



ANADARKO PETROLEUM CORPORATION

Developing the Marcellus Shale Facing the Challenges of Pennsylvania

SPE-GCS Northside February 8, 2011



Cautionary Statement

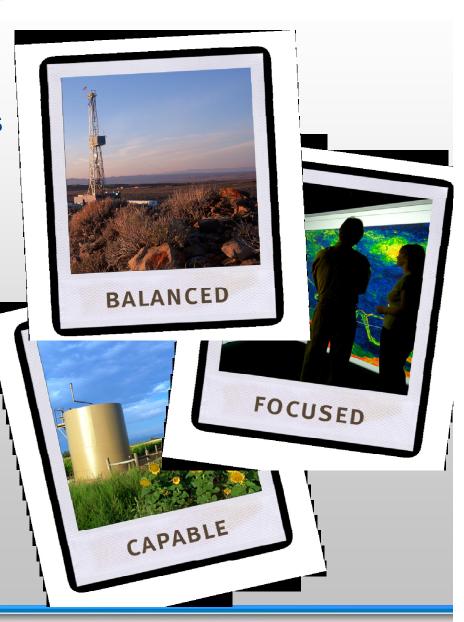
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Anadarko Petroleum Corporation

- One of the World's Largest Independent Oil and Natural Gas Exploration and Production Companies
- 2.4 BBOE of Proved Reserves at Year-End 2010
- Approximately 4,300 Employees Worldwide
- Total Assets of Approximately\$50 Billion at Year-End 2010



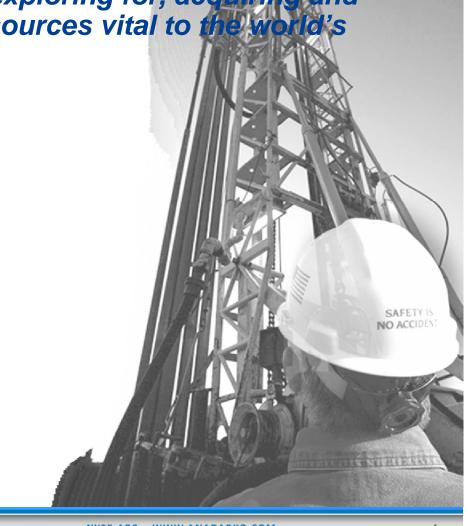


Our Mission and Values

Anadarko's mission is to provide a competitive and sustainable rate of return to shareholders by exploring for, acquiring and developing oil and natural gas resources vital to the world's

health and welfare.

- Integrity and Trust
- Servant Leadership
- People and Passion
- Commercial Focus
- Open Communication



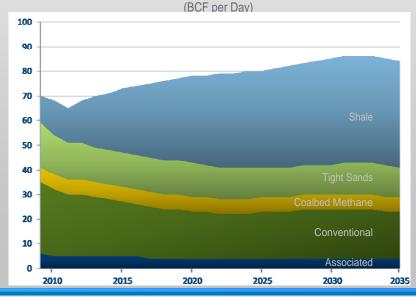


Rise of the Shale Plays

- Natural gas is key to cleaner, more secure energy future
- Growth from NA natural gas coming from shale plays
- Unlocking potential means addressing technical and operational challenges
- Developing Marcellus Shale requires strong relationships with all stakeholders

