

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

#### PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

Please read instructions before you begin filling in this form. WELL INFORMATION Well Operator Well API No. DEP ID# Well Farm Name Well# Rice Drilling B LLC 268470 37-059-27481-00-00 Thunder 1 10 Address Project Number Serial # 39.826681 LAT NAD 2400 Ansys Drive, Suite 200 596194 LONG -80.279325 83 Zip Code Municipality Name/ City, Borough, Township City State County Canonsburg PA 15317 Center / Township Greene Phone No. Fax No. Email USGS 7.5 min. quadrangle map Section 724-271-7380 724-749-5581 espine@eqt.com Holbrook 24/7 Emergency Phone Contact No.: ESGP Permit No. Well Pad (cluster) Name/Identification EQT Emergency Contact: 1-800-926-1759 ESX10-059-0080 Hoover Access Road 911 address of well site (if available) 466 Turkey Hollow Road, Waynesburg, PA 15370 Surface Elev. Deepest Formation to be Penetrated Anticipated TVD PERMIT TYPE TYPE OF WELL APPLICATION FEE 1410 Marcellus 8026 Check applicable. Check applicable. Check applicable. Application is to ☑ Gas ☐ Vertical Target Formation(s) Proposed for Production Anticipated Target Top/Bottom TVD Comb. (gas & Non-vertical Modify existing 7977 / 8074 Marcellus oil/condensate) well/permit Total Application Fee Number of wellbore laterals proposed under this application 1. \$5,250 Total feet of wellbore to be drilled under this application 13566 Ft. Configuration PNDI Attached: Any threatened or endangered "hit" must include a demonstration of how the impact will be ☐ Vertical avoided or minimized and mitigated, or justification that section 78a.15(e) applies. M Horizontal **Bond Agreement** Deviated Application submitted as: Coal well (Attach Coal Module) ☐ Multiple RLB0014476 Non coal well (Attach justification) laterals 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). X a. If "Yes" to #1, is the well at least 330 feet from outside lease or unit boundary? b. Does the location fall within an area covered by a spacing order? X 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 form any watercourse П  $\boxtimes$ or any high quality of exceptional value body of water or any wetland one acre or greater in size? 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. Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, within  $\boxtimes$ 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.

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

СО	ORDINATION 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?		$\boxtimes$		
	a. If Yes, print the names of: Storage Field: Operator:				
4.	Is the proposed well location within the permitted area of a landfill?				
5.	Will the vertical wellbore section of the unconventional well be drilled within 500 feet from any existing building or an existing water supply?	$\boxtimes$			
	a. If "Yes," is written consent from the owner attached?				
	b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?				
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?				
	a. If "Yes," is written consent from the owner attached?				
	b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?				
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?				
	a. If "Yes," was there a permitted well at this well site prior to April 16, 2012?				
	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				
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.		$\boxtimes$		
8.	Will any portion of the well site be in a Special Protection High Quality ☑ (HQ) or Exceptional Value ☐ (EV) watershed?				
	Provide name of special protection watershed Hargus Creek	=			
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. ESX10-059-0080 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.	$\boxtimes$			
10.	Is the well to be located within a H <sub>2</sub> S area pursuant to §78a.77a?				
11.	Attach a current Ownership & Control form 8000-FM-OOGM0118 with the first application submitted after th "Environmental Protection Performance Standards at Oil and Gas Well Sites" rulemaking, or if there have been subsidiary business corporations.				
Sig	The person signing this form attests that they have the authority to submit this application on behavinformation, including all related submissions, is true and accurate to the best of their knowledge.	of the applican	nt, and that the		
	Signature of Person Authorized to Submit Application  (Print or Type)  Name of Signer: ERIN SPINE  Title: Regional Land Supervisor		Date 5/2018		
Appl	Phone:  Phone:	hone: 724-271-7314			



