

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Tuesday, September 19, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for EDWIN BUNNER MRN 1H 47-049-02460-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: EDWIN BUNNER MRN 1H Farm Name: EDWIN L. BUNNER & SANDRA J. BUNNER U.S. WELL NUMBER: 47-049-02460-00-00 Horizontal 6A / New Drill Date Issued: 9/19/2017

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number	A	PI	N	um	ber:	
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PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

4704902460 API NO. 47-049

WW-6B (04/15)

OPERATOR WELL NO. Edwin Bunner MRN 1H Well Pad Name: Edwin Bunner Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Produe	ction Co., LLC	494512924	49-Marion	19-Winfie	368-Gladesville
· · · ·		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Edv	win Bunner MRN	V 1H Well Pa	d Name: Edwi	n Bunner P	ad
3) Farm Name/Surface Owner: E	Edwin Bunner	Public Roa	ad Access: Bur	nner Ridge	Road
4) Elevation, current ground:	1466.9' El	evation, proposed	post-constructi	on: 1466.9)'
5) Well Type (a) Gas Other	X Oil	Und	erground Stora	ge	
(b)If Gas Shal	llow X	Deep			
Hori	izontal X			501	13
6) Existing Pad: Yes or No Yes			-	612	8/2017
7) Proposed Target Formation(s). Target Formation-Marcellus, Target					ciated Pressure- 4721
8) Proposed Total Vertical Depth	ı: 7317'				
9) Formation at Total Vertical De	epth: Marcellus				
10) Proposed Total Measured De	epth: 13580'	9	10:01	10:0	
11) Proposed Horizontal Leg Ler	ngth: 5733.27'			~7.0	7
12) Approximate Fresh Water St	rata Depths:	268'			
13) Method to Determine Fresh V	Water Depths:	from petrophysic	s and existing	wells	
14) Approximate Saltwater Deptl	hs: 657'				
15) Approximate Coal Seam Dep	oths: N/A				
16) Approximate Depth to Possil	ole Void (coal mi	ne, karst, other):	None that we	are aware	of.
17) Does Proposed well location directly overlying or adjacent to a	contain coal sear			, <u>x</u>	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:	Office of	ECEIVED		
			1 1 2017		
		WV De	enartment of ental Protection		

API NO. 47- 049

OPERATOR WELL NO. Edwin Bunner MRN 1H Well Pad Name: Edwin Bunner Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	98.9#	100'	100'	CTS
Fresh Water	13 3/8""	New	H-40	94.0#	408'	408'	399 sx/CTS
Coal	9 5/8"	New	J-55	48#	2880'	2880'	1121 sx/CTS
Intermediate	7"	New	J-55	36#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	14878'	14878'	load 835sx Tail 1864sx/100' inside imoan
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 7317'	Approx. 7317'	
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.375"	443	81	Class A	1.19/50% Excess
Fresh Water	20"	26"	.375"	2110	81	Class A	1.19/50% Excess
Coal	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193'	0.000	
Liners							

PACKERS

Kind:	10K Arrowset AS-1X	
Sizes:	5 1/2"	
Depths Set:		

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WV Department of Environmental Protection Page 09/22/2017

WW-6B (10/14) API NO. 47- 049 -OPERATOR WELL NO. Edwin Bunner MRN 1H Well Pad Name: Edwin Bunner Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 5.3

22) Area to be disturbed for well pad only, less access road (acres): U_{\downarrow}

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

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SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

June 29, 2017

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Proposed New Well Edwin Bunner MRN 1H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Bunner's property, in Winfield District, Marion County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you.

Sincerely,

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Brittany Woody Regulatory Analyst Southwestern Energy Production Company, LLC PO Box 1300 Jane Lew, WV 26378

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	Product Name	Product Use	Chemical Name	ICAC Mumber
	Product Name	Product Use		CAS Number
Surface	5001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
õ	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
pag	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
t Se la	D201	retarder	metal oxide	propriatary
, ng			sulphonated synthetic polymer	propriatary
- La	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
=			sodium polynaphthalene sulfonate	9008-63-3
Ë	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail			chrystalline silica	14808-60-7
äp	D201	retarder	metal oxide	propriatary
<u> </u>	D153	anti-settling	chrystalline silica	14808-60-7

