



# **Hazardous Materials Emergency Response Plan for Unconventional Well Sites**

FOR

Fayette County

September 2012

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## Executive Summary

The discovery of natural gas in the Marcellus Shale play in the Commonwealth of Pennsylvania and the resulting drilling, extraction, and distribution of natural gas and other byproducts promise to benefit the long-term growth and economic expansion of the region. However, the materials used in the drilling and extraction processes can be hazardous. They are present at nearly all corners of the Commonwealth, leading to the potential for life-threatening incidents during transportation, while being utilized at well sites and other storage areas, in the removal of waste products, and the distribution systems for natural gas. There also exists the potential for devastating effects on the environment. These issues significantly impact those charged with planning and preparing for an emergency response to unconventional well sites and their supporting operations throughout the Commonwealth and, most directly, to the 42 counties involved in the Marcellus Shale play area. The Pennsylvania Emergency Management Agency (PEMA) is assisting county emergency managers through the development of this Hazardous Materials Unconventional Well Sites Emergency Response Plan (UWSERP) as a Related Supporting Plan to the County Emergency Operations Plan (EOP).

The UWSERP is designed to provide an overall “big picture” view of issues that the County Emergency Management Coordinator (EMC) should consider as part of the planning and preparation process for responses to incidents involving unconventional well sites and distribution systems. The UWSERP is not designed to provide operational response checklists for emergency response agencies such as fire, emergency medical services (EMS), hazmat, or law enforcement. These response agencies should continue to be actively involved in training for their discipline and in training specifically geared to unconventional well sites and transmission systems such as pipelines. Unconventional well site awareness training has been provided across the Commonwealth through the auspices of the State Fire Commissioner and the Pennsylvania State Fire Academy.

Under the amended Title 35, the operators of the unconventional well sites or unconventional wells are required to develop and submit an emergency response plan to the County emergency management organization with jurisdiction, to PEMA, and to the Department of Environmental Protection (DEP). This is in addition to providing a GPS coordinate address for the access road entrance and for each well pad site to the County emergency management organization, PEMA, and DEP. Appendix 5 of this plan provides an area for listing the unconventional well site locations within the County.

While there are variants in well sites and their stages of development, there are certain features of both the extraction process and transmission process that are important to remember. Besides having the hazards of a working industrial site that includes heavy vehicle traffic, storage of materials such as pipes, and overhead work, well sites may also include the presence of water, sand, and additives such as surfactants, biocides, scale inhibitors, and lubricants, perforation guns, and wastewater during and after the drilling process. During the extraction and transmission process, there likely will be valves and control devices, which may be unfamiliar to emergency responders, gathering lines as part of a gathering system, compressor

stations, and a variety of piping and manifolds. It is always helpful to have a firsthand look at each Shale well site.

Remember that the drilling, extraction, and transmission technologies are evolving and that what is being planned and prepared for today will need to be reconsidered during the annual review procedure for this plan. This demands that both the County emergency management and emergency response communities will need to stay abreast of changes that may impact the safe response to unconventional well site incidents. It is recommended that the unconventional well site operators, transporters, and pipeline operators be included in the planning process to ensure that the County has a thorough understanding of changes that are occurring within the industry.

Summary of Changes

CHANGE NUMBER	DATE OF CHANGE	DATE ENTERED	CHANGE MADE BY (Signature or Initials)


## Certification of Review

An annual review of this Emergency Response Plan has been done by the Emergency Management Agency, and the review is hereby certified by the County Emergency Management Coordinator.

Date	Signature



## Promulgation

THIS PLAN HAS BEEN ADOPTED BY FAYETTE COUNTY BOARD OF COMMISSIONERS UNDER  
RESOLUTION NO. \_\_\_\_\_ DATED \_\_\_\_\_. IT SUPERSEDES ALL PREVIOUS PLANS.

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**Chairman, Board of Commissioners**

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**Vice Chairman, Board of Commissioners**

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**Secretary, Board of Commissioners**

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**Chief Clerk**

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**Emergency Management Coordinator**

## 1.0 PURPOSE AND SCOPE

- 1.1. The purpose of this plan is to coordinate the actions and resources necessary for response and/or recovery efforts essential to the remediation of conditions caused by a natural or human-caused industrial accident, medical emergency, vehicle accident, fire, hazardous materials release, explosion, or other emergency incident occurring at or in transit to a Shale well site to protect the lives and property of citizens.
- 1.2. This plan is applicable to all response organizations acting for or on behalf of the government or citizens of Fayette County, in which the site is located.
- 1.3. This plan satisfies the requirements of the Pennsylvania Emergency Management Services Code (35 Pa. C.S. Section 7101 et seq.), to include section 7321 entitled "Unconventional well 9-1-1 emergency response information." The Hazardous Materials Program within Pennsylvania is defined by the Hazardous Materials Emergency Planning and Response Act referred to as Legislative Act 165 of 1990, as amended.
- 1.4. The plan consists of a Basic Plan, a Notification and Resource Manual (NARM), and functional checklists that provide detail for the accomplishment of the specifics of the operation.

## 2.0 SITUATION AND ASSUMPTIONS

- 2.1 Fixed facilities, temporary drilling sites, disposal sites, pipelines including gathering lines and transmission lines, pipeline support facilities, highways, truck or rail systems, and water bodies are potential incident sites, all of which may pose unique response challenges.
- 2.2 Fayette County is located in the Marcellus Shale gas play and is experiencing current drilling, extraction, transmission, or pipeline activities. Appendix 5 contains a detailed list of permitted well and support facility locations.
- 2.3 Shale gas well sites feature unique terrain, access, or site features that need to be considered during response and recovery activities. Specific features are noted in Appendix 5.
- 2.4 Shale well sites play host too many hazardous materials, including oil, fuels, chemicals, toxic debris, waste, and other contaminants capable of harming humans and/or animals, as well as polluting soil, water tables, and/or water bodies.

- 2.5 Typically located in rural areas with limited access, the extent of damage to both the transportation and communication infrastructures of the affected area will influence the ability to provide resources or to respond to the incident location.
- 2.6 Local first responders will assume incident command unless a formal request is made by local officials for County personnel to assume command. The emergency management agency (EMA) may provide an on-scene coordinator at the request of local responders, site owner/operators, or privately owned emergency response contractors.
- 2.7 Depending on the nature of the incident at the site, the owner/operator may have agreements in place to handle specific types of incidents such as fires, spills, or releases without depending on the local emergency responders or their resources. It is incumbent on the Fayette County EMA officials to understand in advance of an incident what the expectations of the Shale well site owner/operator are and what arrangements are in place.
- 2.8 Unconventional well site operators are required to file an emergency response plan with Fayette County, in which the unconventional well site is located.
- 2.9 Determination of the exact location of an incident may be difficult in the event of a single access point serving multiple Shale well sites. A secondary factor may be that access is through a jurisdiction different from where the well site is physically located.
- 2.10 Adjacent municipalities and other governments will render assistance to the impacted municipality in which the Shale well site resides in accordance with the provisions of written intergovernmental and mutual aid support agreements in place at the time of the emergency.
- 2.11 Support and assistance from outside the County can be obtained through the unmet needs process of the Regional Task Force or the Pennsylvania Emergency Management Agency (PEMA).
- 2.12 At the County level, a local Emergency Management Coordinator (EMC) will act on behalf of the elected officials. An emergency operations center (EOC) has been designated by the County, and may be activated by the EMA or designated officials during an emergency.
- 2.13 Identified vulnerable facilities around the Shale well site are indicated in the NARM section of this plan. Vulnerable facilities will develop, coordinate, and furnish emergency plans to the emergency management organization of this

municipality, and the County and state departments and agencies as applicable and required by codes, laws, regulations, or requirements.

### 3.0 CONCEPT OF OPERATIONS

#### 3.1 General

- 3.1.1** The local fire department will mobilize the resources and personnel required to provide first response to an incident at a Shale well site.
- 3.1.2** The resources of any particular department or agency remain under the administrative and policy procedures and control of their home agency, but will be under the operational control of the incident commander (IC).
- 3.1.3** The local EOC will coordinate a Shale well site response at the County level as requested by the IC or as the incident dictates. These situations may include transportation related incidents, well blow-outs with or without fire, industrial accidents, hazardous materials spills/incidents, specialized rescues, etc.
- 3.1.4** Resources will be obtained from County departments and agencies, other supporting Emergency Support Functions (ESFs), municipalities, state agencies, and private entities.
- 3.1.5** The responding agency (ies) will utilize the National Incident Management System (NIMS) as the Incident Command System (ICS).
- 3.1.6** Individuals subjected to exposure will be decontaminated or otherwise treated with appropriate medical care, when necessary.

