

PROJECT facts

U.S. DEPARTMENT OF ENERGY
NATIONAL ENERGY TECHNOLOGY LABORATORY

Gas Exploration,
Production and Storage

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CONTACT POINTS

Bill Gwilliam

Project Manager
(304) 285-4401
william.gwilliam@netl.doe.gov

Thomas H. Mroz

Project Manager
(304) 285-4071
thomas.mroz@netl.doe.gov

Gary P. Sames

Project Manager
(412) 386-5067
gary.sames@netl.doe.gov

ADDRESS

National Energy Technology Laboratory

3610 Collins Ferry Road
P.O. Box 880
Morgantown, WV 26507-0880
(304) 285-4469 fax

626 Cochran's Mill Road
P.O. Box 10940
Pittsburgh, PA 15236-0940
(412) 386-4604 fax

WEB SITE

www.netl.doe.gov



EMERGING TECHNOLOGIES FOR THE NATURAL GAS INDUSTRY: ADVANCED DIAGNOSTICS AND IMAGING – RESOURCES AND RESERVES ANALYSIS

This technology area focuses on research to characterize the geology, gas availability, trapping mechanism, and specific reservoir geometry for natural gas reservoirs. Based upon this characterization, products to develop these reservoirs are supported that will enable analysis of specific basins and the assessment of natural gas resources and reserves for any given reservoir. Particular emphasis is on the following:

- Tight gas basin studies which form the framework for assessments
- Natural gas atlases which show locations of known or inferred reservoirs
- Natural gas databases containing geologic and reservoir-specific data
- Reservoir models for predicting technical and economic recovery
- Methodologies for handling data from various types of reservoirs (tight, geopressured, secondary recovery-type production, and hydrates)

Current Activities

- Gas System Analysis Model (GSAM) Development
- Offshore Secondary Natural Gas Recovery Potential Studies
- Geological Characterization/Resource Assessment of Tight, Basin Centered and Deep Sedimentary Basin Gas Potential