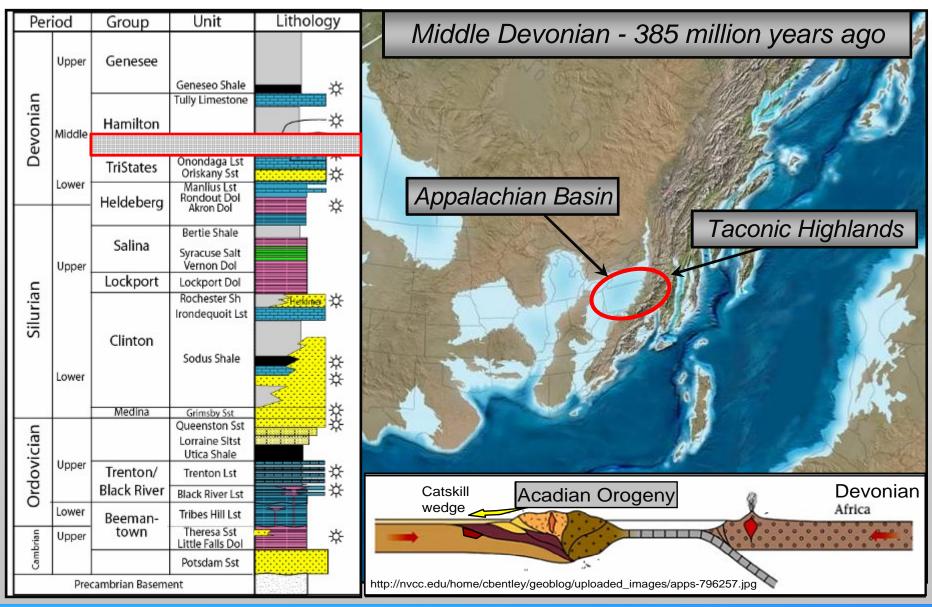


North American Dry Gas Productive Capacity





Appalachian Basin: Stratigraphic Column

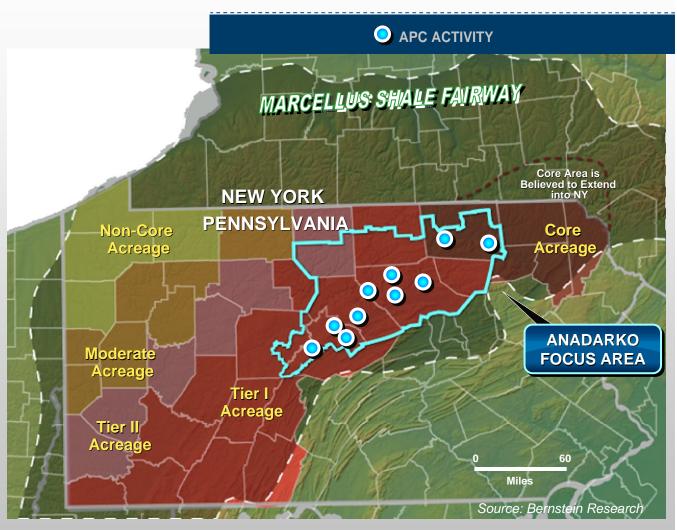




Marcellus Shale: All the Right Ingredients

A Great Combination

- Thickness
- Maturity
- Over-Pressured
- Higher Recovery
- Acreage Position
- Infrastructure
- Premium NaturalGas Market





Marcellus Shale: Greatest Potential

	Total	Reserve
Play	Resource	Potential
	(Tcf)	(Tcf)

Marcellus	1500	363
Barnett	168	44
Fayetteville	52	26-42
Woodford	23	11
Haynesville	717	215





Resource numbers are from public data sources.

Gross Acreage: ~760,000

Net Acreage: ~334,000



Current APC Activity

Marcellus Shale Play



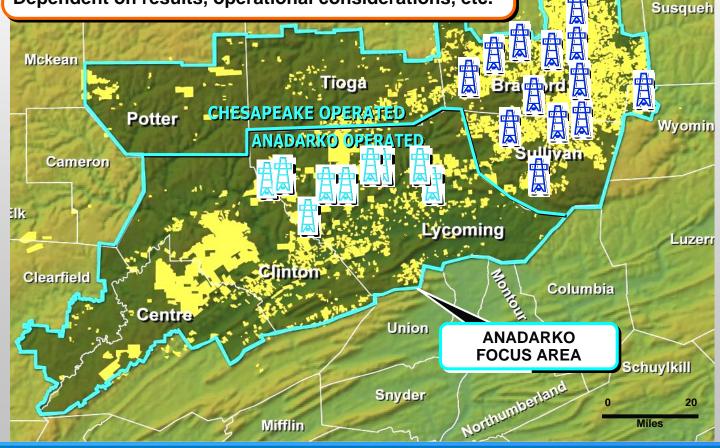
 Operated Rigs
 Non-Operated Rigs

 YE2010:
 7+1 rigs
 YE2010:
 13 rigs

 Current:
 8+1 rigs
 Current:
 15 rigs

 YE2011:
 (8-10)+(1-2) rigs
 YE2011:
 12-15 rigs

Dependent on results, operational considerations, etc.