#### 3.2 Communications

##### 3.2.1 Primary Communications

3.2.1.1 The primary means of communication utilized within Fayette County during an emergency is our public safety radio system.

3.2.1.2 The immediate backup communication method is Fayette County Public Safety Radio System. *(The Fayette County Radio Public Safety Radio System is redundant and subscriber units are programmed for both on and off-system use)*

##### 3.2.2 Secondary Communications

3.2.2.1 The secondary means of communication utilized within Fayette County during an emergency is the State Open Sky system.

3.2.2.2 Additionally the Fayette County EMA through the Westmoreland County Department of Public Safety and our mutual aid agreements can request the use of their MRRV (Mobile Radio Repeater Vehicle) and its cache of radios.

3.2.2.3 Other forms of secondary communication include landline or cellular and satellite telephone systems.

### 3.3 Notification

**3.3.1** An incident – industrial accident, fire, explosion, hazardous materials release, medical emergency, criminal activity, vehicle accident, and/or other incident – involving the Shale well site that is related to hazardous materials on the site or while in the transportation mode will typically be reported to the public safety answering point (PSAP).

**3.3.2** In addition to standard emergency notifications from the PSAP, the owner/operator of the affected Shale well site will be notified at their emergency contact number, as noted in their site-specific emergency response plan.

**3.3.3** The PSAP will notify the County EMC of any incident at a Shale well site involving fire, explosion, chemical release, fatalities and/or injuries, criminal activity, environmental contamination, or any other incident deemed reportable.

**3.3.4** The County EMC will notify PEMA of any emergency response to a Shale well site or if materials intended for use at the site are involved in a transportation incident. This notification may be made utilizing Knowledge Center.

**3.3.5** Depending on the nature of the incident, consideration should be given by the EMC to notifying one or more of the following:

3.3.5.1 Department of Environmental Protection (DEP)

3.3.5.2 Department of Conservation and Natural Resources (DCNR)

3.3.5.3 Pennsylvania State Police (PSP)

#### 3.3.5.4 Department of Labor and Industry (L&I)

#### 3.3.5.5 Others agencies as needed

- 3.3.6** In the event of a transportation incident (all modes including pipeline), efforts should be made to notify the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration.

### 3.4 Activation

- 3.4.1** The County EMC will activate the County EOC as necessary or at the request of the on-scene IC or municipal EOC.
- 3.4.2** When a municipal EOC is activated, the municipal EMC or designee will coordinate between the site IC and the County EOC.
- 3.4.3** The County EMC will assume the role of EOC Manager and initially, all Command and General Staff roles. As additional staff arrives at the EOC, the County EMC may delegate activities to them.
- 3.4.4** Availability of staff and operational needs may allow or require positions to be combined or positions to not be filled in accordance with general ICS principles.

### 3.5 Public Information, Warning, and Protective Actions

- 3.5.1** Alerts and warnings will be provided to the public via the Emergency Alert System (EAS) as required by the situation and directed by the EMC.
- 3.5.2** Evacuation or shelter-in-place orders may be issued. The County EMC will need to establish and maintain communications with the County Public Information Officer (PIO).
- 3.5.3** In the event of an evacuation, the population (or segments thereof) will evacuate using their own vehicles, or be transported using County and/or contracted transportation assets from the identified affected area(s) to safe havens.
- 3.5.4** Pre-designated evacuation routes will be utilized whenever safe and practical. Critical intersections will be staffed by traffic control personnel to facilitate an orderly flow of traffic.

### 3.6 Response

- 3.6.1** Response is based on the type of incident that is occurring and may require the efforts noted in ESF #4 and ESF #10 of the County Emergency

Operations Plan (EOP), in addition to the typical emergency actions provided by fire, EMS, law enforcement, hazardous materials, and other relevant response agencies.

**3.6.2** Owners/operators generally have emergency response agreements in place with privately owned emergency response contractors to manage the unique issues associated with hydraulic fracturing and high-pressure gas wells.

**3.6.3** The County EOC may need to provide a liaison to the incident site.

**3.6.4** The EOC may need to remain operational until the site emergency is declared safe by the private contractor.

### 3.7 Demobilization

**3.7.1** Demobilization occurs through the methods described in the County EOP and supporting operational plans of the emergency response organizations involved in the response.

## 4.0 ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

### 4.1 Fayette County EMA

4.1.1 Provide situational awareness to county elected officials and PEMA

4.1.2 Provide support to the incident command post as needed in the form of technical specialists, incident management personnel, public information officer, etc..

4.1.3 Establish resource management procedures to assist in the stabilization of the incident by fulfilling any unmet needs of the locals or requesting resources from the state and federal government as needed.

4.1.4 If requested, participate in Unified Command .

4.1.5 Provide damage assessment reports to PEMA EOC once received.

### 4.2 Municipal EMA

4.2.1 Request resources to assist in the stabilization of the incident through the proper procedures set forth in their local EOP's per Title 35.

- 4.2.2 Provide situational awareness updates to the County EMA/ EOC as needed.
- 4.2.3 Conduct damage assessment and report to the County EMA/EOC once able to.
- 4.2.4 If requested, participate in Unified Command.

#### **4.3 PSAP**

- 4.3.1 Notify local responders per the standard operating procedures in place.
- 4.3.2 Notify FCEMA Duty Officer of the incident and any particulars.
- 4.3.3 Notify Fayette County Hazardous Materials Response Team of incident and place on standby.
- 4.3.4 Assist local responders with locating resource as needed to assist in the stabilization of the incident.

#### **4.4 Local Fire Department**

- 4.4.1 Conduct scene assessment upon arrival and provide status reports to incoming units.
- 4.4.2 Establish and maintain Unified Command Post.
- 4.4.3 Establish work zones in the incident area to provide for safety of all personnel, including air monitoring of the incident site.
- 4.4.4 Assist EMS with establishing Triage areas and provide them assistance as needed.

#### **4.5 Local EMS**

- 4.5.1 Establish and maintain Unified Command Post.
- 4.5.2 Provide Triage, Treatment and Transport of sick/injured personnel.
- 4.5.3 Activate the Fayette County MCI Plan if needed.
- 4.5.4 Request additional support resources as needed.



**4.6** Local Police Department

- 4.6.1 Establish and maintain Unified Command Post.
- 4.6.2 Provide traffic control and access control points as needed.
- 4.6.3 Assist with the investigation as applicable.

**4.7** PSP

- 4.7.1 Assist local police department(s) as needed.
- 4.7.2 When no local police exist, fulfill the duties of Section 4.6 of this plan.

**4.8** PA DEP

- 4.8.1 If requested, participate in the unified command.
- 4.8.2 Coordinate with clean-up contractors and responsible party to ensure minimum environmental impact occurs.
- 4.8.3 Provide technical guidance to Fayette County EMA; and local responders as needed.
- 4.8.4 Coordinate with any other state agencies on site.

**4.9** PA DCNR

- 4.9.1 Assist as needed, under the guidance of the PA DEP and/or any state liaison.

**4.10** PA Public Utilities Commission (pipeline emergencies)

- 4.10.1 Provide assistance as needed in identification of utility locations through PA One Call.
- 4.10.2 Assist as needed, under the guidance of the PA DEP and/or and state liaison.

**5.0** TRAINING AND EXERCISES

## **5.1 Training Authority**

5.1.1 For training purposes and exercises, the EMC may activate this plan as required to evaluate and maintain the readiness posture of the County.

5.1.2 A training schedule will be developed by the EMC in concert with the emergency response organizations.

## **5.2 Exercise Requirements**

5.2.1 To provide practical, controlled operations experience for those who have EOC responsibilities, the EMC should activate this plan at least every year in the form of a drill or exercise. The unconventional well site operators must be included in this process.

## **5.3 Training Policy**

### **5.3.1 Public Officials**

**5.3.1.1 Response and Recovery Training:** Training programs will be provided to County officials, the EMC, EOC staff, and emergency services personnel (police, fire, rescue, hazardous materials, and EMS) on the procedures and policies for a coordinated response and recovery to a disaster emergency. Training programs are offered through PEMA.

**5.3.1.2 Professional Development:** Training programs will be provided to the County EMA and staff to cover skills and techniques of writing plans, professional development skills, and national security issues related to County emergency preparedness. Training programs are offered through PEMA.

**5.3.1.3 Damage Assessment and Reporting:** Annual training will be offered in damage reporting procedures and in damage assessment for those who will work with County damage assessment teams. Training programs are offered through PEMA.

