

**SHAWN T. MULCAHY**  
**Bellaire, TX**

**WORK EXPERIENCE**

- 2020 – Present**      **BAIN GEOPHYSICAL SERVICES, INC. (HOUSTON, TEXAS)**  
***Sr. Geophysical Consultant***
- Provide full suite of petroleum systems-based interpretation from crustal to prospect scale, including potential fields and seismic interpretation, well correlation, basin modeling and prospect QC/generation.
- 2019 – 2020**      **NOBLE ENERGY, INC. (HOUSTON, TEXAS)**  
***Sr. Geophysical Advisor – Conventional New Ventures***
- Lead Geophysicist for evaluation of multiple opportunities in the greater Atlantic Margins and North Slope of Alaska
  - Presented to and secured approval of Alaska access plan from Executives and Board.
- 2018**      **PLUSPETROL AS (BUENOS AIRES, ARGENTINA)**  
***Consulting Geophysicist***
- Evaluated Atlantic margin deal flow and high-graded opportunities for further screening and technical work including full QC and interpretation of opportunities in deepwater Angola (pre-salt) and the Malvinas basin Argentina.
- 2017 – 2018**      **COBALT INTERNATIONAL ENERGY, INC. (HOUSTON, TEXAS)**  
***Exploration Manager – New Ventures***
- Led Cobalt's exploration effort in the greater Atlantic Margin.
  - Negotiated creative seismic licensing deal to allow large amounts of data to be evaluated to high-grade opportunities in our Atlantic Margin focus area.
  - Created detailed three-year plan consisting of organic and inorganic access options for Cobalt.
  - Presented to and secured approval of access plan from Executives and Board.
  - Managed experienced team of geoscientists, consultants and technicians.
- 2016 – 2017**      ***International Exploration Team Lead***
- Led Cobalt's exploration effort in the Caribbean and Northern South America regions.
  - Developed a regional geologic interpretation of the area.
  - Met with Government Officials to examine fiscal and regulatory terms as well as access options.
  - Managed two geoscientists (Geophysicist and Petroleum Systems expert).
- 2014 – 2016**      ***Mexico Team Lead***
- Led Cobalt's technical evaluation of the shallow and deepwater offshore basins of Mexico. Duties included planning, organizing, and participating in regional and prospect level geologic interpretation, securing compatible partners, and ranking the most attractive areas for Cobalt's entry into Mexico.
  - Developed joint venture initiative with Pemex to execute and evaluate AMI covering ~31,000 km<sup>2</sup> offshore Salinas and Perdido basins.
  - Presented Cobalt exploration track record and capabilities to state entities CNH, SENER, and SHCP.
  - Managed experienced team of geologists and geophysicists

**2013 – 2014**

***Sr. Geophysicist (International New Ventures)***

- Evaluated 50+ farm-in and organic growth opportunities worldwide with primary emphasis on the greater South Atlantic margins. Lead geophysical interpreter during all data room visits.
- Recommended two new areas for organic growth potential through upcoming license rounds. Responsibilities included initial regional geologic interpretation, geophysical data procurement, mapping and prospect generation, play/prospect risk evaluation and presentation of results to executive management.

**2012 – 2013**

***Sr. Geophysicist (West Africa Exploration)***

- Lead Geophysicist for the exploration effort in Block 20, Angola.
- Advised and provided interpretation to seismic vendors to address complex post-salt geology. Improved post-salt velocities resulted in substantial imaging improvements over previous datasets in the area.
- Matured Lontra and Orca prospects utilizing newly available 3D seismic volumes. Created detailed structural maps at multiple levels, identified highly prospective regions from seismic facies analysis, and chose initial well locations for both prospects. Discovered approximately 1 BBOE between the two prospects.

