Robin Dommisse

Curriculum Vitae

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Business address:	The University of Texas at Austin Bureau of Economic Geology University Station, Box X Austin, TX 78713-8924
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Professional Preparation

Academic Background

- Bachelor of Science in Petroleum & Geosystems Engineering, University of Texas at Austin, 1993
- Propaedeuse Geology, Free University of Amsterdam, The Netherlands, 1989

Professional Appointments

Present position: Research Scientist Associate, Bureau of Economic Geology, The University of Texas at Austin (March 2016 - present). Creation of regional subsurface models for the Bakken, Barnett, Haynesville, Fayetteville, and Marcellus Unconventional Reservoir Shale Production and Reserve Studies. Creation of a regional and reservoir 3D integrated geocellular models of the West Texas Permian Basin, including the Midland and Delaware basins. Creation of reservoir scale 3D integrated seismic-to-simulation models of conventional oil and gas reservoirs of the Central Basin Platform.

Previous position: CEO, Austin GeoModeling (Aug 1996 – Jan 2016). Executive with 22 years of domestic and international experience in operations, P&L oversight, software design and development, multi-channel product distribution, and sales & marketing involving both multinational and start-up organizations. Proven success in reservoir characterization consulting for super-major and independent oil & gas exploration and production companies. Track record of increasing sales and growing bottom line while spearheading operational improvements to drive productivity and reduce costs. Experience in mergers & acquisitions negotiations resulting in successful sale of business to a large software company.

Areas of Expertise

Senior 3D geological modeling advisor focused in performing subsurface reservoir characterization research on conventional and unconventional carbonate and clastic fields through the integration of outcrop, core, seismic, well log, and engineering data into multidisciplinary, integrated 3D models. These 3D reservoir models are created using state-of-the-art proprietary and industry-standard software techniques - including data analysis, geostatistics, machine learning, and artificial intelligence, for the purpose of building descriptive and predictive models used for subsequent research including 3D reservoir simulation and well productivity analysis.

- 3D geological interpretation and modeling
- Integrated reservoir characterization
- Petroleum Geology
- Petroleum Engineering
- Carbonate sequence stratigraphy
- Conventional and unconventional reservoir exploration and development
- Oil field exploration and production reservoir management
- Software development

3D Models & Interpretations

1. Bakken shale (DOE) (2017)
2. Barnett shale (DOE) (2017)
3. Haynesville shale (DOE) (2017)
4. Fayetteville shale (DOE) (2017)
5. Marcellus shale (DOE) (2017)
6. Midland basin (TORA) (2017)
7. Delaware basin (TORA) (2017)
8. Fort Worth Basin Ellenburger (Texnet-CISR) (2017)
9. Fort Worth Basin Azle Area (Texnet-CISR) (2017)
10. Fort Worth Basin Johnson County (Texnet-CISR) (2017)
11. Fasken Ranch - 3D seismic interpretation and well log correlation in the Fasken Ranch study area (RCRL, with Charlie Kerans) (2018)
12. Permian Basin - Integration of regional faults into a regional structural framework for the Permian basin (RCRL, Texnet-CISR) (2018)
13. Midland basin - 2nd generation Regional 3D model {TORA) (2018)
14. Delaware basin - Bone Springs & Wolfcamp, Sealed faulted framework {TORA) (2018)
15. Delaware basin - Delaware Mountain Group, Regional 3D model for reservoir simulation (CISR) (2018)
16. Fort Worth basin Ellenburger - 2nd generation Regional 3D Sealed faulted framework for reservoir simulation (CISR) (2018)
17. Midland basin - Fasken Area, Basement-to-Surface, Shelf-to-Basin sealed faulted framework (RCRL) (2018)

18. Central Delaware Basin - Wolfcamp A, XYZ sands (Shell operating area) 3D model for Steve Ruppel based on his sequence stratigraphic interpretations (SUTUR) (2018)
19. Permian Super Basin Regional model (RCRL) (2019)
20. Northern Delaware Regional model (RCRL) (2019)
21. Central Delaware basin - Creation of detailed 3D sequence stratigraphic framework and 3D model of the Wolfcamp in Shell study area (SUTUR2, with Steve Ruppel) (2018)
22. Delaware Basin Red Tank detailed model: Wolfcamp channel-to-fan complex (RCRL) (2019)
23. Northern Delaware Basin detailed model: X & Y sands and Wolfcamp fans (RCRL) (2019)
24. Austin Chalk Regional model (RCRL) (2019)
25. Eagle Ford Regional model (MSRL) (2019)
26. Hobbs Reservoir model (CBP) (2020)
27. Johnson Reservoir model (CBP) (2020)
28. Cogdell Reservoir model (Horseshoe atoll) (2020)
29. SACROC Reservoir model (Horseshoe atoll) (2020)
30. Fasken Ranch Wolfcamp Regional model (2020)
31. Fasken Ranch Grayburg / San Andres Regional model (2020)
32. Midland Farms Reservoir Model (RCRL) (2020)
33. Hydraulic Fracture Test Site 1 Midland Basin (FRAC) (2020)