### **5.3.2 Emergency Services and Other Responding Agencies**

**5.3.2.1 Exercises,** as indicated above, will be used as a training technique for public officials, County emergency staff, and emergency services personnel who are assigned emergency responsibilities in this plan. EMA staff officers responsible for functional annexes are charged with ensuring skills training for personnel who implement the provisions of their respective annexes.

**5.3.2.2** Due to the unique nature of incidents at Shale gas well sites, the EMC will work with the site owner/operators to provide introductory information and training to response agencies within the County. Basic and advanced emergency response training may also be available through the Pennsylvania State Fire Academy.

**5.3.2.3** Web-based training for pipeline emergency response is currently available at [www.pipelineemergencies.com](http://www.pipelineemergencies.com). This program was funded by the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration.

### 5.3.3 State and Federal Training

**5.3.3.1** EMA staff will participate in state and federal training programs as prescribed internally and by PEMA.

## 6.0 PLAN REQUIREMENTS, MAINTENANCE, AND DISTRIBUTION

**6.1** EMC Responsibilities: The County EOP is the responsibility of the elected officials, but normally the EMC will coordinate the development and maintenance of the plan. The plan's components will be reviewed and updated by the EMC every two years or as needed. Some incident-specific annexes require an annual review based upon legislation or regulation. Whenever portions of this plan are implemented in an emergency incident or exercise, a review will be conducted to determine necessary changes.

- 6.2** Enforceability: This plan is enforceable under the provisions of the Pennsylvania Emergency Management Services Code.
- 6.3** Execution: This plan will be executed upon order of the County elected officials or their authorized representative, the County EMC.
- 6.4** Distribution: This plan and its supporting materials are controlled documents.
  - 6.4.1 While distribution of the Basic Plan is allowable, the Checklists, Notification and Resource Manual, and some Incident-Specific Plans contain specific response or personal information and are not considered to be available to the public.
  - 6.4.2 Distribution is based upon regulatory or functional “need to know.” Copies of this plan are distributed according to an approved control list.
  - 6.4.3 A record of distribution, by copy number, is maintained on file by the EMC. Controlled copies of revisions will be distributed to designated plan holders.
  - 6.4.4 Revisions or changes are documented by means of the Summary of Changes on page iv. A receipt system will be used to verify the process.

## **APPENDIX 1: AUTHORITIES AND REFERENCES**

1. Commonwealth of Pennsylvania. Emergency Operations Plan. December 2008, with amendments.
2. Legislative Act 165 of 1990, Hazardous Materials Emergency Planning and Response Act, as amended.
3. Pennsylvania Department of Labor and Industry. PENNSAFE, Tier II Reporting.
4. Pennsylvania Emergency Management Agency. "Commonwealth of Pennsylvania Multi-Hazard Identification and Risk Assessment," as amended.
5. Emergency Management Directive 2002-5 (Requirements for the Preparation, Review and Update of Municipal Emergency Operations Plans [EOPs] and Accompanying Documents).
6. Pennsylvania Emergency Management Services Code 35 Pa. C.S. Section 7101-7707, as amended, to include Section 7321, "Unconventional well 9-1-1 emergency response information."
7. Pennsylvania Public Utilities Commission. Gas Safety Section.
8. Fayette County Emergency Operations Plan.
9. Fayette County Hazard Vulnerability Analysis.
10. Fayette County Hazard Mitigation Plan.
11. Municipal Plans.

## **APPENDIX 2: DEFINITIONS AND GLOSSARY**

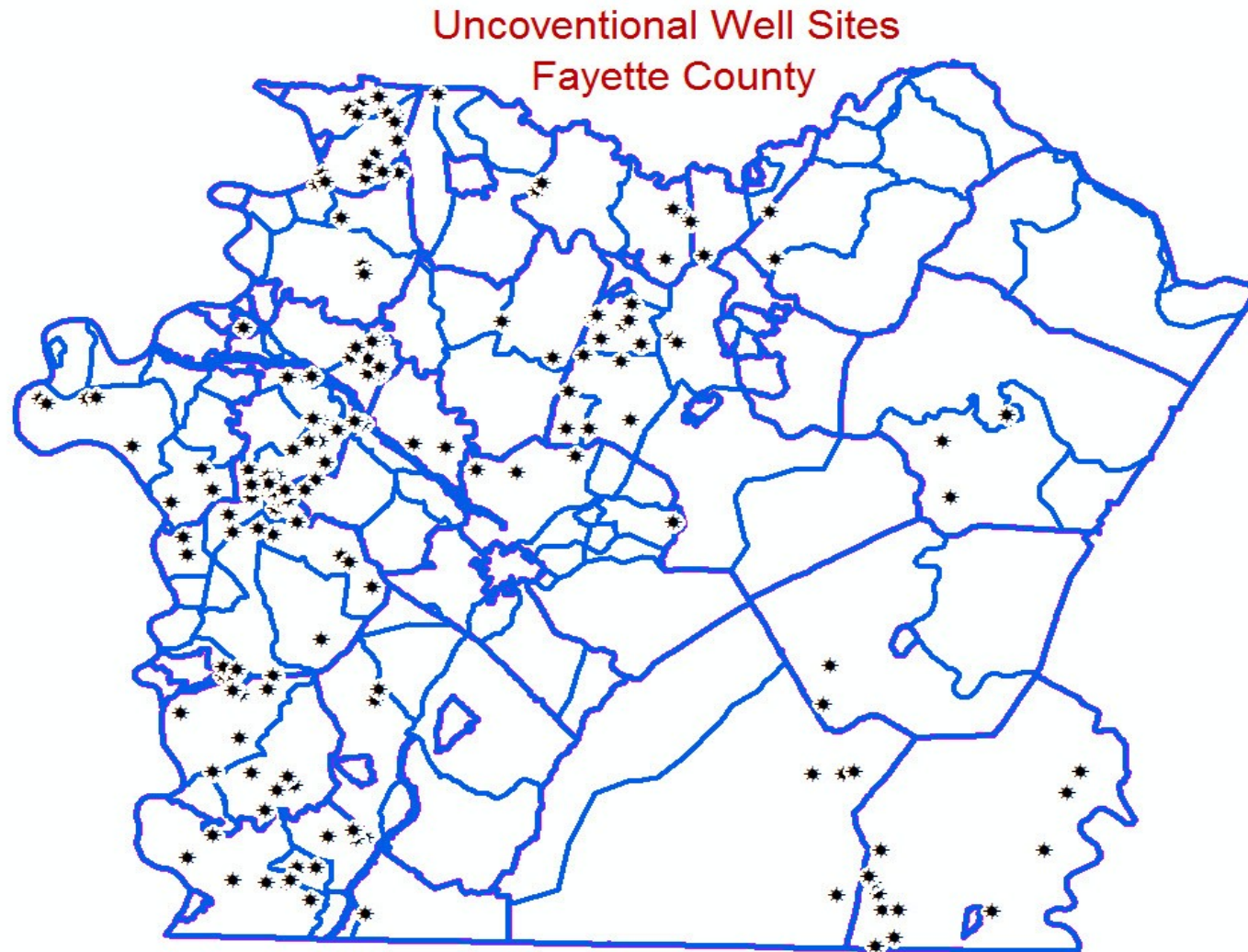
DCNR	Pennsylvania Department of Conservation and Natural Resources
DEP	Pennsylvania Department of Environmental Protection
EAS	Emergency Alert System
EMA	Emergency Management Agency
EMC	Emergency Management Coordinator
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
ERP	Emergency Response Plan
ESF	Emergency Support Function
IAP	Incident Action Plan
IC	Incident Commander
ICS	Incident Command System
L&I	Pennsylvania Department of Labor and Industry
NARM	Notification and Resource Manual
NIMS	National Incident Management System
PEMA	Pennsylvania Emergency Management Agency
PIO	Public Information Officer
PSAP	Public Safety Answering Point
PSP	Pennsylvania State Police
UWSERP	Unconventional Well Sites Emergency Response Plan







APPENDIX 4: COUNTY MAP OF WELL SITE LOCATIONS



APPENDI

**X 5: TABLE OF SHALE WELL SITE LOCATIONS**

Shale Well Site Locations								
Map Site ID	Well Owner/Operator	Well Address	Well Latitude	Well Longitude	Emergency Contact	Access Point	Latitude Access	Longitude Access
BENNINGER 24 OG WELL	ATLAS RESOURCES LLC	105 WAR BRANCH RD	39.799475	-79.86828			39.80384	-79.87085
BERTOVICH 25 OG WELL	ATLAS RESOURCES LLC	164 GRAYS LANDING RD	39.827214	-79.91015			39.82776	-79.91212
BEZIAK 26 OG WELL	ATLAS RESOURCES LLC	213 SMITHFIELD NEW GENEVA RD	39.799758	-79.89133			39.79663	-79.8935