**2010 – 2012**

**NOBLE ENERGY, INC. (HOUSTON, TEXAS)**

***Geophysical Advisor (International New Ventures)***

- Evaluated farm-in opportunities worldwide with primary emphasis on South Atlantic margins. Lead geophysical interpreter during all data room visits focused on pre-salt and Cretaceous deepwater fan plays.
- Recommended new areas for organic growth potential through direct negotiation or bid rounds. Responsibilities included initial regional geologic interpretation, geophysical data procurement, mapping and prospect generation, play/prospect risk evaluation and presentation of results to executive management.
- Conducted technical presentations and represented Noble during meetings with representatives of National Oil Companies and Petroleum Ministries as well as Embassy Officials.
- Created crustal models and integrated tectonic elements/COB interpretations for Africa's Atlantic Margin utilizing satellite derived gravity, regional magnetics, ION reflection seismic, refraction seismic and heat flow data. Interpretation was used to high grade prospective areas for further investigation.
- Provided geophysical expertise and prospect evaluation/risking across corporation as a member of Geophysical Steering Committee and the Exploration Excellence (XX) team.

**2007 – 2010**

***Sr. Geophysicist (Deepwater Gulf of Mexico)***

- Internal salt interpretation expert and primary salt interpreter of proprietary 3D depth datasets in Green Canyon. Integrated potential fields data with salt interpretations to generate seismically viable models that satisfy gravity and salt tectonics constraints. Created proprietary salt models to produce better salt imaging results and trap definition than contractor WAZ datasets. Improved imaging over Deep Blue prospect (GC 723) was the primary reason partners were secured and discovery was drilled in Q4 2009.
- Generated multiple subsalt leads for Central GOM Lease Sales in both Miocene and Lower Tertiary/Wilcox target intervals. Generated and interpreted the top prospect in the Central GOM Lease Sale in both 2009 and 2010 in terms of dollars exposed (Continuum-GC774 and Ouachita South-GC421 respectively). Lead identification on both proprietary and contractor datasets augmented by creating industry leading integrated salt models allowing for higher confidence in poorly imaged areas.

**2005 – 2007**

**HESS CORPORATION (HOUSTON, TEXAS)**

***Sr. Geophysicist***

- Interpreted complex salt geometries for use in PSDM projects.
- Integrated seismic mapping and interpretation with 3D gravity modeling to define/rank prospects for GOM lease sales.
- Acted as gravity and magnetic expert for worldwide exploration efforts.
- Interpreted regional surfaces (salt, basement, Cretaceous, etc.) from 2D, 3D seismic and potential fields for utilization by entire GOM group.
- Created basin-wide crustal models for GOM and Atlantic Margins to aid in thermal modeling and petroleum systems work.
- Developed frontier geologic/geophysical interpretations in advance of Brazil/West Africa lease sales.

**2001 – 2005**

**FUGRO ROBERTSON (HOUSTON, TEXAS)**

**LCT GRAVITY AND MAGNETICS DIVISION**

***Sr. Geophysicist - Interpretation Services Group***

- Provided geological and geophysical interpretation services to worldwide client base using non-seismic and seismic data.
- Recognized as an industry expert in subsalt gravity modeling.
- Authored talks and papers for industry conventions and publications.
- Trained employees on use of potential field data and interpretation methods.
- Performed integrated geophysical interpretations combining gravity, magnetics, seismic and geological data.
- Presented multiple talks to industry at conventions and symposiums.

**2000 – 2001**

**GALILEO GEOPHYSICS, INC. (HOUSTON, TEXAS)**

***Geophysicist***

- Provided integrated potential fields and seismic interpretations to world-wide client base.
- Created regional interpretations using satellite derived gravity data.
- Processed gravity and magnetic data for client base and for use in interpretations.

**1997 – 2000**

**WESTERN GEOPHYSICAL (HOUSTON, TEXAS)**

***Processing Geophysicist***

- Participated in all aspects of 3-D marine seismic processing.
- Consulted with clients to define salt bodies using velocity interpretation methods.
- Trained employees in seismic processing methods.

**EDUCATION**

**1992 – 1997**

**UNIVERSITY OF IDAHO**

***Bachelor of Science, Geology***

**TECHNICAL SKILLS**

Proficient with LINUX and PC based workstation environments. Expert user of Decision Space/Geoprobe, Paleoscan, IHS Kingdom Suite, CGG-LCT Gravity and Magnetics software and ESRI ArcGIS.

**PROFESSIONAL AFFILIATIONS**

- Former Chairman of Geophysical Society of Houston Potential Fields Group (2006-2008)
- Active Member of AAPG and SEG