Teaching and Advising

Oil Company and External Training

1. Parsley Energy Petrel training (2017)
2. Texas A&M Petroleum Engineering Department Petrel knowledge transfer (2017)
3. Southwest Research Institute Petrel model review (CISR) (2017)
4. Lime Rock Petrel model review (2017)
5. Encana Petrel training (2017)
6. XTO/XOM Petrel model review (CISR) (2017)
7. IKON sciences and Fairfield Geotechnologies Red Tank 3D and Delaware Basin Petrel model reviews (TORA & RCRL) (2018)
8. Southwest Research Institute Eagle Ford Petrel model review (CISR) (2018)
9. Parsley Energy hydraulic fracture simulation support (2019)
10. Devon facies modeling and geostatistics support (2019)
11. Chevron 3D modeling support (2019)
12. Greenhill & Co exploration workflow advice (2019)
13. Apache Permian Basin model review (2019)
14. ConocoPhillips Geomodeling review (2020)
15. BP Permian Basin geology review (2020)
16. Diamondback Permian Basin Geomodeling review (2020)
17. Ovintiv (Encana) Paleoscan Seismic Interpretation review (2020)
18. Oxy Petrel model review (2020)

BEG Internal Training

1. Multiple Schlumberger Petrel training sessions with BEG Post-doctoral researchers, graduate students, and support staff (since 2016)
2. Mentoring of 3D geomodelers and research science associates on Petrel 3D geomodeling software and its implementation in the TORA, Texnet-CISR, RCRL, and MSRL projects (Jan – May 2019).
3. Mentoring of UT DGS personnel on Schlumberger Petrel and Eliis Paleoscan software applications.
4. Mentoring of STARR and DOE-Seminole reservoir simulation engineers on Eclipse – Petrel integration workflows for EOR simulation (2019)
5. Presentation on collaborative 3D geomodelling initiatives at BEG Delaware Basin Workshop Seminar, Jan 2019

Short Courses

1. Applied Reservoir Characterization in Carbonates, RCRL Spring Workshop, April 18, 2018, Austin, TX (RCRL) (Kerans & Dommisse)
2. Grayburg lowstand ooid grainstone complexes and associated facies in the Midland Farms Unit, Midland Basin, RCRL Annual Meeting Core Workshop, October 21, 2018, Austin, TX (Dommisse & Kerans)
3. 3D Integrated Carbonate Reservoir Characterization and Geomodeling, RCRL Spring Workshop, April 30, 2019, Austin, TX (Kerans & Dommisse)
4. Challenges and Potential for Characterization of, and Enhanced Recovery from, conventional Carbonate Reservoirs, Permian Basin, RCRL Spring Workshop, May 12, 2019, Austin, TX (Kerans and Dommisse)

Software Application & Data Management Support

1. Served as BEG point of contact for Schlumberger software donation license renewal and maintenance matters in support of the deployment of the Schlumberger software donation to the University of Texas at Austin by communicating its availability and value-add to various eligible research groups at the University.
2. Instructed and mentored researchers from multiple Jackson School groups on 3D geomodeling methodology, techniques, and workflows, through documentation and knowledge base sharing.
3. Organized meeting to introduce and deploy Fairfield 3D seismic donation to BEG researchers.
4. Aided in the deployment and support of Eliis Paleoscan geomorphology-based seismic interpretation software to BEG and DGS.
5. Deployed Cegal Blueback plugin solutions for Petrel:
    a. Blueback investigator: data analysis & visualization
    b. Stochastic inversion
    c. Velocity modeling
    d. Rock physics

    e. Seismic reservoir characterization
    f. Reservoir engineering
6. Exchange of structural interpretations and stratigraphic correlations in Permian Basin 3D modeling projects (RCRL, MSRL, TORA, Texnet-CISR)
7. Deployed Schlumberger Petrel Plugin Modules
    a. GPM - Geological Process Modeling; forward modeling
    b. Kinetix Shale – Hydraulic fracture simulation
    c. Ephesia - DeeSse Multipoint Statistics Simulation
    d. Ephesia - Pluri-Gaussian Simulation
    e. MultiWellCorrelation – automated well log correlation
    f. Shale Volumetrics – hydrocarbon-in-place calculations