BOBBISH 4 OG WELL	ATLAS RESOURCES LLC	1320 RALPH NEW SALEM RD	3 9 . 9 2 5 7 3 2	-79.85883			39.92548 3	-79.85688
BORTZ UNIT 2 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 5 8 3 9 4	-79.90454				
BRAZZON 15 OG WELL	ATLAS RESOURCES LLC	245 HARMONY CHURCH RD	4 0 . 1 2 0 3 3 2	-79.80197			40.1194	-79.8002
BRAZZON 7 OG WELL	ATLAS RESOURCES LLC	245 HARMONY CHURCH RD	4 0 . 1 2 3 5 4	-79.80501			40.1194	-79.8002
BURD 4 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 4 0 1 2 2	-79.50314				
BURD 6 OG WELL	ATLAS RESOURCES LLC		3 9 . .	-79.49395				

			7 4 0 2 5 3					
BURNSIDE UT 8 OG WELL	ATLAS RESOURCES LLC	188 REDSTONE CHURCH RD	4 0 . 0 8 4 7 7 1	-79.81188			40.0871	-79.81115
CAMPBELL 13 OG WELL	ATLAS RESOURCES LLC	134 REHOBATH RD	4 0 . 1 1 9 5 9	-79.81546			40.116	-79.8152
CAMPBELL 14 OG WELL	ATLAS RESOURCES LLC	328 MIKULA RD	4 0 . 1 1 7 0 2 9	-79.82157			40.1173	-79.8237
CAMPBELL 15 OG WELL	ATLAS RESOURCES LLC	328 MIKULA RD	4 0 . 1 1 5 2 1 5	-79.81734			40.1173	-79.8237
CARDINE UNIT 6 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 5 8	-79.84037				

			5 9 2					
CHES 33 OG WELL	ATLAS RESOURCES LLC		3 9 . 8 3 5 4 8 8	-79.79832				
CHES 34 OG WELL	ATLAS RESOURCES LLC		3 9 . 8 4 0 5 2 7	-79.79673				
CHES 35H OG WELL	ATLAS RESOURCES LLC		3 9 . 8 4 0 5 6 3	-79.79674				
CHES 36H OG WELL	ATLAS RESOURCES LLC		3 9 . 8 4 0 4 9 7	-79.79672				
CHRISTOPHER 10 OG WELL	ATLAS RESOURCES LLC	146 WINDY HILL RD	3 9 . 9 1 3 5 7	-79.85966			39.91483 3	-79.86693

			9				
CHRISTOPHER 9 OG WELL	ATLAS RESOURCES LLC	1187 RALPH NEW SALEM RD	3 9 . 9 3 0 8 9 8	-79.87271			39.93075 -79.86565
CLARKE 14 OG WELL	ATLAS RESOURCES LLC	183 DUCK POND RD	4 0 . 0 1 0 9 8 6	-79.63181			40.016 -79.629
CONGELIO 5 OG WELL	ATLAS RESOURCES LLC	6308 NATIONAL PIKE	3 9 . 9 8 8 7 5 9	-79.85392			39.99251 -79.85102
COTTOM 3 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 5 1 0 2 7	-79.61454			
DANCHO/BROWN 4 OG WELL	ATLAS RESOURCES LLC	490 ROWES RUN RD	3 9 . 9 9 1 2 2 8	-79.80132			39.99118 -79.80253

			1				
DANCHO/BROWN 5 OG WELL	ATLAS RESOURCES LLC	497 ROWES RUN RD	39991028	-79.80708		39.99043	-79.80188
FAIRBANK ROD & GUN CLUB 3 OG WELL	ATLAS RESOURCES LLC	715 FAIRBANK HERBERT RD	39940234	-79.83553		39.94234	-79.83936
FAIRBANK ROD & GUN CLUB 6 OG WELL	ATLAS RESOURCES LLC	715 FAIRBANK HERBERT RD	39935323	-79.84186		39.94234	-79.83936
FAVERIO UNIT 4 OG WELL	ATLAS RESOURCES LLC		39948344	-79.83042			
FAYETTE BEAGLE CLUB UNIT 4 OG WELL	ATLAS RESOURCES LLC		401028	-79.79348			

			1 4				
FAY-PENN 10 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 5 4 6 2 8	-79.84137			
FAY-PENN 12 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 4 9 2 8 4	-79.84417			
FAY-PENN 15 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 4 7 3 4 2	-79.84664			
FAY-PENN 44 OG WELL FAY-PENN/W/G 42 OG WELL	ATLAS RESOURCES LLC	600 GANS RD	3 9 . 7 4 8 7 7 6	-79.84469		39.74759	-79.84269
	ATLAS RESOURCES LLC		3 9 . 7 5 4 9 9 8	-79.83057			



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FERENS UNIT 11 OG WELL	ATLAS RESOURCES LLC	18 WARD RD	9	-79.69154		39.967	-79.69
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FERENS UNIT 13H OG WELL	ATLAS RESOURCES LLC	18 WARD RD	3	-79.69151		39.967	-79.69
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FILIAGGI 7 OG WELL	ATLAS RESOURCES LLC	262 DEBOLT RD	3	-79.87606		39.9372	-79.8782
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GENOVESE 10 OG WELL	ATLAS RESOURCES LLC	251 DEBOLT RD	6	-79.88099		39.83715	-79.8794
GILES 3 OG WELL	ATLAS RESOURCES LLC		3	-79.96947			
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HADENAK 3 OG WELL	ATLAS RESOURCES LLC	330 SEATONTOWN RD	9	-79.85715			39.92851 7	-79.85963
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HONSAKER 15 OG WELL	ATLAS RESOURCES LLC	120 HOUNSAKER FARM RD	8	-79.886			39.8464	-79.88782
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HONSAKER 16 OG WELL	ATLAS RESOURCES LLC	120 HOUNSAKER FARM RD	8	-79.88091			39.8464	-79.88782
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HONSAKER 17 OG WELL	ATLAS RESOURCES LLC	158 HOUNSAKER FARM RD	7	-79.88656			39.85062	-79.888
HOSLER 7 OG WELL	ATLAS RESOURCES LLC	343 STUCKSLAGER RD	4	-79.81224			40.04411	-79.81336
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HOSLER 8 OG WELL	ATLAS RESOURCES LLC	429 STUCKSLAGER RD	4038908	-79.81102		40.03786	-79.81249
JACKSON FARMS 26 OG WELL	ATLAS RESOURCES LLC		39968187	-79.81441			
JACKSON FARMS UNIT 29 OG WELL	ATLAS RESOURCES LLC	642 STONE CHURCH RD	3996889	-79.83418		39.97025	-79.83422
JACKSON FARMS UNIT 30 OG WELL	ATLAS RESOURCES LLC		39969081	-79.83866			
JACKSON FARMS UNIT 31H OG WELL	ATLAS RESOURCES LLC	150 NEWCOMER RD	3996444	-79.82389		39.96381	-79.82597

JACKSON FARMS UNIT 32H OG WELL	ATLAS RESOURCES LLC	150 NEWCOMER RD	3 9 . 9 6 4 3 5 3	-79.82383			39.96381	-79.82597
JACKSON FARMS UNIT 33 OG WELL	ATLAS RESOURCES LLC	150 NEWCOMER RD	3 9 . 9 6 4 3 7 8	-79.82386			39.96381	-79.82597
JACKSON FARMS UNIT 36H OG WELL	ATLAS RESOURCES LLC	642 STONE CHURCH RD	3 9 . 9 6 8 6 9 4	-79.83422			39.97025	-79.83422
JUROSCO 1 OG WELL	ATLAS RESOURCES LLC	340 FOOTEDALE RD	3 9 . 9 0 4 0 3 5	-79.82028			39.90372	-79.8219
KESLAR 10 OG WELL	ATLAS RESOURCES LLC	1469 NEW SALEM RD	3 9 . 9 4 1 4 8 1	-79.85803			39.94124	-79.85325

KESLAR 9 OG WELL	ATLAS RESOURCES LLC	1469 NEW SALEM RD	39.94124	-79.86368			39.94124	-79.85325
KIRCHNER UNIT 3 OG WELL	ATLAS RESOURCES LLC	120 HOUNSAKER FARM RD	39.8464	-79.87857			39.8464	-79.88782
KOLENCIK 2 OG WELL	ATLAS RESOURCES LLC	800 LECKRONE HIGHHOUSE RD	39.86193	-79.83012			39.86193	-79.82971
KOVACH UNIT 24 OG WELL	ATLAS RESOURCES LLC	1390 RALPH NEW SALEM RD	39.923217	-79.84638			39.923217	-79.8486
KOVACH UNIT 34H OG WELL	ATLAS RESOURCES LLC	1390 RALPH NEW SALEM RD	39.923217	-79.84635			39.923217	-79.8486

