***ALBERTO BARUD, PG, PhD***

[**alberto.barud@gmail.com**](mailto:alberto.barud@gmail.com)

**SUMMARY**:

Alberto has an extensive experience onshore Mexico and the Gulf Coast and offshore in the Gulf of Mexico, Trinidad & Tobago, and Brazil; He has worked in several capacities in exploration, appraisal, and development mainly in prospect evaluation and well planning and drilling. Dr. Barud has supported operations by executing well design, Top-to-Bottom Prognosis and End-of-Well reports. Alberto understands the synergies and importance of being in constant communication with other Geoscientists, Reservoir Engineers, and Well Engineers throughout the life cycle of a well. He has been a key contributor in the design of a core acquisition program, and in general staying in contact with service companies. He is an excellent integrator always thinking of creative ways to continuously improve the well planning process. He is a registered PG with a PhD in Geological Sciences and a BS in Industrial and Systems Engineering. Alberto possesses a great deal of responsibility and honesty that is reflected in his work ethics.

**RELEVANT EXPERIENCE**

2/21 – Current **Sr. Geologist/New Access –** Magna Operating, Houston, TX

* Interpreted 3d seismic onshore Louisiana and South Texas using SMT Kingdom and Petrel.
* Planned and monitored drilling, testing, completions, and workover activities of various onshore wells.
* Generated prospect inventory and presented technical findings to senior management and investors.
* Supported well planning, drilling and completion activities as well as some regulatory requirements.
* Evaluated petroleum plays, basin analysis, and drilling risks to support and maintain current production.
* Coordinated GIS and data analytics for Magna Operating and developed technology business.

10/16 – 12/20 **Sr. Geologist –** Verdad Exploration Mexico, Houston, TX

* Generated gross depositional environment maps to support well planning, drilling and completions.
* Interpreted 2d and 3d seismic onshore South Texas and Northern Mexico using SMT Kingdom and Petrel.
* Developed exploration and development technical reports including extensive GIS, cross-sections, 3D geologic models, satellite imagery, core data, seismic interpretation, and non-seismic, such as magnetics and gravity data.
* Planned and compiled well objectives for drilling, testing, and completing activities in the Burgos Basin.
* Coordinated data management and technical reports to incorporate information with GIS and data analytics.
* Supported strategic efforts to enter Mexican bid rounds and provide technical geological compliance with CNH
* Generated Exploration Plans, Evaluation Programs, Development Plans, drilling permits (VCDs methodology), resources and reserves reporting most of them in support of regulatory deliverables.
* Contributed in the design of casing program with Geoscientists, Drilling Engineers and contractors.
* Coordinated technical well and evaluation plan information in support of Regulatory obligations for CNH.
* Managed the reporting and data storage for physical samples such as core and cuttings.

05/09 – 06/16 **Geologist.** BP Exploration, Inc, Houston, TX

* Experienced in onshore and offshore basins in the Gulf of Mexico, Trinidad and Tobago, Brazil and Mexico.
* Developed integrated subsurface descriptions, basin and play analysis, interpreted 2d/3d seismic data, generated gross depositional environments and critical risk segment and other proprietary reports.
* Contributed with Reservoir Management tasks for various deepwater hubs in Gulf of Mexico.
* Generated and maintained Geological Program throughout the well life cycle.
* Served as New Wells Delivery – Reservoir Management Liaison communicating with Reservoir Engineers, Drilling Engineers and Geoscientists and Petrophysicists.
* Value of Information Analysis, 3D interpretation and reservoir characterization.
* Developed GoM deepwater well plans, including drilling rig scheduling, targeting, core acquisition,
* Communicated with MWD/LWD vendors and drilling engineers for effective reservoir evaluation.
* Generated a Pore Pressure and Frac Gradient (PPFG) model to develop new wells within the GoM asset.
* Generated prospect inventory documentation for regulatory agencies and investors.

**EDUCATION**

8/05 - 05/10 **PhD in Geological Sciences**, University of Texas at El Paso, El Paso, Texas.

Dissertation focused on *an integrated flood study and the use of satellite imagery and hydrological applications.* Research focused on analyzing the sizing of storm-water infrastructure due to a 100-yr flood event in El Paso and their relationship with hydrological features of watersheds.

6/98 - 12/00 **MS in Geology**, University of Texas at El Paso, El Paso, Texas.

**Outstanding Master in Science Student Award** with thesis entitled: *“A conceptual model of the hydrogeology of White Sands National Monument, New Mexico”.* Research included the generation of a hydrogeologic conceptual model using a) Historical data collected from wells for the last 100 years, b) Analyzed physical, chemical and isotope dating parameters, c) GPS surveyed of several monitoring wells, and d) In-situ spectral reflectance data.

8/89 - 05/94 **BS in Industrial & Systems Engineering**, Monterrey Tec, Juárez, México.

* + **Practical training**: Scrap reduction, plant layout; process flow redesign, waste, and costs reduction.
  + **Main courses**: Systems Engineering, Computer Science, Statistics, Quality Control, Operations Research.

**OTHER EXPERIENCE**

**Program Manager**. University of Texas at El Paso – Regional Geospatial Service Center, El Paso, TX

* Developed and managed projects in the US/Mexico border during all phases of project management, such as proposal writing, budgeting, project follow-up and reporting, and coordination with partners and stakeholders.
* Principal Investigator in the analysis of arsenic in groundwater, storm water and non-point pollution, organic waste-water compounds from water treatment plants mostly with funding provided by the USEPA.
* Directed other projects in the areas of GIS, imagery analysis, web design, and others.
* Collaborated in other research topics, in areas such as water resources, land use management, air quality, public outreach and socioeconomic planning and development.
* Taught Earth Science and TA duties in classes such as Non-seismic Geophysics and Structural Geology.
* Drilling & Reclamation crew Leader serving as main contact with government agencies and private entities with the designation of drilling sites and its reclamation duties.
* Collaborated in several experiments utilizing refraction and reflection seismic techniques to determine subsurface structure and stratigraphy to solve different environmental problems.
* Advised students and taught classes in the areas of Environmental Sciences, Geological Sciences and GIS.

**OTHER SKILLS** and **INTERESTS**

* **Bilingual English Spanish**
* **Hardware platforms**: PC, Unix, Macintosh, AS/400, Silicon Graphics.
* **Software***:* Petrel, SMT Kingdom, Decision Space, Techlog, Seisworks, Stratworks, GeoProbe, MS Office, MS Project, GPSurvey, ENVI, ER-Mapper, ESRI ArcMap, ArcGIS, Global Mapper, Surfer, GMT, ProMax, Surfer, SESOIL, MapDig, AutoCAD, Unigraphics (NX), MATLAB, SPSS, Adobe Suite, Pascal, Clarion, WS FTP, Telnet, xWin, Illustrator, Photoshop, and many others.
* Enjoy mountaineering, mountain biking, photography, and soccer.

**PROFESSIONAL ORGANIZATIONS**

* Registered ***Professional Geologist*** in Texas
* Registered ***Professional Engineer*** in Mexico
* Member of the ***AAPG, SEG, GSA, IGS, IAH*, *NGWA, HGS.***
* Former **Treasurer** of the El Paso Geological Society