Presentations

Industry Associates & Funded Research Annual Meeting Presentations

- Dommisse et al: DOE Haynesville (2017)
- Dommisse et al: DOE Fayetteville (2017)
- Dommisse et al: DOE Marcellus (2017)
- Dommisse et al: TORA Permian Basin (2017)
- Dommisse et al: CISR Fort Worth Basin (2017)
- Dommisse et al: RCRL (2017)
- Dommisse et al: 3DRP (2017)
- Dommisse et al: 3D stratigraphic modeling of Lower Permian plays in the Permian Basin, March 20, Austin, TX (MSRL)
- Dommisse, R., Delaware Basin 3D Model and TORA models, April 26, Austin, TX (TORA)
- Dommisse, R., 3D Integrated Geocellular Model of the Delaware Basin, November 1-2, Austin, TX (TORA)
- Robin Dommisse, Charlie Kerans, Chris Zahm, Frank Male: Fasken Ranch: Integrated Reservoir Characterization using Cores, Logs, Seismic, and Production Data, October 21-26, 2018, Austin TX (RCRL)
- Charlie Kerans, Robin Dommisse: Tectono-Stratigraphic Evolution of the Eastern Margin of the Central Basin Platform with a focus on Guadalupian Stratigraphy, October 21-26, 2018, Austin TX (RCRL)
- Amin Gherabati, Robin Dommisse et al: Well Spacing and Undrilled {Future) Well Inventory in the Midland Basin, November 1-2, Austin, TX (TORA)
- Chris Zahm, Charles Kerans, Robin Dommisse, Stonnie Pollock, Ron Bianco: Fault Systems on the Central Basin Platform Margin and the Significance to Early Permian Stratigraphy, October 21-26, 2018, Austin TX (RCRL)

- Scott Hamlin, Katie Smye, Robin Dommisse et al: Bakken Unconventional Petroleum System Geology, Petrophysics, and 3D Modeling, November 1-2, Austin, TX (TORA)
- Chris Zahm, Buddy Price, Xavier Janson, Robin Dommisse: Structural Styles on the Northeastern Flank of the Delaware Basin, October 21-26, 2018, Austin TX (RCRL)
- Xavier Janson, Chris Zahm, Buddy Price, Robin Dommisse, Jacob Covault, Dallas Dunlap: Seismic Geomorphology of the Permian Shelf to Basin in the Northern Delaware Basin, October 21-26, 2018, Austin TX (RCRL)
- Dommisse et al, Permian Basin geomodelling overview for Shell, March 1, 2018, Houston (TORA)
- Presented TORA-focused research results at MSRL, Texnet-CISR, RCRL, and SUTUR annual meeting for the purpose of identifying prospective TORA sponsors.
- Dommisse et al, Visit to IKON & Fairfield to discuss donation of 3D seismic in Delaware Basin Red Tank area, March 1, 2018, Houston (TORA & RCRL)
- Dommisse, R., RCRL Permian Basin Wolfcampian Through Guadalupian Geomodels
- Kerans, C., Dommisse, R., Comparative patterns of Delaware and Midland Basin stratigraphy; 40 my record of deposition, bypass, erosion, and starvation (RCRL)
- Kerans, C., Janson, X., Price, B., Draper, C., Dommisse, R., Permian Core Workshop (RCRL)
- Price, B., Janson, X., Kerans, C., Dommisse, R., Mixed calciclastic and siliciclastic submarine fans: classification and implications for reservoir variability, Delaware Basin, southeast New Mexico, and West Texas (RCRL)
- Dommisse, R., 3D modeling of the Delaware and Midland Basins (MSRL)
- Dommisse, R., Integrated 3D geomodel for the Eagle Ford Shale (MSRL)
- Dommisse et al, Integrated 3D model of Delaware Wolfcamp, SUTUR2 funded research project final meeting, June 6, 2019, Shell, Houston
- CRC Stoneburner Rock Garden audio tour: performed voice recording of the Dutch language version (Jay Kipper)
- Dommisse, RCRL Delaware Basin models presentation at BEG Delaware Basin Workshop Seminar, Jan 2019
- Dommisse, 3D Modeling in US Shales presentation to Jackson School Advisory Committee, April 12, 2019
- Poster presentations at BEG 3E Conference, Oct 18, 2019
  - "3-D Integrated Geological Models of the Permian Basin, Texas"
  - "3-D Integrated Geological Models of the Major US Shale Plays"
  - "Interpretable Machine Learning for Tight Oil Well Productivity"
- Contributed to RCRL Delaware Basin cross-section presented by Charlie Kerans at AGU Fall Meeting, Dec 2019, San Francisco, CA ("*Forty million year record of icehouse-greenhouse mixed clastic-carbonate deposition; Implications for carbonate-clastic interactions and reservoir systems, Permian of Permian Basin, TX-New Mexico*") (RCRL)

