



ANDREW J. DAVIDOFF, Ph.D.
Geology and Geophysics Expert

PROFESSIONAL EXPERIENCE

2020 to present **Exigent Group Limited**
Associate

Provide technical investigations, analysis, reports, and testimony toward the resolution of disputes and litigation related to geology and geophysics matters. Areas of expertise include extensive deep-water experience in multiple basins including recent deep-water GOM experience, play and prospect generation both offshore (shelf to deep water) and onshore (desert to tropics), field development planning experience and expertise in the integration of geologic, geophysical and reservoir engineering data for delivery and execution of FDP, and 2D and 3D structural and stratigraphic seismic interpretation. Broad experience with geotechnical engineering, hydrology, geochemistry, geological petrography, coastal and oceanography processes including:

- Injection Wells
- Hydrology and Groundwater
- Seismology/Earthquakes
- Slopes/Landslides/Soil
- Property Damage
- Reserves
- Development wells
- Sinkholes
- Hydraulic Fracturing (Fracking)
- Erosion/Shoring
- Global Warming
- Field Development/Exploration

2017 to 2020 **Schlumberger SIS**
Consultant/Geophysicist

Provided geophysical and geological expertise to Schlumberger exploration and depth imaging teams. Validated FWI velocity model with tectono-stratigraphic framework and well velocity data. Interpreted over 25,000 km² of 3D seismic data for exploration, VMB and depth migration. Provided documentation, workshops, and presentations for SLB and client teams and management. Provided mentoring and training of junior geoscientist in geology and geophysical interpretation. Projects included:

- Kuwait Bay Exploration (onshore, transition and shallow water seismic)
- Campeche NAZ Imaging Project (Shallow Water Southern Gulf of Mexico)
- Campeche WAZ 6 Imaging Project (Shallow Water Southern Gulf of Mexico)
- Mad Dog Area Imaging Project (Deep Water Norther Gulf of Mexico)
- Raven Area Imaging Project (Deep Water Nile Delta)
- Campeche Block 25 and 26 Imaging Project (Deep Water Southern Gulf of Mexico)
- Four Point High Point Imaging Project (Deep Water Eastern Gulf of Mexico)
- Offshore Kuwait Exploration



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- 2014 to 2016 **PetroCeltic International/Sonatrach/Isarene Groupement, Ain Tsila Field, Illizi Basin, Algiers**
Consultant/Lead Geophysicist
- Provided geophysical expertise and leadership for the Isarene Groupement, a joint venture between PetroCeltic, Enel, and Sonatrach for the development of the Ain Tsila Field, a giant gas field in the Southern Illizi.
 - Responsible for all geophysical aspects associated with the delivery and implementation of a 24 well drilling program to meet first gas requirements.
- 2013 to 2014 **Pertamina Indonesia**
Consultant/Advisor
- Served as key advisor to the peer review team, reporting to the Director for Upstream Operations.
 - Reviewed Pertamina's core fields (10 fields that comprised 80% of their production) and provided recommendations for improving production and success rates from development and near field exploration.
- 2012 to 2013 **PTTEP Thailand**
Senior Geophysical Advisor
- Reported to the Vice President of Geophysics. Mentored and trained 35 junior and senior geophysicists. Interpretation projects included GSB New Zealand (4,500 km² 3D and 10,000 km² 2D) and Block 65 Oman (1000 km² 3D and 2000 km² 2D seismic data). Promoted use of seismic stratigraphy and geomorphology within the company. Developed and delivered training on seismic interpretation, seismic attribute analysis and sequence stratigraphy.
- 2010 to 2012 **Vegas Oil and Gas, Egypt**
Geophysics Manager: Petroamir and Petrosafwa JVs
- Directed team of 5 geophysicists in various geophysical activities, ensuring adherence to highest levels of technical excellence. Mentored 3 junior geophysicists and functioned as Exploration Manager on an as-need basis.
 - Interpreted and integrated geologic and geophysical data to aid play mapping for source rock distribution and reservoir characterization for play/prospect uncertainty, risk and volume.
- 2009 to 2010 **Vegas Oil and Gas, Egypt**
Assistant Exploration Manager and Gas Team Lead: Alam El Shawish JV
- Managed team that included 2 geophysicists, 2 geologists, and a reservoir engineer among others, leading the multi-disciplinary group in delineation and development of gas assets in Alam El Shawish joint venture. Oversaw field development planning, drilling, and reserves activities for gas assets, ensuring technical excellence and cross-discipline integration.

