

“Demonstration of Gas-Powered Drilling Operations for Economically Challenged Wellhead Gas and Evaluation of Complementary Platforms ”

Submitted by:

Energy & Environmental Research Center

- Request for \$750,000**
- Total Project Costs \$1,900,000**

PROJECT DESCRIPTION

- The proposed project will explore, identify, and demonstrate technologies for utilizing wellhead gas. The project will demonstrate collection, transportation, and fueling of a diesel engine power system for a drilling operation using pipeline or “lean” gas and demonstrate the powering of a drilling operation utilizing delivery of compressed Bakken Formation associated gas. The results are intended to encourage and promote the use of new technologies that have a positive economic and environmental impact on oil and gas exploration. Results will provide producers with a technical evaluation of gas-fired bi-fuel diesel power for drilling operations, a demonstration of compressed natural gas (CNG) transport and delivery, and expanded markets for Bakken Formation associated gas.

TECHNICAL REVIEWERS' RATING SUMMARY

		Technical Reviewer			<u>Average</u>
Rating	Weighting	<u>24A-04</u>	<u>24A-05</u>	<u>24A-06</u>	<u>Weighted</u>
<u>Category</u>	<u>Factor</u>				<u>Score</u>
Objectives	9	4	4	4	36
Availability	7	4	4	2	21
Methodology	8	4	4	2	24
Contribution	8	4	3	3	24
Awareness / Background	5	3	3	3	15
Project Management	3	4	3	2	9
Equipment / Facilities	2	3	4	4	6
Value / Industry-Budget	4	4	4	4	16
Financial Match – Budget	4	3	4	4	12
<i>Average Weighted Score</i>		189	184	151	174
<i>Maximum Weighted Score</i>					250

TECHNICAL REVIEWER TOTALS

- 24A-04

Average Weighted Score: **189 out of 250**

FUND

- 24A-05

Average Weighted Score: **184 out of 250**

FUND

- 24A-06

Average Weighted Score: **151 out of 250**

FUNDING MAY BE CONSIDERED

DIRECTOR'S RECOMMENDATIONS

Recommendation:

To fund in the amount
\$750,000