



EQT Production
2400 Ansys Drive, Suite 200
Canonsburg, PA 15317
www.eqt.com

John Zavatchan
Landman - Permitting
O:724-746-9073
jzavatchan@eqt.com

April 20, 2017

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

**Missing: instructions on how to
comment directly to the PA DEP.**

City of Clairton
551 Ravensburg Boulevard
Clairton, PA 15025

RE: Adjacent Municipal Notification
Lincoln Borough, Allegheny County, PA
Well Names: Carothers – MCK74H2, MCK74H3 & MCK74H21

Dear Municipal Official:

We are required by Pennsylvania law to notify you, a municipality adjoining the host municipality, of EQT Production's intention to apply for natural gas drilling permits on the above subject property.

Enclosed you will find well permit applications and well plats showing you the location of the proposed wells and Form ER-OG-52.

If you should have any questions concerning these applications, please do not hesitate to contact me at 724-746-9073 or e-mail jzavatchan@eqt.com.

Thank you in advance for your courteous attention to this matter.

Regards,

John F. Zavatchan, Jr.
Landman – Permitting
jzavatchan@eqt.com
724-746-9073

CC: MAYOR
COUNCIL
SOLICITOR
4-27-2017
VIA EMAIL

Please read instructions before you begin filling in this form.

WELL INFORMATION

COORDINATION WITH REGULATIONS AND OTHER PERMITS

- 1 -

3. Will the vertical wellbore section penetrate or be within 3,000 feet of an active gas storage reservoir boundary?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If Yes, print the names of: Storage Field: Operator:			
4. Is the proposed well location within the permitted area of a landfill ?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Will the vertical wellbore section of the unconventional well be drilled within 500 feet from any existing building or an existing water supply?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," is written consent from the owner attached?		<input type="checkbox"/>	<input type="checkbox"/>
b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?		<input type="checkbox"/>	<input type="checkbox"/>
5.1. Will the vertical wellbore of the unconventional well be drilled within 1,000 feet from any existing water well, surface water intake, reservoir or other water supply extraction point used by a water purveyor?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," is written consent from the owner attached?		<input type="checkbox"/>	<input type="checkbox"/>
b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?		<input type="checkbox"/>	<input type="checkbox"/>
6. Is this permit application for a well that will be drilled on a well site for which construction was completed prior to April 16, 2012?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," was there a permitted well at this well site prior to April 16, 2012?		<input type="checkbox"/>	<input type="checkbox"/>
b. If the answer to question no. 6a is "Yes", provide the US Well Number (API No.) of the well permitted at this site prior to April 16, 2012. _____		<input type="checkbox"/>	<input type="checkbox"/>
7. Will the well be located where it may impact a public resource as outlined in the "Coordination of a Well Location with Public Resources" form 8000-PM-OOGM0076? If yes, attach a completed copy of the form.		<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Will any portion of the well site be in a Special Protection High Quality <input type="checkbox"/> (HQ) or Exceptional Value <input type="checkbox"/> (EV) watershed? Provide name of special protection watershed _____		<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Is this well part of a development which requires an Earth Disturbance Permit for Oil and Gas Activities disturbing more than 5 acres? If yes, list the number of the ESCGP approval if the permit has been issued. ESX16-003-0003 If no, is this well part of a development that involves 1 to less than 5 acres of earth disturbance over the life of the project and is the answer to question no. 8 "Yes"? If yes, attach a site-specific E&S control plan.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Is the well to be located within a H ₂ S area pursuant to §78a.77a?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Attach a current Ownership & Control form 8000-FM-OOGM0118 with the first application submitted after the effective date of the final "Environmental Protection Performance Standards at Oil and Gas Well Sites" rulemaking, or if there have been any changes to parent and subsidiary business corporations.			
Signature of Applicant	The person signing this form attests that they have the authority to submit this application on behalf of the applicant, and that the information, including all related submissions, is true and accurate to the best of their knowledge.		
Signature of Person Authorized to Submit Application	(Print or Type)	Name of Signer: JOHN ZAVATCHAN	Date 4/20/17
		Title: Landman - Permitting	
Application Preparer/Contact: JOHN ZAVATCHAN		Phone: 724-746-9073	

☐ Denotes location of top of well on topo map.

Well is located on topo map 14,670 feet south of latitude 40° 20' 00"

True Latitude: NORTH
40° 17' 35.03"

True Longitude: WEST
79° 51' 35.92"

