









DEP Webinar

March 27, 2012









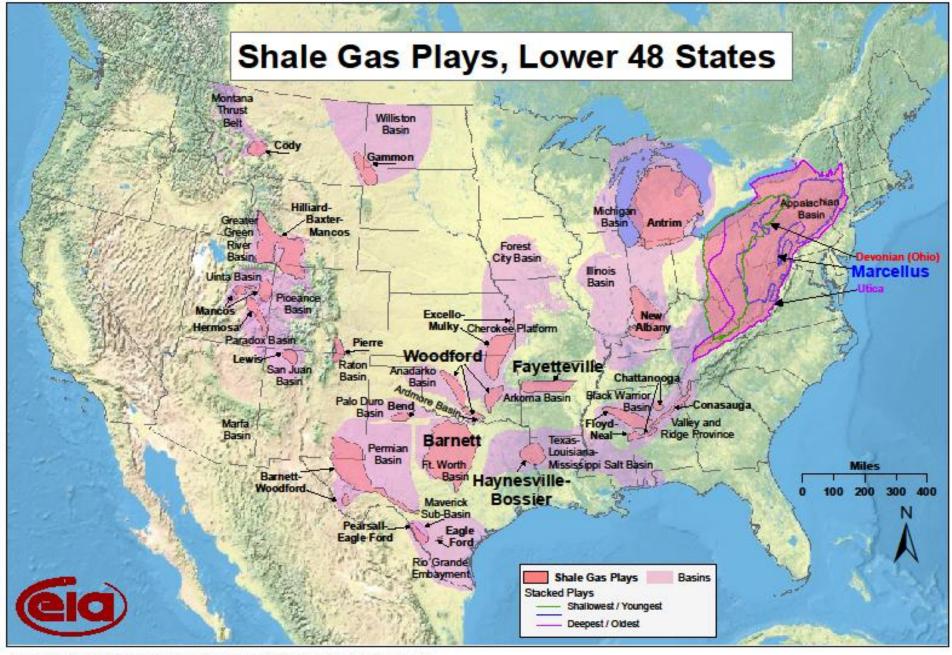
AGENDA

- 1. Welcome
- 2. Review of the Act
- 3. Questions & Comments

Note: WebEx Technical Support is available at 866-229-3239

Marcellus Charts and Graphs





Source: Energy Information Administration based on data from various published studies. Updated: March 10, 2010





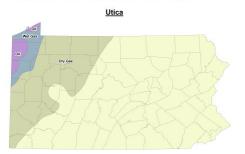




Black Shale Formations

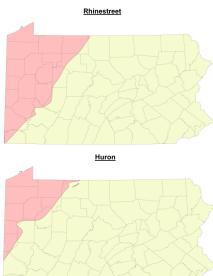
- Marcellus
- Utica
- Rhinestreet
- Huron

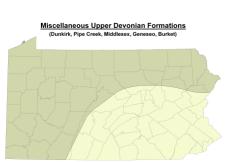
Wet Gas Dry Gas



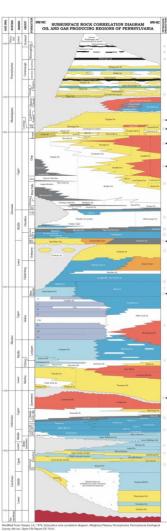
Upper Devonian

- Dunkirk
- Pipe Creek
- Middlesex
- Geneseo
- Burket





Generalized Stratigraphic Section for Oil and Gas Region



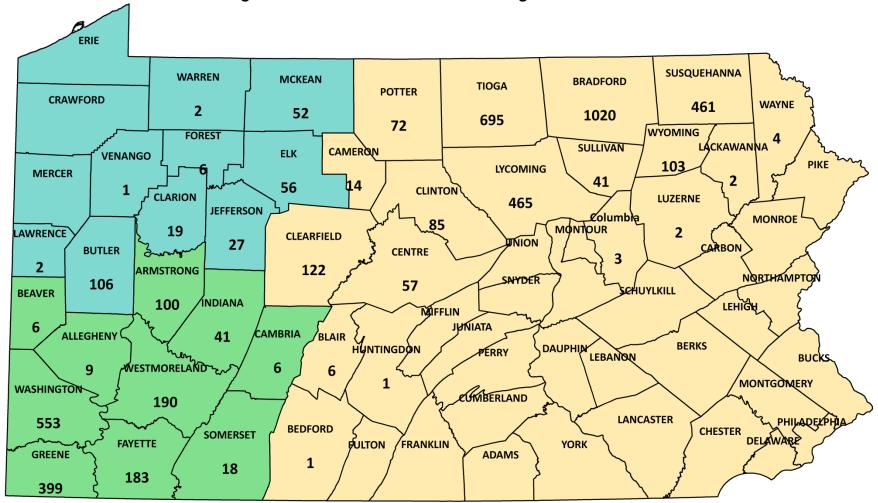








PUC Unconventional Well Numbers
Including Available Historical Data through December 2011