OPERATED RIGS

NON-OPERATED RIGS



Technical Drivers

Key Deliverable: Understanding what controls performance

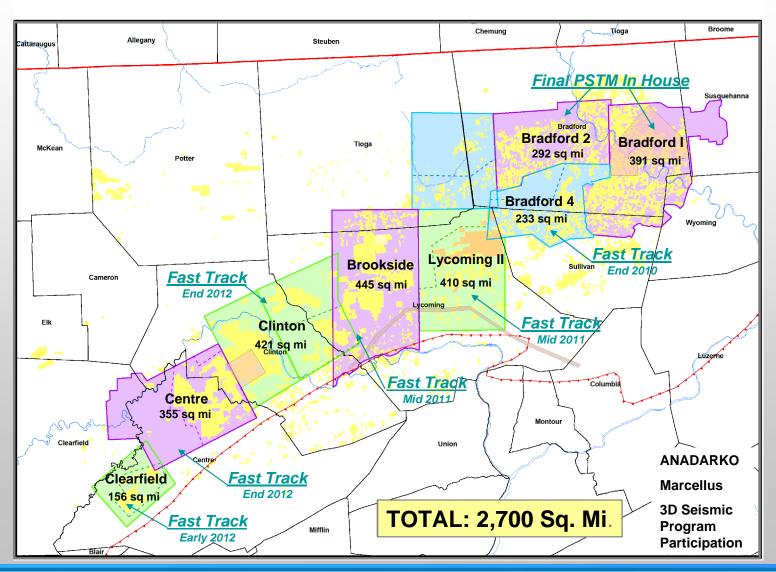
- Structural complexity
- Lateral placement
- Lateral orientation azimuth
- Lateral lengths
- Role of natural fractures
- Heterogeneity
- Completion optimization
- Optimal Spacing





Structural Complexity

MARCELLUS 3D SEISMIC PROGRAM



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Basic Well Configuration

Multiple well pads

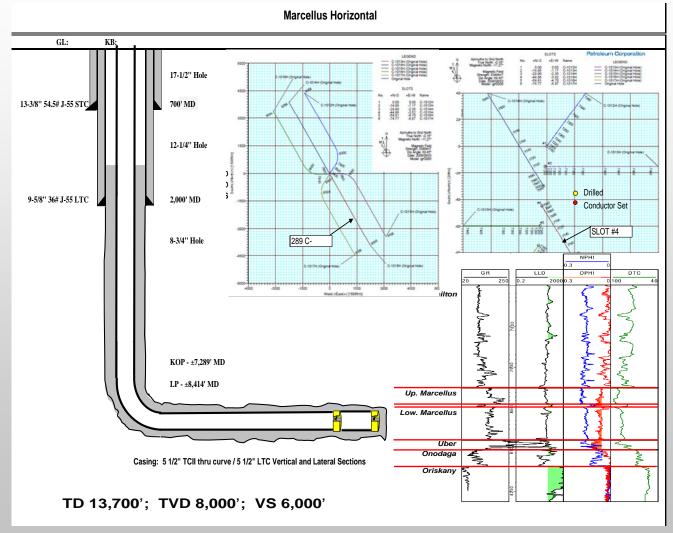
- Collision issues
- Batch drilling
- Skidding package

Target L. Marcellus

- 330° / 150° azimuth
- 3500'-7000' laterals
- 1,000' separation

Optimization

- Spudder rig
- Cuttings
- Slimhole design

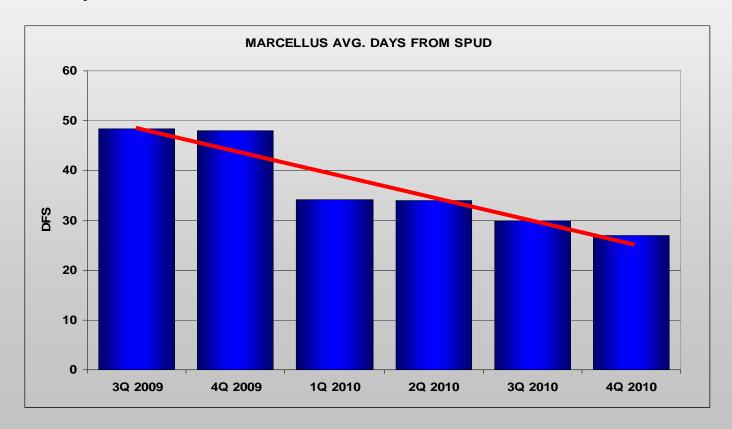




Operated Drilling Cycle Time

Significant improvements driving down cycle times

- Cycle times reduced by ~ 50% while lateral lengths increased by ~ 40%
- Record well spud to RR 19.2 days (14,756' MD, 6,802' VS)
- Skid operations 12 hours