Horizontal Coordinate System:
NAD 83

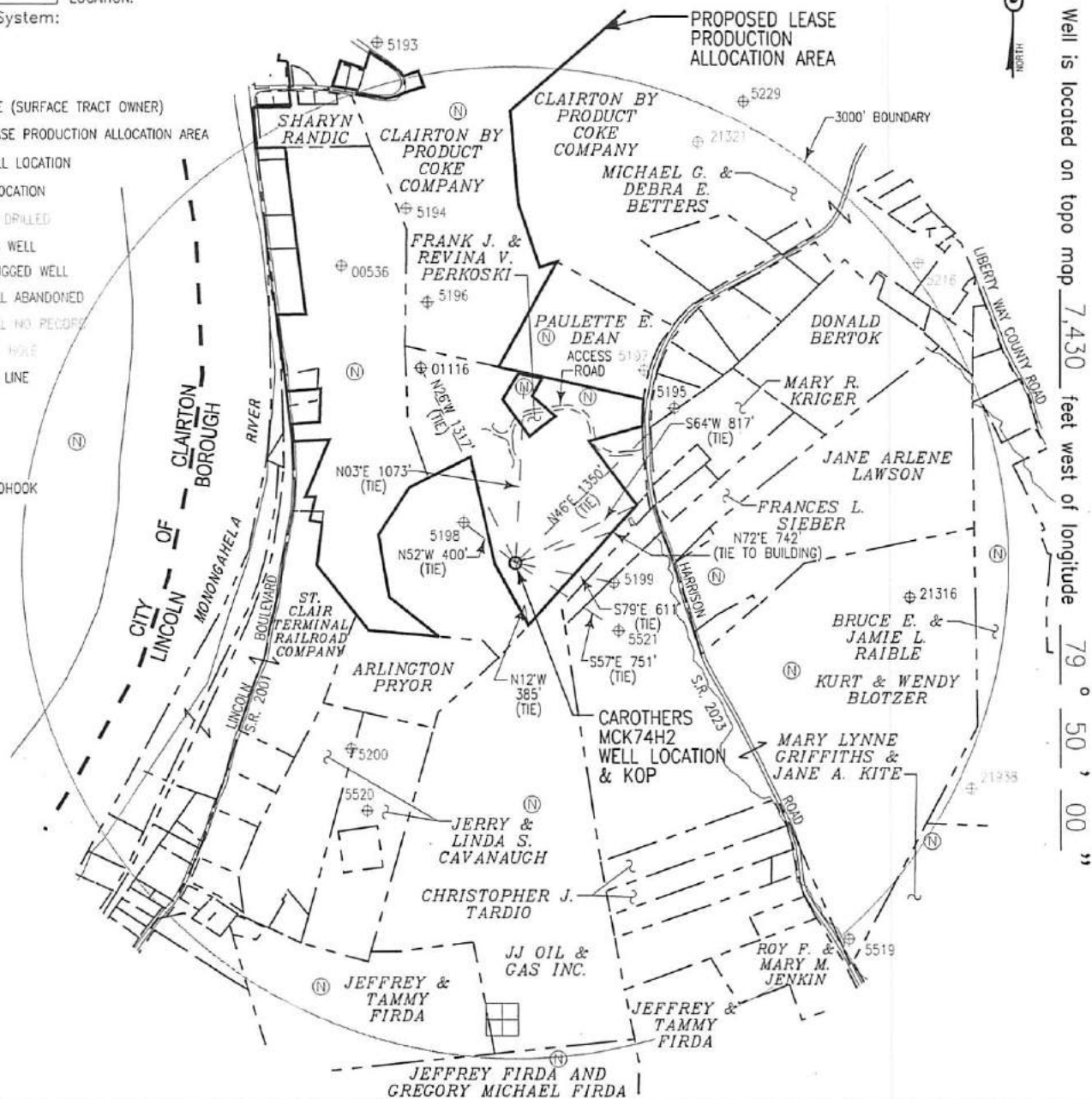
LEGEND

- PROPERTY LINE (SURFACE TRACT OWNER)
- PROPOSED LEASE PRODUCTION ALLOCATION AREA
- PROPOSED WELL LOCATION
- ⊕ ACTIVE WELL LOCATION
- ⊕ REPORTED NOT DRILLED
- ⊕ HISTORICAL GAS WELL
- ⊕ HISTORICAL PLUGGED WELL
- ⊕ HISTORICAL WELL ABANDONED
- ⊕ HISTORICAL WELL NO RECORD
- ⊕ HISTORICAL DRY HOLE
- BOROUGH/CITY LINE
- ROADWAY
- STREAM
- TIE LINE
- PROPERTY LANDHOOK
- Ⓝ NOT HOME

NOTES:
THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF A PROPOSED GAS WELL AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.
NO STRUCTURES EXIST WITHIN 500 FEET OF PROPOSED WELL LOCATION.

THERE ARE NO COAL MINES WITHIN 1000 FEET OF PROPOSED WELL LOCATION.

THERE ARE NO GAS STORAGE RESERVOIRS WITHIN 3000 FEET OF PROPOSED WELL LOCATION.



Well is located on topo map 7,430 feet west of longitude 79° 50' 00"

Applicant / Well Operator Name: EQT Production Company		DEP ID#: 146983	Well (Form) Name: Carothers		Well #: MCK74H2	Serial #: 593684
Address: 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317			County: Allegheny	Municipality: Lincoln Borough	Well Type: Gas	
911 address of well site: To Be Determined			USGS 7 1/2' Quadrangle Map Name: McKeesport, PA	Map Section: 4	Surface Elevation: 1220± ft.	
Surveyor or Engineer: Thomas C. Smit, PLS	Phone #: (412) 278-2100	Dwg #:	Date: 04/18/2017	Scale: 1"=1000'	Proposed Lease Production Allocation Area Acreage: 532.71	
Lot & Long Metadata Method: GPS	Accuracy: 3± ft.	Datum: NAD 83	Elevation Metadata Method: GPS	Accuracy: 5± ft.	Datum: NAVD 88	Survey Date: 03/01/2017

PRELIMINARY

WELL LOCATION PLAT

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is 1-866-255-5158.

Applicant / Well Operator Name EQT Production Company	DEP ID# 146983	Well (Farm) Name Carothers	Well # MCK74H2	Serial # 593684
Surface Landowner / Lessor: Marshall Carothers		Angle & Course of Deviation (Drilling): N 28° 40' 41" W – 15,644'	Anticipated True Vertical Depth Feet (TVD):	Anticipated Total Measured Depth Feet (TMD):
Target Formation(s): Marcellus		Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals:
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
Clairton By Product Coke Company		40° 18' 01.92" -79° 51' 41.28"		
Marshall Carothers		40° 17' 45.12" -79° 51' 30.54"		
Kenneth Daugherty, Keith Daugherty, Joshua Oskin & Jonathan Oskin		40° 17' 46.26" -79° 51' 48.89"		
Frank J. & Revina V. Perkosi		40° 17' 45.63" -79° 51' 35.56"		
Paulette E. Dean		40° 17' 48.66" -79° 51' 33.91"		
Jane Arlene Lawson		40° 17' 34.54" -79° 51' 20.17"		
Kurt & Wendy Blotzer		40° 17' 28.97" -79° 51' 14.09"		
Bruce E. & Jamie L. Raible		40° 17' 36.32" -79° 51' 58.07"		
Mary Lynne Griffiths & Jane A. Kite		40° 17' 18.98" -79° 51' 02.77"		
JJ Oil & Gas Inc.		40° 17' 20.60" -79° 51' 34.20"		
Jeffery Firda & Gregory Michael Firda		40° 17' 05.44" -79° 51' 31.73"		
Jeffrey & Tammy Firda		40° 17' 09.44" -79° 51' 50.49"		
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		
Lincoln Borough, Allegheny County				
City Of Clairton, Allegheny County				
Liberty Borough, Allegheny County		Coal related parties		
Jefferson Hill Borough, Allegheny County		Marshall Carothers - Owner - All Coal		
Elizabeth Township, Allegheny County				
Versailles Brough, Allegheny County				
Glassport Borough, Allegheny County				

