



County of Lycoming
Community Gas Exploration Task Force
Public Safety Sub-committee



Marcellus Shale Emergency Response Preparedness

MARCELLUS SHALE SUMMITT
November 17-18, 2011

Community Gas Exploration Task Force Sub- Committees

- 
- Economic Development
 - Education
 - Environment
 - Public Policy & Legal Issues
 - Planning & Zoning
 - **Public Safety**

Public Safety Sub-Committee

- Hazardous Materials Planner
- DEP Emergency Response
- Pennsylvania State Police
- Local Health Care System
- Volunteer Fire Chief
- Former County Commissioner
- 911 Manager
- Deputy Fire Chief
- County Coroner / EMS



Mission Statement

“Contribute to the improvement of life by fostering a safe and secure arena for the exploration and production of the area’s natural gas resource. This is accomplished by maintaining a leadership role that promotes programs, methods, and approaches to educate both emergency responders and the general public of the County of Lycoming.”

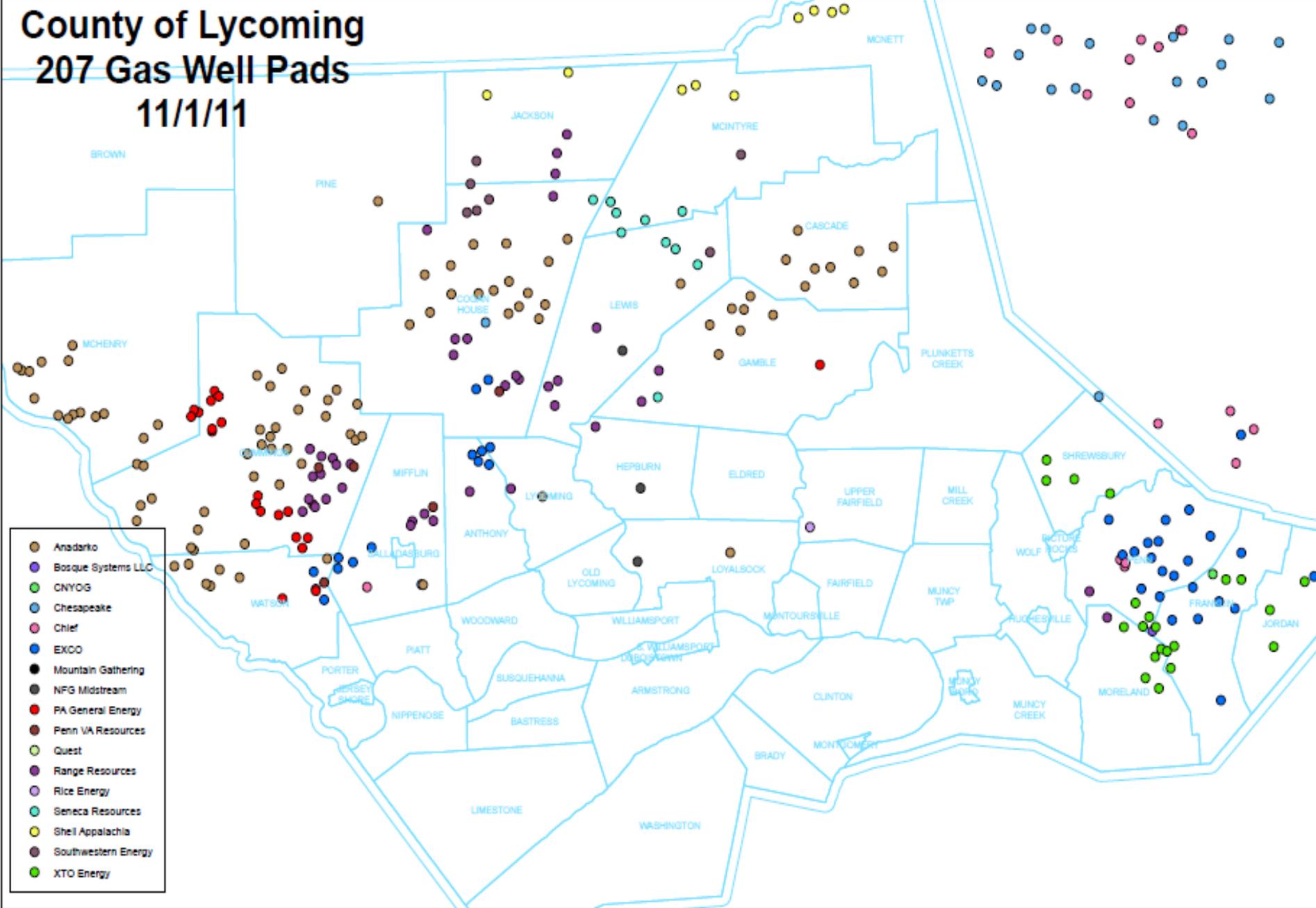
Short Term Goal

1. Amend County 911 addressing ordinance to reflect gas wells, compressor stations and impoundments.

County of Lycoming

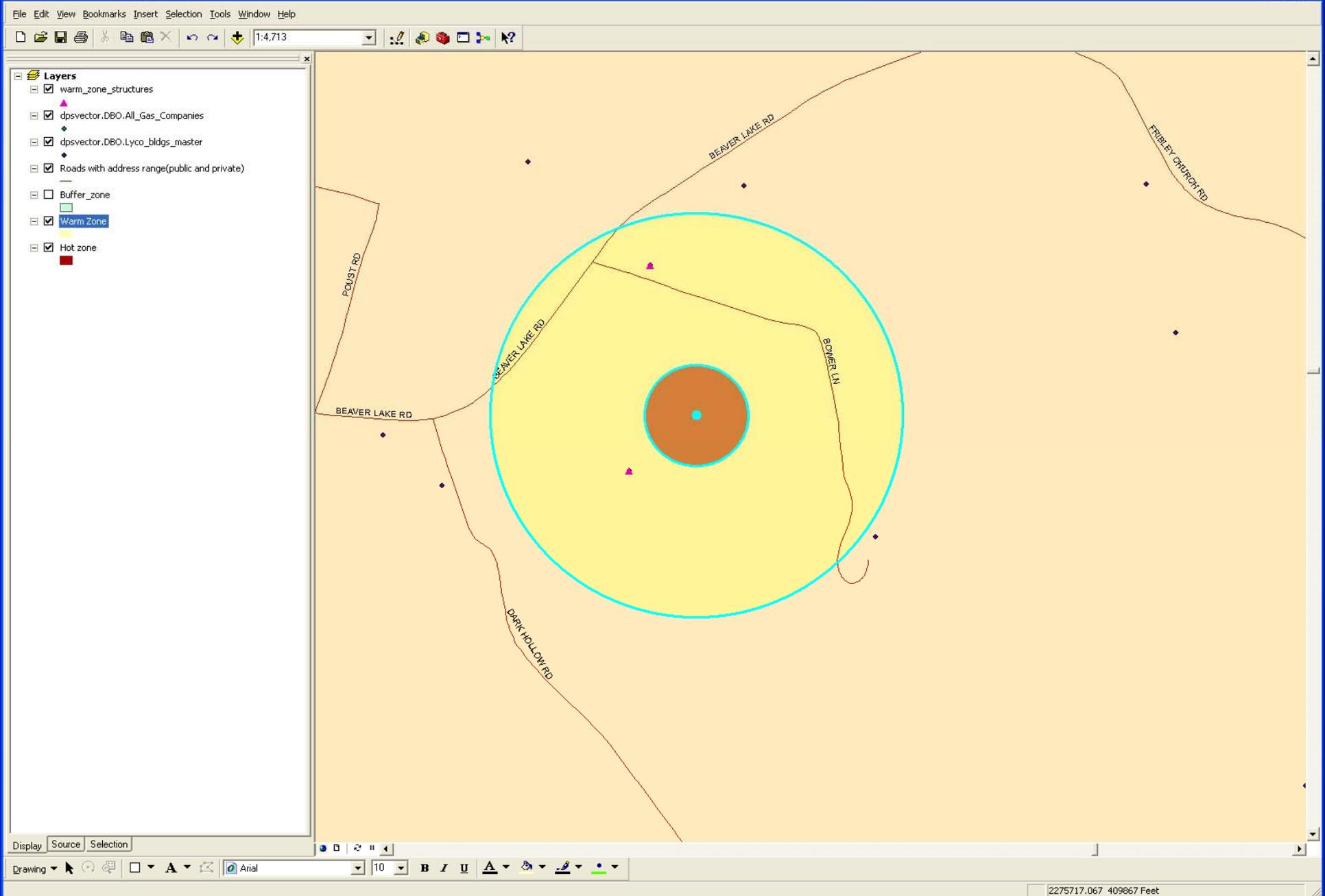
207 Gas Well Pads

11/1/11



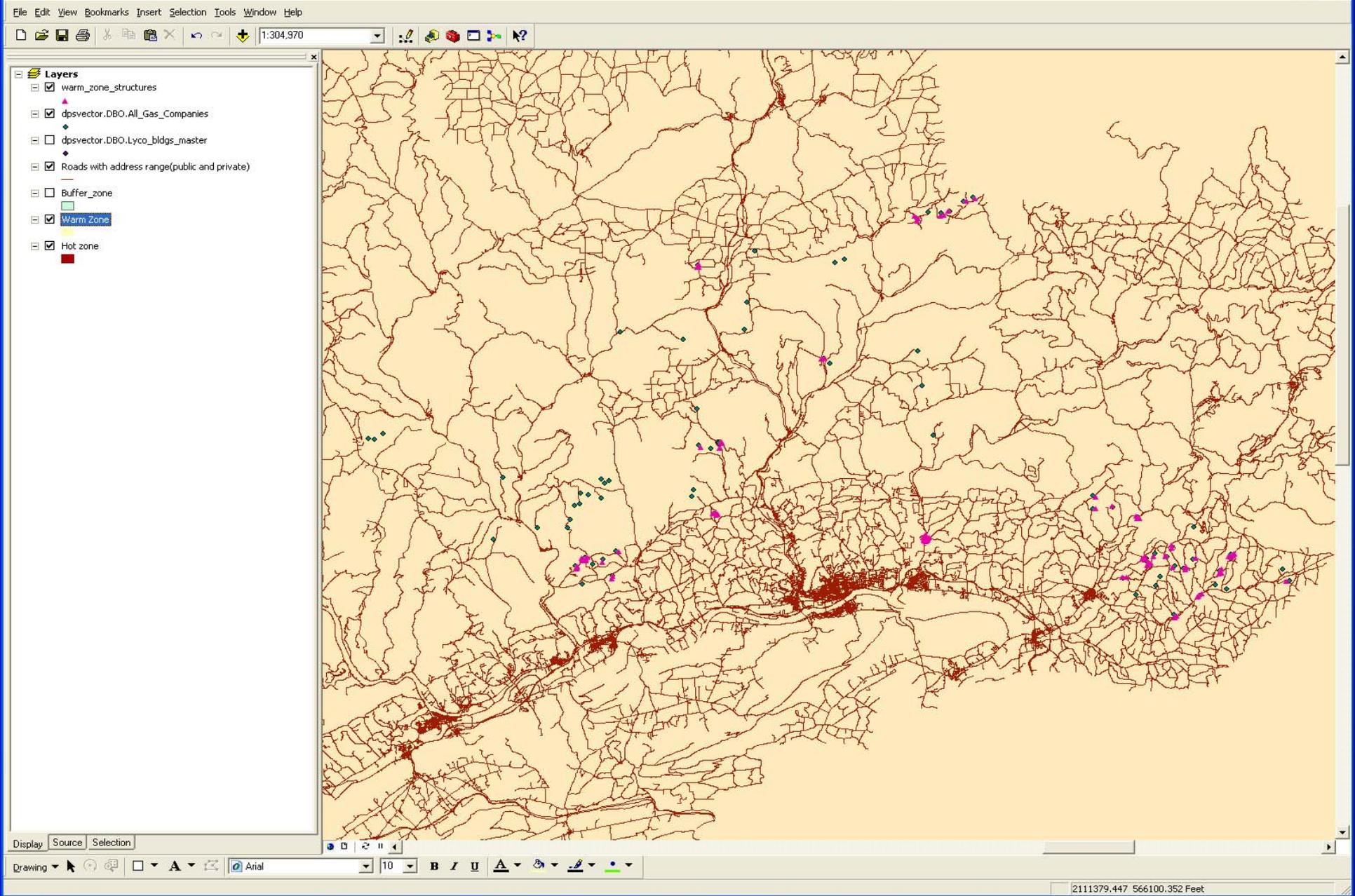