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Cycle Times: Spudder Rigs





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Completions Optimization

Basic completion design

- 10-15 stages per well
- 300' to 500' between stages
- Perf and plug (pump down)

Stage design

- 7,000 to 10,000 bbls water
- 350,000 to 500,000 lbs
- 40/70 sand and 100 mesh
- 2-3 ppg concentration
- Gel sweeps

Cycle times

- 3-4 stages/day
- Water is key

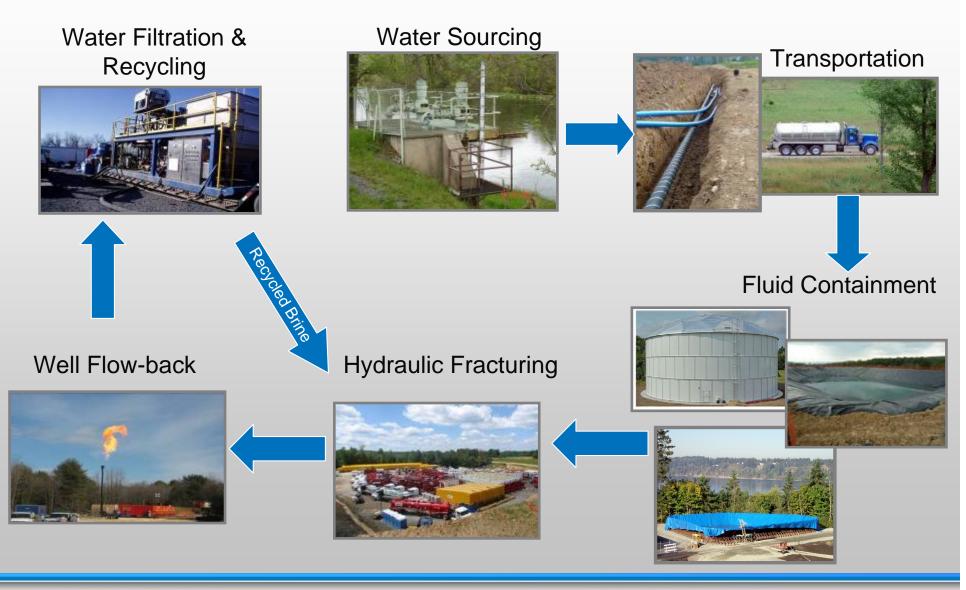








Water Management: Reduce, Re-Use, Recycle





Fostering Coalitions with Stakeholders

Cooperative development unlocks potential

- Tremendous resource potential for industry
- Lower energy costs from cleaner, secure source
- Job creation and local economic development
- Royalties paid to mineral owners (incl Commonwealth)

Focus on safety and the environment

- Protect world class natural resources and diversity
- Manage water resources and limit surface disturbance
- Improve the road infrastructure

Innovation leads to cooperative solutions

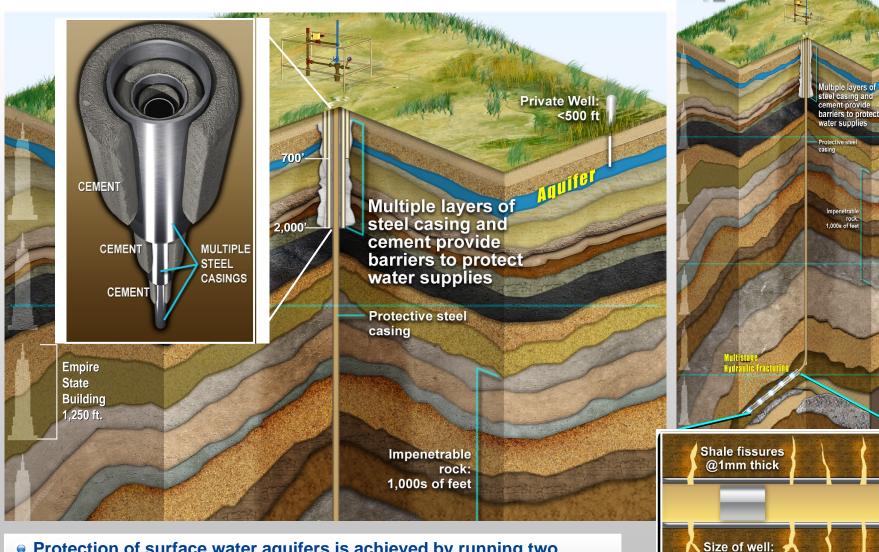
- Groundwater protection
- Water recycling and reclamation
- Multi-well pad development
- Closed loop drilling
- Containment technologies



