



Where energy meets innovation.™

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

Certified Mail Number: 7015 1730 0000 8062 9520

May 16, 2018

RECEIVED
MAY 22 2018

Elizabeth Township
522 Rock Run Road
Elizabeth, PA 15037

BY:

**RE: Permit Application to Drill
Proposed Prentice MON21H34 Modification
Forward Township, Allegheny County, PA**

To Whom It May Concern:

Enclosed is a copy of EQT Production Company's Permit Application to Drill and Operate an Unconventional Well, and Well Location Plat(s) (Form 8000-PM-OOGM0002) for the proposed Prentice MON21H34 Modification well(s) that will be submitted to the Pennsylvania Department of Environmental Protection (PADEP). PADEP mandates that each gas well permitted on a pad must have notification letter sent to the appropriate landowner, water purveyor, surface owner with water, municipality, coal owner or coal lessee and gas storage operator.

This is simply a letter of notification. No action on your part is required. The receipt of this certified letter serves as proof of notification delivery.

Should you have any questions or comments, please contact the Community & Landowner Hotline at 1-855-258-8326.

Sincerely,

EQT Production Company

Enclosures



PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Please read instructions before you begin filling in this form.

WELL INFORMATION										
Well Operator EQT Production Company			DEP ID# 146983		Well API No. 37-003-22444-00-00			Well Farm Name Prentice		Well # MON21H34
Address 2400 Ansys Drive, Suite 200				LAT 40.219844		NAD 83	Project Number		Serial # 594351	
City Canonsburg		State PA	Zip Code 15317	Municipality Name/ City, Borough, Township Forward / Township			County Allegheny			
Phone No. 724-271-7380		Fax No.		Email espine@eqt.com			USGS 7.5 min. quadrangle map Monongahela		Section 2	
24/7 Emergency Phone Contact No.: EQT Emergency Contact: 1-800-926-1759			ESGP Permit No. ESX12-003-0007			Well Pad (cluster) Name/identification Prentice				
911 address of well site (if available) 1322 Lytle Road, Monongahela, PA 15063										
Surface Elev. 1123	Deepest Formation to be Penetrated Marcellus			Anticipated TVD 7654			PERMIT TYPE Check applicable. Application is to <input checked="" type="checkbox"/> Modify existing well/permit		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 Total Application Fee \$ 5,250
Target Formation(s) Proposed for Production Marcellus			Anticipated Target Top/Bottom TVD 7580 / 7727							
Number of wellbore laterals proposed under this application 1.										
Total feet of wellbore to be drilled under this application 22832 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)										
CONFIGURATION							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 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"/>		

COORDINATION WITH REGULATIONS AND OTHER PERMITS (cont'd)		Yes	No
3. Will the vertical wellbore section penetrate or be within 3,000 feet of an active gas storage reservoir boundary?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. If Yes, print the names of:	Storage Field: <u>Bunola</u> Operator: <u>Equitrans, LP</u>		
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. ESX12-003-0007 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: ERIN SPINE Title: Regional Land Supervisor	Date
Application Preparer/Contact: BSHRUM@EQT.COM		Phone: 724-271-7314	

