RICE ENERGY

Certified Mail Number: 7016 0910 0000 4449 4627

June 15, 2016

West Pike Run Township
238 Pike Run Road
Daisytown, PA 15427

RE: Permit Application to Drill
Proposed Prairie Fire 2, 4, 6, 8, 10, 12 & 14
Somerset Township, Washington County, PA

To Whom It May Concern:

Enclosed is a copy of Rice Drilling B LLC's Permit Application to Drill and Operate an Unconventional Well (Form 8000-PM-OOGM0001b), Coal Module attachment(s) (Form 8000-PM-OOGM0001c), and Well Location Plat(s) (Form 8000-PM-OOGM0002) for the proposed Prairie Fire 2, 4, 6, 8, 10, 12 & 14 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, and coal owner or coal lessee.

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 Rice Energy Community & Landowner Hotline at 1-855-BLU-TEAM (1-855-258-8326) or submit inquiries online at www.riceenergy.com/contact.

Sincerely,

Erin Spine
Well Permitting Manager

Enclosures

Action is required on the part of the host municipality: all Act 14 Notification letters allow for 30 days for the host municipality to comment on land use and ordinance related issues.
Information on how to contact the PA DEP should be included.

8000-PM-OOGM0001b Rev. 6/2014

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

PERMIT APPLICATION TO DRILL AND OPERATE AN UNCONVENTIONAL WELL

DEP USE ONLY				
Notes	OGO #	Objection Date - Do not issue before:	API #'s37-__-_____-__-__;	
	Client Id	Date Approved:	and -__-__; -__-__; -__-__; -__-__; -__-__	
	Bond #		Watershed Name: Designation: ☐ HQ ☐ EV	
	C: G: INV:	Special Cond.		
	APS # Auth Id	Site Id	PF Id	SF Id

Please read instructions before you begin filling in this form.

WELL INFORMATION

Well Operator: Rice Drilling B LLC	DEP ID#: 268470	Well API # (if available): 37- - - -	Well Farm Name: Prairie Fire		Well #: 2
Address: 2200 Rice Drive		LAT 40°09' 21.25" LONG - 80°05' 32.82" NAD 83	Project Number		Serial #
City: Canonsburg	State: PA	Zip: 15317	Municipality Name/ City, Borough, Township: Somerset Township	County: Washington	
Phone: (724) 271-7200	Fax: (724) 749-5581	Email: erin.spine@riceenergy.com	USGS 7.5 min. quadrangle map: Hackett		Section: 7

☒ Check if this is a new address

24/7 Emergency Phone contact number: Mike Lauderbaugh (724) 809-9897

911 address of well site (if available): 451 Vanceville Road, Eighty Four, PA 15330

Freshwater Impoundment Name/ Identification	Centralized Impoundment Name/ Identification	Well Pad (cluster) Name/Identification	Borrow Area Name/Identification
N/A	N/A	Prairie Fire Well Site	N/A

Surface Elev	Deepest Formation to be penetrated:	Anticipated TVD
1208	Marcellus	7470

Target Formation(s) proposed for production: Marcellus

Anticipated Target Top/Bottom TVD: 7425 7564

Number of wellbore laterals proposed under this application 1

Total feet of wellbore to be drilled under this application 14,319.75 Ft.

If applying for a permit to rework an existing well not registered or permitted, check this box ☐ and **enter date drilled**, if known:_____ (see instructions)

PNDI Attached: ☒ Any threatened or endangered "hit" must include a copy of the clearance letter from the applicable agency(ies).

Application submitted as: Coal well: ☒ Attach Coal Module
CBM well ☐ Attach Coal Module
Non coal well ☐ Attach justification.

