NORTH DAKOTA OIL & GAS RESEARCH COUNCIL UPDATE: 2006

OVERVIEW

 Established in 2003
 The Mission of the Oil and Gas Research Council is to promote the growth of the oil and gas industry in the State through research and education. The Program is funded from the state's share of the oil and gas production tax and oil extraction tax.

Two percent of the state's share of the oil and gas gross production tax and oil extraction tax revenues, up to \$1.3 million, is available to the OGRC each biennium.

- Grant round deadline dates will be May 1 and November 1.
- Additional grant round deadline dates may be established by the Industrial Commission of North Dakota.

MISSION STATEMENT

The mission of the OGRC is to promote the growth of the oil and gas industry in North Dakota through research and education.

Statutory Goals & Purposes

- Promote efficient, economic, and environmentally sound exploration, development, and use of North Dakota's oil and gas resources.
- Preserve and create jobs involved in the exploration, production and utilization of North Dakota's oil and gas resources.
- Ensure economic stability, growth, and opportunity in the oil and gas industry.
- Encourage, and promote the use of new technologies and ideas that will have a positive economic and environmental impact on oil and gas exploration, development, and production in North Dakota.
- Promote Public Awareness of the benefits and opportunities provided by the North Dakota oil and gas industry.

Examples of Previously Funded Projects

- Remediation of Salt & Hydrocarbon Impacted North Dakota Soils
- Submitted by BioRem Environmental Consultants; Amerada Hess Corporation; Industrial Commission Department of Mineral Resources Oil and Gas Division

Custom North Dakota ArcIMS Map Server
Submitted by Kadrmas, Lee & Jackson

Examples of Previously Funded Projects

Digital Thin section & Core Photo Project
 Submitted by NDGS

 Plains CO2 Reduction Partnership
 Submitted by EERC with Industry & Government Partners

EDUCATIONAL & OUTREACH

Industrial Safety Training Program
 Submitted by Williston State College

Oil-site Firefighting Training Program
 OGRP & Oil and Gas Producing Counties

North Dakota Petroleum Council Teacher Education Seminars

Energy Career Awareness Partnership (ECAP)

An educational outreach program to demonstrate to the public, teachers, students and parents the value of North Dakota's energy industry as well as career opportunities.

2006 FUNDED PROJECTS

 Cretaceous Gas/Shale-Gas Expansion
 submitted by Continental Resources, Inc.

Collect data from a Cretaceous gas well and compare that data to well log signature.

Create a template to use throughout the State.

The lithology consists of thin interbeds of silt/sand in a shale matrix.

Traditional logging techniques are of little value in interpretation.

Data Collection -core -porosity & permeability analysis -gas desorption clay analysis water sensitivity

Logging Suite -Spectral Gamma ray -Dipole Sonic -Platform express -Geo-chemical -Pulse Neutron

Project is simple but important:

- Compare core porosity and permeability of gas producing streaks to the signature of high resolution logs.
- A necessary procedure to validate or truth log interpretation.
- A validated log interpretation procedure or logging template that can be used for a potentially significant resource throughout much of the State.

 Crude Oil Transportation Capacity Study
 Submitted by: Northern Alliance of Independent Producers

Research Williston basin crude oil transportation and infrastructure capacity and attempt to identify factors influencing the movement of North Dakota crude oil.

Evaluate:

- How crude oil is currently moved & current capacity.
- Which markets are product shipped to & the influence on those markets.
- Manner in which allocation of capacity is made.
- Potential for future impacts on existing capacity.
- Current response to transportation bottlenecks, the adequacy of current responses and recommendations.

Polymer Gel Treatment – a Remediation for Produced Waters

Submitted by: Aeon Energy Corp.

The project will investigate the use of a polymer treatment to decrease the amount of produced water from a well in Bottineau County. Treatment has been successfully used in Kansas to treat marginally economic wells in the Arbuckle dolomite.

95% success rate (approximately 200 wells: SPE 94906).

SPE 94096

The Kansas Arbuckle Formation: Performance Evaluation and Lessons Learned from More Than 200 Polymer-Gel Water-Shutoff Treatments

J. T. Portwood, SPE, TIORCO, Inc.



UPCOMING GRANT ROUND

Deadline November 1, 2006 Available funding for upcoming grant round: -Research: \$247,380 -Education: \$42,015

Guidelines & requirements: http://www.state.nd.us/ndic/ogrp-infopage.htm

Drill North Dakota Prospects



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