Additional 911 Addressing advantages

A. Can be used to pre-establish hot/warm zones around well sites according to industry standards and viewed at the countywide level.



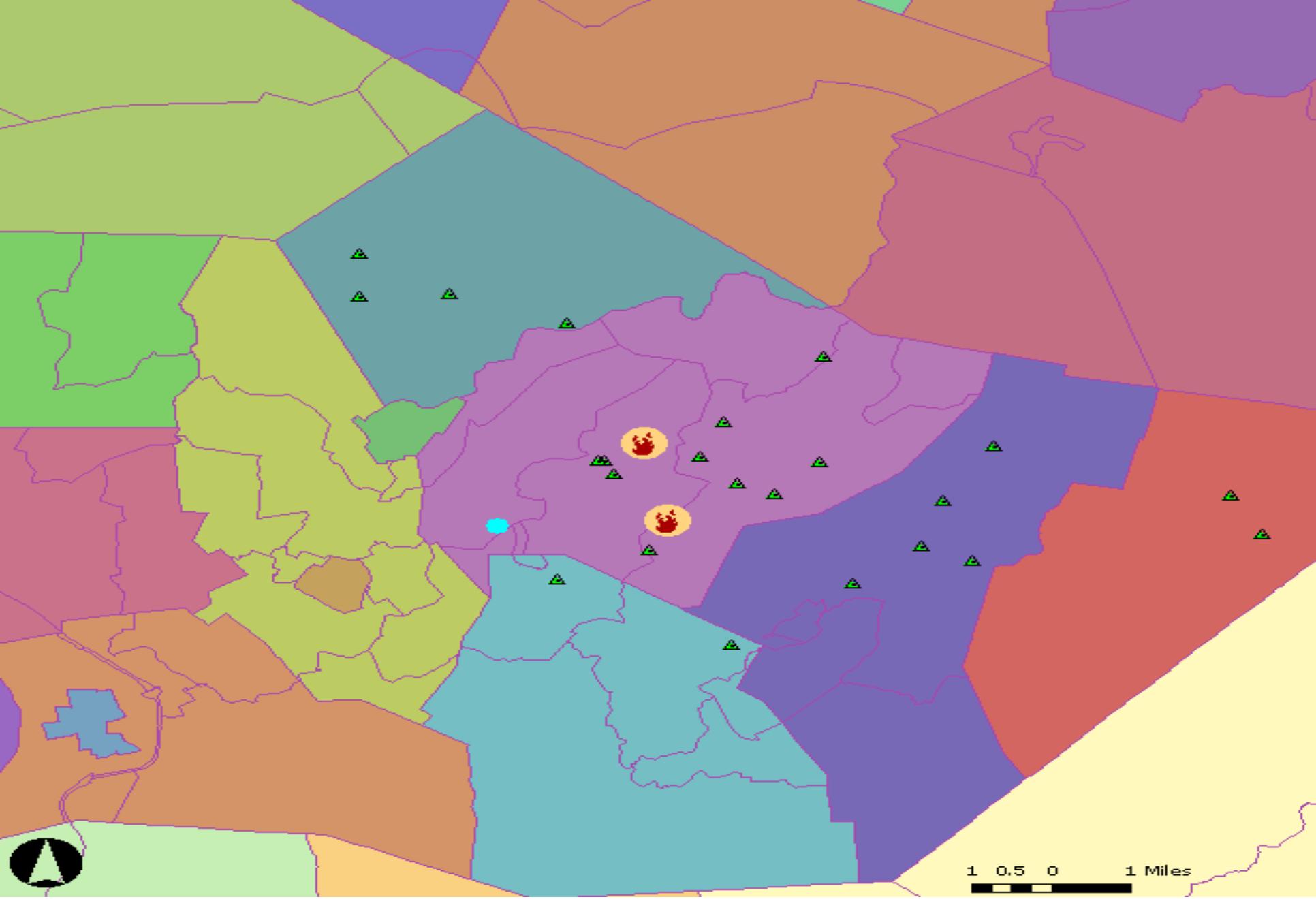
Additional 911 Addressing advantages

B. The impact on potential evacuation routes can be analyzed in near real time.



Additional 911 Addressing advantages

C. Pin point well location and overlay property information, roads, streams etc.



Short Term Goal

2. Provide awareness training to emergency responders and regional rescue resources.

Multi-agency Training



“Gas Exploration, Drilling & Production Hazards Awareness”