PERMIT APPLICATION TO DRILL AND OPERATE A WELL COAL MODULE

Coal module attachment to address coal related issues with drilling, altering, or operating wells.		
	Yes	No
1. Will the well penetrate a workable coal seam ? If "No," attach justification and supporting documentation a. Have the coal rights been severed from the surface estate	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. If the well will penetrate a workable coal seam and the well is a "non-conservation" gas well, does the location comply with the distance requirements of section 7 of the Coal and Gas Resource Coordination Act? (At least 1,000 feet from all existing wells). 58 P.S. §§ 501 - 518. a. If "No," is the required exception request attached? (Check N/A if re-working an existing well.) <input type="checkbox"/> N/A b. Will the well be part of a Well Cluster that is an area within a well pad intended to host multiple horizontal wells and which comprises an area no greater than 5,000 square feet?	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3. Will this well be drilled in solid coal or into an open underground void?	solid coal <input checked="" type="checkbox"/>	open void <input checked="" type="checkbox"/>
	Yes	No
4. Will the well be drilled through an operating coal mine , or within 1,000 feet of the boundary? a. If "Yes," provide the names of: Mine _____ and Operator _____ b. If yes, does it meet the Gas Well Pillar Study? 58 P.S. § 512.1. c. If yes, provide a copy of the most recent underground mine workings map that shows well location, a map scale, the lease/unit boundary, and a north arrow.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. If the well will be a Coal Bed Methane (CMB) well is the alternate method request of drilling/completing the well attached <i>Proposed Alternate Method or Material for Casing, Plugging, Venting or Equipping a Well</i> form 8000-PM-OOGM0024?	<input type="checkbox"/>	<input type="checkbox"/>
6. If the well is a CBM well, has the surface landowner been notified and provided a copy of <i>Landowner Notification of Right to Participate in Alternate Dispute Resolution to Coal Bed Methane Wells</i> , form 8000-FM-OOGM0052?	<input type="checkbox"/>	<input type="checkbox"/>

COAL MODULE RECORD OF NOTIFICATION / WRITTEN CONSENT

List the following: all coal owners and lessees of all underlying coal seams; operators of operating coal mines at the proposed location; and coal operators with Operating Coal Mine. Mark the boxes "X" that show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties.		Coal Owner	Coal Lessee	Operator of Operating Coal Mine	Within 1,000 ft.	Notification Note the Means and Attach Proof			
						Certified Mail Dates		Address Affidavit	Written Consent
						Sent	Return Receipt		
Name Coronado IV LLC Attn: Jason Bragg	Address 100 Billy Baker Way Beckley, WV 25801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5/16/2018		<input type="checkbox"/>	<input type="checkbox"/>
Name	Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Name	Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Name	Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Name	Address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Optional: Signature below indicates the party's approval of the well location and waives the 15-day objection period. Check applicable box.									
Coal <input type="checkbox"/> Operator, <input type="checkbox"/> Owner, or <input type="checkbox"/> Lessee								Date	
Coal <input type="checkbox"/> Operator, <input type="checkbox"/> Owner, or <input type="checkbox"/> Lessee								Date	
Coal <input type="checkbox"/> Operator, <input type="checkbox"/> Owner, or <input type="checkbox"/> Lessee								Date	
Coal Operator within 1,000 feet of proposed location								Date	



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 #:	
	Permit #:	
	Project #:	

Denotes location of top of well on topo map. Well is located on topo map 10,985 feet south of latitude 40° 15' 00"

True Latitude: NORTH
40° 13' 11.44"

True Longitude: WEST
79° 55' 31.77"