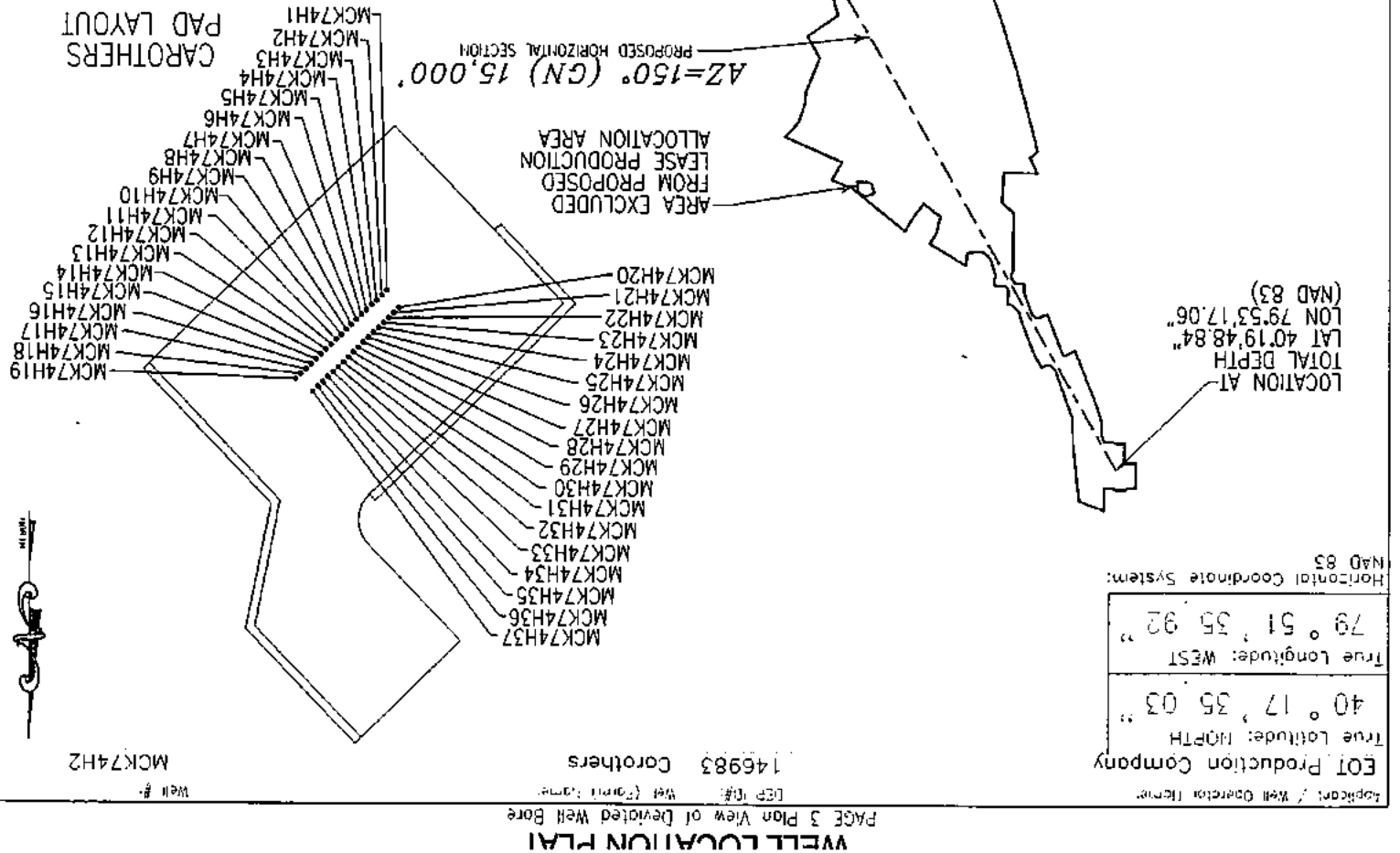
2000 0 1000 2000

APRIL 18, 2017
SCALE 1" = 2000'

PROPOSED LEASE
PRODUCTION ALLOCATION
AREA ACREAGE 532.71 AC.
EASTING COORDINATE ELEVATION - 1000 FT.

Top hole	LAT	40°17'34.75"	LON	-79°51'36.75"
KOP	LAT	40°17'34.75"	LON	-79°51'36.75"
Landing	LAT	40°17'34.75"	LON	-79°51'36.75"
Bottom hole	LAT	40°19'48.59"	LON	-79°55'17.83"

Important to note: this project proposes 37 well heads on the Carothers well pad. How long will the community be impacted by those activities? Weeks, months, years for each well? EQT should be asked to provide details.



EQT Production Company
Horizontal Coordinate System:
NAD 83



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT**

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Notes		DEP USE ONLY	
	OGO No.	Objection Date - Do not issue before:	
	Client ID	Date Approved:	
	Bond No.	API #s37- _____ and - _____	
	C: _____ G: _____	Watershed Name: Designation: <input type="checkbox"/> HQ <input type="checkbox"/> EV	
	INV:	Special Cond.	
APS No.	Auth ID	Site Id	PF Id
		SF Id	

Please read instructions before you begin filling in this form.

WELL INFORMATION									
Well Operator EQT Production Company		DEP ID# 146983	Well API No. (if available) 37- - - - -		Well Farm Name Carothers		Well # MCK74H3		
Address 2400 Ansys Drive, Suite 200		LAT 40° 17' 35.10"		NAD 83	Project Number		Serial # 593685		
		LONG - 79° 51' 35.83"							
City Canonsburg	State PA	Zip Code 15317	Municipality Name/ City, Borough, Township Lincoln Borough			County Allegheny			
Phone No. 724-746-9073	Fax No. 724-745-2418	Email jzavatchan@eqt.com			USGS 7.5 min. quadrangle map McKeesport		Section 4		
24/7 Emergency Phone Contact No.: 1-800-926-1759		ESGP Permit No. ESX16-003-0003			Well Pad (cluster) Name/Identification Carothers				
911 address of well site (if available) TBD									
Surface Elev. 1220'	Deepest Formation to be Penetrated Marcellus		Anticipated TVD XXXX		PERMIT TYPE Check applicable. Application is to <input checked="" type="checkbox"/> Drill a new well <input type="checkbox"/> Modify existing well/permit <input type="checkbox"/> Redrill a plugged well		TYPE OF WELL Check applicable. <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Comb. (gas & oil/condensate)		APPLICATION FEE Check applicable. <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Non-vertical
Target Formation(s) Proposed for Production Marcellus		Anticipated Target Top/Bottom TVD XXXX XXXX						Total Application Fee \$ 5,250	
Number of wellbore laterals proposed under this application 1									
Total feet of wellbore to be drilled under this application Ft.									
PNDI Attached: <input checked="" type="checkbox"/> Any threatened or endangered "hil" must include a demonstration of how the impact will be avoided or minimized and mitigated, or justification that section 78a.15(e) applies.									
Application submitted as:		<input checked="" type="checkbox"/> Coal well (Attach Coal Module) <input type="checkbox"/> Non coal well (Attach justification)				Configuration <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Deviated <input type="checkbox"/> Multiple laterals		Bond Agreement Id: 9399	

COORDINATION WITH REGULATIONS AND OTHER PERMITS		Yes	No
1. Will the well be subject to the Oil and Gas Conservation Law? If "No," go to 2).		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes" to #1, is the well at least 330 feet from outside lease or unit boundary?		<input type="checkbox"/>	<input type="checkbox"/>
b. Does the location fall within an area covered by a spacing order?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. If the well will be multilateral, identify the wellbores on the sketch on page 3 of the plat that will be completed as conservation and non-conservation.			
2. Will the proposed limit of disturbance of the well site be within 100 feet measured horizontally from any watercourse or any high quality of exceptional value body of water or any wetland one acre or greater in size?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, attach the following if applicable: a site-specific E&S control plan, a permit consistent with Chapter 102, applicable portions of the Pollution Prevention Control Plan, applicable portions of the Well Site Emergency Response Plan, applicable portions of the Site Containment Plan, the permit number of a Water Obstruction and Encroachment Permit issued pursuant to Chapter 105, or justification that section 78a.15(e) applies.		<input type="checkbox"/>	<input type="checkbox"/>
Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, within 100 feet of the top of the bank of a perennial stream or within 50 feet of the top of the bank of an intermittent stream.		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, attach a plan that identifies the additional measure, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the Commonwealth		<input type="checkbox"/>	<input type="checkbox"/>

