

## David T. McGee

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**Qualifications:** Worked in many of world's shelf and deepwater plays for 32 years on exploration through development projects. Experienced in all phases of the deepwater play's life cycle resulting, in a rounded perspective that can come to bear on any project. Recently working conventional and unconventional plays in the Neuquen, Arkoma, Permian, North Sea and West African basins as a seismic stratigrapher and regional geologist.

Experienced in the application of technology to problems for maximum benefit including: 1) seismic stratigraphy; 2) Landmark, Stratimagic, GeoProbe, VoxelGeo, TerraSpark, GeoTeric, Petrel and Shell seismic interpretation, attribute analysis and image processing for exploration and development projects; 3) acoustic impedance inversion for reservoir-scale reservoir architecture and pay prediction; 4) structural reconstruction software for fault geometries and trap analysis; 5) gravity modeling; 6) EarthVision, Roxar, Petrel and Shell reservoir modeling software to integrate data and build static reservoir models for deepwater fields/discoveries; 7) ArcGIS tools for mapping and data integration; and 8) decision analysis techniques to determine optimal minibasin scale exploration/development strategies and well planning decisions.

Experienced in working on integrated teams of geologists, geophysicists and engineers that were empowered to make decisions and were accountable for results. Served as team leader and/or lead geologist for four of these teams utilizing effective team/leadership skills working on a variety of scales and problems.

### Work History

#### **2016 – present: Principal Geologist, AIM Geoanalytics, Missoula, Montana**

- Consultant available for seis-strat, integrated interpretation and training projects
- Geologic Advisor for client and internal technical projects

#### **2014 - 2016: Senior Lead Seismic Geologist, Maersk Oil, Copenhagen, Denmark**

- Exploration Geoscience Team
  - Worked on seismic stratigraphy projects throughout the company, teaching interpretation methods courses and mentoring 3 younger staff and teaching experienced staff new techniques
- West Africa New Ventures Team working Mauritania, Senegal, Congo and Gabon Basins
  - Play Analysis, Regional integrated interpretation, opportunity assessment
  - Presented opportunities and regional context to management providing recommendation on business actions

#### **2011 - 2013: Senior Geologic Advisor, Apache Corporation, Exploration Production Technology**

- Seismic stratigrapher working projects and developing workflows for the region offices
- Worked: Deepwater, Gulf of Mexico; Deepwater Kenya; Neuquen Basin; offshore New Zealand; Permian and Arkoma Basins
- Mentoring of 3 younger staff
- Part-time member of a quality assurance team reviewing region projects
- College recruiting, interviewed ~ 75 candidates in 2011 and hired 3.
- Taught Deepwater Depositional Systems and PETREL workshops internally and at the University of Montana

#### **2010 - 2014: Instructor for Nautilus Deepwater Interpretation Workshops, Houston, Texas**

- Lectures and exercises
- Co-taught with Lesli Wood (University of Texas and Colorado School of Mines)

**2003 – 2011: Geologic Advisor/Principal Geologist, ConocoPhillips Subsurface Technology (Conoco EPT-IIC, 2000 - 2003), Houston, Texas**

- Led deepwater sedimentology and stratigraphy research efforts focusing on exploration scale sand predictions and reservoir architecture, integrated with key academic researchers
- Stratigraphic interpretation of exploration blocks in deepwater Nigeria
- Constructed pre-drill geocellular models for deepwater Nigerian prospects
- Co-lead and participated in numerous field seminars including SE France, Lewis Shale, Rosario Fm., Argentina, Chile, South Africa, Italy and Canada. Specialized in outcrops as analogs
- Responsible for corporate stratigraphic analog database including building and applying over 120 deepwater analogs
- Member of team that updated Chota reserves post Bolia 1X and Chota-2 appraisal wells
- Constructed PETREL geocellular models for Chota (Nigeria) Field integrating my core description and seismic interpretation
- Consulted on exploration/appraisal/development projects throughout the company including K2, Ursa (GOM deepwater), Morrow incised valleys, Algerian fluvial, Alaskan slope plays and Greater Britannia exploration and development (North Sea)
- Participated in Peer Reviews for Projects throughout company (E. Africa, Brazil, Black Sea and S. TX)
- Mentored 6 interns and 4 new hires, informally mentored staff throughout the company
- Supervised a summer student from the CSM Slope and Basin Consortium working on reservoir modeling of the Magnolia Field
- Supervised 2 NAPIMS staff from Nigeria working on special projects
- Participated in developing and teaching Conoco's Stratigraphic Best Practices Seminar and ConocoPhillips' New Hire Training

**2000: Advising Geologist, Unocal Indonesia, Balikpapan, Lead Development Geologist for Seno Field**

- Responsible for reservoir characterization within field.
- Developing reservoir modeling workflow for Seno and future deepwater projects with sparse well control and varying uncertainty.
- Responsible for reserve re-evaluation and development well planning.
- Consulted on use of analogs within deepwater community in Unocal.
- Lead Unocal's Brushy Canyon Field Seminar.

