

G-019-C
Remote Monitoring and Reporting of
Conditions for Salt Water Injection
Sites

Submitted by: Pedigree Technologies
Principal Investigator: Will Shulstad

Request for \$25,350
Total Project Costs: \$50,862
Duration: 39 months

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Remote Monitoring and Reporting of Conditions for Salt Water Injection Sites

- The purpose of 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.

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- Pedigree Technologies proposes the creation and demonstration of 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.

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- (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 operated by Corp., an oil and gas company with operations in North Dakota.

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- Project was critiqued by 3 independent reviewers.
- Reviewers rated the project at 194.1/250 points.
- 2 reviewers recommend funding the project, 1 reviewer recommend that the council consider to fund the project.

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- Reviewers note that this is not necessarily a new technology.
- There will still be a need for field inspection.
- Data ownership and management is not addressed, after the data is submitted to the data aggregator and distributor.

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- Project reviewed by one technical advisor.
- The council will need to discuss ownership of any software developed and how that technology will be made available.
- The technical advisor recommends that funding be considered.