**ERIC PETERSON**

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**GEOSCIENTIST | PETROLEUM GEOPHYSICIST**

**Exploration • Seismic Interpretation & Imaging** **• Well Planning & Operations**

Energetic Geophysicist who helps Petroleum Operators perform exploration, development, and operations in both conventional and unconventional basins by doing prospecting, seismic imaging and interpretation, field studies, well planning and operations as well as asset sales, onboarding and partnering. Known for fostering a team environment and collaborating with cross functional teams, senior leaders, vendors, and partners then apply lean workflows as well as utilize the latest software and technology to bring safety, efficiency, and return on investment (ROI) to my company.

**KEY STRENGTHS**

Seismic Imaging & Interpretation • Lean Methodology • Well Planning & Monitoring • Salt Tectonics

University Relations: Consortia & Recruiting • Processing Seismic at Vendors • Offshore & Onshore Well Design Lease Sale: Prospecting & Risk Analysis • Geosteering • Prospect & Regional Interpretation • Seismic Attributes Velocity Modeling • Asset Evaluation: Onboarding & Sales • Technology Improvements • JV Partner Collaboration

**TECHNICAL SKILLS**

Petrel • Landmark DSG • Paradigm • Kingdom • GeoTeric • GeoX • ArcMap • Lexco/Owl

**PROFESSIONAL EXPERIENCE**

**BHP** – Houston, TX **August 2011–July 2021**

**Geophysicist – Gulf of Mexico Exploration**, November 2016–July 2021

Delivered prospect recommendations including risk and predicted volumes for lease sales, competitor activity reports and maps, detailed reservoir analysis geologic studies, seismic acquisition and processing guidance, and regional: mapping, GDEs, cross-sections, seismic attributes, fault framework analysis, and isochores.

* Pitched a significant prospect lead through the internal assurance review and it is now being considered for partnership and investment with a major petroleum company
* Performed several detailed geologic analog studies of competitor prospects to develop internal understanding of their prospects as well as use quantitative modeling software to estimate resource volumes and financial impact
* Utilized continuous improvement practices to significantly improve the exploration well permitting process with the Federal Government resulting in faster delivery and significantly less unnecessary work
* Created a best practice for evaluating drilling hazards and determining well placement through salt bodies resulting in safer and more cost-efficient wells
* Self-started and led a collaboration between BHP and SpaceX to bring faster and less expensive remote internet connectivity to BHP remote platforms and field locations

**Geophysicist – Geophysics Business Support**, July 2015–November 2016

Brought geophysics technical support to internal petroleum and minerals asset teams in Australia, Brazil, Trinidad, Mexico, and the USA.

* Worked with BHP Minerals Australia to reprocess seismic into a merged depth volume and performed interpretations of coal seams as well as seismic attribute workflows to locate faults in the mine that if encountered could cause cave-ins. This work resulted in improved safety and lost time savings.
* Assisted in regional mapping in offshore Mexico and the Western Gulf of Mexico to make lease sale decisions

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**Geoscientist – Haynesville/Fayetteville Production Unit**, September 2011–July 2015

Developed the BHP unconventional natural gas assets by creating Petrel Earth Models of the fields and using them to plan optimal wells in 3D and geosteer in the most lucrative zones for maximum ROI.

* Worked with Barclay’s Bankers to market BHP’s Fayetteville LLC Shale, a multi-billion-dollar asset to numerous banks, investors, and E&P companies. Onboarded the Fayetteville from Chesapeake Energy LLC as well as the Haynesville from Petrohawk Energy LLC
* Merged multiple 3D and 2D seismic datasets in the Haynesville to a single seismic volume then converted the volume to depth using well data, check shots and VSPs
* Petrel Earth Model was used to create products such as: seismic attributes, structure and stratigraphic maps, guide geosteering, create well plans, provide support for water disposal wells as well as monitor seismicity, and evaluate Mutual Development Agreements

**Geophysicist – Geophysics Business Support**, August 2011–September 2011

QC seismic data from seismic vendors and provide recommendations to improve imaging. Interpret 3D complex Salt Models for depth imaging in the GOM. Rank vendor technical abilities and their cost to perform services.

**SCHLUMBERGER (WESTERNGECO)** – Houston, TX **May 2006–August 2011**

**Interpretation Geophysicist**, December 2006–August 2011

**Seismic Processing Geophysicist**, May 2006–December 2006

**MONTEREY BAY AQUARIUM RESEARCH INSTITUTE** – Moss Landing, CA **May 2005–August 2005**

**Summer Intern Geoscientist**

**LEIGHTON AND ASSOCIATES** – San Diego, CA **October 2003–January 2005**

**Geologist / Soil Engineer**

**EDUCATION**

**Master of Science (MS) Geology** • San Diego State University – San Diego, CA

**Bachelor of Science (BS) Earth Sciences** • University of California at Santa Cruz – Santa Cruz, CA

**CREDENTIALS & ACHIEVEMENTS**

State of Arkansas Oil and Gas Commission Professional Geoscientist [Docket # 056-2012-03]

Basic Offshore Safety Induction & Emergency Training – HUET & EBS

Continuous Improvement Six Sigma Green Belt (AIT Business Solutions) – increase productivity & enhance quality

Microsoft Azure – Introduction to Machine Learning Badge

Guinness Book of World Records: Fastest crossing of Monterey Bay swimming in relay 10 hours 32 minutes

**ORGANIZATIONAL MEMBERSHIPS**

University of Texas at Austin - Applied Geodynamics Laboratory (AGL) - BHP Consortia Lead

University of Oklahoma – BHP Lead Geoscience Recruiter

American Association of Petroleum Geologists (AAPG)

Geophysical Society of Houston (GSHTX)

Houston Geological Society (HGS)

Society of Exploration Geophysicists (SEG)

BHP E&A Fun Advisory Board Co-Chair

Catholic Charities

Buffalo Bayou HOA Officer

Toastmasters International

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**PUBLICATIONS**

Perdomo, J., Peterson, E., et al, 2019, **Quantifying prospectivity and reducing drilling risk with Seismic Uncertainty Analyses: A Gulf of Mexico Case History**: EAGE Annual Conference Abstract, London, The United Kingdom.

Perdomo, J., Peterson, E., et al, 2018, **Quantifying prospectivity and reducing drilling risk with Seismic Uncertainty Analyses: A Gulf of Mexico Case History**: SEG Annual Meeting Abstract, Anaheim, California.

Featured in the article **Coal – Collaborating on Technically Advanced Seismic Projects** in the April 2018 issue of “The BHP Geoscience Newsletter” about my interpretation work for the BHP Coal Asset in Brisbane, Australia. <https://rimba.bhpbilliton.net/apps/GeoWiki/ProjectDocuments/Geoscience%20 Newsletter/2018%20April%20-%20Geoscience%20Newsletter.pdf#Page=5&view=fit>

Bayer, W.S., Peterson, E., et al., 2016, **Geological and Geomechanical Modeling of the Haynesville Shale: A Full Loop for Unconventional Fractured Reservoirs**: Unconventional Resources Technology Conference (URTeC), San Antonio, Texas.

Peterson, E., Heidrick, T., Frost, E., 2007, **Software Review-Geomapper**: Computers and Geosciences, v. 33, no. 2, pp. 294-296.

Greene, H., Peterson, E., Ward, S., Caress, D., 2006, **The Contribution of Mass Wasting to the Modification and Sediment Budgets of Submarine Canyons and Their Potential as Tsunami Source Areas**: Poster presentation, 2006 AAPG Student Expo, Norman, Oklahoma; 2006 AGU Ocean Sciences Meeting, Honolulu, Hawaii.