PERMIT TYPE (Check applicable)
Application is to:
☒ Drill a new well
☐ Re-permit expired permit
☐ Deepen well
☐ Redrill wellbore
☐ Alter well
☐ Other (specify)

TYPE OF WELL (Check applicable)
☒ Gas
☐ Oil
☐ Comb. (gas & oil/condensate)
☐ Other (specify)

Configuration
☐ Vertical
☒ Horizontal
☐ Deviated
☐ Multiple laterals

APPLICATION FEE (Check applicable)
☒ Unconventional
☐ Vertical
☐ Nonvertical

Total Application Fee
$ 5,250

Bond Agreement Id
RLB0014476

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).	☐	☒
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?	☐	☐
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 disturbed area of the well site of the unconventional well be within 100 feet, or the vertical well bore be within 300 feet, from the edge of any solid blue lined **stream, spring or body of water** identified on the most current 7½' topographic quadrangle map or wetland greater than one acre in size or in a wetland?	☐	☒
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.	☐	☒
If yes, are the following attached: a site-specific E&S control plan (unless an ESCGP has been submitted), Pollution Prevention Control Plan, Portions of the Well Site Emergency Response Plan, and Site Containment Plan?	☐	☐

8000-PM-OOGM0001b Rev. 4/2014
Record of Notification / Written Consent

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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

Farm Name - Well #	
Prairie Fire 2	
Applicant Name	DEP ID#
Rice Drilling B LLC	268470
DEP USE ONLY	APS #

List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the 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 these parties.

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 <3000'	Municipalities	Notification (Note the means and attach proof.) Certified Mail Dates: Sent	Return Receipt	Address Affidavit	Written Consent
Print Name: Richard A. Opfermann Signature	Address: 315 Walker Road Canonsburg, PA 15317	X				6/15/2016			
Print Name: Mary Ellen Haller Signature	Address: 3343 Flat Run Drive Bethlehem, GA 30620	X				6/15/2016			
Print Name: Debra Carter Signature	Address: 151 Evelyn Street Southport, CT 06890	X				6/15/2016			
Print Name: Robert Opfermann, Jr. Signature	Address: 1090 Grandview Farm Drive Bethel Park, PA 15102	X				6/15/2016			
Print Name: Robert D. Deferrari Signature	Address: 427 Vance Station Road Eighty Four, PA 15330			X		6/15/2016			

Record of Written Consent

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.

Check applicable box

			Surface Owner	Water Well within 500 feet	Building within 500 feet
Print and Sign Name:	**Address:**	**Date**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐

8000-PM-OOGM0001b Rev. 4/2014
Record of Notification / Written Consent

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OFFICE OF OIL AND GAS MANAGEMENT

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

Farm Name - Well #	
Prairie Fire 2	
Applicant Name	DEP ID#
Rice Drilling B LLC	268470
DEP USE ONLY	APS #

List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the 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 those parties.
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 <3000'	Municipalities	Notification (Note the means and attach proof.) Certified Mail Dates: Sent	Return Receipt	Address Affidavit	Written Consent
Print Name: Bradford Schmitt Signature	Address: 10 Horseshoe Drive Eighty Four, PA 15330			X		6/15/2016			
Print Name: Isaac & Sherri Rishel Signature	Address: 57 Cumberland Avenue Washington, PA 15301			X		6/15/2016			
Print Name: Mark J. Weber Signature	Address: 96 Horseshoe Drive Eighty Four, PA 15330			X		6/15/2016			
Print Name: Duane A. & M. Jeanie Taylor Signature	Address: 36 Horseshoe Drive Eighty Four, PA 15330			X		6/15/2016			
Print Name: Matthew C. Handy Signature	Address: 30 Horseshoe Drive Eighty Four, PA 15330			X		6/15/2016			

Record of Written Consent

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.
Check applicable box

			Surface Owner	Water Well within 500 feet	Building within 500 feet
Print and Sign Name:	**Address:**	**Date**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐

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OFFICE OF OIL AND GAS MANAGEMENT

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

Farm Name - Well #	
Prairie Fire 2	
Applicant Name	DEP ID#
Rice Drilling B LLC	268470
DEP USE ONLY	APS #

List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the 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 these parties.

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 <3000'	Municipalities	Notification (Note the means and attach proof.) Certified Mail Dates: Sent	Return Receipt	Address Affidavit	Written Consent
Print Name: Herbert M. & Sue A. Jenkins Signature	Address: 106 Vanceville Road Eighty Four, PA 15330			X		6/15/2016			
Print Name: Barbara Ann Jenkins Signature	Address: 123 Vanceville Road Eighty Four, PA 15330			X		6/15/2016			
Print Name: Otis J. & Betty Ann Spicer Signature	Address: 136 Vanceville Road Eighty Four, PA 15330			X		6/15/2016			
Print Name: Aaron B. Wishart Signature	Address: 146 Vanceville Road Eighty Four, PA 15330			X		6/15/2016			
Print Name: David L. & Mary Kay Vaglia Signature	Address: 221 Somerset Drive Eighty Four, PA 15330			X		6/15/2016			

Record of Written Consent

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.