Audience

- Fire/EMS, Law Enforcement, Emergency Management Coordinators, Elected Officials

Venues

FD meetings, EMA Qtrly, Law Enforcement Associations, Technical Rescue Taskforce

Total Attendees

500 +

Mid Term Goal

1. Identify specialized emergency response training, support documentation and equipment needed to sustain response to such incidents.

Develop “Gap Analysis”

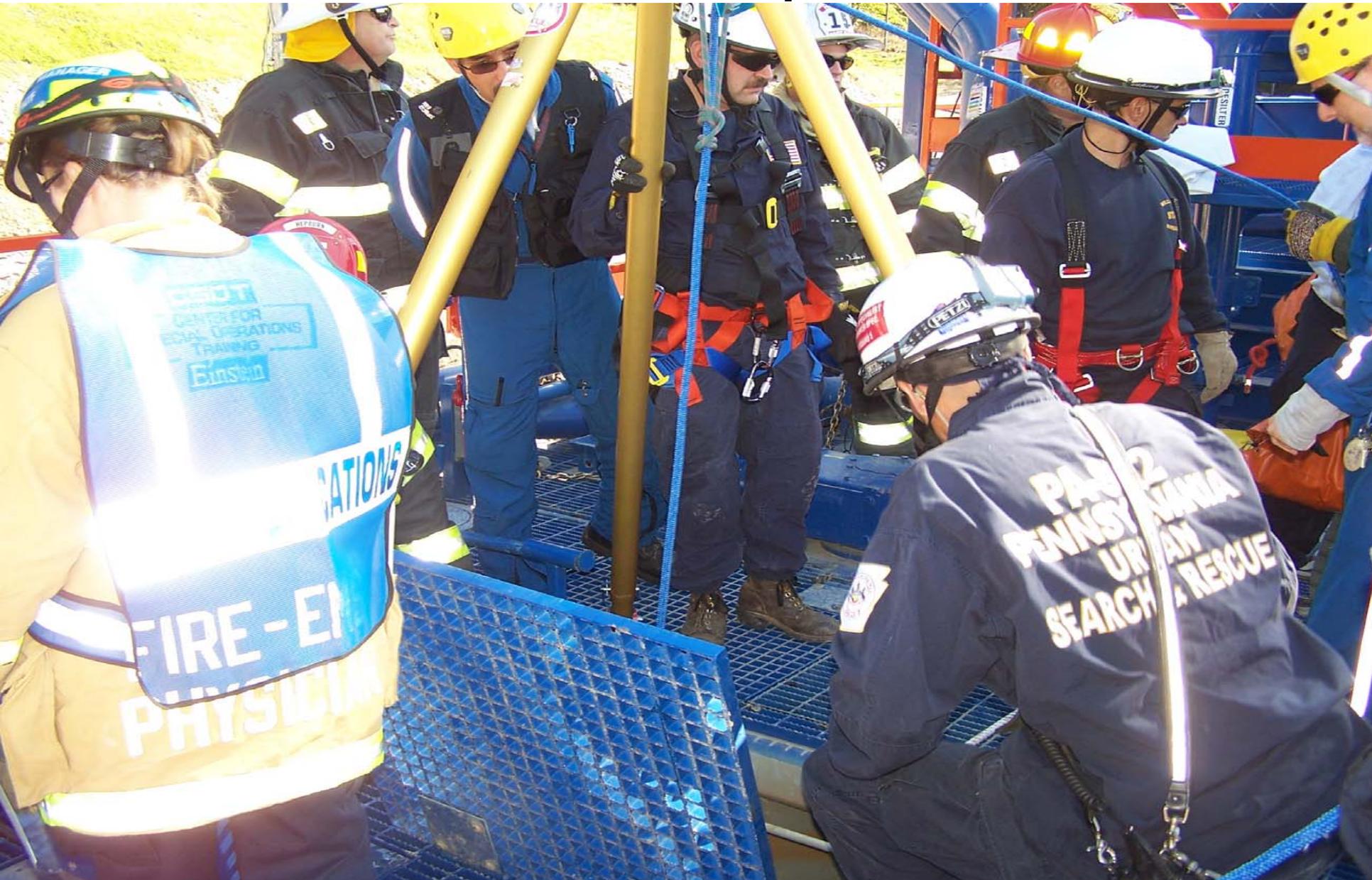
*Range Resources
Lycoming County Gas Task Force Safety Committee
September 2009*



High Angle



Confined Space



Gap Analysis (Snapshot)

1. ALL – Basic hazards awareness associated with the industry.
2. EMS - crush syndrome injuries / suspension injuries training.
3. Fire – establish a foam task force
4. Rescue – Rope rescue / Air monitoring training and equipment
5. Industry – NIMS / Unified Command training



Long Term Goal

1. Develop Safety & Training Consortium

- a. To develop a practical, reliable, and competent community emergency response capacity.
- b. Explore industry expectations for the responder community.
- c. Look for gaps and how to fill them in a manner that is supported by the responders and the industry.