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- 2007 to 2008 **RWE DEA, Egypt**
Consulting Geophysicist, Exploration Department
- Conducted regional interpretation, sequence stratigraphy and play and prospect generation across the West Nile Delta from onshore to deep water based on 4,500 sq. km of 3D seismic data. Other work included generation of regional play maps for prospect evaluation, generation of Petrel models for reserve estimation and rock property studies and interpretation of AVO attributes.
- 2003 to 2007 **Murphy Oil Company, Malaysia**
Senior Dev. Geophysicist, Kikeh Field (700 MMBO) Block K, Deep Water, Sabah
- Performed interpretation and depth conversion of 3D seismic data across the Kikeh and Kikeh Kecil Fields. Worked within an integrated team for field delineation, full field modeling, field development planning, SEC reserve audits, and Petronas and Murphy Boards for sanctioning.
- 2003 **University Brunei Darussalam**
Visiting Senior Lecturer, Department of Petroleum Geoscience
- Supervision of Master of Science student theses.
- 2001 to 2002 **Kodeco Energy Company Ltd. Indonesia**
Geophysical Consultant
- Provided consulting and project management services for Velocity Modeling and Pre-Stack Depth Migration (PSDM) of the West Madura 3D Seismic Survey.
- 1999 to 2001 **GX Technology Indonesia**
Jakarta Center Manager and President of GX Technology Indonesia
- Provided leadership and direction for geophysical services company specializing in Pre-Stack Depth Migration (PSDM). Grew the operation from a one-person home-based office to staff of 12 people. Overall responsibility for all operational aspects including sales, profitability and technical excellence.
- 1997 to 1999 **Landmark Graphics Corporation, Indonesia**
Consultant to the Professional Services Organization: Asia Pacific Region
- Provided internal and external consulting services, specifically in seismic interpretation and 3D seismic visualization, attribute extraction velocity modeling and time-to-depth conversion, integration of geologic and geophysical data and geologic and geophysical mapping, well-log analyses, reserve estimates and database management.



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- 1996 to 1997 **GX Technology**
Team Leader and Senior Depth Imaging Geophysicist
- Provided technical expertise, training and mentoring in 2D and 3D structural and stratigraphic interpretation, velocity model building for time-to-depth conversion and pre-stack depth migrations, depth-based velocity, and forward and inverse seismic modeling.
- 1993 to 1996 **Landmark Graphics Corporation/Geographix, Denver and Houston Offices**
Consultant
- Provided technical services such as mapping of geologic, geophysical and cartographic data, integration of geologic and geophysical data, well log analyses, reserve estimates and database management.
- 1990 to 1993 **Texas A&M University**
Graduate Research Assistant, Department of Geology, Center for Petroleum Reservoir Geology
- Major studies included:
 - Structure, stratigraphy and hydrocarbon potential of the Brazos basin
 - Sequence stratigraphy of the Paleogene section, central East Texas
 - Primary migration and trapping of hydrocarbons in the Late Cretaceous Austin Chalk
- 1990 **Union Pacific Resources, Fort Worth, TX**
Summer Geologist, New Ventures Group

EDUCATION

Ph.D., Geology, Texas A & M University, College Station, TX, 1993
M.S., Geology, University of Houston, Houston, TX, 1989
B.S., Geology, Western Washington University, Bellingham, WA, 1982

PROFESSIONAL AWARDS

AAPG A.I. Levorsen Memorial Award for Best Paper (1991)
Gulf Coast Association of Geologic Societies Award for Best Paper (1991)

PATENTS

Davidoff, Andrew J., 2016, Probability Mapping System, US 9, 378, 462 B2

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PUBLICATIONS

- Davidoff, A.J., and Novianti, I.R. 2001, Fault shadow issues and resolution in model and real data; Proceedings of the 28th Annual Meeting of the Indonesian Petroleum Association
- Adhidjaja, J.I., Davidoff, A.J., Novianti, I.R., 2001, PSDM enhances reef interpretation in Jatiluhur Block, West Java; Proceedings of the 28th Annual Meeting of the Indonesian Petroleum Association
- Yancey, T.E., and Davidoff, A.J., 1994, Paleogene sequence stratigraphy of the Brazos River Section, Texas: Gulf Coast Association of Geological Societies Field Guide, Houston, Texas, 104p.
- Davidoff, A.J., and Yancey, T.E., 1993, Eustatic cyclicity in the Paleocene and Eocene: Data from the Brazos River Valley, Texas: in Anderson, D.M., and Gordon P. Eaton, eds., Geological Perspectives on Global Change, Tectonophysics, vol. 222, no. 3/4, p.371-395.
- Davidoff, A.J., and Yancey, T.E., 1993, Relating sequence stratigraphy to lithostratigraphy in siliciclastic-dominated shelf settings, Paleogene, Central East Texas: Gulf Coast Association of Geologic Societies Transactions, vol. 43, p.97-107.
- Yancey, T.E., and Davidoff, A.J., and Donaho, T.S., 1993, Depositional gradient analysis in transgressive systems tracts and highstand systems tracts, Mid - Late Eocene of the Brazos River Valley, Texas: Gulf Coast Association of Geologic Societies Transactions, vol. 43, p. 465-472.
- Yancey, T.E., and Davidoff, A.J., 1991, Paleogene sequence stratigraphy and lithostratigraphy in the Brazos River Valley, Texas: Gulf Coast Association of Geological Societies Field Guide, Houston, Texas, 112p.
- Davidoff, A.J., 1991, Evidence for a deep Mesozoic basin in central east Texas; implications for hydrocarbon exploration: Gulf Coast Association of Geologic Societies Transactions, vol. 41, p. 143-151.