- SUTUR2 funded research project final meeting, Shell, June 6, 2019, Houston
- Petrel model review for Railroad Commission (2017)

Invited Presentations

- Permian Basin Permian Basin TORA 3D Model: presented to Apache Permian Basin asset team and Apache Houston technology team, Midland, TX, February 13, 2018
- 3D Facies, Petrophysical Models, and Volumetrics of Spraberry and Wolfcamp Tight Oil Reservoirs of the Midland Basin: presented to Shell, Houston, TX, March 1, 2018
- Resource Assessment, Data, Analytics in Making Better Decisions: presented to American Business Conferences, presented at Horizontal Drilling Efficiency Congress, Houston, TX, May 16-17, 2018.
- Advances in Obtaining Optimum Well Results in Permian Basin Tight Oil Resource Plays: presented to American Business Conferences, presented at Permian Basin Frac Design & New Completions Technologies 2018, Houston, TX, July 19-20, 2018.
- Wolfberry and Wolfbone Resource Assessment: Outcrop and Core to Geocellular Models and Economic Outlooks: presented to West Texas Geological Society, presented at 2018 West Texas Geological Society Fall Symposium: A Decade of Shale, Midland, TX, September 26-27, 2018.
- Regional Geomodels for Reserves Assessments of the Permian Basin: presented to EIA, Austin TX, February 26, 2018
- Fort Worth & Permian Basin Integrated 3D Models: presented to ExxonMobil URC Induced
- Seismicity team, CISR meeting, Austin, TX, February 28, 2018
- TORA 3D Model: presented to Apache Permian Basin asset team and Apache Houston technology team, Midland, TX, February 13, 2018
- 3D Facies, Petrophysical Models, and Volumetrics of Spraberry and Wolfcamp Tight Oil Reservoirs of the Midland Basin: presented to Shell, Houston, TX, March 1, 2018
- Resource Assessment, Data, Analytics in Making Better Decisions: presented to American Business Conferences, presented at Horizontal Drilling Efficiency Congress, Houston, TX, May 16-17, 2018.
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- Wolfberry and Wolfbone Resource Assessment: Outcrop and Core to Geocellular Models and Economic Outlooks: presented to West Texas Geological Society, presented at 2018 West Texas Geological Society Fall Symposium: A Decade of Shale, Midland, TX, September 26-27, 2018.
- Regional Geomodels for Reserves Assessments of the Permian Basin: presented to EIA, Austin TX, February 26, 2018

- Fort Worth & Permian Basin Integrated 3D Models: presented to ExxonMobil URC Induced
- Seismicity team, CISR meeting, Austin, TX, February 28, 2018
- Encana, exploration team & Permian business unit, “BEG Petrel 3D Modeling workflows”, May 9, 2019
- Anadarko, Permian Basin Asset team, “RCRL Delaware Basin Regional Geomodel”, June 9, 2019
- Presentation to Shell, Feb 2019, Permian Basin group (representing TORA, MSRL, and RCRL)
- Presentation to Fairfield Geotechnologies, Jan – Mar 2019, Delaware Basin Red Tank data acquisition discussions (TORA & RCRL)

Activities of a Professional Nature

Peer Reviewing, Journals

- Interpretation Journal (SEG & AAPG)

Peer Reviewing, Conferences

- Reviewer for AAPG ACE 2021 Unconventional resources: Basin and Play Scale Characterization of Unconventional Reservoirs

Professional Societies Membership

- American Association of Petroleum Geologists (AAPG)
- Society of Petroleum Engineers (SPE)
- Society of Exploration Geophysicists (SEG)
- West Texas Geological Society (WTGS)

Awards

- Best Paper Award from AAPG’s Division of Environmental Geosciences (DEG). Hennings, P., Savvaidis, A., Nicot, J.P., Eichhubl, P., Lemons, C., Smye, K., Horne, E., Dommisse, R. and Callahan, O., *The Geology of Active Earthquake Sequences in Texas*. In 2019 AAPG Annual Convention and Exhibition.

