

Remote Monitoring and Reporting of Conditions for Salt Water Injection Sites
Contract No. G-019-042

This is a research project submitted by Pedigree Technologies, LLC. Project duration is 6 months/36 months. The installation of the monitoring equipment and preliminary field testing will take 6 months which will be followed by 36 months of long-term field test monitoring. The total project cost is \$50,862. The Industrial Commission has authorized Oil and Gas Research Program funding of \$23,350. This project is to develop capabilities to allow for remote data collection from injection well sites allowing for continuous monitoring of those sites as well as providing reportable injection data to government agencies. Pedigree Technologies will create and demonstrate a system for remote, automated monitoring and reporting of conditions at salt water injection sites with the following technical objectives:

- 1) This system will regularly monitor and record pressure readings from gauges in the (a) tubing and (b) annular regions of injection wells as well as the (c) volume of material injected.
- 2) This data will be stored at and made accessible from a remote location at Pedigree Technologies' data center.
- 3) From this data, reports will be automatically generated meeting State of North Dakota reporting requirements.
- 4) The system will be field-tested at ten injection sites in North Dakota operated by Berenergy Corp.

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