Check applicable box

			Surface Owner	Water Well within 500 feet	Building within 500 feet
Print and Sign Name:	**Address:**	**Date**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐
Print and Sign Name:	**Address:**	**Date:**	☐	☐	☐

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OFFICE OF OIL AND GAS MANAGEMENT

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

Farm Name - Well #	
Prairie Fire 2	
Applicant Name	DEP ID#
Rice Drilling B LLC	268470
DEP USE ONLY	APS #

List the following: surface landowner; surface landowners and water purveyors with water supplies within 3,000 feet; municipality where the 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 these parties.

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 <3000'	Municipalities	Notification (Note the means and attach proof) Certified Mail Dates: Sent	Return Receipt	Address Affidavit	Written Consent
Print Name: Ellsworth Borough Signature	Address: P.O. Box 545 23 Main Street Ellsworth, PA 15331				X	6/15/2016			
Print Name: Bentleyville Borough Signature	Address: 900 Main Street Bentleyville, PA 15314				X	6/15/2016			
Print Name: Fallowfield Township Signature	Address: 9 Memorial Drive Charleroi, PA 15022				X	6/15/2016			
Print Name: West Pike Run Township Signature	Address: 238 Pike Run Road Daisytown, PA 15427				X	6/15/2016			
Print Name: North Bethlehem Township Signature	Address: P.O. Box 112 Scenery Hill, PA 15360				X	6/15/2016			

Record of Written Consent

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.

Check applicable box

Print and Sign Name:	Address:	Date	Surface Owner	Water Well within 500 feet	Building within 500 feet
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

Prairie Fire 2

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	☒ ☒	☐ ☐
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). a. If "No," is the required exception request attached? (Check N/A if re-working an existing well: ☐ N/A) b. Will the well be part of a Well Cluster which 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? c. Will this well be part of a Well Cluster that already has an approved OG-57 waiver? If Yes, provide a copy of the approved OG-57 form.	☒ ☐ ☒ ☐	☐ ☐ ☐ ☒
3. Will this well be drilled in solid coal or into an open underground void?	solid coal ☐	open void ☒
	Yes	**No**
4. Will the well be drilled through an **operating coal mine**, or within 1,000 feet of the boundary? **Mine 84 is closed but the permit is still active.** a) If "Yes," provide the names of: Mine: Mine 84 and Operator: Eighty Four Mining Co. b) If yes, does it meet the Gas Well Pillar Study? **N/A – Mine Closed** 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.	☒ ☐	☐ ☐
5. If the well will be a Coalbed Methane well is the alternate method request of drilling/completing the well attached (form 5500-PM-OG0024)?	☐	☐
6. If the well is a CBM well, has the surface landowner been notified and provided a copy of Form 5500-FM-OGO053 Rev. 1/2011?	☐	☐

8000-PM-OOGM0002 4/2012

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OFFICE OF OIL AND GAS MANAGEMENT

WELL LOCATION PLAT

PAGE 1 Surface Location

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

Denotes location of well on topo map.

True Latitude: NORTH
40 ° 09 ' 21.25 "

True Longitude: WEST
80 ° 05 ' 32.82 "

Well is located on topo map 3921 feet south of latitude 40 ° 10 ' 00 "