Publications

Peer Reviewed Journal Articles

Chen, R., Xue, X., Park, J., Yao, C., Chen, H., Datta-Gupta, A., King, M.J., Hennings, P. and Dommisse, R., 2020. Coupled Fluid Flow and Geomechanical Modeling of Seismicity in the Azle Area (North Texas). SPE Reservoir Evaluation & Engineering.

Hennings, P. H., Lund Snee, J.-E., Osmond, J. L., DeShon, H. R., Dommisse, R., Horne, E., Lemons, C., and Zoback, M. D., 2019, Injection-induced seismicity and fault-slip potential in the Fort Worth Basin, Texas: Bulletin of the Seismological Society of America, v. 109, no. 5, p. 1615–1634

Conference Proceedings

Dommisse, R., Male, F., Hamlin, H. S., and Sivila, L., 2018, The Value of Building a Multiscale, Regional Geomodel for Reserves Assessment of the Midland Basin, https://library.seg.org/doi/ref/10.15530/urtec-2018-2902841, Unconventional Resources Technology Conference, Houston, Tex., 11 p.

Dommisse, R., Janson, X., Male, F., Price, B., Payne, S. and Lewis, A., 2019, October. An Integrated, Multiscale Geomodel of the Northern Delaware Basin. In Unconventional Resources Technology Conference, Denver, Colorado, 22-24 July 2019 (pp. 1751-1759). Unconventional Resources Technology Conference (URTeC); Society of Exploration Geophysicists.

Dommisse, R., Kerans, C., Zahm, C.K., Pollock, S., Bianco, R., Draper, C. and Wahlman, G., 2018. Contrasting Styles of Basin Fill and Shelf Margin Stacking, Wolfcampian-Leonardian-Guadalupian Succession, Eastern Margin of Central Basin Platform and Western Midland Basin, Fasken Ranch Area, West Texas. In AAPG ACE 2018.

Dommisse, R., Janson, X., Male, F., Price, B., Payne, S., and Lewis, A., 2019, An Integrated, Multiscale Geomodel of the Northern Delaware Basin, SPE/AAPG/SEG Unconventional Resources Technology Conference.

Dommisse, R., Kerans, C., Zahm, C., Male, F., Pollock, S., and Bianco, R., 2019, 3-D Integrated Geological Model Construction of Fasken Ranch Area, Midland Basin, Texas, AAPG Annual Convention and Exhibition.

Dommisse, R., 2019, Regional 3D Geomodel Examples of the Permian Basin, West Texas Geological Society, Fall Symposium.

Kerans, C., Dommisse, R., Rush, J., and Waite, L., 2019, Contrasting Guadalupian Infill Histories of the Midland and Delaware Basins, AAPG Annual Convention and Exhibition.

Janson, X., Price, B., Covault, J., Dommisse, R., and Dunlap, D. B., 2019, Seismic Geomorphology of Permian Shelf Margin, Slope and Basin in the Northern Delaware Basin, 2019 AAPG Annual Convention and Exhibition.

Zahm, C., Kerans, C., Janson, X., Dommisse, R., and Price, B., 2019, Basement-Rooted Fault Systems of the Midland and Delaware Basins and Their Influence on Early Permian Facies Distributions, 2019 AAPG Annual Convention and Exhibition.

Fairhurst, B., Dommisse, R., Hamlin, S., Carr, D., Gherabati, A., Male, F., Ikonnikova, S. and Yurchenko, I., 2019, Reservoir 3-Dimensional Characterization Models for Wolfberry and Wolfbone Unconventional Resource Assessment, AAPG Southwest Section Annual Convention.

Hennings, P., Savvaidis, A., Nicot, J.-P., Eichhubl, P., Lemons, C., Smye, K. G., Dommisse, R., and Callahan, O., 2019, The Geology of Active Earthquake Sequences in Texas, AAPG Annual Convention and Exhibition.