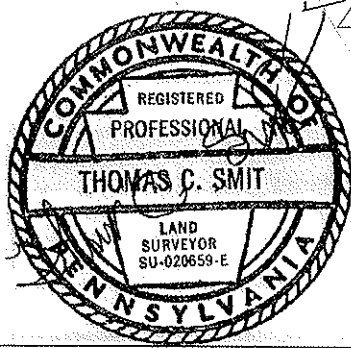
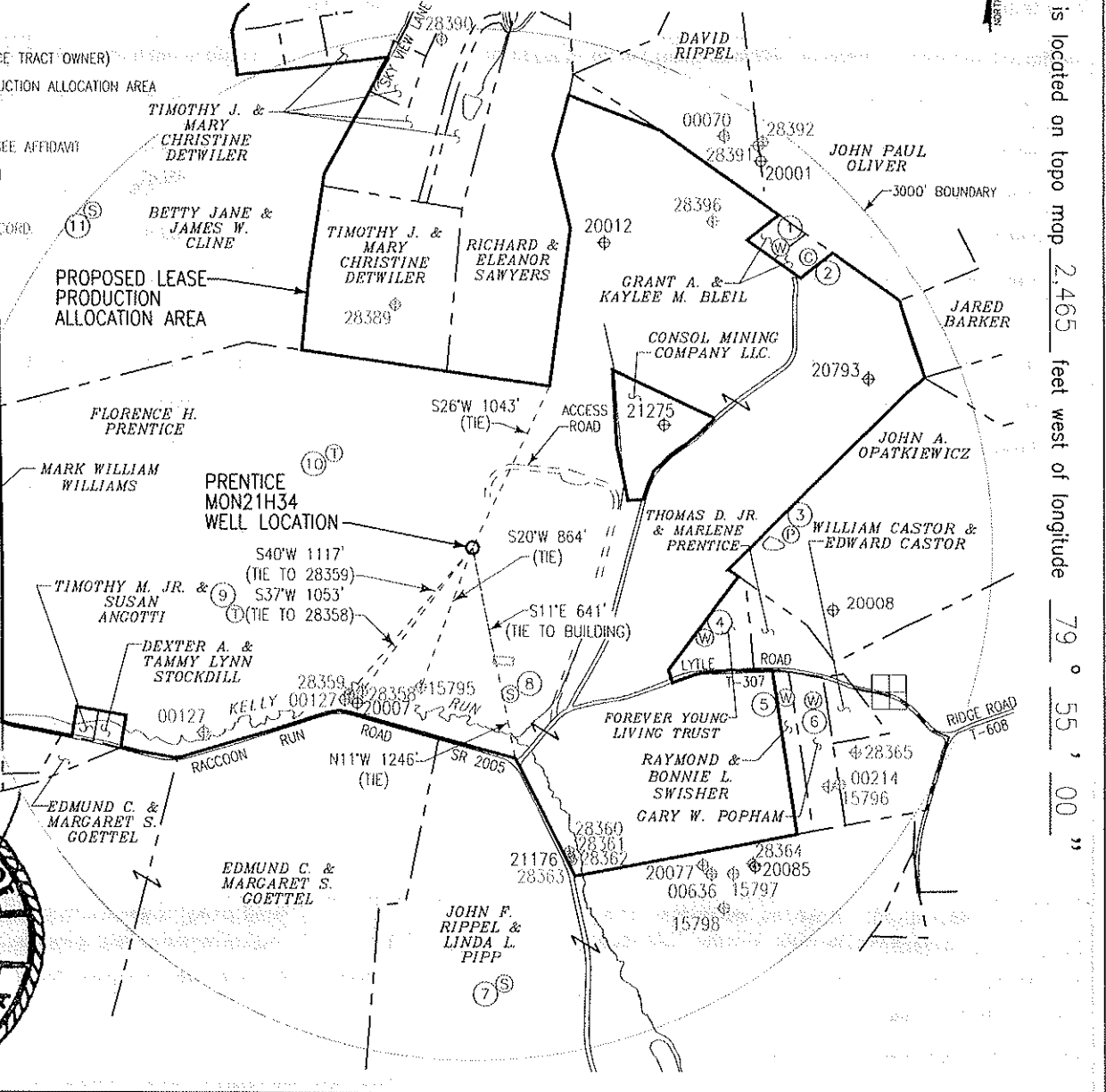
NOTE:
THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF A PROPOSED GAS WELL AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.

NO STRUCTURES EXIST WITHIN 500 FEET OF PROPOSED WELL LOCATION.
THERE ARE NO COAL MINES WITHIN 1000 FEET OF PROPOSED WELL LOCATION.
THE 3000' BOUNDARY LIES WITHIN THE EQUATRANS, L.P. BUNOLA STORAGE BOUNDARY.

