

Kevin Meazell

Summary

- Sedimentologist/stratigrapher, member of the Peter Flemings methane hydrate research group
 - Geoscientist with offshore planning and operational experience in the deepwater GOM
 - PhD student researching basin to grain scale characteristics of deepwater channel systems
 - Interested in submarine channels, shallow geohazards, and salt tectonics
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Education

- Ph.D., Geology** *University of Texas at Austin, TX* *Anticipated 2020*
Dissertation: **Deepwater Methane Hydrate Characterization in the Gulf of Mexico: Sedimentology and Stratigraphy** *GPA: 3.8/4.0*
Advisor: Dr. Peter Flemings
- M.S., Geoscience** *University of Nevada – Las Vegas, NV* *August, 2014*
Thesis: **The Porphyry Cu-Mo Exploration of the Hualapai Mountains, AZ.** *GPA: 3.7/4.0*
- B.S., Geology** *University of Georgia, Athens, GA* *May, 2009*
Senior Thesis: **Stable Isotope Geochemistry of Graves Mountain, GA.** *GPA: 3.6/4.0*
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Petroleum Geology Experience

- Geoscience Intern, SE Louisiana Asset Team, Hilcorp Energy Company** *Summer 2018*
- Correlated 54 sands across a structurally complex salt dome in southern LA.
 - Integrated subsurface work with seismic and production data in order to identify and catalogue remaining opportunities based on integrated analysis.
- Scientist/Lithostratigrapher, UT-GOM2-1 Expedition, Green Canyon 955** *Summer 2017*
- Successfully located, planned, and drilled two scientific wells in 6,700 ft of water depth during a 30 day offshore expedition in the Gulf of Mexico.
 - Correlated 3D seismic and well log data to identify coring points 1,500 fbsf.
 - Used petrophysical & grain size analyses to explain reservoir heterogeneity of a gas hydrate resource within a submarine channel-levee system.
- Graduate Research Asst./Subsurface Mapper, University of Texas at Austin** *August 2015– Present*
- Created seismic amplitude and structure maps to investigate a potential natural gas hydrate resource within the shallow subsurface of the GOM.
 - Worked with an interdisciplinary team of scientists at the BOEM, USGS, and DOE to plan and prognose 11 deepwater exploration wells.
 - Successfully defended potential drill sites for the Science Evaluation Panel and the Environmental Protection and Safety Panel of the IODP.
- Associate Research Scientist, UT Institute for Geophysics, Austin, TX.** *March 2015– August 2015*
- Integrated 3D seismic amplitude and well log data to create geologic interpretation maps of deepwater facies in the northern Gulf of Mexico.
 - Mentored an undergrad research asst. in 3D mapping and seismic interpretation.
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Computer Skills

- Petra
- ArcGIS
- ENVI
- SLB Techlog
- Landmark DecisionSpace
- IHS Kingdom Suite
- Paradigm Geolog
- Adobe Illustrator
- Java
- Python
- C++
- Fortran

Other Professional Experience

- Exploration Geology Intern, Kinross Gold, Reno, NV** Summer 2013
- Combined drilling and hyperspectral data to create geologic cross sections used in the identification of precious metal drilling targets.
- Exploration Geologist, Can-Cal Resources, Wikieup, AZ** Summer 2012
- Planned logistics and carried out the investigation of a base metals prospect.
 - Resulted in the staking of 300 mineral claims by one of the world's largest mining companies. Exploration continues in this area to this day.
- Project Geologist, Aerostar Environmental Services, Jacksonville, FL** 2009-2012
- Supervised installation and sampling of dozens of groundwater wells.
 - Lead sampler of a multi-million dollar superfund remediation site.

Short Courses Completed

- Petrophysics Summer School – IODP, University of Leicester, UK** Summer 2017
- Field Safety in Marine Geophysical Acquisition – ExxonMobil** Spring 2015
- We Made a Discovery! Now What? – Noble Energy** Fall 2014
- Geosteering Principals, Practices, & Pitfalls – Raymond Woodward, BHL** April 2014
- Multi-Disciplinary Subsurface Integration in E & P – ExxonMobil** February 2014
- Geology and Geophysics Applied to Energy: –Noble Energy** September 2012

Graduate Coursework

- Marine Geology and Geophysics Field Course
- Exploration Seismology
- Clastic Depositional Systems
- Carbonate Depositional Systems
- Sediment Gravity Flow Depositional Systems
- Quantitative Stratigraphy and Morphodynamics
- Seismic Structural Analysis
- Crustal Geofluids
- 3D Stratigraphy
- Basin Analysis
- Intro to Scientific Programming
- Advanced Geochemistry

Published Abstracts

- Meazell, K.,** Flemings, P., Santra, M., in prep. *Silt-rich channel-levee hydrate reservoirs of Green Canyon 955*: AAPG Bulletin.
- Santra, M., Flemings, P., Scott, E., and **Meazell, K.**, 2019. *Evolution of a gas hydrate-bearing deepwater channel-levee system in the abyssal Gulf of Mexico – Levee growth and deformation*: AAPG Bulletin.
- Hillman, J., Cook, A., Daigle, H., Nole, M., Malinverno, A., **Meazell, K.**, and Flemings, P, 2017. *Gas hydrate reservoirs and gas migration mechanisms in the Terrebonne Basin, Gulf of Mexico*: Marine and Petroleum Geology.
- Meazell, K.,** Flemings, P.B., 2017. *Sedimentological characterization of a deepwater methane hydrate reservoir in Green Canyon 955, northern Gulf of Mexico*: AGU Fall Meeting
- Meazell, K.,** Flemings, P.B., 2016. *Heat-flux and fluid flow in the Terrebonne basin*: AGU Fall Meeting
- Meazell, K.,** Flemings, P.B., 2016. *The depositional evolution of the Terrebonne basin, Northern Gulf of Mexico*: 5th Annual Jackson School Research Symposium.
- Meazell, K.,** Flemings, P.B., 2016. *New insights into hydrate-bearing clastic sediments in the Terrebonne basin, Gulf of Mexico*: Gordon Research Conference on Natural Gas Hydrate Systems.
- Meazell, K.,** Flemings, P.B., 2015. *Methane hydrate-bearing sediments in the Terrebonne basin, Northern Gulf of Mexico*: AGU Fall Meeting.
- Meazell, K.,** Cline, J., and Simon, A., 2013. Oral presentation: *Porphyry Cu-Mo Exploration of the Hualapai Mountains, AZ, USA*: Society of Economic Geologists Annual Meeting, Whistler, BC.