Nicot, J.-P., Gao, R., Hennings, P., and Dommisse, R., 2019, Basin-scale hydrogeological modeling of the Fort Worth Basin Ellenburger Group for pore pressure characterization (abs.): AAPG Annual Convention & Exhibition, San Antonio, Tex., 19-22 May

Callahan, O., Eichhubl, P., Hennings, P., Smye, K. G., Horne, L., Breton, C., Dommisse, R., Savvaidis, A., and Lemons, C., 2019, Texas Basement Synthesis Project: Understanding Geological Risk Factors of Basement-Involved Seismicity, 2019 AAPG Annual Convention and Exhibition.

Hamlin, H. S., Smye, K. G., Dommisse, R., Lemons, C., McDaid, G., and Eastwood, R., 2017, Geology and petrophysics of the Bakken Unconventional Petroleum System, Unconventional Resources Technology (URTeC) Conference, Austin, Tex., 24-26 July, 14 p.

Lemons, C., Hennings, P., Dommisse, R., Nicot, J.-P., and Smye, K. G., 2017, Protocols and common pitfalls in disposal data handling for induced seismicity geomodels, Unconventional Resources Technology Conference (URTeC), Austin, Tex., 24-26 July, SEG-AAPG-SPE Paper #2667788.

Handford, C.R., Keith, T.H., Mueller, H.W. and Dommisse, R., 2003. Sequence stratigraphic framework and depositional systems of the Arab-D reservoir in Ghawar field, Saudi Arabia. In American Association of Petroleum Geologists Annual Meeting, Salt Lake City, Abstract A (Vol. 70).

Published Abstracts

Dommisse, R., Kerans, C., Zahm, C., Pollack, S., Bianco, R., Draper, C., and Wahlman, G., 2018, Contrasting styles of basin fill and shelf margin stacking, Wolfcampian-Leonardian-Guadalupian succession, eastern margin of Central Basin Platform and Western Midland Basin, Fasken Ranch Area, West Texas (abs.): AAPG ACE 2018, 1 p.

Callahan, O.A., Eichhubl, P., Hennings, P.H., Smye, K., Horne, E.A., Savvaidis, A., Huang, G.C.D., Li, P., Lemons, C., Breton, C. and Dommisse, R., 2019, March. TEXAS BASEMENT SYNTHESIS PROJECT: CHARACTERIZING GEOLOGICAL RISK FACTORS OF BASEMENT-INVOLVED SEISMICITY. In Joint 53rd South-Central/53rd North-Central/71st Rocky Mtn Section Meeting-2019. GSA.

Gao, R., Nicot, J.-P., Dommisse, R., and Hennings, P., 2018, Basin-Scale Hydrogeological Modeling of the Fort Worth Basin Ellenburger Group for Pore Pressure Characterization (abs.): Abstract H211-1751, presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec.

Chen, R., Xue, X., Yao, C., Datta-Gupta, A., King, M.J., Hennings, P. and Dommisse, R., 2018, September. Coupled Fluid Flow and Geomechanical Modeling of Seismicity in the Azle Area North Texas. In SPE Annual Technical Conference and Exhibition. Society of Petroleum Engineers.

Fairhurst, B., lkonnikova, S., Dommisse, R., Hamlin, H. S., Carr, D. L., Eastwood, R., Gherabati, A., Male, F., Browning, J., del Carpio Neyra, V., Vankov, E., and Yurchenko, I., 2018, Wolfberry and Wolfbone resource assessment: outcrop and core to geocellular models and economic outlooks (abs.): West Texas Geological Society, Fall Symposium: A Decade of Shale, v. 18, p. 23-24.

Hennings, P., Osmond, J., Dommisse, R., and Nicot, J.-P., 2018, Development of a deterministic seismicity potential assessment of the Fort Worth Basin (abs.): 20- 23 May, AAPG Annual Convention & Exhibition, Salt Lake City, Utah.

Nicot, J.-P., Gao, R. S., Dommisse, R., and Hennings, P., 2017, Basin-scale hydrogeological modeling of the Fort Worth Basin Ellenburger Group for pore pressure characterization (abs.): Abstract H53A-1428 presented at 2017 Fall Meeting, AGU, New Orleans, La., 11-15 Dec.

