

BEATRIZ ELENA SERRANO-SUAREZ

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Spring, Tx

PROFESSIONAL SUMMARY

Self-motivated geologist with experience in reservoir management, prospect generation and evaluation, regional and prospect mapping and a strong background in structural geology. Expertise also includes salt tectonics, seismic interpretation (2D and 3D) and well log technologies. Excellent time management, problem-solving and communication skills. Works well independently and as part of a team. Exceptional leadership and ability to work under pressure. Spanish, English, Portuguese, and basic French.

PROFESSIONAL EXPERIENCE

University of Houston, Houston, Texas

The Caribbean Basins, Tectonics, and Hydrocarbons Project (CBTH), Research assistant 2017

- I am using 2D seismic data and some well data provided by Spectrum, First Exchange and TGS, from offshore Guinea - Bissau and Senegal to constrain the tectonostratigraphic evolution of the Senegal basin, to evaluate what parts of the basin are volcanic or non-volcanic, and the implications for the petroleum systems in the area

BP, Houston, Texas

2013 – 2016

Gulf of Mexico Exploration, Structural Geologist (2014 –2016)

- Contributed to the regional understanding of the Campeche salt basin (Mexico, Gulf of Mexico) for the deep water Mexico lease sale by identifying flat spots and prospects, mapping key horizons and integrating gravity data.
- Evaluated the Hokchi field (Gulf of Mexico – Mexico) by mapping reservoir and faults. Assessed fault seal and field compartmentalization. Supported resource estimation.
- Generated and evaluated prospects for the shallow water, Mexico lease sale by mapping horizons in 2D and 3D seismic volumes and calculated volumes to support reserve calculation.
- Contributed to the prospect evaluation in the East Breaks (West U.S. Gulf of Mexico) by mapping basement and carrier bed and characterizing individual prospects.

Atlantis Reservoir Development, Structural Geologist (2013 –2014)

- Identified three different generations of faults that control hydrocarbon distributions within the Atlantis field after extensive horizon and fault mapping. These ideas will be the starting point to the upcoming appraisal campaign in the Atlantis field and will greatly help reduce the geologic uncertainty for the placement of new wells and for resource estimates.
- Mapped the extent of reservoir damage in the field. These maps helped change the initial location of a target avoiding fault damage that could have reduced production in the well up to 70%.
- Mapped the deeper sections of the field in the Atlantis 3D seismic survey. The results of this mapping were used for a finite element model of the field to reduce the uncertainty of pore pressure prediction leading to safer operations.

Rutgers University, New Brunswick, New Jersey 2009 – 2011

Teaching/Research assistant for structural geology,

- Explained and evaluated structural geology concepts to undergraduates in the classroom and in the field.

- Attended and participated in roundtables in the GeoPRISMS Implementation Workshop: Rift Initiation & Evolution in 2010. This workshop defined where in the world the next primary sites for research on rifts are going to be, and which are the key scientific questions to answer

Schlumberger, Bogota, Colombia 2006 – 2009

Borehole Geologist

- Analyzed and interpreted borehole images for exploratory and development wells in Colombia, Peru and Ecuador; recommended intervals for testing and indicated structure, depositional environments and horizontal stress directions. Prepared accurate pricing of estimates of logs and produced proposals for clients.
- Interpreted the images and recommended testing points in the Huron-1 well (exploratory well) in Colombia. This well led to a significant gas condensate field discovery in 2009.

Universidad Nacional de Colombia, Bogotá, Colombia

2005 – 2006

Geologist

- Analyzed fractures in the field in the deformation front of the Eastern Cordillera of Colombia; explained their relationship with the structure and geologic history of the area.
- Provided technical advice to the Colombian Ministry of Transportation about the suitability of building a road in a heavily deformed area close to the capital. Provided technical advice to Colombian Petroleum Institute regarding fractures in reservoirs in the llanos region.

EDUCATION

Ph.D. candidate, Structural geology, **University of Houston**, Houston, Texas

M.Sc. (2013) Structural geology, **Rutgers University**, New Brunswick, New Jersey

M.Sc. (2006) Marine geology and geophysics, **Universidade Federal Fluminense**, Niteroi, Brazil

B.S. (2001) Geology, **Universidad Nacional de Colombia**

Most relevant training

Petroleum Geochemistry	U. of Houston	Houston	2016
Reserve estimates and crystal ball	BP	Houston	2015
Seismic velocity and depth conversion	BP	Houston	2013
Reservoir Engineering for other disciplines	BP	Houston	2013
21C Applied Geophysics	BP	Houston	2013
Basic log and image interpretation	Schlumberger	Houston	2007

COMPUTER SKILLS: GeoProbe, PowerView, Seisworks, Stratworks, RMS, Petrel, SMT Kingdom, Geoframe, ArcGis, Ilwis, Geosoft, Surfer, Grapher, Stereowin, AutoCad Map, Canvas, Office

PUBLICATIONS

Serrano-Suarez, B.E. (2013) Evolution of the Jeanne d'Arc basin, offshore Newfoundland, Canada: 3D seismic evidence for > 100 million years of rifting. Rutgers, The State University of New Jersey, pp.141, New Brunswick.

Serrano-Suarez, B.E., Ferrari, A.L. (2008) Análisis morfotectónico para un area al sureste de Brasil (Morphotectonic analysis for an area in southeastern Brasil). Revista Ingeniería Investigación y Desarrollo UPTC Sogamoso, V. 6, pp. 39-49

Barrera, A, Serrano-Suarez, B.E., Kammer, A. (2006) Análisis de paleoesfuerzos en una sección del grupo Quetame de la Cordillera Oriental de Colombia (Paleostress analysis of a section from the Quetame Group, Eastern Cordillera Colombia). Universidad la Salle, Revista de Investigación, V. 1, pp. 17-28

Suarez, B.E.S. (2004) The Sinú river delta on the northwestern Caribbean coast of Colombia: Bay infilling associated with delta development. Journal of South American Earth Sciences, V. 16, pp. 639 – 647