Schlumberger Cement Additives

1

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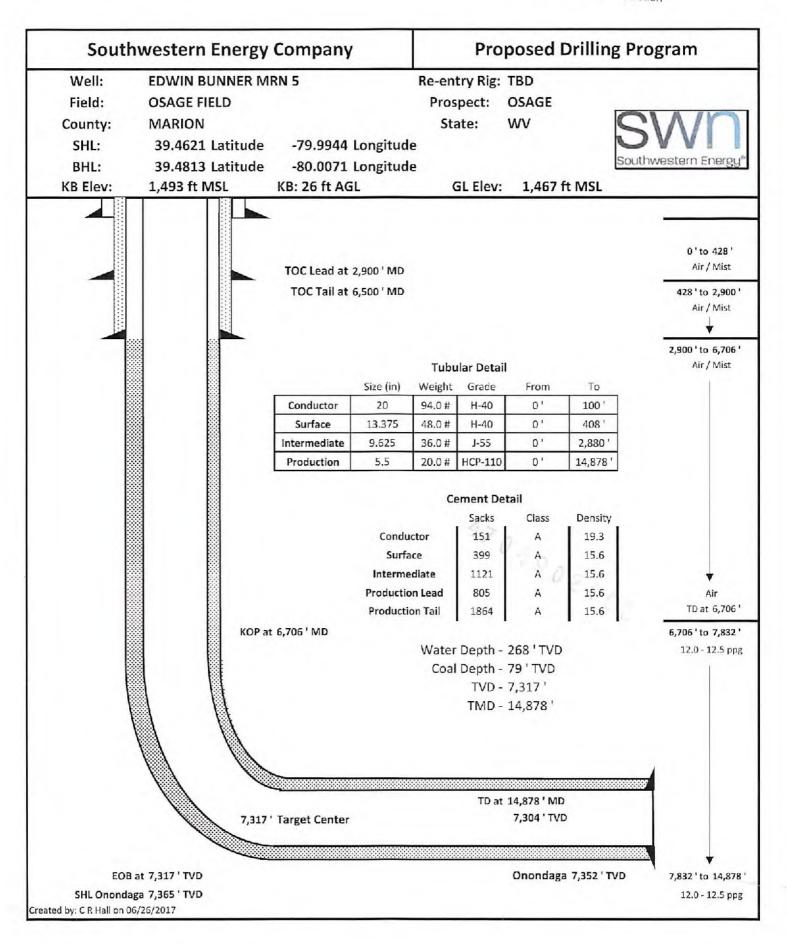
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API Number 47 - <u>103</u> - Operator's Well No. <u>Edwin Bunner MRN 1H</u> TE OF WEST VIRGINIA F ENVIRONMENTAL PROTECTION
E ENVIRONMENTALI ROLECTION
FICE OF OIL AND GAS
S DISPOSAL & RECLAMATION PLAN OP Code _494512924
ngahela River Quadrangle Gladesville
o complete the proposed well work? Yes No
stes:
Permit Number)
t anticipated well, API # will be included with the WR-34/DDMR &/or permit addendum)
rm WW-9 for disposal location)
ds will be put in steel tanks and reused or taken to a permitted disposal facility
SDW
5D00 612812
orizontal)? Air, freshwater, oil based, etcat drill to KOP, fluid drill with: SOBM from KOP to TD
etc. synthetic oil base
heets
moved offsite, etc. landfill
will be used? (cement, lime, sawdust)
SWF 1002, SS grading SWF-1902, Northwardum SWF-1025, Shor, Creek 1034/WV0109517/Cl028726, Carbon Lineaton 28726-Cl028726 , COUNTRY VVICE 3839U/CID3839U, PINE GROVE 13688
il and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose

application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature	•
Company Official (Typed Name) Dee Souther Company Official Title Regulatory Supervisor	
Subscribed and sworn before me this Jum day of (1000	, 20 10 Nointy Public Stat
Brettany R Woody	Notary Public
My commission expires 112 12	Buckhannon, WV 25201 My concussion concord WV 25201 09/22/2017/ 2022
	03/22/2011