Hamlin, H.S., Smye, K., Dommisse, R., Eastwood, R., Lemons, C.R. and McDaid, G., 2017, September. Geology and petrophysics of the Bakken unconventional petroleum system. In Unconventional Resources Technology Conference, Austin, Texas, 24-26 July 2017 (pp. 1294-1307). Society of Exploration Geophysicists, American Association of Petroleum Geologists, Society of Petroleum Engineers.

Lemons, C.R., Hennings, P.H., Dommisse, R., Nicot, J.P. and Smye, K., 2017. Protocols and Common Pitfalls in Disposal Data Handling for Induced Seismicity Geomodels. Unconventional Resources Technology Conference (URTEC).

Dommisse, R., 2013, August. 3-D geological interpretation examples in unconventional shale reservoirs. In Unconventional Resources Technology Conference (pp. 2308-2313). Society of Exploration Geophysicists, American Association of Petroleum Geologists, Society of Petroleum Engineers.

Zeng, H., John, A., Jackson, K.G. and Dommisse, R., 2011, August. Stratal Slice: A tool for seismic sedimentologic imaging and reservoir prediction. In 12th International Congress of the Brazilian Geophysical Society (pp. cp-264). European Association of Geoscientists & Engineers.

Dommisse, R., 1993. Fundamental Geological and Engineering parameters for 3-D modeling and simulation of Carbonate Ramp Reservoirs, 1993 Symposium on 3-D Reservoir Characterization. May 1993, Houston

Major, R.P., Holtz, M.H. and Dommisse, R.D., 1992. CALIBRATION OF POROSITY LOGS AND DELINEATION OF. In Permian Basin Exploration and Production Strategies: Applications of Sequence Stratigraphic and Reservoir Characterization Concepts; West Texas Geological Society, Inc. Symposium, November 5-6, 1992 (No. 91-92, p. 100). The Society.

Contract Reports

Update and Enhancement of Shale Gas Outlooks: Barnett, Haynesville, Fayetteville, Marcellus Shale Plays, Final Report by the Bureau of Economic Geology, University of Texas at Austin for the Department of Energy, edt. Svetlana lkonnikova and Katie Smye, September 2018

Gale, J. F. W., Baumgardner, R., Bhandari, A., Darvari, R., Dommisse, R., Eichhubl, P., Elliott, S. J., Fall, A., Flemings, P., Hamlin, H. S., Landry, C. J., Mohanty, K., Nicot, J.-P., Polito, P., Prodanović, M., Ramiro-Ramirez, S., Reed, R. M., Rowe, H., Ruppel, S. C., and Sivil, J. E., 2019, Multi-faceted study of water cut in the Permian Wolfcamp in the Delaware Basin, West Texas: final report prepared for Shell, under contract no. UT OSP# 201503146-001, 292 p.

2018 Biennial Report on Seismic Monitoring and Research in Texas (3D modeling contributions)

2020 Biennial Report on Seismic Monitoring and Research in Texas (3D modeling contributions)

Role of Shale Oil in the U.S. Energy Transition: Recoverable Resources, Production Rates, and Implications, Final Report to the Alfred P. Sloan Foundation, September 2016, Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas

Bakken DOE study: 3D modeling of the Bakken and Three Forks formations (2017)

Course Notes

Kerans & Dommisse, "Applied Reservoir Characterization in Carbonates", RCRL Spring Workshop, April 18, 2018, Austin, Texas, 174 p.

Dommisse & Kerans, "Grayburg lowstand ooid grainstone complexes and associated facies in the Midland Farms Unit, Midland Basin", RCRL Annual Meeting Core Workshop, October 21, 2018 Austin, Texas

Kerans, C., and Dommisse, R., 2019, “3D Integrated Carbonate Reservoir Characterization and Geomodeling”, RCRL Spring Workshop, April 30, 2019, Austin, Texas, 292 p.

Kerans, C., and Dommisse, R., 2020, “Challenges and Potential for Characterization of, and Enhanced Recovery from, Conventional Carbonate Reservoirs, Permian Basin”, RCRL Spring Workshop, May 11, 2020, Austin, Texas, 302 p.

Non-Peer Reviewed Journal Articles

Dommisse, R. and Chambers, H., 2005. Real-time geology. Hart's E & P, 78(8), pp.73-75.