KOVALIC 12 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 9 1 5 8 3	-79.85387				
KOVALIC 13 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 9 4 0 1 4	-79.84352				
KOVALIC 14 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 9 8 2 1 9	-79.8481				
KREPPS 3 OG WELL	ATLAS RESOURCES LLC	486 HARTLY HILL RD	3 9 . 9 2 2 4 0 7	-79.88552			39.92536 7	-79.88555
LANDMAN UNIT 8H	ATLAS RESOURCES LLC	6437 NATIONAL PIKE	3 9 . 9 8 9 3 6 2	-79.83942			39.988	-79.841

LEE 10 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 0 7 3 1 1	-79.80162				
LEE 11 OG WELL	ATLAS RESOURCES LLC	1042 TIPPECANOE RD	4 0 . 0 0 6 5 1 7	-79.80541			40.00727	-79.80698
LEICHLITER 6 OG WELL	ATLAS RESOURCES LLC	391 ROWES RUN RD	3 9 . 9 9 8 5 6 7	-79.80718			39.99891	-79.80573
LEICHLITER 6 OG WELL	ATLAS RESOURCES LLC	391 ROWES RUN RD	3 9 . 9 9 8 5 6 7	-79.80718			39.99891	-79.80573
LUDROSKY 3 OG WELL	ATLAS RESOURCES LLC		3 9 . 8 1 6 2 6 9	-79.87643				

MACAR 3 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 0 1 1 6 2	-79.8151				
MARUZEWSKI UNIT 1 OG WELL	ATLAS RESOURCES LLC	326 UPPER MIDDLETOWN RD	3 9 . 9 5 8 1 6 5	-79.77985			39.9596	-79.78064
MASTERBRAY 1 OG WELL	ATLAS RESOURCES LLC	326 EIGHTY ACRES RD	3 9 . 9 7 1 9 8 4	-79.65455			39.96917	-79.65841
MEDVED 4 OG WELL	ATLAS RESOURCES LLC	516 GANS RD	3 9 . 7 3 9 3 9	-79.83315			39.744	-79.834
NAYLOR UNIT 1 OG WELL	ATLAS RESOURCES LLC		4 0 . 1 2 5 1 9 9	-79.77108				
OLEXA 8 OG WELL	ATLAS RESOURCES LLC	369 REDSTONE CHURCH RD	4 0 .	-79.80674			40.0962	-79.8035



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OLEXA 9 OG WELL	ATLAS RESOURCES LLC		9	-79.81082			
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ORR 28 OG WELL	ATLAS RESOURCES LLC		3	-79.79555			
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ORR 33 OG WELL	ATLAS RESOURCES LLC		8	-79.79947			
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ORR 36 OG WELL	ATLAS RESOURCES LLC		6	-79.79544			
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PALANKEY 2 OG WELL	ATLAS RESOURCES LLC		0	-79.62848			

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POCKSTALLER 4 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 6 7 1 9 1	-79.62278				
PRAH 2A OG WELL	ATLAS RESOURCES LLC		3 9 . 9 1 6 2 6 5	-79.8685				
PRITTS UNIT 1 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 7 0 8 2 1	-79.62784				
PRITTS UNIT 2 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 7 3 0 8 2	-79.6331				
REDMAN 26 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 7 6 0	-79.99678				

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REDMAN 27 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 7 3 2 4 5	-79.99254			
REDMAN 29 OG WELL	ATLAS RESOURCES LLC	144 MCDONOUGH LN	4 0 . 0 8 6 2 3 3	-79.83635		40.083	-79.834
REDMAN 31 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 8 1 0 1	-79.83947			
REDMAN UNIT 30 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 8 2 6 0 2	-79.83443			
RICH FARMS 7 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 6 9 9 5 0 9	-79.80235			

ROBINSON 29 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 6 9 1 8 1	-79.80784			
ROBINSON 32 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 7 3 1 7 8	-79.80904			
SABATINE 12 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 6 9 6 4 2	-79.82383			
SITTLER 1 OG WELL	ATLAS RESOURCES LLC		4 0 . 0 1 7 8 8 6	-79.73058			
SKIRPAN UNIT 1 OG WELL	ATLAS RESOURCES LLC	134 PARK ST	4 0 . 0 1 1 9 2	-79.87992		40.012	-79.88
SKIRPAN UNIT 2H OG WELL	ATLAS RESOURCES LLC	134 PARK ST	4 0 .	-79.87993		40.012	-79.88

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SKOVRAN 22 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 3 4 0 2 1	-79.8635				
SKOVRAN 23 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 3 3 4 1 8	-79.85934				
SKOVRAN UNIT 26H OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 3 1 7	-79.84943			39.95	-79.848
SKOVRAN UNIT 27H OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 3 5 8	-79.84943			39.95	-79.848
SKOVRAN UNIT 28H OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5	-79.84943			39.95	-79.848

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SKOVRAN UNIT 29 OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 3 5 2 3 1	-79.85358		39.95	-79.848
SKOVRAN UNIT 30H OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 4 4 2	-79.84943		39.95	-79.848
SKOVRAN UNIT 31H OG WELL	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 2 7 5	-79.84943		39.95	-79.848
SKOVRAN UNIT 34H	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 4 9 6	-79.84944		39.95	-79.848
SKOVRAN UNIT 35H	ATLAS RESOURCES LLC	411 RODERICK RD	3 9 . 9 5 4 2 2 4	-79.84943		39.95	-79.848

SWIANTEK 1 OG WELL	ATLAS RESOURCES LLC	182 SAW MILL RD	4 0 . 0 0 0 9 5 3	-79.7006			40.002	-79.699
SZUHAY 5 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 5 8 6 2 3	-79.83427				
TERCHO-SHIMKO 3 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 3 0 2 4 8	-79.85145				
TESAURO 1 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 4 7 5 1 9	-79.50582				
TESAURO 3 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 5 3 1 1 4	-79.50878				

TESAURO 4 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 5 5 7 9 1	-79.51173				
TESLOVICH UNIT29H OG WELL	ATLAS RESOURCES LLC	490 UPPER MIDDLETOWN RD	3 9 . 9 5 7 0 5	-79.76121			39.96176 7	-79.76653
TESLOVICH UNIT30H OG WELL	ATLAS RESOURCES LLC	490 UPPER MIDDLETOWN RD	3 9 . 9 5 7 0 1 1	-79.76123			39.96176 7	-79.76653
TESLOVICH UNIT31H OG WELL	ATLAS RESOURCES LLC	490 UPPER MIDDLETOWN RD	3 9 . 9 5 6 9 7 2	-79.76124			39.96176 7	-79.76653
TRIPLETT 2 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 8 1 4 8 1	-79.8601				
W SMITH 1 OG WELL	ATLAS RESOURCES LLC		3 9 .	-79.50664				



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WOLF 27 OG WELL	ATLAS RESOURCES LLC		3 9 . 7 6 9 0 9 5	-79.89023				
YASENOSKY 3 OG WELL	ATLAS RESOURCES LLC		3 9 . 8 4 6 3 1 3	-79.8576				
YASENOSKY UNIT 4 OG WELL	ATLAS RESOURCES LLC		3 9 . 8 3 9 3 8 6	-79.86091				
YEAGLEY 1 OG WELL ZINN UNIT 2 OG WELL	ATLAS RESOURCES LLC		3 9 . 9 5 3 7 5 9	-79.68582				
	ATLAS RESOURCES LLC		3 9 . 7 4 7	-79.87793				

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SKOVRAN UNIT 36H	ATLAS RESOURES LLC	411 RODERICK RD	3 9 . 9 5 4 1 9 5	-79.84943			39.95	-79.848
COASTAL 1H OG WELL	BURNETT OIL CO INC	2444 SPRINGHILL FURNACE RD	3 9 . 7 3 3 3 2 3	-79.80079			39.73374 9	-79.8032
COASTAL SMITH UNIT 1H WELL	BURNETT OIL CO INC		3 9 . 7 3 3 3 5	-79.80103				
COASTAL SMITH UNIT 2H WELL	BURNETT OIL CO INC	2444 SPRINGHILL FURNACE RD	3 9 . 7 3 3 3 4	-79.80089			39.73374 9	-79.8032
WHYEL UNIT 1H WELL	BURNETT OIL CO INC	141 CLUB SOPHIA RD	3 9 . 8 8 9 3 4	-79.80168			39.88924	-79.79895