**1997-2000: Advising Geologist, Spirit Energy (Unocal), Sugar Land Area Geologist for Central Gulf of Mexico, Deepwater**

- Generated and evaluated 35 leads and prospects plus existing leasehold
- Developed stratigraphic models and basin fill histories for Central OCS sale area.
- Evaluated farm-in opportunities including Mad Dog, which resulted in Spirit's participation in the discovery and a Chairman's award for me
- Mapped abyssal plain stratigraphy in support of Mad Dog evaluation
- Developed and lead Unocal's Brushy Canyon Field Seminar

**1996-1997: Senior Geologist, Shell E&P Technology Company, Houston, Reservoir Modeling and Deepwater Reservoir Prediction**



- Lead Shell's deepwater outcrop as analogs effort.
- Participated in continued development of Shell reservoir modeling software
- Constructed reservoir models for Bullwinkle Field and Kepler discovery
- Supervised a summer student from the CSM Slope and Basin Consortium working on characterization of the Salt Flat Bench outcrop
- Lead and attended Field trips to the Brushy Canyon, Karoo Basin and Arkansas deepwater outcrops
- Member of the High Rate/High Ultimate Team that developed methodology and best practices for reservoir prediction and risking.

**1990-1 996: Senior Geologist, Shell Offshore Inc., New Orleans, Auger Development**

- Characterized Auger Field using well, seismic and rock data
- Integrated data into reservoir models for development planning and reservoir simulation
- Involved in well planning and operations of exploration and development wells
- Participated in Auger Basin Strategy Study with Strategic Decision Analysis consultants which resulted in the acceleration of drilling of the Macaroni discovery
- Utilized advanced technology and interpretation techniques including: coherency, acoustic impedance inversion tied into stochastic reservoir modeling
- Served as team leader for two well project teams
- Received several team awards for performance

**1987 – 1990: Exploration Geologist, Shell Offshore Inc., New Orleans, Western GOM Deepwater Plays**

- Worked TX and LA deepwater OCS lease sales
- Generated and evaluated ~50 prospects
- Developed sub-regional salt deformation and stratigraphic models for GB, KG, EB OCS protraction areas
- Applied seismic facies techniques to evaluate reservoir type and risk beyond well control

**1985-1987: Geologist, Shell Offshore Inc., New Orleans, GOM Shelf/Deltaic Pliocene Play**

- Well log correlation, sand mapping and interpretation.
- 2-D seismic mapping
- Recommended decision to suspend activity because opportunities did not meet Shell threshold volumes.

**Education**

**1983-1985: University of Oklahoma, Norman, OK**

- M.S. in geology with honors
- Thesis title: Lithostratigraphy and Depositional History of the Upper Dornick Hills Group (Early Desmoinesian, Pennsylvanian) of the Ardmore Basin, Oklahoma

**1979 – 1983: University of Montana, Missoula, MT**

- B.A. in geology with honors
- Received Watkins Scholarship for academic achievement and Senior Thesis: Regional Correlation of the Bonner Formation in the area of Phillipsburg, Drummond, and Clinton, Montana

### Awards

- 2009: ConocoPhillips Mentor of the Year
- 2004: Presented at 2004 SEG as part of a best of AAPG session
- 2000: Chairman's Award, Unocal for the Mad Dog Discovery
- 1994: Best paper at New Orleans Geological Society (NOGS)
- 1993: Runner-up for best paper at Houston Geological Society
- 1982: Watkins Scholarship, University of Montana

### Memberships

- AAPG, SEPM, GCSSEPM, SEG, MGS
- Secretary of NOGS ('95-'96)
- Deepwater organizing chairman for the 2003 SEPM National Convention

### Presentations

- 2016: Seismic Stratigraphy for Quantitative Geophysicists, Maersk Oil
- 2014: New Methodology for Fault Interpretation and Seismic Stratigraphy, Maersk integrated Subsurface Conference
- 2012: Seismic Stratigraphy workflow and demonstration, Apache Technology Conference
- 2011: From sediment routing to fluid flow: Turning doodles into digits: Community Surface Dynamic Modeling Meeting 2010: "Modeling for Environmental Change"
- 2010: Weakly Confined Mimbasin Fill and Depositional Architectures: A Shallow Analog: AAPG Convention, New Orleans
- 2003: From Fill to Spill: Partially Confined Depositional Systems, Magnolia Field, Garden Banks, Gulf of Mexico: AAPG Convention, Salt Lake City. (also given as best of AAPG at 2004 SEG)
- 1999: Brushy Canyon Formation: an Analog for GOM and Kutei Basin, Unocal Technology Conference.
- 1999: Mars and Auger Field Analogs, Unocal Technology Conference.
- 1998: Popo Channel in the Brushy Canyon Formation: an Analog for Cerveza Field, Unocal Technology Conference.
- 1995: Reservoir Characterization Through an Integrated Approach at Auger Field, Deepwater, Gulf of Mexico at RIO '95, Rio de Janeiro, Brazil.
- 1995: Reservoir Characterization of the "5" Sand, Auger Field, Garden Banks 426, 427, 470 and 471 at SEPM Core Workshop No. 20, Houston.
- 1995: Production Performance Exceeds Expectations at Auger Field, Deepwater, Gulf of Mexico, AAPG Convention, Houston
- 1993-1995: Geologic Models and Reservoir Geometries of Auger Field, Deepwater, Gulf of Mexico at AAPG (New Orleans), Houston Geological Society, New Orleans Geological Society, Lafayette Geological Society, International Oil Scouts Association, Asocacion Mexicana de Geologo (Ciudad del Carmen) and 15<sup>th</sup> Annual GCSSEPM Foundation Research Symposium on Submarine Fans and Turbidite Systems.