Form WW-9

OVVIAI	Production Company,		60		
Proposed	Revegetation Treatment: Acres	s Disturbed	5.3	Prevegetation pl	н
L	ime Tons/a	cre or to corre	ect to pH <u>91</u>	l	
F	ertilizer type 10-20-20				
F	ertilizer amount 600		lbs/acre		
Ν	lulch Hay/Straw 2.5		Tons/acre		
			Seed Mix	tures	
	Temporary			Perm	anent
S	eed Type Ibs/ac	cre		Seed Type	lbs/acre
**See	Attachment				
provided)	f road, location, pit and propose If water from the pit will be la f the land application area.	ed area for la nd applied, in	nd application nelude dimension	(unless engineered plans inclu ons (L x W x D) of the pit, and	iding this info have been d dimensions (L x W), and
Maps(s) o provided) acreage, o	f road, location, pit and propose If water from the pit will be la f the land application area, ed section of involved 7.5' topo	nd applied, in	iclude dimensi	(unless engineered plans inclu ons (L x W x D) of the pit, and	iding this info have been d dimensions (L x W), and
Maps(s) o provided) acreage, o Photocopi Plan Appr	If water from the pit will be la f the land application area. ed section of involved 7.5' topo oved by:	nd applied, in ographic sheet	t.	ons (L x W x D) of the pit, and	d dimensions (L x W), and
Maps(s) o provided) acreage, o Photocopi Plan Appr	If water from the pit will be la f the land application area. ed section of involved 7.5' topo	nd applied, in ographic sheet	t.	ons (L x W x D) of the pit, and	d dimensions (L x W), and
Maps(s) o provided) creage, o Photocopi Plan Appr Comment	If water from the pit will be la f the land application area. ed section of involved 7.5' topo oved by:	nd applied, in ographic sheet U (v) v - v -	t. 	ons (L x W x D) of the pit, and	d dimensions (L x W), and
Maps(s) o provided) creage, o Photocopi Plan Appr Comment	If water from the pit will be la f the land application area. ed section of involved 7.5' topo oved by: <u>S</u>	nd applied, in ographic sheet U (v) v - v -	t. 	ons (L x W x D) of the pit, and	d dimensions (L x W), and
Maps(s) o provided) acreage, o Photocopi Plan Appr Comment	If water from the pit will be la f the land application area. ed section of involved 7.5' topo oved by: <u>S</u>	nd applied, in ographic sheet U (v) v - v -	t. 	ons (L x W x D) of the pit, and	ssary per

Title: oil and gas inspector	Date: 6	28	2017
	-		

Field Reviewed? (_____) Yes (_____) No

09/22/2017

Drilling Mediums

Synthetic Oil Brine Barite Calcium Chloride Lime Organophilic Bentonite Primary and Secondary Emulsifiers Gilsonite Calcium Carbonate Friction Reducers

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09/22/2017

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Southwestern Energy*	WVD Seeding Specification $\frac{R^2}{A} = \sqrt{\frac{R^2}{A}}$				
To Order Se	eed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-20	69-5451 lyndsi_eddy@swn.com (please allow 7 to 10 e	days for delivery)		
NON-ORGANIC PROPERTIES		ORGANIC PROPERTIES			
Seed Mixture: ROW Mix	SWN Supplied	Seed Mixture: SWN Production Organic	Mix SWN Supplied		
Orchardgrass Timothy Annual Ryegrass Brown Top Millet Red Top Medium Red Clover White Clover Birdsfoot Trefoil Rough Bluegrass Apply @ 100lbs per acre	40% 15% 5% 5% 5% 5% All legumes are innoculated at 5x normal 5% rate 5% Apply @ 200lbs per acre Oct. 15th- April 15th PLUS	Organic Timothy Organic Red or White Clover OR Organic Perennial Ryegrass Organic Red or White Clover Apply @ 100lbs per acre April 16th- Oct. 14th Organic Fertilizer @ 200lbs per Acre	50% 50% 50% Apply @ 200lbs per acre Oct. 15th- April 15th Pelletized Lime @ 2 Tons per Acre		
April 16th- Oct. 14th	50lbs per acre of Winter Wheat	WETLANDS (delineated as jurisdict			
SOIL AMENDMENTS		Seed Mixture: Wetland Mix	SWN Supplied		
10-20-20 Fertilizer Pelletized Lime	*Apply @ 500lbs per Acre Apply @ 2 Tons per Acre *unless otherwise dictated by soil test results	VA Wild Ryegrass Annual Ryegrass Fowl Bluegrass	20% 20% 20%		
Seeding Calculation Information:		Cosmos 'Sensation'	10%		
1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre		Redtop Golden Tickseed Maryland Senna Showy Tickseed	5%RECEIVED5%Office of Oil and Gas5%JUL 11 20175%MUD of Collection		
Synopsis:	· · · · · · · · · · · · · · · · · · ·	Fox Sedge	2.5% WV Department of Environmental Protection		
이 같은 것은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것	you should be using (2) 50lb bags of seed, (4) 50lb me (2x seed in winter months + 50lb Winter	Soft Rush Woolgrass Swamp Verbena	2.5% 2.5% 2.5%		
Special Considerations:		Apply @ 25lbs per acre	Apply @ 50lbs per acre		
Landowner Special Considerations including	CREP program participants require additional se requirements with SWN supervision at the second seed delivery.	April 16th- Oct. 14th	Oct. 15th- April 15th E INSIDE WETLAND LIMITS		