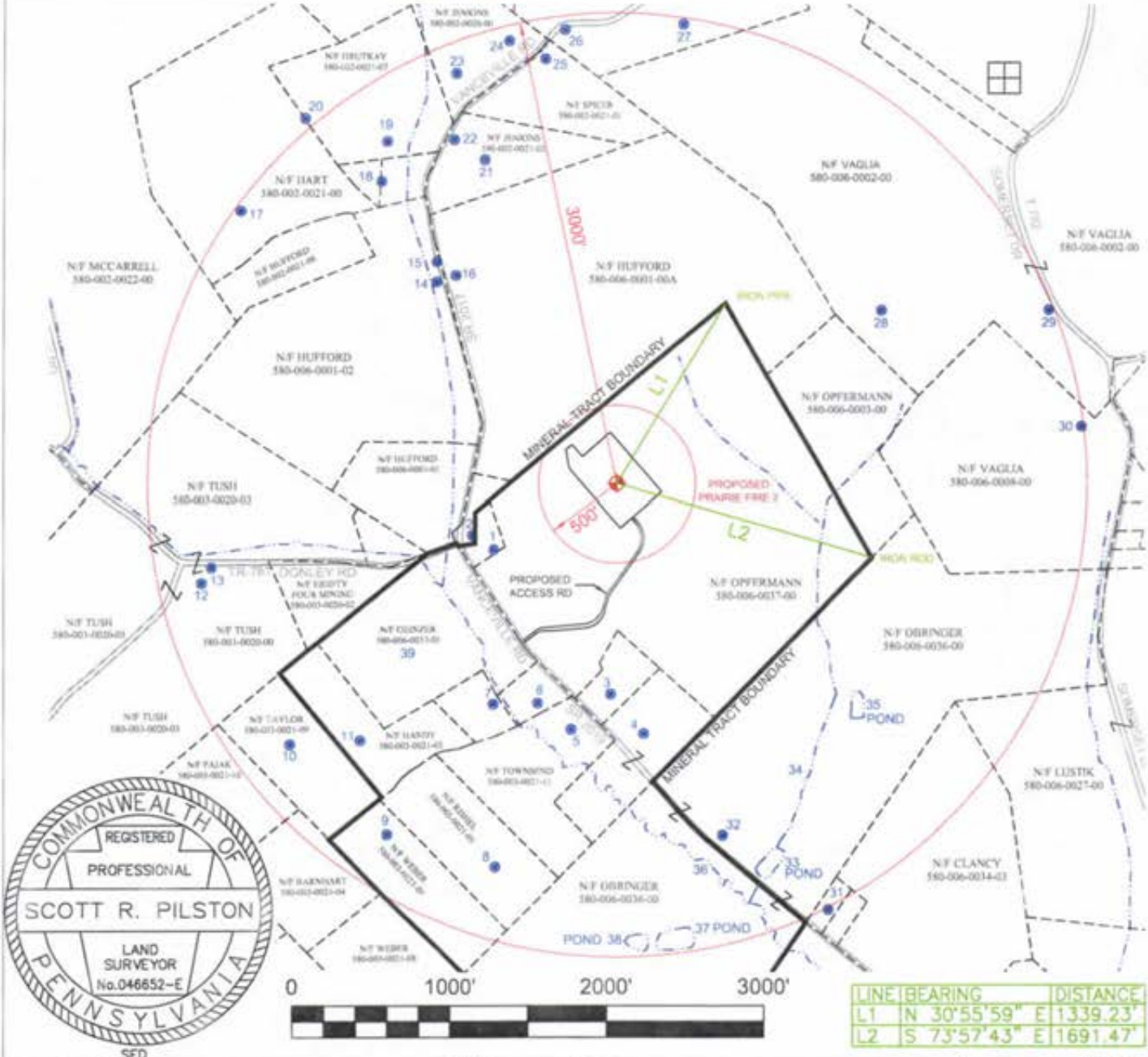
LEGEND
- Water Source
- Proposed Gas Well
- Tract Boundary
- Surface Boundary
- Well Tie Line
- Existing Gas Well
- Topo Reference
- Streams/Wetlands/Ponds

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

NOTE: PROPOSED WELL IS WITHIN MINE 84 ACTIVE PERMIT BOUNDARY

NORTH (NAD 83/93 SPCS ZONE PA SOUTH)

Well is located on topo map 2651 feet west of longitude 80 ° 05 ' 00 "



LINE	BEARING	DISTANCE
L1	N 30°55'59" E	1339.23'
L2	S 73°57'43" E	1691.47'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
SCOTT R. PILSTON
LAND SURVEYOR
No.046652-E
SED