Total: 4930

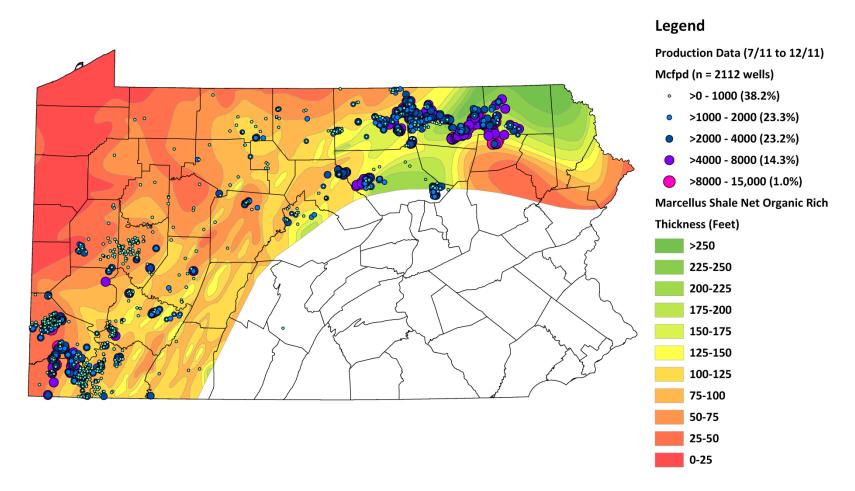








Marcellus Shale Production Data (Base Map Depicts Thickness of Organic Rich Material in Target Formation)



Statutory Overview



Laws and Regulations

- Oil and Gas Act
 - 25 Pa. Code Chapter 78 (relating to Oil and Gas Wells)
- Oil and Gas Conservation Law
- Coal and Gas Resource Coordination Act
- Clean Streams Law
 - 25 Pa. Code Chapter 91 (relating to General Provisions)
 - 25 Pa. Code Chapter 93 (relating to Water Quality Standards)
 - 25 Pa. Code Chapter 95 (relating to Wastewater Treatment Requirements)
 - 25 Pa. Code Chapter 102 (relating to Erosion and Sediment Control)



Laws and Regulations (continued)

- Dam Safety and Encroachments Act
 - 25 Pa. Code Chapter 105 (relating to Dam Safety and Waterway Management)
- Waterway Resources Planning Act
 - 25 Pa. Code 110 (relating to Water Resources Planning)
- Solid Waste Management Act
- Storage Tank and Spill Prevention Act
- Air Pollution Control Act
- Environmental Laboratory Accreditation Act



Overview of Recent Regulatory Changes

- Well Permit Fee Increase
- Act 15 of 2010
- Chapter 78 Well Construction Standards
- Chapter 95 Regulation Revisions
- DEP's Call to Operators



Well Permit Fee Increase

- Marcellus well permit fees were increased from \$100 to an average of \$3,220
 - The fee increases as the length of the well increases
 - The increased well permit fee allowed DEP to substantially increased the oil and gas program staff
 - DEP Oil and Gas staff has increased from approximately 90 in 2008 to 202 in 2012



Act 15 of 2010

Repealed the 5 year confidentiality of production reports

 Required production reporting from Marcellus operators every 6 months instead of annually

Mandates that DEP post all reports online



Chapter 78 Well Construction Standards

 Goal – further prevent gas migration and protect water supplies

 Comprehensive update to well construction, casing and cementing standards

 Expanded well completion reporting requirements, including disclosure of hydraulic fracturing chemicals



Chapter 95 Regulation Revisions

 Limits the discharge of TDS from new or expanded facilities that take oil and gas wastewater to drinking water standards

Does not allow for new discharges that exceed 250 mg/l for chlorides and also removes radium

 Increases the use of recycled water, promotes the development of alternative forms of disposal



DEP's Call to Operators

 Called on Marcellus operators to STOP the delivery of wastewater to 15 water treatment facilities grandfathered in under Chapter 95 Total Dissolved Solids rulemaking (Aug. 2010)

 Public request was made April 19, 2011 and compliance achieved by May 19, 2011



Genesis of Act 13 Marcellus Shale Advisory Commission

- Executive Order 2011-01 Created the Marcellus Shale Advisory Commission
- March 8 July 22, 2011
- Goal: outline a comprehensive plan with recommendations on the safe and responsible development of unconventional natural gas resources within Pennsylvania



A Comprehensive, Strategic Plan

- 96 Recommendations outlining a comprehensive, strategic plan for the responsible development of natural gas drilling in the Commonwealth.
- Every environmental protection recommendation that needed to be accomplished through legislation was included in the Act.
- Unanimously approved by the commission on Friday, July 15, 2011.
- Outlines first major update of Oil and Gas Act in nearly three decades.