Horizontal Coordinate System:
NAD 83

LEGEND

- PROPERTY LINE (SURFACE TRACT OWNER)
- PROPOSED LEASE PRODUCTION ALLOCATION AREA
- ⊕ ACTIVE WELL LOCATION
- ⊕ WELL NOT LOCATED - SEE AFFIDAVIT
- ⊕ PLUGGED WELL LOCATION
- ⊕ HISTORICAL GAS WELL
- ⊕ HISTORICAL WELL NO RECORD
- ROADWAY
- STREAM
- TIE LINE
- ↑ PROPERTY LANDHOOK
- ⊙ SPRING
- ⊙ POND
- ⊙ WATER WELL
- ⊙ TROUGH
- ⊙ CISTERN
- ⊙ BUILDING



Well is located on topo map 2,465 feet west of longitude 79° 55' 00"

Applicant / Well Operator Name: EQT Production Company		DEP ID#: 146983	Well (Farm) Name: Prentice	Well #: MON21H34	Serial #: 594351
Address: 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317		County: Allegheny	Municipality: Forward Township	Well Type: Gas	
911 address of well site: 1322 Lyle Road, Monongahela, PA 15063		USGS 7 1/2' Quadrangle Map Name: Monongahela, PA	Map Section: 2	Surface Elevation: 1123± ft.	
Surveyor or Engineer: Thomas C. Smit, PLS	Phone #: (412) 278-2100	Dwg #:	Date: 05/14/2018	Scale: 1"=100'	Proposed Lease Production Allocation Area Acreage: 1065.23
Lat & Long Metadata Method: GPS	Accuracy: 3± ft.	Datum: NAD 83	Elevation Metadata Method: GPS	Accuracy: 5± ft.	Datum: NAVD 88
			Survey Date: 05/17/2012		

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 Prentice	Well # MON21H34	Serial # 594351
Surface Landowner / Lessor: Florence H. Prentice		Angle & Course of Deviation (Drilling): N 32° 20' 58" W – 14,726'	Anticipated True Vertical Depth Feet (TVD): 7,654'	Anticipated Total Measured Depth Feet (TMD): 22,832'
Target Formation(s): Marcellus		Deepest Formation to be penetrated: Marcellus	Number of laterals: 1	Total footage to be drilled all laterals: 22,832'
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
1.	Grant A. & Kaylee M. Bleil	40° 13' 29.18"	-79° 55' 09.16"	
2.	Grant A. & Kaylee M. Bleil	40° 13' 28.66"	-79° 55' 07.06"	
3.	John A. Opatkiewicz	40° 13' 12.69"	-79° 55' 07.92"	
4.	Forever Young Living Trust	40° 13' 06.64"	-79° 55' 14.19"	
5.	Raymond & Bonnie L. Swisher	40° 13' 03.33"	-79° 55' 08.04"	
6.	Gary W. Popham	40° 13' 03.19"	-79° 55' 06.00"	
7.	John F. Rippel & Linda L. Pipp	40° 12' 46.46"	-79° 55' 28.66"	
8.	Florence H. Prentice	40° 13' 03.10"	-79° 55' 28.71"	
9.	Florence H. Prentice	40° 13' 07.25"	-79° 55' 49.43"	
10.	Florence H. Prentice	40° 13' 16.65"	-79° 55' 42.34"	
11.	Betty Jane & James W. Cline	40° 13' 30.22"	-79° 56' 00.92"	
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		
Forward Township, Allegheny County		Rostraver Township, Westmoreland County		
West Elizabeth Borough, Allegheny County				
Elizabeth Borough, Allegheny County				
Jefferson Hills Borough, Allegheny County		Coal related parties		
Elizabeth Township, Allegheny County		Coronado IV LLC – Owner – All coal seams		
City of Monongahela, Washington County				
New Eagle Borough, Washington County				
Union Township, Washington County				
Carroll Township, Washington County				