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

7. 00 - 00 - 0 - - CO API NO. 47-XXX-XXXXX WELL NAME: Edwin Bunner MRN 1H **Gladesville QUAD** Winfield DISTRICT Marion COUNTY, WEST VIRGINIA

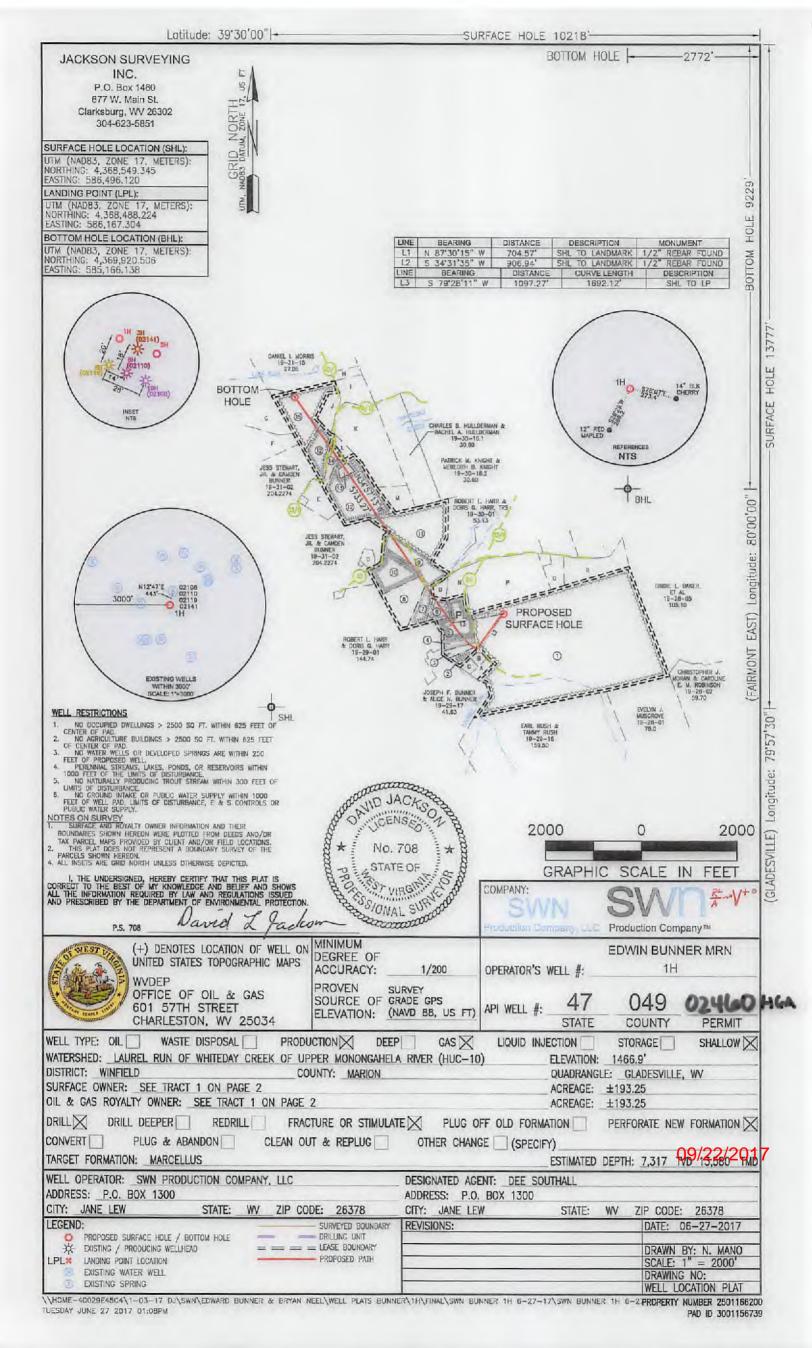
Submitted by: P. P. Brittany Noodu	6/26/2017	
Dee Southall	Date:	
Title: Regulatory Supervisor	SWN Production Co., LLC	
Approved by:		
	Date:	
Title:		
Approved by:		
	Date:	
Title:		
SWN PRODUCTION COMPANY	, LLC	RECEIVED Office of Oil and Ga
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		WV Department of Environmental Protect