3. Will the vertical wellbore section penetrate or be within 3,000 feet of an active gas storage reservoir boundary?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If Yes, print the names of: Storage Field: Operator:			
4. Is the proposed well location within the permitted area of a landfill ?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Will the vertical wellbore section of the unconventional well be drilled within 500 feet from any existing building or an existing water supply?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," is written consent from the owner attached?		<input type="checkbox"/>	<input type="checkbox"/>
b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?		<input type="checkbox"/>	<input type="checkbox"/>
5.1. Will the vertical wellbore of the unconventional well be drilled within 1,000 feet from any existing water well, surface water intake, reservoir or other water supply extraction point used by a water purveyor?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," is written consent from the owner attached?		<input type="checkbox"/>	<input type="checkbox"/>
b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?		<input type="checkbox"/>	<input type="checkbox"/>
6. Is this permit application for a well that will be drilled on a well site for which construction was completed prior to April 16, 2012?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes," was there a permitted well at this well site prior to April 16, 2012?		<input type="checkbox"/>	<input type="checkbox"/>
b. If the answer to question no. 6a is "Yes", provide the US Well Number (API No.) of the well permitted at this site prior to April 16, 2012. _____		<input type="checkbox"/>	<input type="checkbox"/>
7. Will the well be located where it may impact a public resource as outlined in the "Coordination of a Well Location with Public Resources" form 8000-PM-OOGM0076? If yes, attach a completed copy of the form.		<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Will any portion of the well site be in a Special Protection High Quality <input type="checkbox"/> (HQ) or Exceptional Value <input type="checkbox"/> (EV) watershed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Provide name of special protection watershed _____			
9. Is this well part of a development which requires an Earth Disturbance Permit for Oil and Gas Activities disturbing more than 5 acres? If yes, list the number of the ESCGP approval if the permit has been issued. ESX16-003-0003 If no, is this well part of a development that involves 1 to less than 5 acres of earth disturbance over the life of the project and is the answer to question no. 8 "Yes"? If yes, attach a site-specific E&S control plan.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Is the well to be located within a H ₂ S area pursuant to §78a.77a?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Attach a current Ownership & Control form 8000-FM-OOGM0118 with the first application submitted after the effective date of the final "Environmental Protection Performance Standards at Oil and Gas Well Sites" rulemaking, or if there have been any changes to parent and subsidiary business corporations.			
Signature of Applicant	The person signing this form attests that they have the authority to submit this application on behalf of the applicant, and that the information, including all related submissions, is true and accurate to the best of their knowledge.		
Signature of Person Authorized to Submit Application	(Print or Type)	Name of Signer: JOHN ZAVATCHAN	Date 4/20/17
		Title: Landman - Permitting	
Application Preparer/Contact: JOHN ZAVATCHAN		Phone: 724-746-9073	



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

WELL LOCATION PLAT

PAGE 1 Surface Location

DEP USE ONLY	Auth ID #:	G:
	Permit #:	C:
	Project #:	C:

☐ Denotes location of top of well on topo map.

Well is located on topo map 14,655 feet south of latitude 40° 20' 00"

True Latitude: NORTH
40° 17' 35.10"

True Longitude: WEST
79° 51' 35.83"

Horizontal Coordinate System:
NAD 83

LEGEND

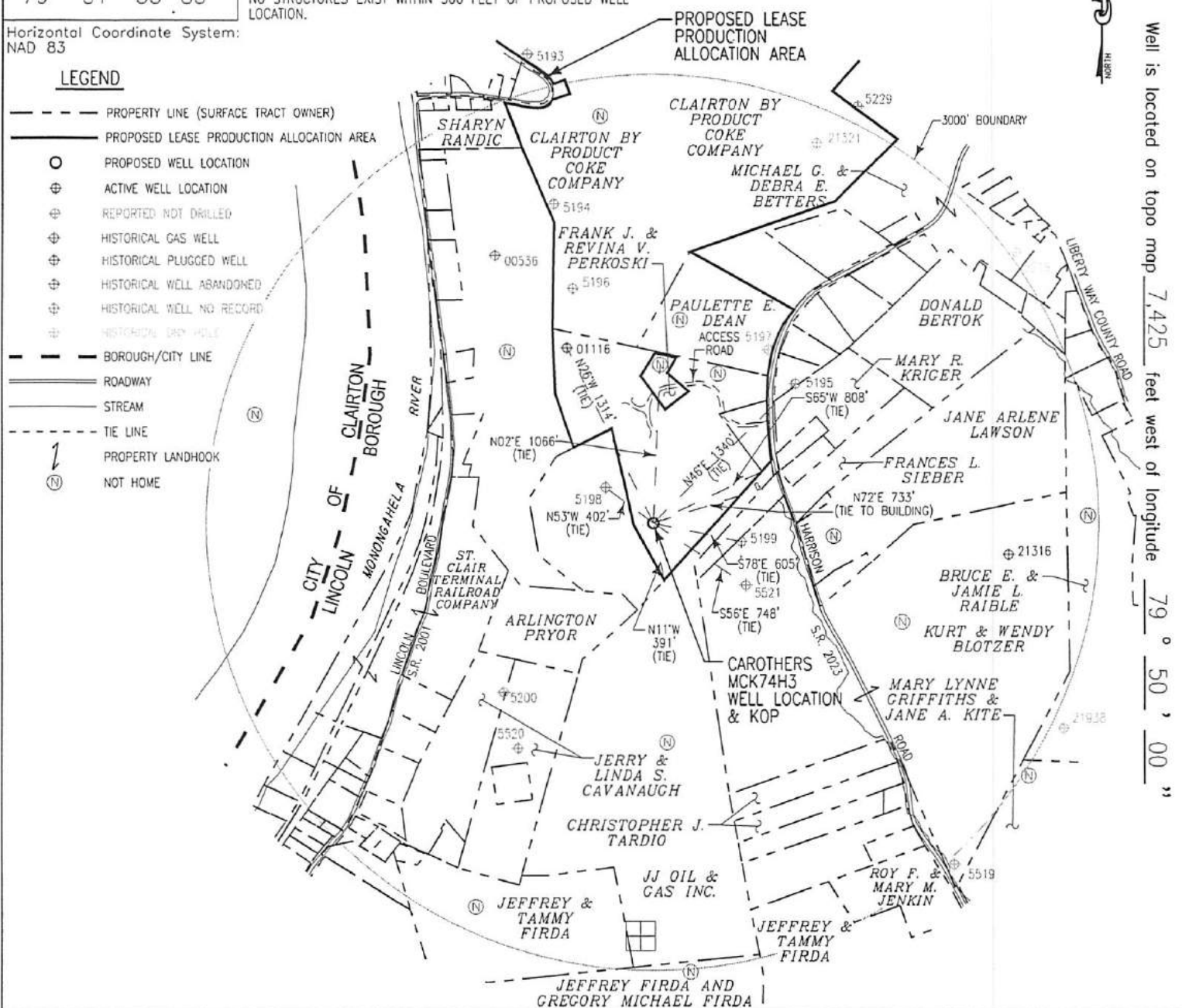
- PROPERTY LINE (SURFACE TRACT OWNER)
- PROPOSED LEASE PRODUCTION ALLOCATION AREA
- PROPOSED WELL LOCATION
- ⊕ ACTIVE WELL LOCATION
- ⊕ REPORTED NOT DRILLED
- ⊕ HISTORICAL GAS WELL
- ⊕ HISTORICAL PLUGGED WELL
- ⊕ HISTORICAL WELL ABANDONED
- ⊕ HISTORICAL WELL NO RECORD
- ⊕ HISTORICAL DRY HOLE
- BOROUGH/CITY LINE
- == ROADWAY
- == STREAM
- - - TIE LINE
- 1 PROPERTY LANDHOOK
- (N) NOT HOME

NOTES:
THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF A PROPOSED GAS WELL AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.

NO STRUCTURES EXIST WITHIN 500 FEET OF PROPOSED WELL LOCATION.

THERE ARE NO COAL MINES WITHIN 1000 FEET OF PROPOSED WELL LOCATION.