Safety & Training Consortium

(formed November 2009)

Industry

Anadarko, Aruba Petroleum, Baker – Hughes, Chief Oil & Gas LLC, Clean Harbors, Dallas-Morris Drilling, Shell, EXCO, Halliburton, PA General Energy, Range Resources, Red oak Water Transfer, Seneca Resources, XTO Energy

Agencies

EPA, FBI, OSHA, PSP, fire/EMS, haz mat, local law enforcement

Training To Date

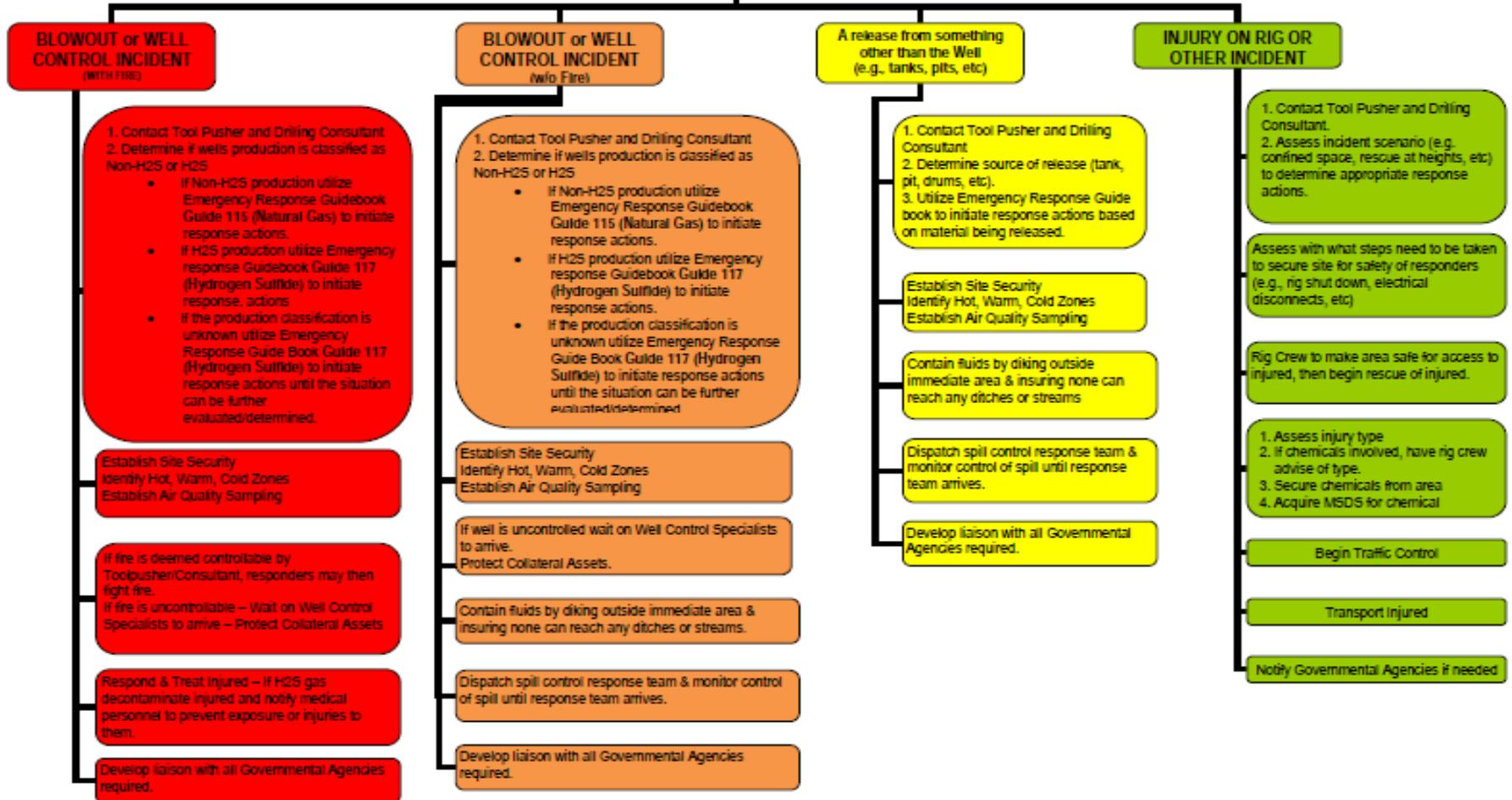
Lycoming County: 35 + classes offered in the areas of Fire/EMS, Law Enforcement and EMA with over 1,000 emergency responders in attendance.