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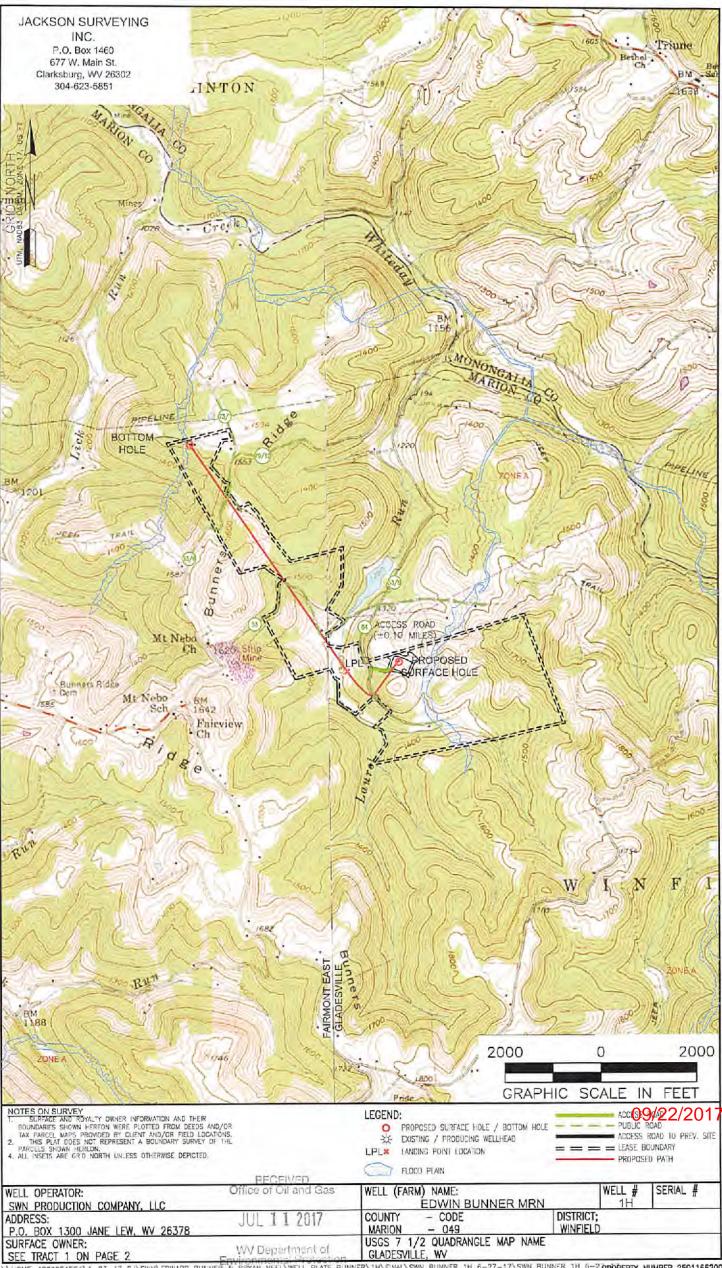
JACKSON SURVEYING INC. P.O. Box 1450 677 W. Main St. Clarksburg, WV 26302 304-623-5851