WELL LOCATION PLAT

PAGE 3 Plan View of Deviated Well Bore

WELL NO. 146983

Prentice

DATE

MON21H34

EGI Production Company

True Latitude: NORTH

40° 13' 11.44"

True Longitude: WEST

79° 55' 31.77"

Horizontal Coordinate System:
NAD 83

LOCATION AT
TOTAL DEPTH
LAT 40°15'12.42"
LON 79°57'17.32"
(NAD 83)

AREAS EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

AREA EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

PROPOSED LEASE
PRODUCTION
ALLOCATION AREA

AZ=330° (GN)
14,620'

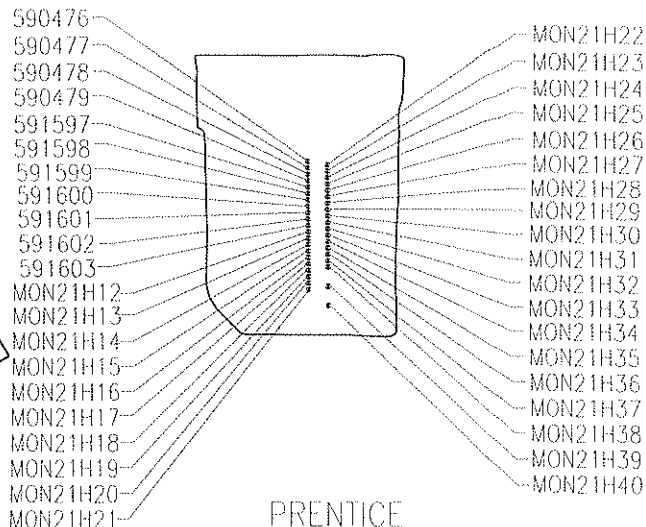
PROPOSED HORIZONTAL SECTION

AREA EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

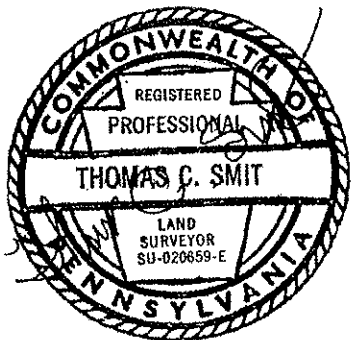
AREA EXCLUDED
FROM PROPOSED
LEASE PRODUCTION
ALLOCATION AREA

PRENTICE
MON21H34
WELL LOCATION
& KOP

LOCATION
AT LANDING
LAT 40°13'09.67"
LON 79°55'39.25"
(NAD 83)



NAD 27 Coordinates	
Tophole	
Lat	40°13'11.19"
Lon	79°55'32.59"
KOP	
Lat	40°13'11.19"
Lon	79°55'32.59"
Landing	
Lat	40°13'09.42"
Lon	79°55'40.06"
Bottomhole	
Lat	40°15'12.17"
Lon	79°57'18.14"



PROPOSED LEASE
PRODUCTION ALLOCATION
AREA ACREAGE 1065.23 Ac.

SCALE 1" = 2000'



WELL LOCATION PLAT

PAGE 4 Well Plan

Applicant / Well Operator Name: EQT Production Company	DEP ID#: 146983	Well (Form) Name: Prentice	Well #: MON21H34
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			Latitude	Longitude
KOP:	TVD: <u>6,187'</u>	TMD: <u>6,187'</u>	<u>40° 13' 11.44"</u>	<u>79° 55' 31.77"</u>
Landing Point:	TVD: <u>7,654'</u>	TMD: <u>8,212'</u>	<u>40° 13' 09.67"</u>	<u>79° 55' 39.25"</u>

G
M

Azimuths to Grid North
Magnetic North : -9.30

Magnetic Field
Strength : 52,349.7
Dip Angle : 67.21
Date : 02/21/2017
Model : IGRF12

NAD 83

Created By : PHOENIX
Date : February 08, 2017
Plan : MON21H34 594351 Plan 1