THERE ARE NO GAS STORAGE RESERVOIRS WITHIN 3000 FEET OF PROPOSED WELL LOCATION.



Well is located on topo map 7,425 feet west of longitude 79° 50' 00"

Applicant / Well Operator Name: EQT Production Company		DEP ID#: 146983	Well (Farm) Name: Carothers		Well #: MCK74H3	Serial #: 593685
Address: 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317		County: Allegheny		Municipality: Lincoln Borough	Well Type: Gas	
911 address of well site: To Be Determined		USGS 7 1/2" Quadrangle Map Name: McKeesport, PA		Map Section: 4	Surface Elevation: 1220± ft.	
Surveyor or Engineer: Thomas C. Smit, PLS	Phone #: (412) 278-2100	Dwg #:	Date: 04/18/2017	Scale: 1"=1000'	Proposed Lease Production Allocation Area Acreage: 542.34	
Lat & Long Metadata Method: GPS	Accuracy: 3± ft.	Datum: NAD 83	Elevation Metadata Method: GPS	Accuracy: 5± ft.	Datum: NAVD 88	Survey Date: 03/01/2017

PRELIMINARY

WELL LOCATION PLAT

Page 2 Notifications

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Applicant / Well Operator Name EQT Production Company	DEP ID# 146983	Well (Farm) Name Carothers	Well # MCK74H3	Serial # 593685
Surface Landowner / Lessor: Marshall Carothers		Angle & Course of Deviation (Drilling): N 26°07' 57" W – 15,588'	Anticipated True Vertical Depth Feet (TVD):	Anticipated Total Measured Depth Feet (TMD):
Target Formation(s): Marcellus		Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals:
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
Clairton By Product Coke Company		40° 18' 01.92" -79° 51' 41.28"		
Marshall Carothers		40° 17' 45.12" -79° 51' 30.54"		
Kenneth Daugherty, Keith Daugherty, Joshua Oskin & Jonathan Oskin		40° 17' 46.26" -79° 51' 48.89"		
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Jeffrey Firda and Gregory Michael Firda		40° 17' 05.44" -79° 51' 31.73"		
Jeffrey & Tammy Firda		40° 17' 09.44" -79° 51' 50.49"		
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		
Lincoln Borough, Allegheny County				
City of Clairton, Allegheny County				
Liberty Borough, Allegheny County		Coal related parties		
Jefferson Hill Borough, Allegheny County				
Elizabeth Township, Allegheny County				
Versailles Borough, Allegheny County				
Glassport Borough, Allegheny County				

WELL LOCATION PLAT

PAGE 3 Plan View of Deviated Well Bore

WELL ID# 146983 Carothers

MCK74H3

Applicant / Well Operator Name: EQT Production Company

True Latitude: NORTH 40° 17' 35.10"

True Longitude: WEST 79° 51' 35.83"

Horizontal Coordinate System: NAD 83

LOCATION AT
TOTAL DEPTH
LAT 40°19'51.73"
LON 79°53'08.77"
(NAD 83)

AREA EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

PROPOSED LEASE
PRODUCTION
ALLOCATION AREA

AZ=330° (GN) 15,000'
PROPOSED HORIZONTAL SECTION

AREA EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

ACCESS
ROAD

CAROTHERS
WELL LOCATION
& KOP
(MCK74H3)

LOCATION
AT LANDING
LAT 40°17'45.25"
LON 79°51'27.79"
(NAD 83)

NAD 27 Coordinates	
Top of hole	LAT 40°17'34.85"
	LON -79°51'36.66"
KOP	LAT 40°17'34.85"
	LON -79°51'36.66"
Landing	LAT 40°17'45.00"
	LON -79°51'28.62"
Bottomhole	LAT 40°19'51.48"
	LON -79°53'09.60"

PROPOSED LEASE
PRODUCTION ALLOCATION
AREA ACREAGE 542.34 AC.
LY 51166 504-AC1 ALLOCATION - 12201 11

APRIL 18, 2017
SCALE 1" = 2000'
0 1000 2000

PRELIMINARY



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT**

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Notes		DEP USE ONLY	
OGO No.	Objection Date - Do not issue before:	API #s37- _____	
Client ID	Date Approved:	and - _____	
Bond No.		Watershed Name:	
C: _____ G: _____	Special Cond.	Designation: <input type="checkbox"/> HQ <input type="checkbox"/> EV	
INV: _____			
APS No.	Auth ID	Site Id	PF Id
			SF Id

Please read instructions before you begin filling in this form.

WELL INFORMATION									
Well Operator EQT Production Company		DEP ID# 146983	Well API No. (if available) 37- - - - -		Well Farm Name Carothers		Well # MCK74H21		
Address 2400 Ansys Drive, Suite 200		LAT 40° 17' 35.28"		NAD 83	Project Number		Serial # 593703		
City Canonsburg		State PA	Zip Code 15317	Municipality Name/ City, Borough, Township Lincoln Borough		County Allegheny			
Phone No. 724-746-9073		Fax No. 724-745-2418		Email jzavatchan@eqt.com		USGS 7.5 min. quadrangle map McKeesport		Section 4	
24/7 Emergency Phone Contact No.: 1-800-926-1759		ESGP Permit No. ESX16-003-0003		Well Pad (cluster) Name/Identification Carothers					
911 address of well site (if available) TBD									

Surface Elev. 1220'	Deepest Formation to be Penetrated Genesee	Anticipated TVD XXXX	PERMIT TYPE Check applicable. Application is to <input checked="" type="checkbox"/> Drill a new well <input type="checkbox"/> Modify existing well/permit <input type="checkbox"/> Redrill a plugged well	TYPE OF WELL Check applicable. <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Comb. (gas & oil/condensate) Configuration <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Deviated <input type="checkbox"/> Multiple laterals	APPLICATION FEE Check applicable. <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Non-vertical
Target Formation(s) Proposed for Production Genesee		Anticipated Target Top/Bottom TVD XXXX XXXX			Total Application Fee \$ 5,250
Number of wellbore laterals proposed under this application 1					Bond Agreement Id: 9399
Total feet of wellbore to be drilled under this application Ft.					
PNDI Attached: <input checked="" type="checkbox"/> Any threatened or endangered "hit" must include a demonstration of how the impact will be avoided or minimized and mitigated, or justification that section 78a.15(e) applies.					
Application submitted as: <input checked="" type="checkbox"/> Coal well (Attach Coal Module) <input type="checkbox"/> Non coal well (Attach justification)					

COORDINATION WITH REGULATIONS AND OTHER PERMITS		Yes	No
1. Will the well be subject to the Oil and Gas Conservation Law? If "No," go to 2).		<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. If "Yes" to #1, is the well at least 330 feet from outside lease or unit boundary?		<input type="checkbox"/>	<input type="checkbox"/>
b. Does the location fall within an area covered by a spacing order?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. If the well will be multilateral, identify the wellbores on the sketch on page 3 of the plat that will be completed as conservation and non-conservation.			
2. Will the proposed limit of disturbance of the well site be within 100 feet measured horizontally from any watercourse or any high quality of exceptional value body of water or any wetland one acre or greater in size?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, attach the following if applicable: a site-specific E&S control plan, a permit consistent with Chapter 102, applicable portions of the Pollution Prevention Control Plan, applicable portions of the Well Site Emergency Response Plan, applicable portions of the Site Containment Plan, the permit number of a Water Obstruction and Encroachment Permit issued pursuant to Chapter 105, or justification that section 78a.15(e) applies.		<input type="checkbox"/>	<input type="checkbox"/>
Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, within 100 feet of the top of the bank of a perennial stream or within 50 feet of the top of the bank of an intermittent stream.		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, attach a plan that identifies the additional measure, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the Commonwealth		<input type="checkbox"/>	<input type="checkbox"/>

☐ Denotes location of top of well on topo map.