AVANTI 1 OG WELL	CHEVRON APPALACHIA LLC		3 9 . 8 3 7 5 2 7	-79.54003				
BAER UNIT 6H WELL	CHEVRON APPALACHIA LLC	366 CENTER GAS RD	3 9 . 9 9 8 7 1	-79.81719			39.99342	-79.82001
BAER UNIT 7H WELL	CHEVRON APPALACHIA LLC	366 CENTER GAS RD	3 9 . 9 9 8 6 8	-79.81715			39.99342	-79.82001
BURNSWORTH WEST UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	216 FLANIGAN RD	3 9 . 7 9 7 5	-79.39801			39.79561	-79.39759
BURNWORTH UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	1247 MAE WEST RD	3 9 . 8 0 8 1 3 9	-79.39092			39.81281	-79.38828
CARDINE UNIT 5H OG WELL	CHEVRON APPALACHIA LLC	198 BUNKER HILL RD	3 9 . 9 5 8	-79.84037			39.96441 7	-79.8473

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CARDINE UNIT 7H OG WELL	CHEVRON APPALACHIA LLC	198 BUNKER HILL RD	3 9 . 9 5 8 5 5 9	-79.84037			39.96441 7	-79.8473
CHICO UNIT 1H	CHEVRON APPALACHIA LLC	199 LAKE LYNN RD	3 9 . 7 4 6 9 5 5	-79.85858			39.74684	-79.85566
CHICO UNIT 2H	CHEVRON APPALACHIA LLC	199 LAKE LYNN RD	3 9 . 7 4 6 9 6 6	-79.85853			39.74684	-79.85566
CHICO UNIT 3H	CHEVRON APPALACHIA LLC	199 LAKE LYNN RD	3 9 . 7 4 6 9 7 7	-79.85848			39.74684	-79.85566
COCHRAN UNIT 22H	CHEVRON APPALACHIA LLC	175 HICKORY SQUARE RD	4 0 . 0 4 9 2 2 5	-79.63689			40.05363 9	-79.63529

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COCHRAN UNIT 23H	CHEVRON APPALACHIA LLC	175 HICKORY SQUARE RD	7	-79.63686			40.05363 9
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CONNELLSVILLE SPORTSMEN'S ASSOC 7H OG WELL	CHEVRON APPALACHIA LLC	2299 INDUSTRIAL LN	8	-79.57331			40.04688
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CONNELLSVILLE SPORTSMEN'S ASSOC 8H OG WELL	CHEVRON APPALACHIA LLC	2299 INDUSTRIAL LN	9	-79.57331			40.04688
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CROUSHORE UNIT 10H	CHEVRON APPALACHIA LLC	268 CROUSHORE RD	8	-79.90874			39.90361 1
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CROUSHORE UNIT 11H	CHEVRON APPALACHIA LLC	268 CROUSHORE RD	1	-79.90874			39.90361 1
							-79.91167

CROUSHORE UNIT 12H	CHEVRON APPALACHIA LLC	268 CROUSHORE RD	3 9 · 9 0 2 8	-79.90874			39.90361 1	-79.91167
DICARLO UNIT 13H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 · 9 3 3 9 9	-79.89631			39.93334 5	-79.89918
DICARLO UNIT 14H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 · 9 3 4 0 2 7	-79.89626			39.93334 5	-79.89918
DICARLO UNIT 15H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 · 9 3 4 0 4 9	-79.89622			39.93334 5	-79.89918
DICARLO UNIT 16H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 · 9 3 4 0 7 5	-79.89617			39.93334 5	-79.89918
DICARLO UNIT 17H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 · 9 3	-79.89614			39.93334 5	-79.89918

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DICARLO UNIT 18H	CHEVRON APPALACHIA LLC	422 PALMER ADAH RD	3 9 . 9 3 4 1 3	-79.8961			39.93334 5	-79.89918
FAVERIO UNIT 5H OG WELL	CHEVRON APPALACHIA LLC	340 SNUFF RIDGE RD	3 9 . 9 4 8 3 0 9	-79.83042			39.949	-79.827
FAVERIO UNIT 6H OG WELL	CHEVRON APPALACHIA LLC	340 SNUFF RIDGE RD	3 9 . 9 4 8 3 7 3	-79.83042			39.949	-79.827
FAYETTE BEAGLE CLUB UNIT 5H OG WELL	CHEVRON APPALACHIA LLC	434 REHOBOTH CHURCH RD	4 0 . 1 0 2 8 3 6	-79.79344			40.106	-79.783
FAYETTE BEAGLE CLUB UNIT 6H OG WELL	CHEVRON APPALACHIA LLC	434 REHOBOTH CHURCH RD	4 0 . 1 0 2 7 8	-79.7935			40.106	-79.783

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FDS UNIT 6H	CHEVRON APPALACHIA LLC	298 CROUSHORE RD	3 9 . 9 1 0 9 1 6	-79.91116			39.90499 4	-79.91168
FDS UNIT 7H	CHEVRON APPALACHIA LLC	298 CROUSHORE RD	3 9 . 9 1 0 9 4 1	-79.91117			39.90499 4	-79.91168
FDS UNIT 8H	CHEVRON APPALACHIA LLC	298 CROUSHORE RD	3 9 . 9 1 0 9 6 6	-79.9112			39.90499 4	-79.91168
FIKE UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	186 FLAT ROCK RD	3 9 . 7 2 7 0 2 8	-79.49575			39.7258	-79.50456
FRANKHOUSER UNIT 3H-A	CHEVRON APPALACHIA LLC	1129 KNOX RD	3 9 . 9 4 4 1 1 4	-79.90166			39.94638	-79.89964



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FRANKHOUSER UNIT 4H	CHEVRON APPALACHIA LLC	1129 KNOX RD	3 9 . 9 4 4 1 8 9	-79.90167		39.94638	-79.89964
FRANKHOUSER UNIT 5H	CHEVRON APPALACHIA LLC	1129 KNOX RD	3 9 . 9 4 4 2 2 6	-79.90167		39.94638	-79.89964
FRANKHOUSER UNIT 6H	CHEVRON APPALACHIA LLC	1129 KNOX RD	3 9 . 9 4 4 2 6 5	-79.94427		39.94638	-79.89964
GRANT UNIT 15H OG WELL	CHEVRON APPALACHIA LLC	182 THOMPSON 01 RD	3 9 . 9 4 4 2 4 4	-79.87434		39.935	-79.882
GRANT UNIT 16H OG WELL	CHEVRON APPALACHIA LLC	182 THOMPSON 01 RD	3 9 . 9 4 4 2 2 4	-79.87439		39.935	-79.882

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HALL UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	355 SICKLE RIDGE RD	3 9 . 7 6 9 8 9 5	-79.41087		39.7693	-79.41168
HALL UNIT 2H OG WELL	CHEVRON APPALACHIA LLC	355 SICKLE RIDGE RD	3 9 . 7 6 9 9 3	-79.41086		39.7693	-79.41168
HALL UNIT 3H OG WELL	CHEVRON APPALACHIA LLC	355 SICKLE RIDGE RD	3 9 . 7 6 9 9 6 9	-79.41085		39.7693	-79.41168
HAMBORSKY UNIT 12H	CHEVRON APPALACHIA LLC	79 SHERRICK RD	4 0 . 0 7 2 7 8 2	-79.57729		40.073	-79.573
HAMBORSKY UNIT 13H	CHEVRON APPALACHIA LLC	79 SHERRICK RD	4 0 . 0 7 2 7 8	-79.57732		40.073	-79.573

HARTLY UNIT 10H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.91401	-79.88343			39.91112	-79.88035
HARTLY UNIT 11H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.914013	-79.88349			39.91112	-79.88035
HARTLY UNIT 6H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.91402	-79.88322			39.91112	-79.88035
HARTLY UNIT 7H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.914022	-79.88327			39.91112	-79.88035
HARTLY UNIT 8H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.914022	-79.88333			39.91112	-79.88035
HARTLY UNIT 9H WELL	CHEVRON APPALACHIA LLC	201 LAMBERT HOLLOW RD	39.91401	-79.88338			39.91112	-79.88035