Applicant / Well Operator Name: RICE DRILLING B LLC	DEP ID#: 268470	Well (Farm) Name: PRAIRIE FIRE	2	Serial #:	
Address: 2200 RICE DRIVE, CANONSBURG, PA 15317		County: WASHINGTON	Municipality: SOMERSET TOWNSHIP	Well Type: GAS	
911 address of well site: 451 VANCEVILLE ROAD EIGHTY FOUR, PA 15330		USGS 7½ Quadrangle Map Name: HACKETT	Map Section: 7	Surface Elevation: 1208 ft.	
Surveyor or Engineer: ENVIRONMENTAL LAND SURVEYING SCOTT R. PILSTON, P.L.S.	Phone #: 724-463-7303	Dwg #: 15-63	Date: 06/15/2016	Scale: 1"=1000'	Tract Acreage: 424±
Lat. & Long Metadata Method: DIRECT GPS	Accuracy: ±3 ft.	Datum: NAD83	Elevation Metadata Method: DIRECT GPS	Accuracy: ±3 ft.	Datum: NAVD88
					Survey Date: 11/24/2015

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	DEP ID#	Well (Farm) Name	Well #	Serial #
RICE DRILLING B LLC	268470	PRAIRIE FIRE	2	

Surface Landowner / Lessor:	Angle & Course of Deviation (Drilling):	Anticipated True Vertical Depth Feet (TVD):	Anticipated Total Measured Depth Feet (TMD):
RICHARD A. OPFERMANN, MARY ELLEN HALLER, DEBRA CARTER & ROBERT OPFERMANN, Jr.	S 15°43'55" E 6833.23'	7470	14320

Target Formation(s):	Deepest Formation to be penetrated:	Number of laterals:	Total footage to be drilled all laterals:
MARCELLUS	MARCELLUS	1	14320

Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'	Latitude Longitude of Water Supply
20. HRUTKAY, JAMES A. & LINDA	40°09'43.74" 80°05'59.24"
21. JENKINS, HERBERT M. & SUE A.	40°09'41.46" 80°05'44.41"
22. JENKINS, HERBERT M. & SUE A.	40°09'42.66" 80°05'46.99"
23. JENKINS, BARBARA ANN	40°09'46.80" 80°05'46.96"
24. JENKINS, BARBARA ANN	40°09'48.92" 80°05'42.66"
25. SPICER, OTIS J. & BETTY ANN	40°09'47.85" 80°05'39.67"
26. WISHART, AARON B.	40°09'49.73" 80°05'38.13"
27. WISHART, AARON B.	40°09'50.29" 80°05'28.41"
28. VAGLIA, DAVID L. & MARY KAY	40°09'32.60" 80°05'11.47"
29. VAGLIA, DAVID L. & MARY KAY	40°09'32.91" 80°04'57.79"
30. VAGLIA, NEIL L.	40°09'25.58" 80°04'54.82"
31. HANZELY, RITA A.	40°08'54.94" 80°05'14.64"
32. OBRINGER, WILBERT J. & BEVERLY	40°08'59.43" 80°05'23.49"
33. OBRINGER, WILBERT J. & BEVERLY	40°08'57.74" 80°05'20.81"
34. OBRINGER, WILBERT J. & BEVERLY	40°09'03.54" 80°05'16.69"
35. OBRINGER, WILBERT J. & BEVERLY	40°09'06.98" 80°05'12.83"
36. OBRINGER, WILBERT J. & BEVERLY	40°08'57.97" 80°05'24.68"
37. OBRINGER, WILBERT J. & BEVERLY	40°08'53.75" 80°05'26.34"
38. OBRINGER, WILBERT J. & BEVERLY	40°08'53.32" 80°05'29.41"
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**
	Coal related parties

8000-PM-OOGM0002 4/2012

WELL LOCATION PLAT

Page 3 Plan View of Deviated Well Bore

If well has a lateral other than vertical show the bottom hole location on the plat drawing as ⊗ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.

Applicant / Well Operator Name	DEP ID#	Well (Farm) Name	Well #
RICE DRILLING B LLC	268470	PRAIRIE FIRE	2

