

ROCKY MOUNTAIN OILFIELD TESTING CENTER



Fossil & Renewable Energy Scoping Meeting

March 26, 2004



RMOTC

The Rocky Mountain Oilfield Testing Center (RMOTC), is an operating oil field focusing on environmentally-balanced energy technologies and alternatives, and is the premiere energy testing and demonstration field in the nation.



RMOTC Offers Solutions

Located within the Naval Petroleum Reserve No. 3 (NPR-3) near Casper, Wyoming, RMOTC offers:

- the opportunity to explore environmentally-balanced solutions to the nation's energy issues
- opportunities to develop, demonstrate, and evaluate a variety of energy related technologies
- a chance to collaborate with top professionals in the energy, environmental technology, and engineering fields
- shared industry knowledge through technology transfer via reports, journal articles, and presentations



RMOTC Provides

Operations and Testing Facilities provides:

- Drilling & Service Rigs
- Administrative Services, Engineers, Scientists, & Support Staff
- Support Equipment
- Bio-Treatment Facilities
- Soil Remediation Facilities
- Field Laboratory
- Gas Processing Facilities
- Production Facilities
- Tanks & Pipelines
- Aquaculture & Hydroponic Greenhouse Facilities



Unique Location

Additionally, RMOTC's Ideal Location Offers:

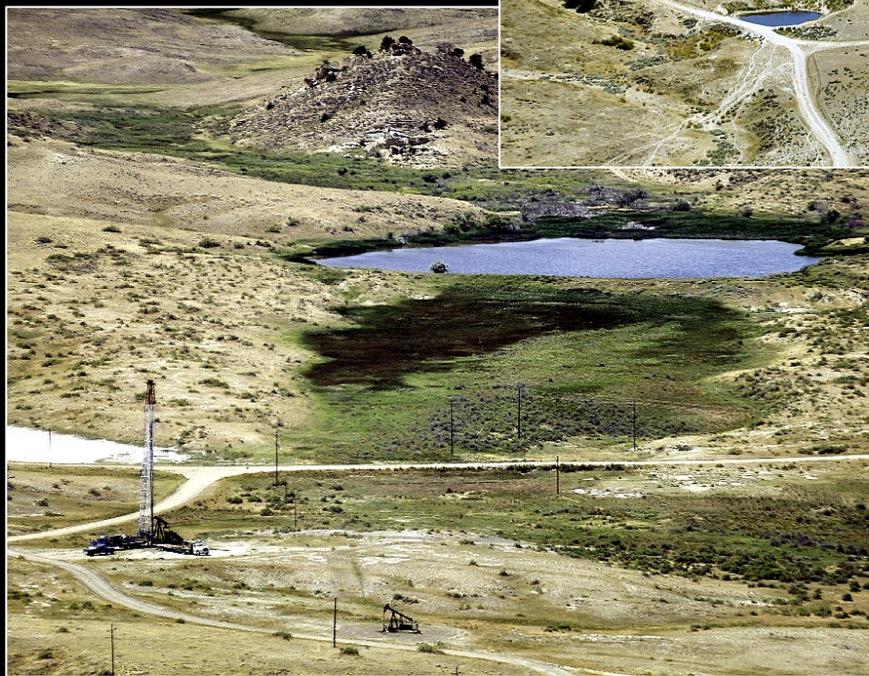
- Remote, federally-owned and secure site
- 10,000-acre operating oil field
- Full complement of facilities and equipment on-site
- Approx. 750 well bores
- Nine producing reservoirs
- Varied environmental, terrain & weather conditions



Field Operations Facilities



Water & Terrain



RMOTC Opportunities

RMOTC offers Testing, Demonstration, and Research & Development Opportunities in:

- Exploration
- Environmental Technology
- Production Technology
- Drilling Technology
- Renewable Energy Technology
- Western Energy Initiatives
- Energy Assurance



Developing Relationships

The Western Energy Development Office at RMOTC is developing relationships and utilizing partnerships in the search for innovative technologies and new opportunities to apply our energy resources by:

- Reviewing a range of energy development issues
- Identifying those in which our assets and expertise may contribute
- Developing problem-solving partnerships



Focus on Environment

Environmental Technology

- Carbon Management
- CO₂ Sequestration
- Water Management
- Unpaved Road Dust Mitigation
- Investigation of Habitat Fragmentation Effects
- Mitigate Environmental Effects of New Technologies
- Renewable Energy Technologies



Focus on Environment

RMOTC is currently collaborating with stakeholders on issues related to the development of Coal Bed Methane

- Coal Bed Methane Drilling and Production Innovations
- Water Production, Treatment, and Disposal
- Air Quality Issues
 - Dust Mitigation



Air Quality



Produced Water Management

RMOTC's Produced Water Management Program (PWMP) focuses on testing, demonstration, and evaluation of:

- Reservoir Management
- Production Innovations
- Water Treatment and Disposal
- Beneficial Reuse



Beneficial Reuse Facility



Lab, Greenhouse & Aquaculture



NPR-3 Biotreatment Facility

Experience gained through operation of the biotreatment facility has provided a chance to design a new system in 2004 that will:

- Address the water disposal needs at the NPR-3
- Serve as a research technology and development resource for resolving produced water issues



Biotreatment Facility



Geothermal Resources



Energy Related Projects

- Motor Efficiency Study – University of Wyoming
- Wind or Solar Powered Beam Pumping Units
- Gas Micro Turbine Power Generators