Well is located on topo map 14,645 feet south of latitude 40° 20' 00"

True Latitude: NORTH
40° 17' 35.28"

True Longitude: WEST
79° 51' 36.15"

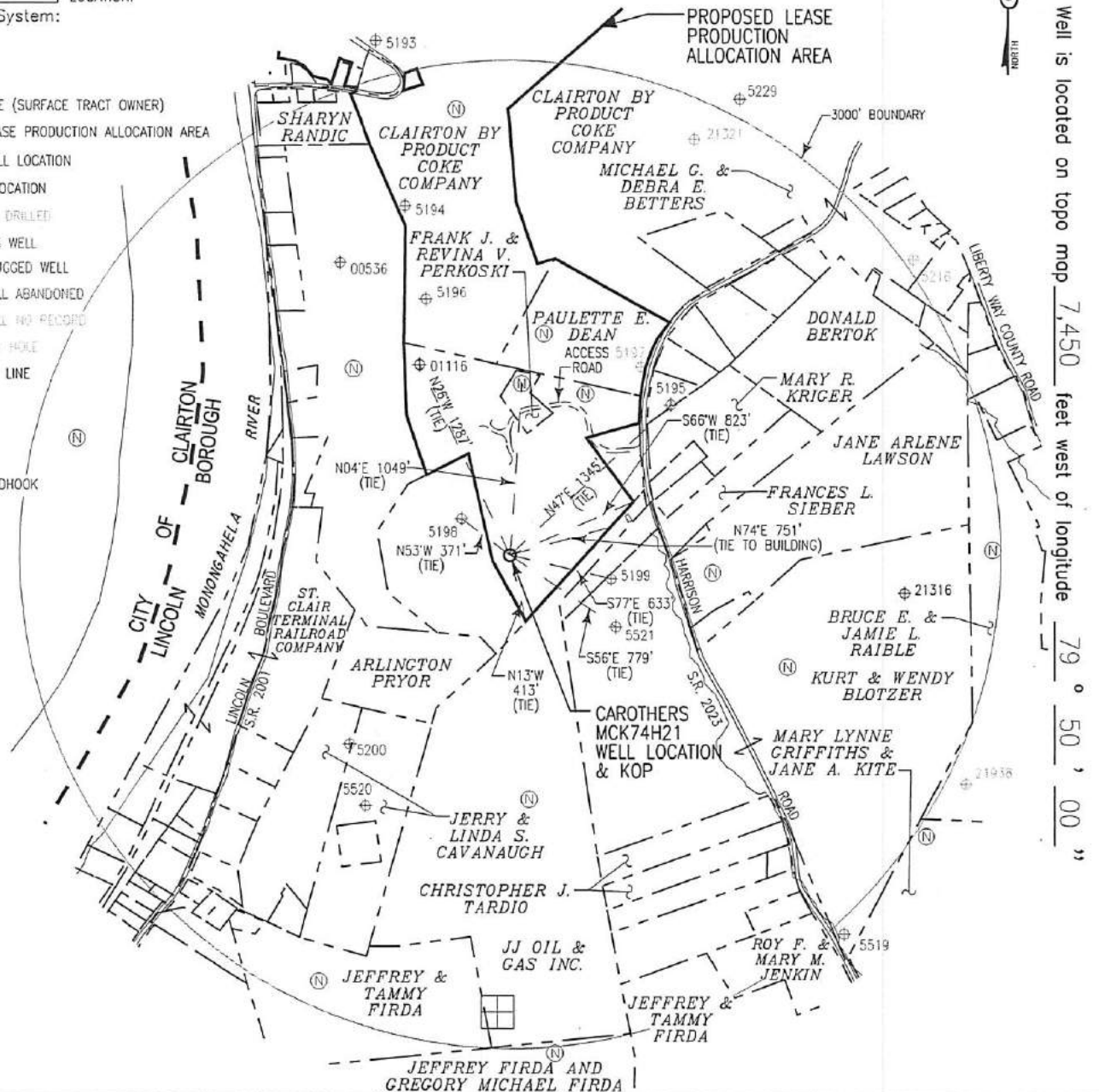
Horizontal Coordinate System:
NAD 83

NOTES:
THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF A PROPOSED GAS WELL AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.
NO STRUCTURES EXIST WITHIN 500 FEET OF PROPOSED WELL LOCATION.

THERE ARE NO COAL MINES WITHIN 1000 FEET OF PROPOSED WELL LOCATION.
THERE ARE NO GAS STORAGE RESERVOIRS WITHIN 3000 FEET OF PROPOSED WELL LOCATION.

LEGEND

- PROPERTY LINE (SURFACE TRACT OWNER)
- PROPOSED LEASE PRODUCTION ALLOCATION AREA
- PROPOSED WELL LOCATION
- ⊕ ACTIVE WELL LOCATION
- ⊕ REPORTED NOT DRILLED
- ⊕ HISTORICAL GAS WELL
- ⊕ HISTORICAL PLUGGED WELL
- ⊕ HISTORICAL WELL ABANDONED
- ⊕ HISTORICAL WELL NO RECORD
- ⊕ HISTORICAL BRY HOLE
- BOROUGH/CITY LINE
- == ROADWAY
- STREAM
- - - TIE LINE
- 1 PROPERTY LANDHOOK
- (N) NOT HOME



Well is located on topo map 7,450 feet west of longitude 79° 50' 00"

Applicant / Well Operator Name: EQT Production Company		DEP ID#: 146983	Well (Farm) Name: Carothers		Well #: MCK74H21	Serial #: 593703
Address: 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317			County: Allegheny	Municipality: Lincoln Borough	Well Type: Gas	
911 address of well site: To Be Determined			USGS 7 1/2' Quadrangle Map Name: McKeesport, PA	Map Section: 4	Surface Elevation: 1220± ft.	
Surveyor or Engineer: Thomas C. Smit, PLS	Phone #: (412) 278-2100	Dwg #:	Date: 04/18/2017	Scale: 1"=1000'	Proposed Lease Production Allocation Area Acreage: 477.97	
Lat & Long Metadata Method: GPS	Accuracy: 3± ft.	Datum: NAD 83	Elevation Metadata Method: GPS	Accuracy: 5± ft.	Datum: NAVD 88	Survey Date: 03/01/2017

PRELIMINARY

WELL LOCATION PLAT

Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is 1-866-255-5158.