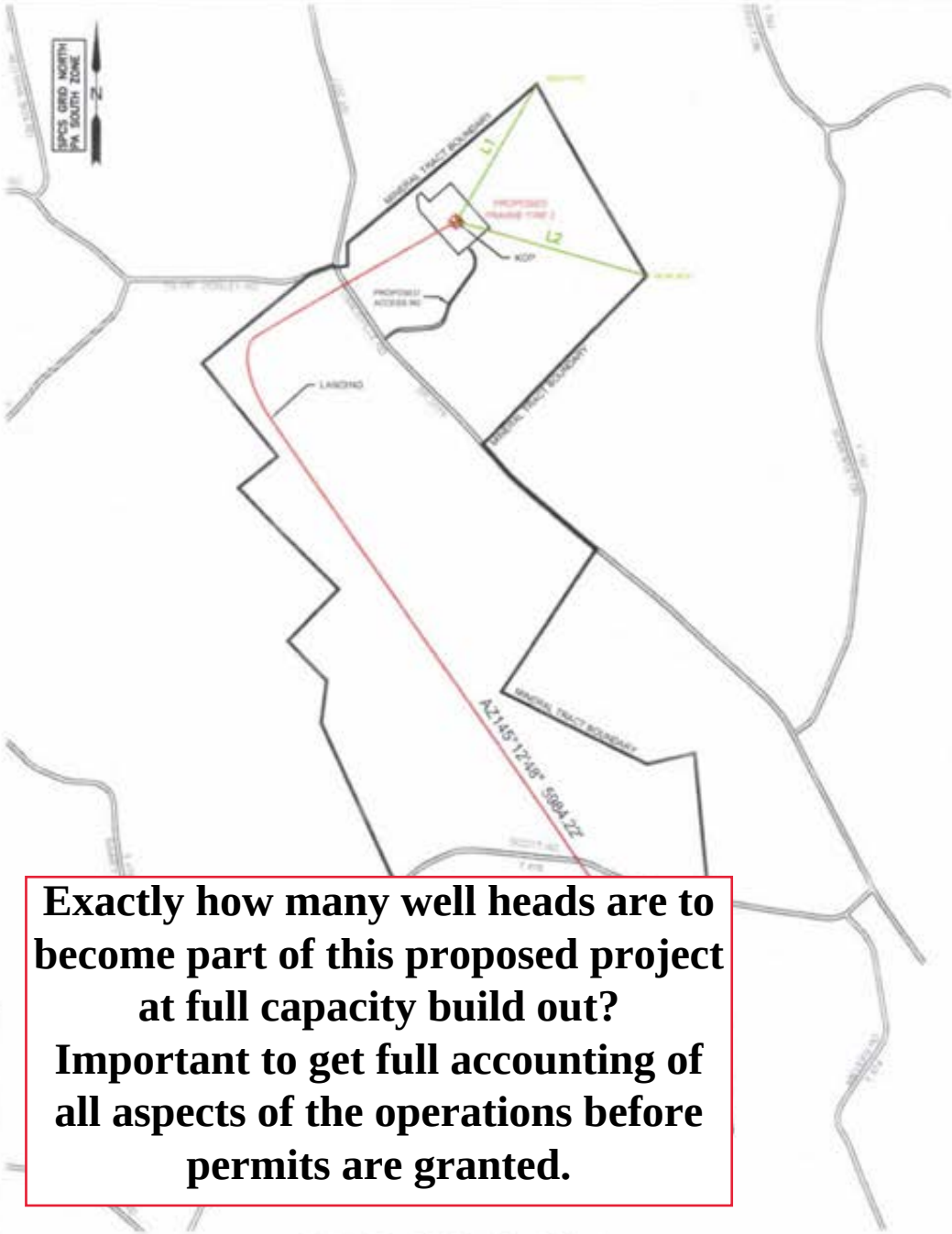
Surface Hole Location
Latitude North: (NAD 83) 40° 09' 21.25"
Longitude West: (NAD 83) 80° 05' 32.82"

Projected Landing Point
Latitude North: (NAD 83) 40° 09' 04.42"
Longitude West: (NAD 83) 80° 05' 52.36"

Projected Bottom Hole
Latitude North: (NAD 83) 40° 08' 16.76"
Longitude West: (NAD 83) 80° 05' 06.73"

NOTE:
KOP LATITUDE AND LONGITUDE IS THE SAME AS PROPOSED SURFACE HOLE LOCATION

SED



Exactly how many well heads are to become part of this proposed project at full capacity build out? Important to get full accounting of all aspects of the operations before permits are granted.

TRACT ACREAGE: 424 ±

SCALE: 1"=1500'

PAD DETAIL
SCALE: 1"=300'

0 1500' 3000' 4500'

LINE	BEARING	DISTANCE
L1	N 30°55'59" E	1339.23'
L2	S 73°57'43" E	1691.47'