Tools for the Responders

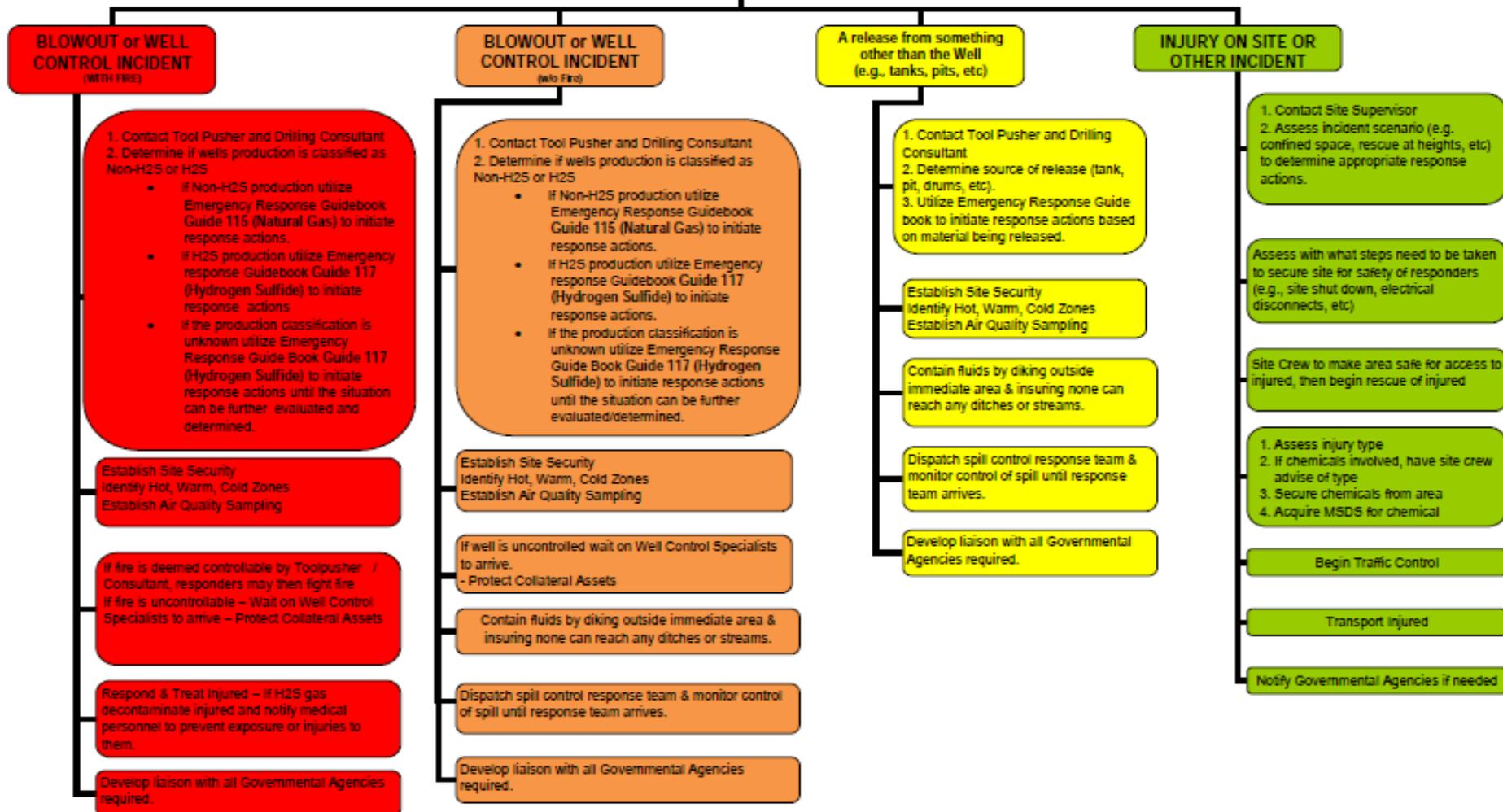
Fire / Rescue Response

DRILLING STAGE



Fire / Rescue Response

COMPLETIONS "Facing" STAGE



Glossary of Terms

Annulus: the space around a pipe in a well bore, sometimes termed the annular space.

Barrel: a measure of volume for petroleum products in the United States. One barrel is the equivalent of 42 U.S. gallons

Blowout Preventer (BOP): one or more valves installed at the wellhead to prevent the escape of pressure either in the annular space between the casing and the drill pipe or in open hole during drilling or completion operations.

Bottomhole: the lowest or deepest part of a well.

Brine: water that has a quantity of salt, especially sodium chloride, dissolved in it; salt water.

Bulk tank: on a drilling rig, a large metal bin that usually holds a large amount of a certain mud additive that is used in large quantities in the makeup of the drilling fluid.

Casing: 1. steel pipe placed in an oil or gas well to prevent the wall of the hole from caving in, to prevent movement of fluids from one formation to another and to aid in well control.

Casing string: the entire length of all the joints of casing run in a well.

Cellar: a pit in the ground to provide additional height between the rig floor and the well head.

Cement: a powder consisting of alumina, silica, lime, and other substances that hardens when mixed with water. Extensively used in the oil industry to bond casing to the walls of the wellbore.

Company man: an employee of an operating company who supervises the operations at a drilling site or well site. Also called company hand, operator's representative.

Derrick: a large load-bearing structure, usually of bolted construction. In drilling, the standard derrick has four legs standing at the corners of the substructure and reaching to the crown block. The substructure is an assembly of heavy beams used to elevate the derrick and provide space to install blowout preventers, casingheads, and so forth.

Doghouse: a small enclosure on the rig floor used as an office and/or as a storehouse for small objects. Also, any small building used as an office or for storage.

Downhole: pertaining to the wellbore.

Frac fluid: a fluid used in the fracturing process. Under extremely high hydraulic pressure, frac fluids (such as distillate, diesel fuel, crude oil, dilute hydrochloric acid, water, or kerosene) are pumped downward through production tubing or drill pipe. The pressure causes cracks to open in the formation, and the fluid penetrates the formation through the cracks. ie: Sand, aluminum pellets or similar materials (propping agents) are carried in suspension by the fluid into the cracks.

Geronimo line: an escape line that provides a rapid escape path for the derrickman should well conditions or massive mechanical failure warrant.

Horizontal drilling: deviation of the borehole from vertical so that the borehole penetrates a productive formation in a manner parallel to the formation.

Hydraulic fracturing (fracing): an operation in which a specially blended liquid is pumped down a well and into a formation under pressure high enough to cause the formation to crack open.