ABSTRACTS

- Suman Gautam, Frederico Xavier de Melo, Jessica Hapney, Andrew Davidoff, Michael Gurch, (in press), Stratigraphy Generated Internal Multiple Prediction and Attenuation, 2020 Society of Exploration Geophysicist Annual Meeting, Houston, Texas.
- Kate McCluskey, Andrew J. Davidoff, Olivier Hermant, Mark McCluskey, Ehab Madkor, 2012, A case study showing how integration of high-end data processing and geological information has led to improved imaging of the North Zeit Bay, Egypt, Istanbul 2012 - International Geophysical Conference and Oil & Gas Exhibition: 1-4.
- Davidoff, A.J., 1993, Three basin model for central East Texas; Basement structure and sedimentary fill: American Association of Petroleum Geologists 1993 Annual Convention, Official Program, p.89
- Davidoff, A.J., 1992, Deep basement structure and sedimentary fill of central East Texas, tectonic implications: Gulf Coast Section, Society of Economic Paleontologists and Mineralogists Foundation, Thirteenth annual research conference, program and abstracts, p. 15-16.
- Davidoff, A.J. and Yancey, T.E., 1992, Characteristics of transgressive systems tracts: Examples from the Brazos River Valley, eastern Texas: American Association of Petroleum Geologists 1992 Annual Convention, Official Program, p.27, and Texas A&M College of Geoscience and Maritime studies Student Symposium, v.4, p. 16.
- Yancey, T.E., and Davidoff, A.J., 1992, Sequence stratigraphic interpretation of the Paleogene section in the Brazos River Valley, Texas: Geological Society of America, South - Central Section, Abstracts with Programs, vol. 4, no. 1, p. 51, (invited).

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- Davidoff, A.J., 1992, The Brazos basin; A three basin model for eastern Texas: South Texas Geological Society Bulletin, vol. 32, no. 5, p. 9 (extended abst., invited).
- Estrada, C., Davidoff, A.J., and Harder, V., 1991, Seek and you shall find - A structural geology assignment: Geological Society of America, Annual Meeting, Abstracts with Programs, vol. 23, no.5, p. 53, and 1992, Texas A&M College of Geoscience and Maritime studies Student Symposium, v.4, p. 19.
- Davidoff, A.J., 1991, Controls on facies distribution of the downdip Jurassic in eastern Texas: American Association of Petroleum Geologists Bulletin, vol. 75, no. 9, p. 1520 and the Gulf Coast Association of Geological Societies Transaction, vol. 41, p. 142.
- Davidoff, A.J., 1991, Evidence for a deep Mesozoic basin in central east Texas; Implications for petroleum exploration: American Association of Petroleum Geologists Bulletin, vol. 75, no. 3, p. 561, and American Association of Petroleum Geologists Bulletin, vol. 75, no. 9, p. 1519.
- Davidoff, A.J., 1990, Angelina - Caldwell flexure and southern boundary of East Texas basin: Geological Society of America, South - Central Section, Abstracts with Programs, vol. 22, no. 1, p. 5, and Texas A&M University Geoscience Symposium, p. 26.
- Davidoff, A.J., 1990, Evidence for a deep Mesozoic basin in central east Texas: Geological Society of America, Annual Meeting, Abstracts with Programs, vol. 22, no. 7, p. 185, and Texas A&M University Geoscience Symposium, p. 27.

FIELD GUIDES AND FIELD TRIPS

- Yancey, T.E., and Davidoff, A.J., Gulf Coast Association of Geological Societies Field Trip, Austin, Texas, October 1994, Paleogene sequence stratigraphy of the Brazos River Section, Texas.
- Yancey, T.E., and Davidoff, A.J., Houston Geological Society Field Trip, Houston, Texas, September, 1992, Sequence stratigraphy and surface to subsurface correlation of the Paleogene strata in the Brazos River Valley.
- Yancey, T.E., Vail, P.R., and Davidoff, A.J., Geological Society of America South - Central Section Field Trip, Houston, Texas, February, 1992, Paleogene sequence stratigraphy of the Brazos River Valley.
- Yancey, T.E., and Davidoff, A.J., Gulf Coast Association of Geological Societies Field Trip, Houston, Texas, October 1991, Sequence stratigraphy and depositional environments of the Paleocene and Eocene of the lower Brazos River Valley.