Shales with Upward or Downward Laterals: What are the Hydraulics and Well Control Consequences? Paper presented at the American Association of Drilling Engineers (**AADE**), National Technical Conference & Exhibition, Houston, Texas, April 11-12. AADE-17-NTCE-115.
- Guner, S., **Elshehabi, T.** and Bilgesu, I. **2017.** The Effects of Gas Kick Migration on Wellbore Pressure. Paper presented at the American Association of Drilling Engineers (**AADE**), National Technical Conference & Exhibition, Houston, Texas, April 11-12. AADE-17-NTCE-132.
- Elshehabi, T. and Bilgesu, I. 2016.** Well Integrity and Pressure Control in Unconventional Reservoirs: A Comparative Study of Marcellus and Utica Shales. Paper presented at the Society of Petroleum Engineers (**SPE**), Eastern Regional Meeting, Canton, Ohio, USA, 13-15 September. <http://dx.doi.org/10.2118/184056-MS>.
- Salih, A., **Elshehabi, T.** and Bilgesu, I. **2016.** Impact of Nanomaterials on the Rheological and Filtration Properties of Water-Based Drilling Fluids. Paper presented at the Society of Petroleum Engineers (**SPE**), Eastern Regional Meeting, Canton, Ohio, USA, 13-15 September. <http://dx.doi.org/10.2118/184067-MS>.
- Guner, S., **Elshehabi, T.** and Bilgesu, I. **2016.** Pressure Variations due to Migration of Gas Kick Bubbles in Deep Vertical, Deviated and Horizontal Wells. Paper presented at the Istanbul Technical University (**ITU**) Petroleum and Natural Gas Seminar and Exhibition, Istanbul, Turkey, 23-24 June.
- Elshehabi, T. and Bilgesu, I. 2016.** What are the Well Control Complications while Drilling with Casing or Liner? Paper presented at the American Association of Drilling Engineers (**AADE**), Fluids Technical Conference and Exhibition, Houston, Texas, April 12-13. AADE-16-FTCE-79.

- Elshehabi, T.** and Bilgesu, I. **2015**. Impact of Drilling with Oil Based Mud on Well Control in Horizontal Shale Gas Wells. Paper presented at the Society of Petroleum Engineers (**SPE**), Eastern Regional Meeting, Morgantown, West Virginia, USA, 13-15 October. <http://dx.doi.org/10.2118/177294-MS>.
- Elshehabi, T.** and Bilgesu, I. **2015**. Well Control Operations for Horizontally Drilled Wells and its Complications. Paper presented at the Istanbul Technical University (**ITU**), Petroleum and Natural Gas Seminar and Exhibition, Istanbul, Turkey, 18-19 June.
- Elshehabi, T.A.** **2012**. Development of an Advanced Drilling Simulator for Drilling Optimization in Western Desert, Egypt. *uncompleted* Ph.D. Dissertation, College of Petroleum and Mining Engineering, Suez Canal University, Suez, Egypt.
- Elshehabi, T.A.** **2008**. An Integrated Model for Gas Kick Control during Drilling Deviated Wells. M.Sc. Thesis, College of Petroleum and Mining Engineering, Suez Canal University, Suez, Egypt.
- Elshehabi, T.A.,** Elgibaly, A.A. and Farahat, M.S. **2007**. *Development of an Integrated Model for Gas Kicks Control During Drilling of Horizontal Wells*. Journal of Petroleum and Mining Engineering, JPME 10: 91-107.

## Posters and Presentations

- Elshehabi, T. A. (2020)**. Visual Teaching Philosophy: An Emerging Tool for Inclusive Classrooms. Poster accepted in the Rocky Mountain Section (RMS) of the American Society for Engineering Education (ASEE). Golden, Colorado. The conference was cancelled due to the global COVID-19 pandemic. May 17-19.
- Elshehabi, T. A. (2020)**. Teaching is Effective When It's Active and Collaborative, T.E.A.M – Together, Everyone Achieves More. Final poster presented in UW Learning Actively Mentoring Program (**LAMP**). Laramie, Wyoming. May-2.
- Elshehabi, T. A., & Gardner, M. (2019)** Integration of 3D Printing Technology and Virtual Reality With the Drilling Simulator. PokeBot V1.01 - Student Innovation Center. Engineering Education & Research Building (EERB). September-27.
- Elshehabi, T. 2019**. Wyoming Energy's for You, Active Engagement Session. The 2019 Rocky Mountain Section (RMS) of the American Society for Engineering Education (**ASEE**), Laramie, Wyoming, USA, 19-22 May.
- Elshehabi, T.,** Cox, Z., Smith, C., Idowu, G. and Bilgesu, I. **2016**. DSATS Drilling Automation University Competition Winning Team Design and Test Results. Presented at the Drilling Systems Automation Technical Section (DSATS) Symposium, Society of Petroleum Engineers (**SPE**), Annual Technical Conference and Exhibition (ATCE), Dubai World Trade Centre, Dubai, UAE, 25 September.
- Elshehabi, T. 2017**. Horizontal Well Kicks and Blowout Control: What we Know and what we Need to Know? Poster presented at the American Association of Drilling Engineers (**AADE**), National Technical Conference & Exhibition, Houston, Texas, April 11-12.
- Elshehabi, T. 2016**. Impact of Gas Solubility on Well Control Operations while Drilling with Casing/Liner using OBM. Poster presented at the American Association of Drilling Engineers (**AADE**), Fluids Technical Conference and Exhibition, Houston, Texas, April 12-13.
- Elshehabi, T. 2015**. Investigation of Well Control Procedures for Casing Drilling in Horizontal Wells. Poster presented at the American Association of Drilling Engineers (**AADE**), National Technical Conference & Exhibition, San Antonio, TX, 8-9 April.