Applicant / Well Operator Name EQT Production Company	DEP ID# 146983	Well (Farm) Name Carothers	Well # MCK74H21	Serial # 593703
Surface Landowner / Lessor: Marshall Carothers		Angle & Course of Deviation (Drilling): N 27° 22' 05" W – 15,537'	Anticipated True Vertical Depth Feet (TVD):	Anticipated Total Measured Depth Feet (TMD):
Target Formation(s): Genesee		Deepest Formation to be penetrated: Genesee	Number of laterals: 1	Total footage to be drilled all laterals:
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
Clairton By Product Coke Company		40° 18' 01.92" -79° 51' 41.28"		
Marshall Carothers		40° 17' 45.12" -79° 51' 30.54"		
Kenneth Daugherty, Keith Daugherty, Joshua Oskin & Jonathan Oskin		40° 17' 46.26" -79° 51' 48.89"		
Frank J. & Revina V. Perkosi		40° 17' 45.63" -79° 51' 35.56"		
Paulette E. Dean		40° 17' 48.66" -79° 51' 33.91"		
Jane Arlene Lawson		40° 17' 34.54" -79° 51' 20.17"		
Kurt & Wendy Blotzer		40° 17' 28.97" -79° 51' 14.09"		
Bruce E. & Jamie L. Raible		40° 17' 36.32" -79° 50' 58.07"		
Mary Lynne Griffiths & Jane A. Kite		40° 17' 18.98" -79° 51' 02.77"		
JJ Oil & Gas INC.		40° 17' 20.60" -79° 51' 34.20"		
Jeffrey Firda and Gregory Michael Firda		40° 17' 05.44" -79° 51' 31.73"		
Jeffrey & Tammy Firda		40° 17' 09.44" -79° 51' 50.49"		
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		
Lincoln Borough, Allegheny County				
City of Clairton, Allegheny County				
Liberty Borough, Allegheny County		Coal related parties		
Jefferson Hill Borough, Allegheny County		Marshall Carothers- Owner- All Coal		
Elizabeth Township, Allegheny County				
Versailles Borough, Allegheny County				
Glassport Borough, Allegheny County				

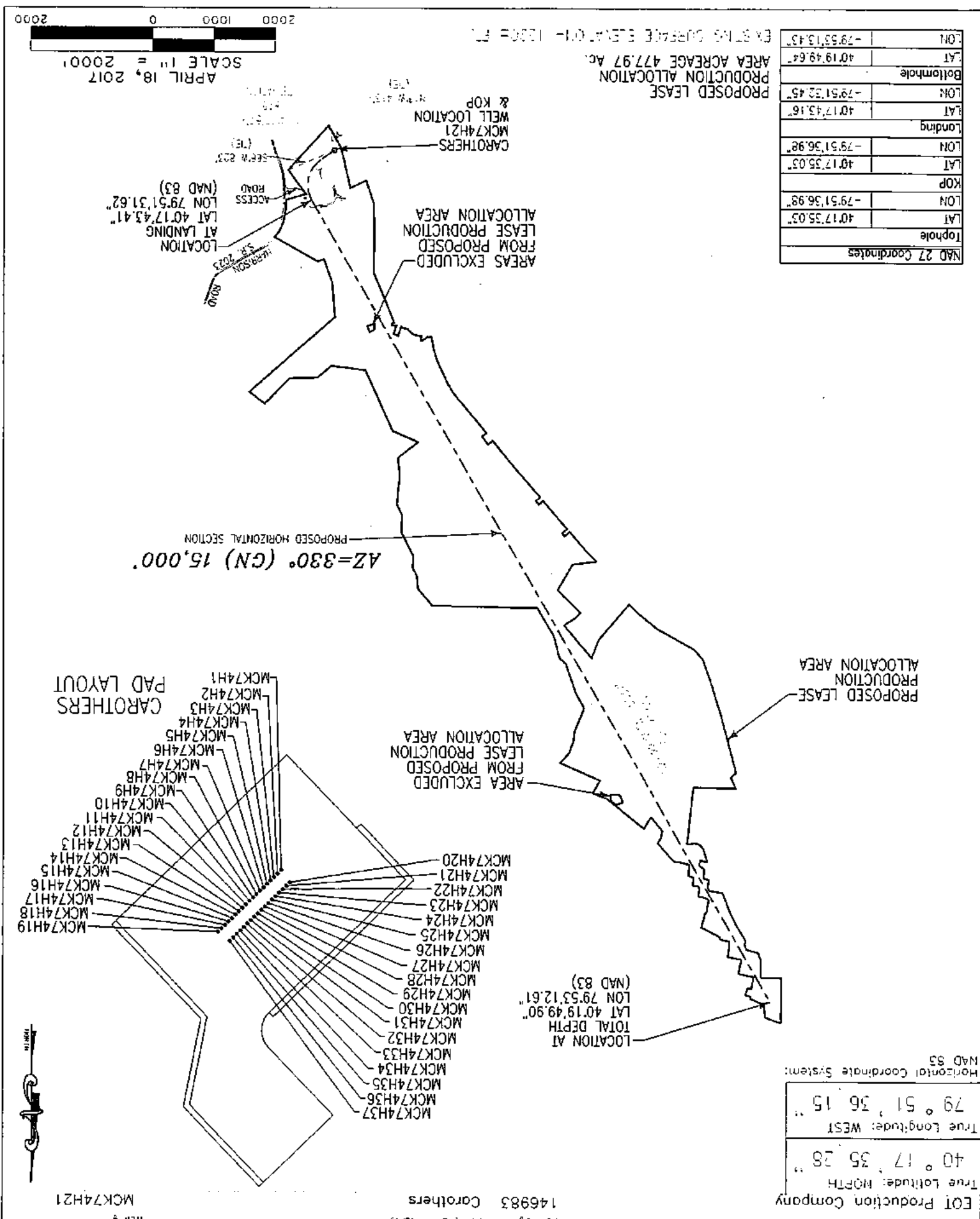
WELL LOCATION PLAN

PAGE 3 Plan View of Deviated Well Bore
 DEP ID# 146983 Carothers
 Well ID# 146983 Carothers

EOT Production Company
 True Longitude: WEST
 79° 51' 36" 15"

EOT Production Company
 True Latitude: NORTH
 40° 17' 35" 28"

Horizontal Coordinate System:
 NAD 83



NAD 27 Coordinates	
Tophole	LAT 40°17'35.03"
	LON -79°51'36.98"
KOP	LAT 40°17'35.03"
	LON -79°51'36.98"
Landing	LAT 40°17'43.16"
	LON -79°51'36.98"
Bottomhole	LAT 40°19'49.64"
	LON -79°53'13.43"

PRELIMINARY



NOTIFICATION OF SURFACE LANDOWNER/WATER PURVEYOR OF WELL DRILLING OPERATION OR ALTERATION WATER SUPPLY PROTECTION

Section 3218 of 58 Pa.C.S. §§ 3201-3274 (relating to Development) ("2012 Oil and Gas Act") provides certain protections to public or private water supplies. This notice is to provide you with a summary of your rights under Section 3218.

1. The Act states that an oil or gas well operator who pollutes or diminishes a public or private water supply shall restore or replace the water supply with an alternate source of water adequate in quantity or quality for the purposes served by the supply.

DEP has a statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources. Call 1-866-255-5158.

2. Any landowner or water purveyor whose water supply is polluted or diminished as a result of the drilling, alteration or operation of an oil or gas well may submit notice and request that the Department of Environmental Protection conduct an investigation. Within 45 days of the request, the Department will make a determination. If the Department finds that pollution or diminution was caused by the drilling, alteration or operation activities or if it presumes the well operator responsible for pollution, then it will issue such orders as are necessary to assure restoration or replacement of the water supply.