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HOEHN UNIT 10H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	5	-79.91904			39.93132 8	-79.89814
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HOEHN UNIT 11H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	6	-79.91898			39.93132 8	-79.89814
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HOEHN UNIT 12H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	4	-79.91893			39.93132 8	-79.89814
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HOEHN UNIT 7H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	4	-79.9192			39.93132 8	-79.89814
HOEHN UNIT 8H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	3	-79.91914			39.93132 8	-79.89814
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HOEHN UNIT 9H	CHEVRON APPALACHIA LLC	381 PALMER ADAH RD	3 9 . 9 2 7 6 6 4	-79.91909		39.93132 8	-79.89814
HUMBERSTON UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	270 FEARER RD	3 9 . 7 4 0 3 8 3	-79.43962		39.74151	-79.43931
JACKSON FARMS 41H WELL	CHEVRON APPALACHIA LLC	88 HATFIELD RD	3 9 . 9 6 6 5 8	-79.81048		39.9651	-79.81251
JACKSON FARMS 42 H WELL	CHEVRON APPALACHIA LLC	88 HATFIELD RD	3 9 . 9 6 6 5 8	-79.81048		39.9651	-79.81251
JACKSON FARMS 43 H WELL	CHEVRON APPALACHIA LLC	88 HATFIELD RD	3 9 . 9 6 6 5 8	-79.81048		39.9651	-79.81251

JACKSON FARMS UNIT 37H OG WELL	CHEVRON APPALACHIA LLC	544 STONE CHURCH RD	3 9 . 9 6 9 0 7 8	-79.83869			39.971	-79.841
JACKSON FARMS UNIT 38H OG WELL	CHEVRON APPALACHIA LLC	544 STONE CHURCH RD	3 9 . 9 6 9 0 8 1	-79.83863			39.971	-79.841
JACKSON FARMS UNIT 39H OG WELL	CHEVRON APPALACHIA LLC	544 STONE CHURCH RD	3 9 . 9 6 9 0 8 1	-79.8386			39.971	-79.841
JOHN HOLT 1H OG WEL	CHEVRON APPALACHIA LLC		3 9 . 7 6 8 9 6 3	-79.50441				
KIKTA UNIT 1H WELL	CHEVRON APPALACHIA LLC	222 CUTLER RD	3 9 . 9 4 7 0 8 5	-79.74443			39.94403	-79.74233

KIKTA UNIT 2H WELL	CHEVRON APPALACHIA LLC	222 CUTLER RD	39.94403	-79.74416			39.94403	-79.74233
KIKTA UNIT 3H WELL	CHEVRON APPALACHIA LLC	222 CUTLER RD	39.94403	-79.74357			39.94403	-79.74233
KIKTA UNIT 4H WELL	CHEVRON APPALACHIA LLC	222 CUTLER RD	39.94403	-79.74344			39.94403	-79.74233
KIRCHNER UNIT 2H OG WELL	CHEVRON APPALACHIA LLC		39.96810	-79.87853				
KIRCHNER UNIT 4H OG WELL	CHEVRON APPALACHIA LLC		39.96810	-79.87861				
KURUTZ UNIT 10H	CHEVRON APPALACHIA LLC	210 RACE PATH RD	39.96810 9	-79.67923			39.96810 9	-79.67975

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KURUTZ UNIT 11H	CHEVRON APPALACHIA LLC	210 RACE PATH RD	3 9 . 9 6 7 4 5 7	-79.67921			39.96810 9	-79.67975
KURUTZ UNIT 12H	CHEVRON APPALACHIA LLC	210 RACE PATH RD	3 9 . 9 6 7 4 9 6	-79.67918			39.96810 9	-79.67975
LEE UNIT 14H WELL	CHEVRON APPALACHIA LLC	411 FORDS HILL RD	4 0 . 0 0 3 8 9	-79.81429			40.00272	-79.8139
LEE UNIT 15H WELL	CHEVRON APPALACHIA LLC	411 FORDS HILL RD	4 0 . 0 0 3 8 9	-79.81429			40.00272	-79.8139
LESTER UNIT 4H OG WELL	CHEVRON APPALACHIA LLC	261 WILLIAMS RD	4 0 . 0 6 4 2	-79.82326			40.06592	-79.82096



			7 7				
LESTER UNIT 5H OG WELL	CHEVRON APPALACHIA LLC	261 WILLIAMS RD	4 0 . 0 6 4 2 6 6	-79.82321		40.06592	-79.82096
LESTER UNIT 6H OG WELL	CHEVRON APPALACHIA LLC	261 WILLIAMS RD	4 0 . 0 6 4 2 5 8	-79.82316		40.06592	-79.82096
LESTER UNIT 7H WELL	CHEVRON APPALACHIA LLC	261 WILLIAMS RD	4 0 . 0 6 5 7	-79.82487		40.06592	-79.82096
LESTER UNIT 8H WELL	CHEVRON APPALACHIA LLC	261 WILLIAMS RD	4 0 . 0 6 5 7	-79.82487		40.06592	-79.82096
MUTNANSKY UNIT 10H OG WELL	CHEVRON APPALACHIA LLC	183 MALENOCK LN	3 9 . 9 4 5 8 4 1	-79.71983		39.93643 7	-79.7133

MUTNANSKY UNIT 11H OG WELL	CHEVRON APPALACHIA LLC	183 MALENOCK LN	3 9 . 9 4 5 8 3 8	-79.71995			39.93643 7	-79.7133
MUTNANSKY UNIT 12H OG WELL	CHEVRON APPALACHIA LLC	183 MALENOCK LN	3 9 . 9 4 5 8 3 8	-79.72			39.93643 7	-79.7133
MUTNANSKY UNIT 9H OG WELL	CHEVRON APPALACHIA LLC	183 MALENOCK LN	3 9 . 9 4 5 8 3 8	-79.71989			39.93643 7	-79.7133
NATIONAL MINES CORP 26H OG WELL	CHEVRON APPALACHIA LLC	175 ISABELLA RD	3 9 . 9 5 4 0 1 9	-79.94236			39.95281 6	-79.94305
POLK UNIT 1H OG WELL	CHEVRON APPALACHIA LLC	2664 DINNER BELL FIVE FORKS RD	3 9 . 7 4 6 5 1 2	-79.52956			39.74612	-79.53425

POLK UNIT 2H OG WELL	CHEVRON APPALACHIA LLC	2664 DINNER BELL FIVE FORKS RD	3 9 . 7 4 6 4 1 9	-79.52961			39.74612	-79.53425
POLK UNIT 3H OG WELL	CHEVRON APPALACHIA LLC	2664 DINNER BELL FIVE FORKS RD	3 9 . 7 4 6 4 5 8	-79.52959			39.74612	-79.53425
POLK UNIT 4H OG WELL	CHEVRON APPALACHIA LLC	2664 DINNER BELL FIVE FORKS RD	3 9 . 7 4 6 5 3	-79.52954			39.74612	-79.53425
POLK UNIT 5H OG WELL	CHEVRON APPALACHIA LLC	2664 DINNER BELL FIVE FORKS RD	3 9 . 7 4 6 5 6 9	-79.52952			39.74612	-79.53425
PRITTS UNIT 3H OG WELL	CHEVRON APPALACHIA LLC	638 DAWSON SCOTTDALE RD	4 0 . 0 7 3 0 4 1	-79.6331			40.074	-79.633
ROSUL UNIT 1H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 .	-79.79243			40.09057	-79.80448

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ROSUL UNIT 2H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 . 0 8 7 6 2	-79.79248			40.09057	-79.80448
ROSUL UNIT 3H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 . 0 8 7 6 4	-79.79252			40.09057	-79.80448
ROSUL UNIT 4H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 . 0 8 7 6 6	-79.79257			40.09057	-79.80448
ROSUL UNIT 5H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 . 0 8 7 9 9	-79.80126			40.09059	-79.80447
ROSUL UNIT 6H WELL	CHEVRON APPALACHIA LLC	330 REDSTONE CHURCH RD	4 0 . 0 8 7 9 9	-79.80126			40.09059	-79.80447
SHEPERD UNIT 4H WELL	CHEVRON APPALACHIA LLC	410 ROWES RUN RD	3 9 .	-79.79985			39.99752	-79.80474

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SHEPERD UNIT 5H WELL	CHEVRON APPALACHIA LLC	410 ROWES RUN RD	3 9 . 9 9 4 7	-79.79985			39.99752	-79.80474
SHEPERD UNIT 6H WELL	CHEVRON APPALACHIA LLC	410 ROWES RUN RD	3 9 . 9 9 4 7	-79.79985			39.99752	-79.80474
SHEPERD UNIT 7H WELL	CHEVRON APPALACHIA LLC	410 ROWES RUN RD	3 9 . 9 9 4 7	-79.79985			39.99752	-79.80474
SKOVRAN 24 OG WELL	CHEVRON APPALACHIA LLC		3 9 . 9 3 7 6 9 3	-79.86294				
SKOVRAN UNIT 32H OG WELL	CHEVRON APPALACHIA LLC	245 SEATONTOWN RD	3 9 . 9 3 5 2 4 7	-79.85362			39.933	-79.853
SKOVRAN UNIT 33H OG WELL	CHEVRON APPALACHIA LLC	245 SEATONTOWN RD	3 9 . 9	-79.85355			39.933	-79.853

