

Wednesday, September 26, 2018

Petroleum Club of Houston • 1201 Louisiana (Total Building)  
Social Hour 11:15 a.m.  
Luncheon 11:45 a.m.

Cost: \$35 Preregistered members; \$40 non-members/walk-ups

To guarantee a seat, pre-register on the HGS website & pre-pay by credit card.

Pre-registration without payment will not be accepted.

Walk-ups may pay at the door if extra seats are available.

If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.

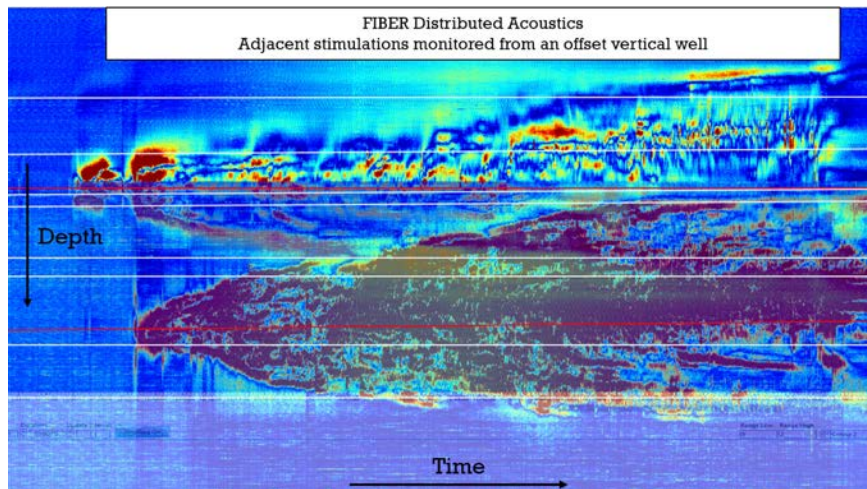
## HGS General Luncheon Meeting

Micah Reasnor

Pioneer Natural Resources

HGS General Luncheon Meeting

# Geophysical Technology, Improving Returns in the Permian Basin



The Permian Basin, currently producing roughly 3 million barrels of oil, is one of the largest hydrocarbon resources in the world. Pioneer Natural Resources holds one of the largest contiguous acreage positions in the Midland Basin side of the Permian. However, shale plays require significant capital to exploit. As scientists, we have two roles to play in improving the economics: reducing the required drilling and completions cost, and improving the production profile. Pioneer is betting on technology advancements to tackle both variables in this equation, and geophysics is providing solutions. This talk will cover various data types and technologies that Pioneer is using to provide these solutions, including examples from surface seismic, vertical seismic profiles, microseismic, and fiber based distributed acoustics. These solutions are being applied to a range of problems including reservoir characterization, waste water injection, shallow hazards identification, and hydraulic stimulation. ■

### Biographical Sketch

MICAH REASNOR is currently the Director of Geophysical Technology for Pioneer Natural Resources based in Irving, Texas. He has Bachelor's degree in Geophysics from Oklahoma University and a Masters from the Colorado School of Mines. Micah began his career working with Mewbourne Oil Company and Berexco Inc while

attending the University of Oklahoma. Upon graduating from Colorado School of Mines he joined BP in their Houston office working as a geophysicist in the Gulf of Mexico. While at BP Micah gained experience in exploration, appraisal, and production. Micah also taught a course on subsalt imaging, was a member of BP's subsurface review panel, and held a functional leadership position over one of BP's technical communities. Micah joined Pioneer Natural Resources in 2011 as a geophysicist working in their Eagle Ford shale asset. Subsequently, he moved on to hold various leadership roles in their Permian asset including Regional Subsurface Manager, Asset Geoscience Manager, and Field Development Manager before moving to his current role. As Director of Geophysical Technology he oversees a team of senior geophysicists who are responsible for geophysical data acquisition and processing. In addition, his team oversees geophysical technology development and provides geophysical training programs for Pioneer. Outside of work, Micah and his wife Kari, along with their two boys, enjoy the outdoors, spending time boating, fishing, and camping.