The following information is to be provided when filing notice and requesting an investigation:

- a) The name, address, and telephone number of the surface landowner or water purveyor requesting the investigation;
 - b) The type, location and use of the water supply;
 - c) Any available background quality and quantity data regarding the water supply;
 - d) Well depth, pump setting and water level, if known; and
 - e) Description of the pollution or diminution.
3. The Act establishes a legal presumption that a well operator is responsible for the pollution of a water supply if:
 - a – Conventional well
 - i. the water supply is within 1,000 feet of an oil or gas well; and
 - ii. the pollution occurred within six months after completion of drilling or alteration of the oil or gas well;
 - b. – Unconventional well:
 - i. the water supply is within 2,500 feet of the unconventional vertical well bore; and
 - ii. the pollution occurred within 12 months of the later of completion, drilling, stimulation or alteration of the unconventional well.

If the affected water supply is within the rebuttable presumption area and the rebuttable presumption applies, the operator shall provide a temporary water supply if the water user is without a readily available alternative source of water. The temporary water supply provided under this subsection shall be adequate in quantity and quality for the purposes served by the supply.

4. The well operator may rebut or disprove this presumption by proving one of the following five defenses:
 - a – Conventional well
 - i. The pollution existed prior to the drilling or alteration activity as determined by a pre-drilling or pre-alteration survey.
 - ii. The landowner or water purveyor refused to allow the operator access to conduct a pre-drilling or pre-alteration survey.
 - iii. The water supply is not within 1,000 feet of the well.
 - iv. The pollution occurred more than 6 months after completion of drilling or alteration activities.
 - v. The pollution occurred as a result of some cause other than the drilling or alteration activity.
 - b. – Unconventional well:
 - i. the pollution existed prior to the drilling, stimulation or alteration activity as determined by a predrilling or prealteration survey;
 - ii. the landowner or water purveyor refused to allow the operator access to conduct a predrilling or prealteration survey;
 - iii. the water supply is not within 2,500 feet of the unconventional vertical well bore;
 - iv. the pollution occurred more than 12 months after completion of drilling or alteration activities; or
 - v. the pollution occurred as the result of a cause other than the drilling or alteration activity.

NOTICE: To landowner or water purveyor.

The presumption may be void if the landowner or water purveyor refused to allow the operator of an unconventional well access by the operator (or their agent) to conduct a predrilling or prealteration survey.

Well operators electing to preserve their defenses under 4 a or b,(i) or (ii) above must retain the services of an independent certified laboratory to conduct the pre-drilling or pre-alteration survey of water supplies. The results of the survey must be provided within 10 business days of receipt of the results by providing a copy to the Department and the landowner or water purveyor. Test results not received by the Department within 10 business days may not be used to preserve the operators defense under 3218(d). If the applicant for a well permit does not conduct a pre-drilling or pre-alteration survey, you may wish to have such a survey done in order to support any future claims you may have that your water supply has been diminished or polluted.

OBJECTION TO WELL PERMIT APPLICATION

When a well is located on a tract whose surface is owned by a person other than the well operator, the surface landowner has the right to file objections with the Department pursuant to Section 3212 on the following basis:

- a) The information on the application is untrue in any material respect,
- b) The well is within 200 feet or, in the case of an unconventional gas well, 500 feet measured horizontally from the vertical well bore from any existing building or existing water well existing when the copy of the plat is mailed and the owner thereof has not given his written consent and the operator has not been granted a variance. Unconventional gas wells may not be drilled within 1,000 feet measured horizontally from the vertical well bore to any existing water well, surface water intake, reservoir or other water supply extraction point used by a water purveyor without the written consent of the water purveyor and the owner thereof has not given his written consent and the operator has not been granted a variance.
- c) The well site is within 100 feet or, in the case of an unconventional well, 300 feet from the vertical well bore or 100 feet from the edge of the well site, whichever is greater, measured horizontally from any solid blue lined stream, spring or body of water as identified on the most current 7½ minute topographic quadrangle map and the operator does not have a waiver. The edge of the disturbed area associated with any unconventional well site must maintain a 100-foot setback. No unconventional well may be drilled within 300 feet of any wetlands greater than one acre in size, and the edge of the disturbed area of any well site must maintain a 100-foot setback from the boundary of the wetlands, and the operator does not have a waiver, or
- d) No well site may be prepared or well drilled within any floodplain if the well site will have:
 - (i) a pit or impoundment containing drilling cuttings, flowback water, produced water or hazardous materials, chemicals or wastes within the floodplain; or
 - (ii) a tank containing hazardous materials, chemicals, condensate, wastes, flowback or produced water within the floodway. and the operator does not have a waiver. or
- e) The well location violates Section 3215 of the Act.

Any objections and request for a conference must be filed within 15 days of receipt of the plat by the surface landowner and contain the following information:

- a) The name, address and telephone number of the person submitting the objection;
- b) The name of the well operator, and the farm name and number of the proposed well; and
- c) A statement of the basis for the objection and a request for a conference if a conference is being requested.

*DEP Regional Offices
to contact:*

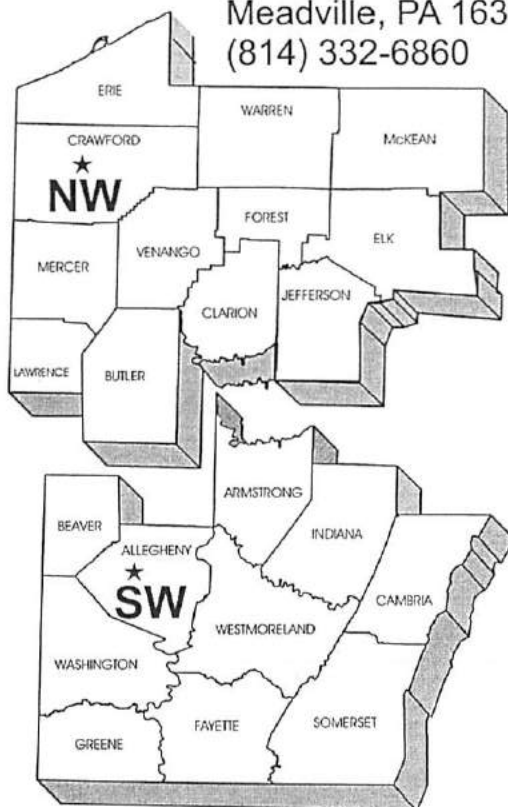
*Dept. of Environmental Protection
NW Regional Office – Oil & Gas Mgmt
230 Chestnut Street
Meadville, PA 16335-3481
Phone: 814-332-6860 Fax: 814-332-6121*

*Dept. of Environmental Protection
SW Regional Office – Oil & Gas Mgmt
400 Waterfront Drive
Pittsburgh, PA 15222-4745
Phone: 412-442-4024 Fax: 412-442-4328*

Oil and Gas Regions

★ Northwest Region

230 Chestnut Street
Meadville, PA 16335-3481
(814) 332-6860



★ Eastern Region

208 West Third Street
Williamsport, PA 17701-6448
(570) 321-6550



★ Southwest Region

400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412) 442-4024

● Central Office

Bureau of Oil and Gas Management
PO Box 8765
Harrisburg, PA 17105-8765
(717) 772-2199