### Publications

Armitage, D.A., D.W. Piper, D.T. McGee, W.R. Morris, 2009, Turbidite deposition on the glacially influenced, canyon-dominated Southwest Grand Banks Slope, Canada, *Sedimentology*.

Bilinski, P.W., P.T. Crabtree, J.G. Grump, D.T. McGee and R.C. Watson, 1992, Auger Field Subsurface Overview: Future Site of World-Record Deepwater Tension Leg Platform: 67111 Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, Proceedings, paper No. 24701, Washington D.C., p. 387-397



- Bilinski, P.W., D.T. McGee, D.S. Pfeiffer and R.D. Shew, 1995, Reservoir Characterization of the Pink Sand, Auger Field, Garden Banks, 426, 427, 470 and 471, *In: Winn, R.D. Jr. and J.M. Armentrout, (eds.), Society of Economic Paleontologists and Mineralogists Core Workshop No. 20, March 5, 1995, p. 75-93.*
- Kane, I.A., McGee, D.T., Jobe, Z.R., in press, Halokinetic Effects on Submarine Channel Equilibrium Profiles and Implications for Facies Architecture: Illustrated with a Case Study from Magnolia Field, Gulf of Mexico: *Geology Society of London Special Publication.*
- McGee, D.T., 1987, Lithostratigraphy and Depositional History of the Upper Domick Hills Group (Early Desmoinesian, Pennsylvanian) of the Ardmore Basin, Oklahoma, *In: Cooper, C. and L.N. Stout (eds.), Oklahoma Geology Notes, Oklahoma Geological Survey, v. 47, No. 5, p. 232-233.*
- McGee, D.T., P.W. Bilinski, P.S. Gary, D.S. Pfeiffer and J.L. Sheiman, 1994, Geologic Models and Reservoir Geometries of Auger Field, Deepwater Gulf of Mexico, *In: Weimer, P., A.H. Bouma and B.F. Perkins (eds.), 1994, Submarine Fans and Turbidite Systems, Gulf Coast Section, Society of Economic Paleontologists and Mineralogists Foundation, Fifteenth Annual Research Conference Proceedings, December 4-7, 1994, Houston, p. 245-256.*
- McGee, D.T., 1995, Reservoir Characterization Through an Integrated Approach at Auger Field, Deepwater, Gulf of Mexico, The First Latin American Geophysical Union and the Fourth International Congress of the Brazilian Society of Geophysicists, August 20-24, 1995, Rio de Janeiro, Conference expanded Abstracts, p. 797-799.
- McGee, D.T., P.W., Bilinski, P.S. Gary, D.S. Pfeiffer and J.L. Sheiman, 1994, Geologic Models and Reservoir Geometries of Auger Field, Deepwater Gulf of Mexico: MPG Annual Convention Program, New Orleans, p.149.
- McGee, D.T. and D.S. Pfeiffer, 1995, Production Performance Exceeds Expectations at Auger Field, Deepwater Gulf of Mexico: AAPG Annual Convention Program, Houston, p. 63A.
- McGee, D.T., D.S. Moore, G. Wu, D.W. Burge, N. Geier, 2005, Reservoir Modeling, OPL248, Deepwater Nigeria: Facies Characterization, Reservoir Modeling and Performance Prediction of Isolated and Stacked Multi-Story Channel Complexes: EAGE/ SPE joint workshop 'Upscaling and Downscaling of Reservoirs Parameters', Lisbon March 14-16, conference proceedings p. 40.
- McGee, D.T., D.S. Moore, G. Wu, D.W. Burge, N. Geier, 2005, Reservoir Modeling, OPL248, Deepwater Nigeria: Facies Characterization, Reservoir Modeling and Performance Prediction of Isolated and Stacked Multi-Story Channel Complexes: Southampton oral and poster: Sinuous Channels: Genesis, Geometry and Architecture, National Oceanographic Centre, Southampton, UK, June 9-10, conference proceedings, pgs. 15 and 35.
- Pfeiffer, D.S., D.T. McGee, J.G. Crump, 1995, Auger's Geology, Guidepoint to Deepwater US Gulf Potential, Offshore, May 1995, p. 22-28.