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SKOVRAN UNIT 37H	CHEVRON APPALACHIA LLC	178 THOMPSON 01 RD	3 9 . 9 3 7 0 0 2	-79.87331			39.93462 3	-79.8816
SKOVRAN UNIT 38H	CHEVRON APPALACHIA LLC	178 THOMPSON 01 RD	3 9 . 9 3 6 9 8 6	-79.87326			39.93462 3	-79.8816
SKOVRAN UNIT 39H	CHEVRON APPALACHIA LLC	178 THOMPSON 01 RD	3 9 . 9 3 6 9 7 2	-79.87321			39.93462 3	-79.8816
SKOVRAN UNIT 40H	CHEVRON APPALACHIA LLC	178 THOMPSON 01 RD	3 9 . 9 3 6 9 5 8	-79.87316			39.93462 3	-79.8816
COASTAL 7013 OG WELL	MARATHON OIL CO		3 9 . 9 2 3	-79.62863				

			3 0 1					
NEMACOLIN 7011 OG WELL	MARATHON OIL CO		3 9 . 8 0 4 8 0 6	-79.52716				
NEMACOLIN 7012 OG WELL	MARATHON OIL CO		3 9 . 8 0 4 5 2 5	-79.5448				
GEN REFRACTORIES 4 OG WELL	RANGE RESOURCES APPALACHIA LLC		4 0 . 0 8 0 1 9 9	-79.71234				
GEN REFRACTORIES UNIT 5 OG WELL	RANGE RESOURCES APPALACHIA LLC		4 0 . 0 8 4 2 5 7	-79.70902				
J YOHO 1 OG WELL	THE PRODUCTION CO		3 9 . 9 7 6 8 8	-79.9641				

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MAWC 7020 1H OG WELL	TRIANA ENERGY LLC		4	-79.43714			
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MAWC 7020 3H WELL	TRIANA ENERGY LLC		1	-79.43724			
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NEMACOLIN 7008 OG WELL	TRIANA ENERGY LLC		4	-79.52097			
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SPROUL 7005 OG WELL	TRIANA ENERGY LLC		3	-79.53675			
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COUGHENOUR-DUNCAN 1A OG WELL	XTO ENERGY INC	221 ELM GROVE RD	4	-79.69096		39.98306 1	-79.69706



GEORGE F JOSEPH 10H OG WELL	XTO ENERGY INC	1244 NELLIE RD	4 0 . 0 2 0 5 3 6	-79.67832			40.01843 8	-79.68014
GEORGE F JOSEPH 11H OG WELL	XTO ENERGY INC	1238 NELLIE RD	4 0 . 0 2 0 5 3 6	-79.67814			40.01843 8	-79.68014
GEORGE F JOSEPH 13H OG WELL	XTO ENERGY INC	1238 NELLIE RD	4 0 . 0 2 1 6 4 7	-79.67558			40.01854 4	-79.68013
HALL 8423H OG WELL	XTO ENERGY INC		3 9 . 9 3 7 5 2	-79.46924				
HALL 8450V OG WELL	XTO ENERGY INC		3 9 . 9 3 7 5 2 5	-79.46919				
HELEN K BUKOVAC 4H OG WELL	XTO ENERGY INC	760 LITTLE SUMMIT ROAD EXT	4 0 .	-79.67262			-79.67947	40.006978

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JAMES G SIMON ETAL 10H OG WELL	XTO ENERGY INC	715 LITTLE SUMMIT ROAD EXT	4 0 . 0 0 2 4 3 9	-79.68229			40.01073	-79.68994
JAMES G SIMON ETAL 9H OG WELL	XTO ENERGY INC	715 LITTLE SUMMIT ROAD EXT	4 0 . 0 0 2 5 3 3	-79.68217			40.01073	-79.68994
JAMES G SIMON ETUX 11H OG WELL	XTO ENERGY INC	715 LITTLE SUMMIT ROAD EXT	4 0 . 0 0 2 3 5 8	-79.68244			40.01073	-79.68994
JOHN O HILLEN 2 OG WELL	XTO ENERGY INC	283 UPPER SANDY HOLLOW RD	3 9 . 9 9 9 7 7 8	-79.66093			40.00415 3	-79.65894
JOSEPH GREEN 5 OG WELL	XTO ENERGY INC	271 LEISENRING VANDERBILT RD	4 0 . 0 0	-79.65011			40.01136 7	-79.64681

**HAZARDOUS MATERIALS UNCONVENTIONAL WELL SITES**

**EMERGENCY RESPONSE PLAN**

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JOSEPH GREEN ET AL 6H OG WELL	XTO ENERGY INC	271 LEISENRING VANDERBILT RD	4 0 . 0 0 8 3 1 9	-79.6498			40.01136 7	-79.64681
JOSEPH GREEN ET AL 7H OG WELL	XTO ENERGY INC	271 LEISENRING VANDERBILT RD	4 0 . 0 0 8 2 8 3	-79.64997			40.01136 7	-79.64681
KERMIT M KENNEDY ET AL 6 OG WELL	XTO ENERGY INC	480 UPPER SANDY HOLLOW RD	4 0 . 0 1 7 2 7 2	-79.65972			40.01537 6	-79.65968
MASTOWSKI 8471V OG WELL	XTO ENERGY INC		3 9 . 9 6 4 5 9 2	-79.47388				
MELVIN R TISSUE AL11H OG WELL	XTO ENERGY INC		4 0 . 0 1 1 9 1	-79.65676				

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STEVENS UNIT 1H	XTO ENERGY INC	593 LEISENRING VANDERBILT RD	8	-79.65569			40.02516	-79.65795
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STEVENS UNIT 2H	XTO ENERGY INC	593 LEISENRING VANDERBILT RD	9	-79.65552			40.02516	-79.65795

**ATTACHMENT 1: RESPONSE CHECKLISTS**

<b>COMPLETED BY</b>	<b>TIME</b>	<b>ACTION ITEM</b>
		<b>MATERIALS AND INFORMATION INVENTORY</b>
		Copy of this ERP
		NARM
		Copies of all necessary ESF plans, procedures, and other reference materials
		Key Action Log (ICS Forms #__)
		<b>NOTIFICATION</b>

		Reported to the EOC at _____ (address)
		Reviewed the checklist
		Notified the Deputy HAZMAT Branch Director and placed him/her on standby
		Opened and maintained ESF Action Log (see Attachment 1)
		Developed shift schedule for possible 24-hour operations
		Reviewed and updated Standard Operating Procedures and other procedures necessary for efficient ESF #10 operations
		Reviewed and updated resource lists
		Provided guidance on state and federal regulations
		Notified Operations Section Chief of "unmet needs" in HAZMAT response
		OPERATIONS
		Kept the Operations Section Chief informed of HAZMAT response status
		Prepared to relocate if necessary
		Assisted with collecting, completing, and forwarding damage reports and assessments

		<b>Monitored the status of HAZMAT team and other specialized resources</b>
		<b>Identified need for HAZMAT and (recommended) dispatch/request for support</b>
		<b>Coordinated actions to contain/prevent the spread of contamination</b>
		<b>Coordinated the establishment and operation of a chemical or radiological decontamination site for emergency workers or the general public</b>
		<b>Assisted in determining the appropriate public warning</b>
		<b>Assisted in the development of Protective Action Guidance</b>
		<b>Assisted in the development of the Incident Action Plan (IAP)</b>
		<b>Provided technical assistance, as requested</b>
		<b>Coordinated required environmental assessments</b>
		<b>Prepared technical information for appropriate EOC representatives or for public release</b>
		<b>Interfaced with state/federal personnel to coordinate the ESF information and planning functions, as needed</b>
		<b>Served as primary source of information for hazardous materials to County executive and other ESFs</b>
		<b>Identified the need and requested state/federal assistance</b>

		<b>Coordinated decontamination and other cleanup efforts, as requested</b>
		<b>Collected and inventoried all equipment used during the incident and ensured that the equipment was decontaminated</b>
		<b>Provided guidance on state and federal regulations</b>
		<b>Ensured that all staff were properly debriefed, to include mental health debriefings if appropriate</b>
		<b>Prepared appropriate After-Action Reports</b>



**ATTACHMENT 2: NOTIFICATION AND RESOURCE MANUAL (NARM)**

**LOCATED IN COUNTY EOP RESOURCE MANUAL**