

Report to the North Dakota Oil and Gas Research Council on the Grant  
Provided for the  
North Dakota Petroleum Council's Teachers Education Seminar

Report Date: July 29, 2004

Applicant: The North Dakota Oil and Gas Association

Principal Investigator: Jeff Herman, President

## Project Summary: **North Dakota Petroleum Council 2004 Teachers' Seminar**

The North Dakota Petroleum Council held a three-day seminar in Bismarck June 7-9 to educate teachers about the oil and gas industry. Forty teachers from all over the state attended the seminar; with the majority of them being middle school math and science teachers.

Day one was spent in the classroom learning about the history of the industry, geology, physics, engineering, and production issues. On day two, they toured a production rig, had lunch in Medora, and toured reclaimed well sites in the grasslands with Forest Service representatives. On the final day, they toured the Mandan Tesoro Refinery and talked about refining and marketing. As a result of the seminar, they seem to have a better understanding of the complexity of the oil and gas industry and they had a good discussion about gas prices. Hopefully, they will incorporate their new knowledge of the oil and gas industry into their classrooms. To receive a graduate credit for attending the course, the teachers are required to submit a lesson plan on how they will incorporate what they learned into their classroom. The lesson plans submitted indicate they learned a great deal about the oil and gas industry and came up with creative methods of incorporating their new knowledge into the classrooms from grade school through high school.

The course evaluations were very positive. There were many hands-on activities and examples of how to incorporate the oil and gas industry into their classrooms. For example, the geology instructor had a glass jar, bag of marbles, sand, cooking oil, and water and he showed them several examples related to geology that will help students understand migration, porosity, and permeability. Their school library or resource center of each attendee will receive an "Energy Education Kit". This kit will serve as a resource for the teacher and school, it includes samples of crude oil, drilling mud, salt water, a copy of the Petroleum Council's Dakota Prairie Grasslands Oil and Gas Showcase Video (the video demonstrates industry's ability to responsibly produce oil and gas on public lands), and lots of written materials and brochures from the American Petroleum Institute and other organizations.

Matching Funds: The North Dakota Oil and Gas Association has paid for the expenses and in-kind services provided as described in the grant request exceeding the 60% matching contribution.

North Dakota Oil and Gas Association	60%	\$ 7,668.00
Oil and Gas Research Council grant	40%	<u>\$ 5,112.00</u>

**Total Project Expenses** **\$ 12,780.00**

Sponsors and supporters of the seminar included:

North Dakota Oil and Gas Research Council  
North Dakota Oil and Gas Association  
Landman's Association of North Dakota  
Dickinson API Chapter  
Amerada Hess  
Tesoro  
Enbridge Pipelines