Dommisse, R., 2002. Next Generation 3-D Geological Interpretation, November 2002, American Oil & Gas Reporter

Professional Service & Program Development

- Wrote proposal for Schlumberger Petrel University donation grant. Collaborated with Mark Shuster & Ian Duncan in collecting scientific software requirements from all BEG research groups and preparing the grant request application resulting in the donation by Schlumberger of $89 million in software to the University of Texas Jackson School of Geosciences Department of Geology and the Bureau of Economic Geology.
- Negotiated donation by Velocity Databank of Houston of the Permian Basin regional velocity model to the University of Texas.
- Wrote proposal for Apache North Monument Grayburg / San Andres Unit Waterflood and CO2-EOR project, Central Basin Platform: led effort to author scope-of-work proposal, project plan Gantt chart, and detailed budget and cost estimates (with Kerans, C., and Duncan, I.)
- Led 3D Geomodeling subgroup meetings for BEG geomodelers and data scientists, Jan-May 2019 (avg 5 participants, weekly meetings)
- Assisted Emery Goodman and Mark Shuster with GeoStar seismic data licensing acquisition process (due diligence & exclusive acquisition justifications).
- Instructed and mentored researchers from multiple Jackson School groups on 3D geomodeling methodology, techniques, and workflows; through documentation and knowledge base sharing.
- Assisted UT DGS students with AAPG Imperial Barrel Award Petrel support questions.
- Aided in the deployment and support of Eliis Paleoscan geomorphology-based seismic interpretation software to BEG and DGS.
- Negotiated donation of Cegal Blueback reservoir Petrel plugin software.
- Negotiated donation of Seisware Geophysics and Geology software.
- Organized online seminar for BEG Basin Modeling domain experts with Schlumberger Geological Process Modeling (GPM) team from Aachen, Germany.
- Peer review of 3D geological models:
  - Eagle Ford geomodel (TORA), May 15, 2019 & April 20, 2020
  - Marcellus geomodel (TORA), May 15, 2019
  - Bakken geomodel (TORA), Dec 5, 2019
- Industry Associates Program Marketing contributions (RCRL)
  - Contributed slides to RCRL marketing prospectus
  - Contributed video content for RCRL Twitter account
  - Contributed original RCRL content for LinkedIn outreach feed
  - Designed RCRL IA Sponsor Account Renewal spreadsheet
  - Designed RCRL Power-BI dashboard for Account Renewal spreadsheet
- IA membership prospecting Presentation to Total: resulting in Total joining IA, May 19, 2019 (MSRL)
- IA membership prospecting Presentation to Parsley: resulting in Parsley joining IA, Sep 17, 2019 (RCRL)

Patents

- Dommisse, R. and Isaksen, T., Austin Geomodeling Inc, 2011. Method and system for dynamic, three-dimensional geological interpretation and modeling. U.S. Patent 7,986,319.
- Dommisse, Robin, and Tron Isaksen. "Method, system and computer readable medium for scenario management of dynamic, three-dimensional geological interpretation and modeling." U.S. Patent Application No. 13/666,757.

Geoscience Software Proficiency

3D Interpretation & Modeling Applications

- Schlumberger Petrel 3D Modeling and Reservoir Engineering
- Eliis Paleoscan Seismic and Geomorphological interpretation
- AGM/SeisWare RECON 3D Geological Interpretation
- Paradigm SKUA/GoCad 3D Modeling
- Emerson Roxar RMS 3D Modeling

IHS

- IHS Petra Geological Interpretation Software
- IHS Kingdom Seismic and Geological Interpretation Suite (formerly SMT Kingdom suite)

Halliburton/Landmark

- OpenWorks R5000 Data Management (Oracle database)
- DecisionSpace Application Environment
- SeisWorks 2D/3D Seismic Interpretation
- Stratamodel 3D Geocellular Modeling
- StratWorks Well Log Correlation
- Z-Map Plus Surface Modeling
- PetroWorks Petrophysical Interpretation
- DSS Production Data Analysis
- Nexus Reservoir Simulation

Schlumberger

- GeoFrame Data Management & Application Environment
- Finder Data Management
- CPS-3 Surface Modeling
- FloGrid Upscaling

- Eclipse Reservoir Simulation

Other interpretation systems

- SeisWare Geophysical Interpretation Suite
- LMKR GeoGraphix Exploration System

General Productivity Software

- Microsoft Office Suite (Word, Excel, Powerpoint, Publisher, Access)
- Adobe Creative Cloud Master Suite (including Premiere video editing, Photoshop image editing, Dreamweaver website authoring, After Effects digital motion graphics, Acrobat publishing, InDesign desktop publishing, and Illustrator drawing)