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

# PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

US Well No. (API No.)	
37-059-27481-00-00	

Signature of Applicant  I hereby certify that, for all interested parties identified on the plat of this application for which written consent or an "Affidavit of Non-Delivery of Certified Mail" has not been uploaded, copies of the well plat have been sent via certified mail and I have received a return receipt verifying delivery.															
Signature of Person Author					(Print or Type)								Date		
2.	Erin Spine	Title:	Reg	giona		6/6/2018									
List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the								or						tification ns and attach proof.	
well will be drilled; adjacent munic	well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3,000 feet. Mark the boxes, "X," which show the parties' interests. Use additional forms if you need more space. You are required to notify each of							Operat	owners eyors plies		Certified	Mail Dates			
these parties.  Notification: Signature be	low name	indicates th	e partv's	acknowle	edgement of receipt of the well	location	Lando	rage (	Lando Purve ter sup	alities				-	
Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification						Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies <a href="#"><a href="#">&lt;<a href="#"><a href="&lt;/td"><td>Municipalities</td><td>Sent</td><td>Return Rece</td><td></td><td>Address Affidavit</td><td>Written Consent</td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Municipalities	Sent	Return Rece		Address Affidavit	Written Consent	
Print Name: MARK & LISA MA	AIN		Address:	Address:	297 IRON ROCK RD WAYNESBURG, PA 15370		Х		Х		5/18/2018	5/22/201	8		
Signature							Λ		X		0/10/2010	G/ZZ/ZG1			
Print Name: ROBERT W REE	D ET UX		Address:		113 IRON ROCK ROAD WAYNESBURG, PA 15370				Х		5/18/2018	5/21/201	8		2 0
Signature					WATNESDOTIA, 177 10070				٨		3/10/2010	3/21/201			
Print Name: CARL S RABER ET UX Address		Address:	Address:	366 IRON ROCK RD WAYNESBURG, PA 15370				Х		5/18/2018			Χ		
Signature				WATNEODOTIC, 1 A 10070						3/10/2010			^		
Print Name: ROBERT C HOO	VER ET U	Х	Address:		161 IRON ROCK ROAD WAYNESBURG, PA 15370				Х		5/18/2018	5/21/201	8		
Signature					WATNEODOTIC, 1 A 10070				^		3/10/2010	3/21/201			
Print Name: CATHY S EDDY	REVOCAE	BLE	Address:		285 IRON ROCK RD WAYNESBURG, PA 15370				Х		5/18/2018			Χ	
TRUST Signature					WATNESDOTIG, 1 A 13070				^		3/10/2010				
					Record of Writte			Townson London							
Written Consent: Signatur	re below i	ndicates the	e party's a	approval o	of the well location, or indicate	es written	conse	nt and	d waives th	e 15-	day objection	period who	ere appl	icable.	
						Surface	Owne	er		neck applicable ber Well within 5		Buildi	ng within	500 feet	
Print and Sign Name:	Address:			Date											
Print and Sign Name:		Address:			Date										
Print and Sign Name:		Address:													
Trint and digit frame.						L									

# PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

Signature of Applicant   I hereby c	ertify that, for all in	terested part , copies of th	ties identified on the plat of e well plat have been sent	this app	licatio	n for v	which writt	ten co	onsent or and d a return rec	"Affidavit o	of Non-ling deli	Delivery overy.	of Certified
Signature of Person Authorized to Subi	Print or Type)	Name of Signer: ERIN SPINE								Date			
		Erin Spine	Title:	Reg	jiona	l Land Sເ		6/6/2018					
List the following: surface landowner; surface land		o.				Note the mea	otification ans and attach proof.						
well will be drilled; adjacent municipality; municipalities within 3,000 feet of the vertical well bore; gas storage operator if within 3,000 feet. Mark the boxes, "X," which show the parties' interests. Use additional forms if you need more space. You are required to notify each of						perat	wners yors plies		Certified Mail Date				
these parties.		_			Surface Landowner	rage C	Lando Purve er sup	alities					
Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification						Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies	Municipalities	Sent	Return Red		Address Affidavit	Written Consent
Print Name: LUKE J KIGER ET UX	Address:		5 IRON ROCK RD AYNESBURG, PA 15370				Х		5/18/2018	5/30/20	10		
Signature		"'	(TNEODOTIC, 177 TOO7				^		3/10/2010	3/30/20	10		
Print Name: WILLIAM JERDAN SIMMS	Address:		8 IRON ROCK RD AYNESBURG, PA 15370	****			X		5/18/2018	5/21/20	10		
Signature		""	ATNEODUNG, FA 10070				۸		5/10/2010	3/21/20	10		
Print Name: JEFFREY N GRIMES ET UX Addre			2 IRON ROCK RD AYNESBURG, PA 15370				v		E14.0/004.0			V	
Signature		**/	ATNEODUNG, FA 10070				Х		5/18/2018			Х	
Print Name: CENTER TOWNSHIP	Address:		0 MUNICIPAL DRIVE 0 BOX 435					Х	5/18/2018	5/21/20	10		
Signature			OGERSVILLE, PA 15359					^	3/10/2010	3/21/20	10		
Print Name: FRANKLIN TOWNSHIP	Address:	Address: 568 ROLLING MEADOWS ROAD WAYNESBURG, PA 15370					Х	5/18/2018	5/21/20	10			
Signature		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ATNEODONG, FA 10070					^	5/10/2010	5/21/20	10		
			Record of Writte	n Co	nse	nt							
Written Consent: Signature below in	dicates the party's	approval of th	ne well location, or indicates	written	conse	nt and	waives th	e 15-	day objection	period wh	ere app	licable.	
			1	1 9	Surface	Owne	r [		neck applicable b er Well within 5		Build	ing within	500 feet
Print and Sign Name:	Print and Sign Name: Address:				Surface Owner						24114		-30.000
Print and Sign Name: Address:			Date										
				<u> </u>		<u></u>							
Print and Sign Name: Address: Date													

# PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL Record of Notification

US Well No. (API No.)	
37-059-27481-00-00	

Signature of Applicant	I wall that not been uploaded, copies of the well plat have been sent via certified that and thave received a return receipt verifying delivery.															
Signature of Person Author	orized to Sub	omit Application	1		(Print or Type) Erin Spine	Name o	of Signe		Date 6/6/2018							
					Lilli Spille	Title:	Regional Land Supervisor									
List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the								or				Note the mea	otification ans and at	fication s and attach proof.		
well will be drilled; adjacent muni- Mark the boxes. "X." which show	cipality; munici the parties' in	palities within 3,00 terests. Use addi	00 feet of tional for	f the vertical we ms if vou need	Il bore; gas storage operator if within a more space. You are required to noti	3,000 feet. ify each of	wner	perat	wners yors olies		Certified	Mail Dates				
these parties.	435						ando	age O	ando Jurve r supp	lities						
Notification: Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification						Surface Landowner	Gas Storage Operator	Surface Landowners & Water Purveyors with water supplies	Municipalities	Sent	Return Re	ceipt	Address Affidavit	Written Consent		
Print Name: JACKSON TOWI	NSHIP	A	ddress:	Address: 1	04 TUNNEL ROAD OLBROOK, PA 15341					Х	5/18/2018	5/21/20	10			
Signature					OLDROOK, 1 A 13541					^	5/10/2010	3/21/20	10			
Print Name: WAYNE TOWNS	SHIP	A	ddress:		32 SPRAGGS ROAD PRAGGS, PA 15362					Х	5/18/2018	5/21/20	10			
Signature					FNAGGS, FA 15502					۸	5/16/2016	5/21/20	10			
Print Name: RICHHILL TOWNSHIP Address:		Address: 109 MUNICIPAL LANE WIND RIDGE, PA 15380					Х	5/18/2018	5/21/20	10						
Signature			VIND NIDGE, FA 19300					^	5/10/2010	3/21/20	10					
		Address: 193 STRINGTOWN ROAD GRAYSVILLE, PA 15337					Х	5/18/2018	5/21/20	10						
Signature					TIATOVILLE, TA 19007					^	3/10/2010	3/21/20	10			
Print Name: MORRIS TOWN	SHIP	A	ddress:	Address: 1317 BROWNS CREEK ROAD SYCAMORE, PA 15364					Х	5/18/2018	5/21/20	10				
Signature				STOAIVIONE, FA 19304						^	3/10/2010	3/21/20	10			
					Record of Writte		-	-								
Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable.																
						Surface	Owne	er		neck applicable ber Well within 5		Build	ing within	500 feet		
Print and Sign Name:	Print and Sign Name: Address:			Date			75		Water Well Within 500 feet							
Print and Sign Name:	Print and Sign Name: Address:			Date												
Print and Sign Name:		Address:			Date											