A Comprehensive, Strategic Plan

- Culmination of four months of work by commission.
 - 21 public meetings.
 - 60 expert presentations.
 - 100 citizens offered public comments.
 - 650 emails and letters from public.
 - On-site visit to well sites and local businesses in Lycoming and Clinton counties.



ACT 13 of 2012 - Overview

- Consolidates the Oil and Gas Act (Act 223 of 1984) into 58 Pa.C.S. (Oil and Gas)
- Creates six chapters within 58 Pa.C.S.
 - Ch 23 Unconventional Gas Well Fee
 - Ch 25 Oil and Gas Lease Fund
 - Ch 27 Natural Gas Energy Development Program
 - Ch 32 Development
 - Ch 33 Local Ordinances Relating to Oil and Gas Operation
 - Ch 35 Responsibility for Fee



Chapter 23 – Unconventional Gas Well Fee

Annual Agency Distribution

- \$6 m to DEP
- \$1 m to Public Utility Commission
- \$1 m to Fish & Boat Commission
- \$1 m for Rail Freight Assistance
- \$750 k to PEMA
- \$750 k to Office of State Fire Commissioner
- \$20 m natural gas vehicle incentives (3 year total)
- \$7.5 m to Conservation Districts (budget offset)



Chapter 23 – Unconventional Gas Well Fee

Direct Local Share

- 60% distributed as follows:
 - \$5 million annually to affordable housing
 - 36% of balance to counties with wells
 - 37% of balance to municipalities with wells
 - 27% of balance to all municipalities in counties with wells



Chapter 23 – Unconventional Gas Well Fee

Indirect Local Share

- 40% to Marcellus Legacy Fund
- Combined with transfers from Oil & Gas Lease Fund and distributed as follows:
 - 25% to local bridge improvement fund
 - 25% split between PENNVEST and H2O
 - 20% to Commonwealth Financing Authority
 - 15% counties for parks, recreation and open space
 - 10% to Environmental Stewardship Fund
 - 5% for refinery assistance and ethane processing for three years; thereafter to HSCA

Chapter 25 – Oil & Gas Lease Fund

- Establishes priority for use of funds for Department of Conservation and Natural Resources (first \$50 million reserved for DCNR under state Fiscal Code)
- Authorizes following transfers:
 - 2013: \$20 million to Environmental Stewardship Fund (ESF)
 - 2014 and thereafter: \$35 million to ESF
 - 2015: \$5 million to Hazardous Sites Cleanup Fund (HSCA)
 - 2015 and thereafter: \$15 million to HSCA



Chapter 27 – Natural Gas Energy Development Program

- Creates 3-year, \$20 million program to incentive vehicle fleet conversion to use CNG or LNG
- Administered by Department of Environmental Protection
- Reserved for vehicles of 14,000 lbs or greater
- At least 50% of funds to be available for mass transmit and other local transportation organizations



Chapter 32 – Development

Codifies and enhances Oil and Gas Act

 Distinguishes standards between conventional and unconventional oil and gas wells

 Provides enhanced permitting, resources protection and enforcement standards



Permitting

- Permit notice extended from 1,000 ft to 3,000 ft
- Notice provided to host municipality and all adjacent municipalities
- Orphan well adoption permit
- Increased well permit denial authority
 - Evaluate parent and subsidiary compliance history
 - Failure to pay impact fee



Bonding

- Current \$2,500/well or \$25,000 blanket bond
- New: two bond schedules:
 - < 6,000 feet</p>
 - · > 6,000 feet
- Based on number of operating wells
- Maximum blanket bond increase to \$850,000



Resource Protection

- Well setbacks extended:
 - From buildings and water wells: 200 feet to 500 feet
 - From streams and water bodies: 100 feet to 300 feet
 - From public water supplies: 1,000 feet
- Expands rebuttable presumption distance from 1,000 feet to 2,500 feet and duration from six months to 12 months after well completion



Resource Protection

- Enhanced floodplain protection
- Establishes standards for containment on well sites
- Requires annual inventory of air emissions



Inspection and Transparency

 Requires on-site inspection after erosion and sediment controls in place but prior to drilling

 Enhances hydraulic fracturing chemical disclosure, including use of FracFocus.org

 Requires 24 hour notice to DEP prior to commencing critical drilling stages



Enhanced Enforcement

Increases civil penalties from \$25,000 to \$75,000

 Permits DEP to assess civil penalties (currently Environmental Hearing Board)

 Requires DEP to post site inspections, violations and remedial actions taken online











For more information, including frequently asked questions, visit:

www.depweb.state.pa.us

click on the _____ graphic.













Upcoming Act 13 Webinars

Tuesday, April 3 – Permitting and Notifications

Tuesday, April 10 – Environmental Protections & Enhancements

Tuesday, April 17 – Inspection & Enforcement

All sessions 1 p.m.-2 p.m.

Registration information is available on DEP's Act 13 website











Additional Questions? E-mail: ra-epoilandgas@pa.gov