Empire State



Spotlight: Groundwater Protection



 Protection of surface water aquifers is achieved by running two strings of pipe and cementing across the water located above 700'

6" diameter



Spotlight: Water Use

Water Use vs. Other Energy Technologies

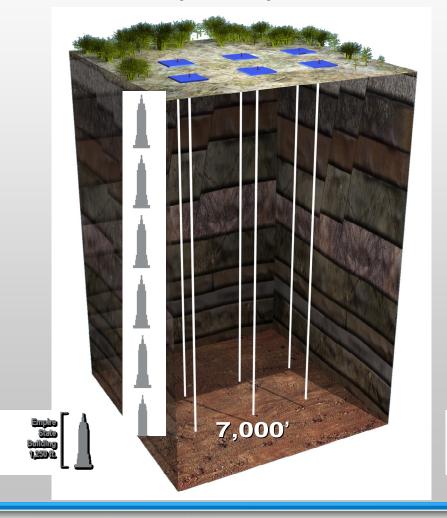
Energy Resource	Water Used vs Energy Produced (gals/mmbtu energy produced)	Midpoint
Deep Shale Natural Gas	0.60 - 5.8	3
Nuclear (uranium - power plant use)	8 - 14	11
Conventional Oil	8 - 20	14
Synfuel- Coal Gasification	11 - 26	18.5
Coal (power plant use)	13 - 32	22.5
Oil Shale	22 - 56	39
Tar Sands	27 - 68	47.5
Synfuel- Fisher Tropsch (from coal)	41 - 60	50.5
Enhanced Oil Recovery (EOR)	21 - 2,500	1,260.5
Fuel Ethanol (from corn)	2,510 - 29,100	15,805
Biodiesel (from soy)	14,000 - 75,000	44,500

Source: The Groundwater Protection Council and the U.S. Department of Energy



Spotlight: Responsible Surface Use

Traditional development with vertical wells requiring one pad site per well



Multi-well development minimizing surface use with 6-12 wells drilled from a single pad site





Responsible Surface Use (One DCNR Area)

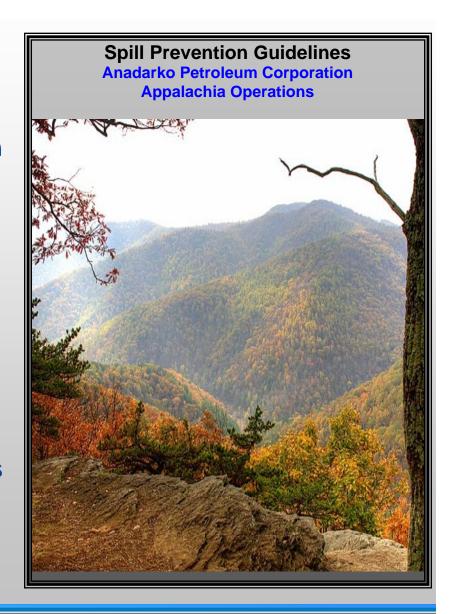
Surface Use	Area (acres)
Pad locations & road access (15)	140
Water Containment	21
Water lines	14
Midstream Pipelines	110*
Compressor Stations	10
Total Use	295
Tract Area Produced	15,309
% of Total Area Used	<2%

^{*} NOTE: attempt to route pipelines in previously-disturbed ROWs



Spotlight: Spill Prevention Guidelines

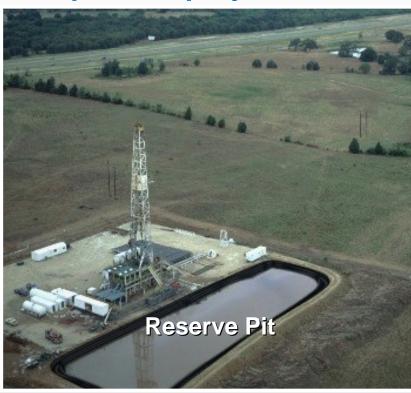
- Establishes Goal of Zero Spills
- Documents Proactive Spill Prevention Steps Being Taken
- Establishes Anadarko Employee Expectations
- Establishes Contractor Expectations
- "Zero Spill Zone" & "Eyes On"
- 3rd Party Audits & "What if" Scenarios





What is a Closed Loop System?

