

EXPLORATION GEOPHYSICS

Oil and Gas • Groundwater • Mineral Deposits • Aggregates

ABOUT US

Gehrig, Inc. was incorporated in 2008 with the purpose of providing exploration, engineering and environmental geophysics services to quality clients. Our main office is located in Muenster, TX, with additional personnel located in Dallas and Fort Worth. Gehrig's expert team is well-equipped, mobile and client-focused to get the job done right.

SERVICES

- Seismic Design & Surveying
- 2D and 3D Hi-Resolution Seismic Acquisition
- Seismic Processing
- Structure Mapping
- Seismoelectric Soundings
- Electrical Resistivity Imaging & Induced Polarization
- Ground Conductivity Imaging



SAFETY AND ENVIRONMENT

Gehrig, Inc. is serious about operation safety and the environment. Our safety program is based on International Association of Geophysical Contractors guidelines. We also strive to minimize environmental impacts of our activities while onsite.

Our Toolbox

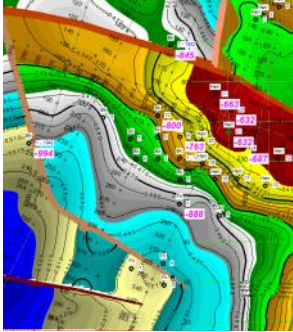
- Wireless Seismic Acquisition System
- Vibroseis Truck
- Track-Mounted Accelerated Weight Drop
- Electrical Resistivity and IP Imaging
- Seismoelectric Units
- Slimhole Wireline Geophysics Tools
- Slimhole NMR Logging
- Electromagnetics and Magnetics

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CASE STUDIES

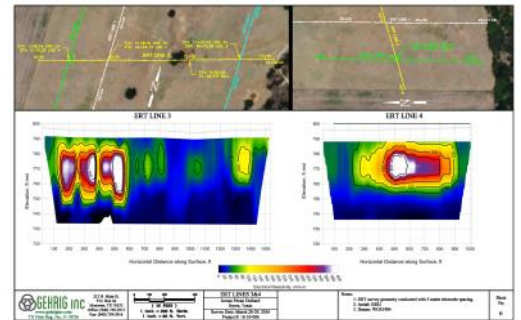
3D Seismic Acquisition for Ellenberger Structure



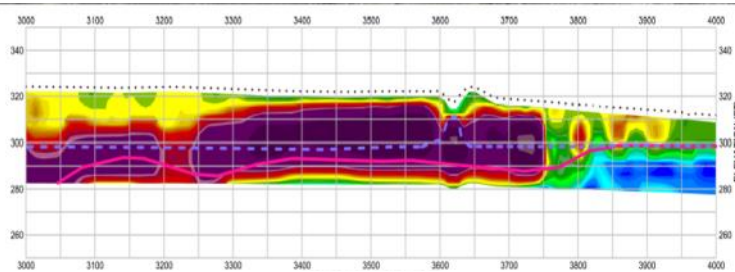
On top of the Muenster Arch, the Pennsylvania Sands unconformably overlaying the Ellenberger Formation. These are shallow conventional plays in the North Central Texas area with Ellenberger plays at depths ranging between 1,600 to 2,500+ feet. This shallow sub square mile survey was performed where one of the first discovery wells were drilled near Muenster, Texas in the 1920's. Despite the area being well drilled, including many attempts into the Ellenberger Formation, 3D seismic identified three previously undiscovered traps, one of which was two anticlinal Ellenberger highs with closure on all sides.

Irrigation Water Well Site Selection in North Texas

We successfully utilized Electrical Resistivity Tomography and Induced Polarization (ERT and IP) to help an agricultural client select optimal sites for irrigation wells on a 200 acre property in North Texas. The planned to develop the property into a pecan orchard so abundant groundwater was necessary to ensure success. The groundwater in this area is confined to alluvial aquifers that are not laterally homogeneous so drilling productive irrigation wells is very challenging. Our team was able to help the client site irrigation wells on the property based on the results of the study.

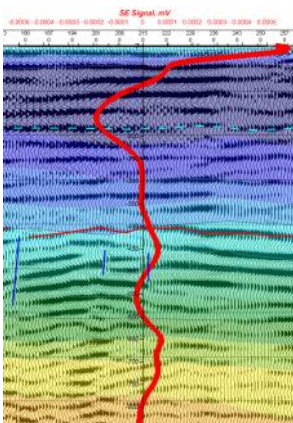


Aggregate Reserve Imaging



We successfully utilized Electrical Resistivity Tomography (ERT) to image aggregate reserves in the Trinity River alluvium in Texas. We also acquired Induced Polarization (IP) data that was utilized to map estimated groundwater levels on the site. This provided the client with information on lateral and vertical extent of the remaining aggregate deposits at the site.

2-D Seismic Acquisition with Seismoelectric Soundings



2D high resolution seismic imaging was conducted with geophone and shot spacing set at 40 feet. Structural mapping of the Pennsylvania formations unconformably overlaying the Ordovician dolomite was performed. Potential traps were identified and checked with Seismoelectric (SE) soundings. Seismoelectric sounding provides insight into pore fluid properties within a porous medium. In theory, a detectable seismoelectric signal can be recorded at the surface when a P-wave passes through an electrical resistive saturated, porous medium. We have observed these signal for both groundwater and oil gas applications. In this case study, the SE confirmed the presence of oil within an anticlinal structure and was successful drilled with conventional means.