LYCOMING COUNTY GOVERNMENT
Lyco.org
Committed To Our Community

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Lycoming County, Pennsylvania

Departments > Public Safety > Gas Well/Energy Development Information

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Gas Well/Energy Development Information

- [Gas Industry Vehicle Identification](#)
- [Fire/Rescue Response Completions Fracing Stage](#)
- [Fire/Rescue Response Drilling Stage](#)
- [Glossary of Terms](#)
- [OSHA Directive - Flame Resistant Clothing](#)
- [Fire Fighting Foam Considerations](#)
- [ICS Sample provided by Wild Well](#)

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Tools for the Industry



Emergency Contact Card

EMERGENCY NUMBER

911

SATELLITE EMERGENCY NUMBER

570-433-3696

NON-EMERGENCY
FLARINGS OR BLOWDOWNS
570-433-3166

PA STATE POLICE MONTOURSVILLE
570-368-5700

LYCOMING CO POLICE AGENCIES
570-433-3166



HOSPITALS

Bradford County

Robert Packer 1-888-448-8474
Towanda Memorial 570-265-2191

Lycoming County

Williamsport 570-326-8000
Jersey Shore 570-398-0100
Muncy Valley 570-546-8282

Tioga County

Soldiers & Sailors 570-723-7764

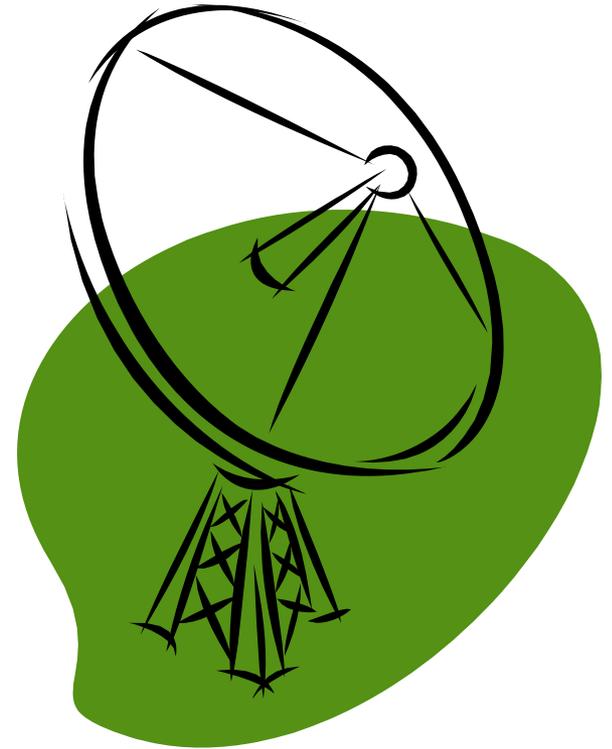
Potter County

Charles Cole 814-274-9301

Cell vs Satellite



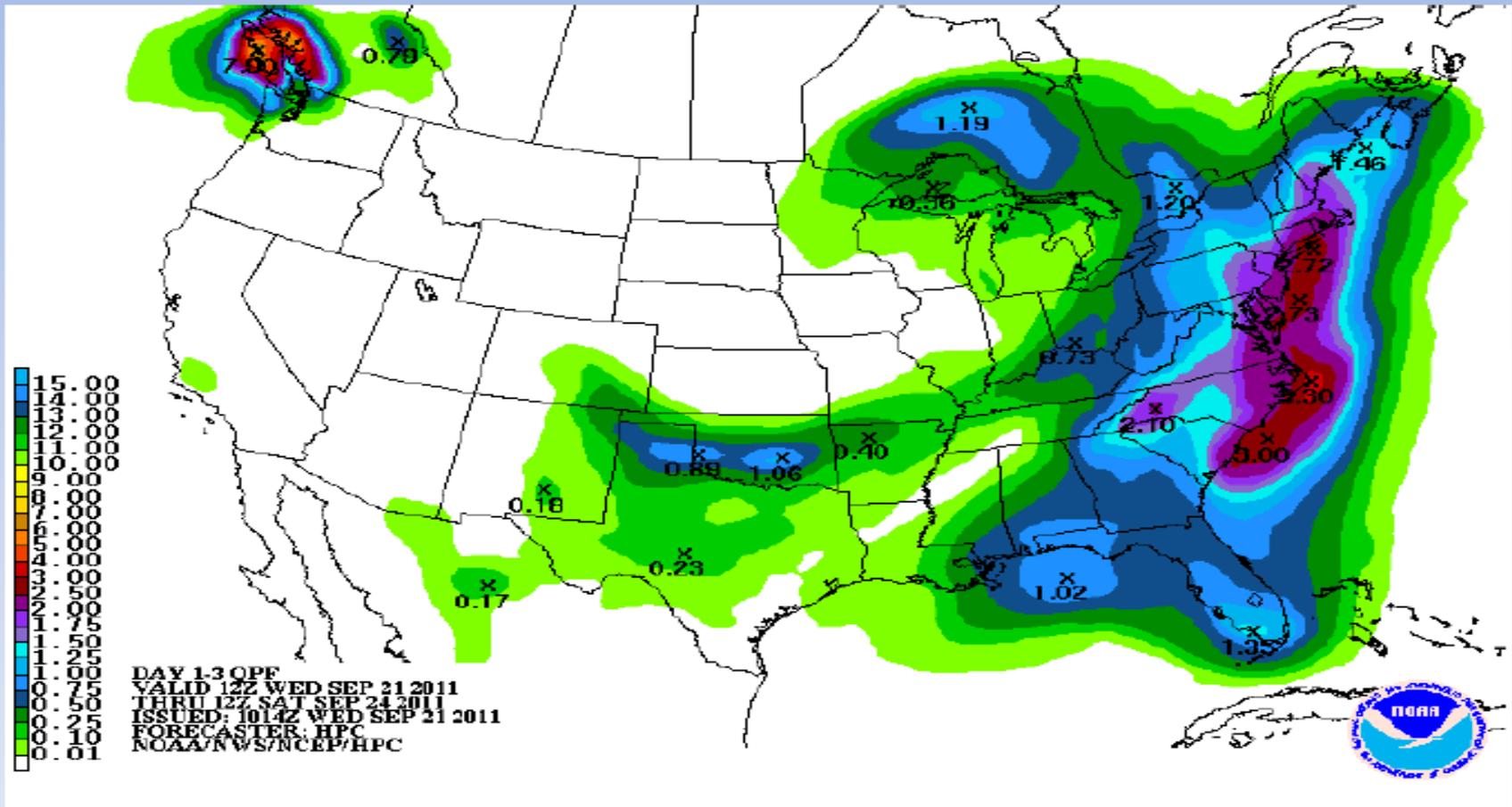
VS



Weather Update

3-day Total Rainfall Forecast

Wed 9/21- 8 AM thru Sat 9/24- 8AM





Initiatives

“Wellsite Emergency for First Responder”



MARCELLUS
SHALE COALITION



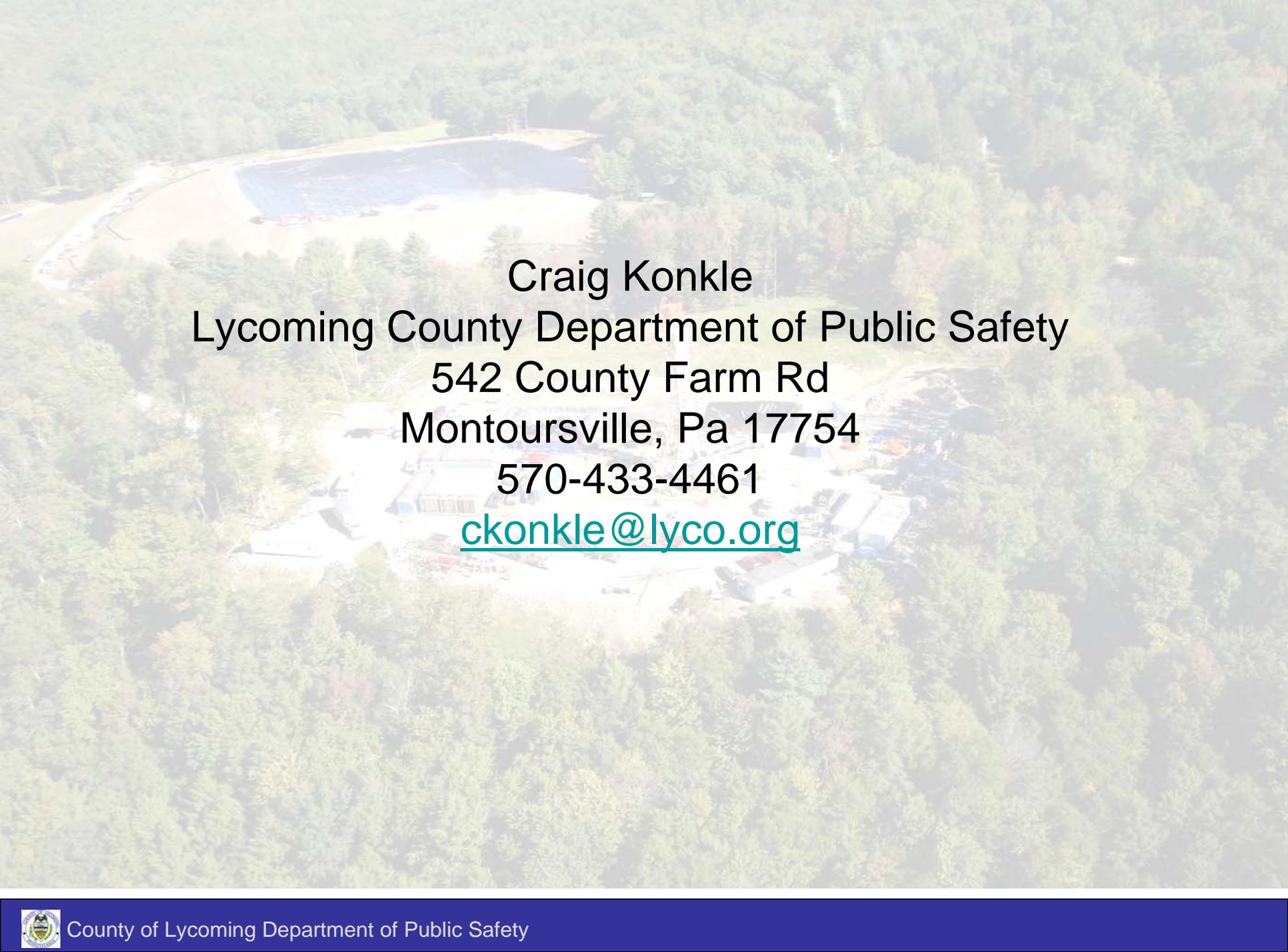
Natural Gas Applied Technology & Safety Training Center

Pennsylvania College of Technology





NOTICE
Private Property
No Trespassing

An aerial photograph of a wooded area. In the upper left, there is a swimming pool with a sandy beach area. In the center, there is a large building complex, likely a school or community center, surrounded by trees. The text is overlaid on the center of the image.

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