

Coerte A. Voorhies, III, P.G.

Post Office Box 27270
Houston, TX 77227

713-397-5059
coertevorhiesiii@att.net

SUMMARY

Exploration and development geologist with history of identifying commercially successful discoveries. Experience in Mississippi and Alabama onshore Mesozoic Gulf Coast Basins, Permian Basin, Mid-continent Basin and Colombia Llanos Basin. Recognized for seismic interpretation, prospect generation and evaluation, working knowledge of petroleum systems at prospect and regional scale, structural analysis, petrophysical evaluation, expertise in carbonate and sandstone depositional environments and sequence stratigraphic analysis. Known as expert in geologic and 2D/3D geophysics software workflows (SMT/TerraSpark). Strengths include project management, analytical thinking, strong communication skills, industry connections and effective working relationships with government agencies, managers, partners, and coworkers. Professional Geologist in Texas and Alabama.

COMPETENCIES

Exploration Geology

- Interpreted 2D/3D data, prepared maps and recommended five in-field and near-field drilling locations in Llanos Basin, Colombia; developed lead into prospect and planned, drilled well and found oil at Ocumo Field.
- Assessed the Casimena Concession, Llanos Basin for farm-in potential; mapped multiple pay horizons of the 100 sq km 3D survey and selected optimal drilling locations.
- Identified carbonate Strawn Formation discovery in Permian Basin, West Texas; planned project from original prospect through appraisal and development wells.
- Evaluated subsurface data generated structure and reservoir maps and sold field extension prospect to Great Southern Oil and Gas; found oil in Cockfield/Yegua Formation, Louisiana.
- Analyzed geologic and seismic data in Mississippi Interior Salt Basin carbonate Smackover Trend; identified several multi-million-barrel oil prospects and sold to Habersham Exploration.
- Chosen as consulting geologist for investor interest in three East Texas, South Texas, and Smackover Alabama drilling projects; calculated geologic risk and volumetric analysis, conducted well site petrophysical evaluations and made investment recommendations.
- Selected in-field location for Womack Hill Smackover Field to offset first Norphlet production well; generated and presented a geologic interpretation to Santa Fe Minerals; planned complex directional well path from land pad location to beneath the Tombigbee River; drilled well and coordinated logging, sampling and drilling vendors.

Development Geology

- Recognized for quality work by ExxonMobil Production Company and selected for four-year geologic study of Big Escambia Creek Field, Alabama; determined parameters of porosity, permeability, trap mechanism, and original gas/water contact for volumetric calculations utilizing logs, seismic, core, well tests and gas production data; provided geologic maps and cross-sections and worked with engineers to integrate drilling and completion information, decline curve data, pressure data, and water production data for field performance evaluation.
- Constructed complex salt dome subsurface structure maps and cross-sections of multiple producing zones to develop reservoir models for optimal hydrocarbon recovery at Weeks Island, Louisiana; provided geologic expert witness support for a three-year consulting relationship with ExxonMobil Litigation Section.
- Developed geologic reservoir characterization models with RC² (3D geocellular modeling software) through SMT client services for independent company exploring for carbonate porosity in onshore mid-continent Arbuckle Formation; interpreted 60 square mile 3D seismic survey, tied seismic to well logs with SynPAK, integrated subsurface information with Rock Solid Attributes, performed seismic volume time-depth conversion in TracePAK and selected prospect locations.
- Prepared end-of-year reserves maps for three partner-operated fields in Llanos Basin, Columbia; interacted with reservoir, production, drilling and completion engineers constructing cross-sections and maps for calculation of geologic risk and volumetric range analysis; provided technical package including proposed well path and collision analysis utilizing coordinate systems and conversions for directional wells.

COMPETENCIES (con't)

Geologic/Geophysics and Office Software

- Developed relationships with several hundred United States and International oil and gas company professionals; recognized for innovation in expanding technical exploration consulting services and instruction on SMT and TerraSpark Geoscience Insight Earth 3D geophysics interpretive software.
- Proficiency with workstation workflows for 2D/3D interpretation, geology, 3D visualization, synthetic seismogram integration, AVO analysis, 1D modeling, seismic trace analysis, petrophysical log calculations and seismic attribute analysis; expert in SMT software and RC² reservoir characterization and simulation software and a working knowledge of Geographix and Prism software .
- Skilled in ArcMap, Neuralog, Adobe Illustrator and Microsoft Office including Word, Excel, PowerPoint and Outlook.

WORK HISTORY

TerraSpark Geosciences, LLC, Houston TX	2010–Present
<i>Sr. Geophysical Advisor</i>	
Remora Energy Management, LLC, Houston, TX	2008–2009
<i>Sr. Geophysical Advisor / Interpreter</i>	
Seismic Micro-Technology, Inc., Houston, TX	2006–2008
<i>Sr. Geologist / Sr. Account Manager</i>	
ExxonMobil Consultant, New Orleans, LA and Houston, TX	1999–2006
Energy Partners, LLC, New Orleans, LA	
<i>Sr. Geologist</i>	
C. H. Fenstermaker and Associates, Inc., New Orleans, LA	1996–1999
<i>General Manager, New Orleans Office</i>	
Metcalf & Eddy Pacific, Inc., Honolulu, HI	1992–1996
<i>Manager Geological Engineering, 1994-1996</i>	
<i>Geological Engineer, 1992-1994</i>	
BHP Billiton, Ltd., Honolulu, HI	1991–1992
<i>Geologist</i>	
ExxonMobil Consultant, Lafayette, LA	1986–1991
Habersham Exploration, Inc. Consultant	
<i>Geologist</i>	
Santa Fe Minerals, Inc., Gulf Coast Division, Lafayette, LA	1984–1986
<i>Geologist</i>	
Delta Exploration Co., West Texas Division, Midland, TX	1982–1984
<i>Geologist</i>	

EDUCATION

Master of Science Geology, University of Louisiana, Lafayette, LA

Thesis: *Geological Aspects of a BHP Site, Sarawak, Borneo, Malaysia*

Bachelor of Science Geology, University of Louisiana, Lafayette, LA

Recent Courses: PetroSkills Seismic Interpretation, Carbonate Core Workshop, Practical Salt Tectonics, Seismic Stratigraphy and Seismic Geomorphology, Siliclastic Sequence Stratigraphy, Principles of Reservoir Characterization

AWARDS, CERTIFICATIONS and AFFILIATIONS

1993 SPE National Engineering Grand Conceptor Award; Borneo, Malaysia.

Professional Geologist Texas # 3560 and Alabama #950

American Association of Petroleum Geologists

Houston Geological Society