Open Loop System



Captures cuttings and stores them in a lined reserve pit.

Closed Loop System



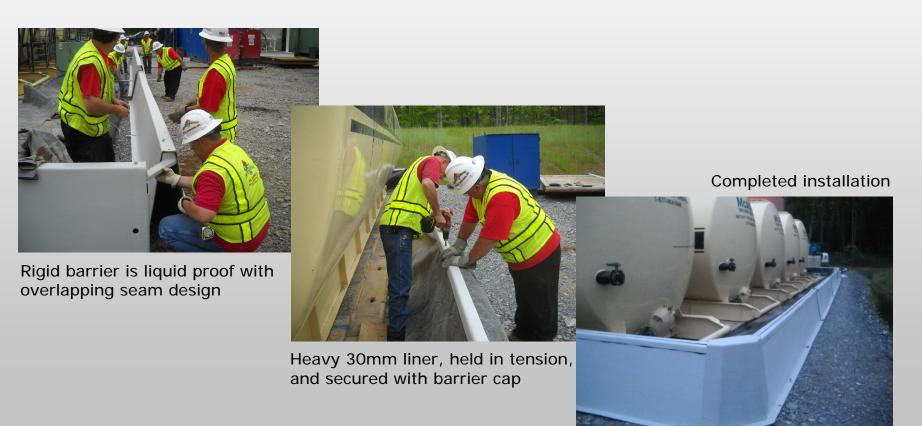
Captures cuttings without the need for a reserve pit. The contained cuttings can be recycled or safely transported to an approved landfill.



Containment Technology Applications

Drilling Phase

- Engineered containment around SBM reserve tanks and SBM base fluid
- Liner under all rig mats and 8'x14' work area mats





Containment Technology Applications

Completion Phase

- Line entire location under frac equipment and fluid storage
 - Material is static-free, anti-slip, and tear-resistant
 - Liner extends to solid barriers/conduits on perimeter (12" to 18")
- Continuous visual inspection with repair/replace capability on site
- Non-fresh water exclusively stored on site and within containment
- Separate, individual containment units under engines/pumps
- Permanent tank batteries located within steel containment and lined







EHS: Committed to Continuous Improvement



ENVIRONMENT, HEALTH AND SAFETY AT ANADARKO PETROLEUM CORPORATION

Mission: To respect and protect the safety and health of the public, our employees, our contractors and the environment in all countries and communities in which we conduct our business.

Vision: To achieve excellence in our safety, health and environmental performance.

Policy: In achieving our Mission and Vision, our Policy is to:

- · Promote a culture that allows for employee involvement in maintaining a safe work environment while recognizing that safety, health and environmental incidents are preventable;
- · Strive for zero injuries and incidents;
- . Be a recognized leader in environmental stewardship;
- · Promote continuous improvement in our processes, reducing risk to safety, health and the environment; and
- · Adhere to applicable laws, regulations, Company policies and procedures, and recognized standards.

Everyone has the responsibility, and will be held accountable, to work safely and in an environmentally sound manner.

- . Our number one priority is the safety and well-being of the public, our employees, and contractors.
- · Our business activities will be conducted to minimize our environmental impact.

Chief Operating Officer

Pathway to Excellence

Proven Approach to make the Company's EHS Mission, Vision and Policy an Operational Reality

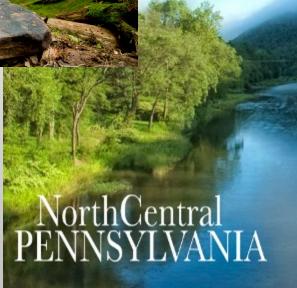
Clearly Defines that Everyone is Accountable for EHS Performance



Local Philanthropic Program 2009/2010 Contributions and Projects



\$15,000 contribution to Pennsylvania College of Technology "Fit for Natural Gas" Program





Anadarko Funds Stream Restoration Projects in Marcellus

Anadarko recently made a contribution to the Northcentral Pennsylvania Conservancy to purchase materials for stream restoration projects in the Pine Creek watershed.





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