	WELL BORE TABLE FOR SURFACE / ROYALTY	OWNERS	
TRACT		TAX PARCEL	ACRES
1	EDWIN L. BUNNER & SANDRA J. BUNNER, BERNICE E. MILLER, BARBARA A. GREENE, MYRON R. MILLER, RICHARD T. MORGAN, JR., RICHARD EARL HUGHES, KENITA K. MASSARO & EUGENE J. MASSARO, CATHY JO KELLEY, CRYSTAL D. HAYNES, LUCILLE MCKINNEY, STEPHEN DWIGHT HUGHES, PAMELA ROSE SNYDER, JASON MULIK, CHRYSTLE DAWN BOLYARD, JUDITH JEANNETTE CLINE, TERESA WILLIAMS, VALERIE D. BOLTON, LESTER PRICE LAKE, NANCY L. HILL, A.K.A. NANCY L. SOSSOMAN, NAOMI CLAUDINE LAKE, RANDY WAYNE LAKE, LARRY JACKSON SHUTTLEWORTH, TERRY ROBERTS SHUTTLEWORTH, DARRELL L. SHUTTLESWORTH, JIMMY EUGENE LAKE, JUDY STAINBROOK, KENNETH LEO LAKE, JR., WILLIAM E. LAKE & JOYCE E. LAKE, RICHARD A. LAKE, JR., CRYSTAL LAKE BOUND, MICHAEL R. LAKE (S)/(R)	19-28-8	193.25
TRACT	17117	TAX PARCEL	ACRES
2	VIRGINIA K. BUNNER & FRANKLIN BUNNER (S)	19-29-19.5	2.452
3	FRANKLIN T. BUNNER & VIRGINIA K. BUNNER (S)	19-29-19.6	2.452
4	EARL F. HUFFMAN, JR., & CAROL A HUFFMAN (S)	19-29-19.9	2.452
5		19-29-19.4	12.355
6	EARL V. RUSH, JR., & TAMMY S. RUSH (S)	19-29-19.12	4.035
7	RAY M. RUSH & CYNTHIA S. RUSH (S)	19-29-19.3	6.074
8	JASON R. HIGGINS & KELLY J. HIGGINS, & CLIFFORD W. PRIEST (S)	19-29-19.2	12.355
9	ANITA G. PRIEST (S)	19-29-19	12.355
10	EARL V. RUSH, JR., & TAMMY S. RUSH (S)	19-29-19.1	12.355
11	JOHN R. MERRIFIELD & CHRISTINE G. MERRIFIELD (S)	19-30-1.1	15.71
12	ROBERT E. CARPENTER & KARLA M. CARPENTER (S)	19-30-18	35.29
13	RICHARD R. BUNNER & MARTHA L. BUNNER (S)	19-30-18.3	1.42
14	RICHARD R. BUNNER & MARTHA L. BUNNER (S)	19-30-18.4	3.54
15	ROBERT E. FERRELL & JANET B. FERRELL (S)	19-31-3	22.055

	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MISTY FLUHARTY	19-29-19.7	2.00
В	LEAH A. HARLOW	19-29-19.11	1.50
С	CLAUDIA D. FORTNEY	19-29-19.8	1.50
D	JOHN E. STEWART & MARY L. STEWART	19-30-19	1.89
E	HAROLD D. HONAKER & BILLIE F. HONAKER	19-31-2.1	7.67
F	GREGORY A. HEISKELL	19-31-24	52.00
G	EMIL R. LIDDELL & MARIAN B. LIDDELL	19-31-23	61.75
Н	WILLIAM R. LAYMAN & DEBORAH J. LAYMAN	19-31-15.1	2.933
1	LEO L. MORRIS	19-31-3.1	8.945
J	ROBERT E. FERRELL & JANET B. FERRELL	19-31-3.2	5.00
К	ROSA TRAVIS ESTATE	19-30-17	30.00
L	RICHARD R. BUNNER & MARTHA L. BUNNER	19-30-18.1	1.75
M	ROBERT E. CARPENTER & KARLA M. CARPENTER	19-30-18.2	6.25
N	LINDA PERKINS	19-29-18	6.62
0	EARL V. RUSH, JR. & TAMMY S. RUSH	19-29-19.10	2.019
P	LUELLA M. ROBE	19-28-7	33.66
Q	SALLY A. DONALDSON	19-28-6.1	6.199
R	EDWIN D. BUNNER & LANA J. BUNNER	19-28-6	12.50

REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Co	mpany [™]
	OPERATOR'S WELL #:	EDWIN BUNNER MF 1H	RN	DATE: 06-27-2017 DRAWN BY: N. MANO
	DISTRICT: WINFIELD	COUNTY: MARION	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

\\HOME-40029E45C4\1-03-17 DJ\SWN\EDWARD BUNNER & BRYAN NEEL\WELL PLATS BUNNER\1H\FINAL\SWN BUNNER 1H 6-27-17\SWN BUNNER 1H 6-27-17. TUESDAY JUNE 27 2017 D1:12PM



VHOME -40029E45C4\1-03-17 DJ\SWN\EDWARD BUNNER & BRYAN NEEL\WELL PLATS BUNNER\1H\FINAL\SWN BUNNER 1H 6-27-17\SWN BUNNER 1H 6-27 PROPERTY NUMBER 2501166200 TUESDAY JUNE 27 2017 01:09FM PAD ID 3001156739 WW-6A1 (5/13)

Operator's Well No. Edwin Bunner MRN 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See "Exhibit A"

RECEIVED Office of Oil and Gas

JUL 11 2017

WV Department of Environmental Protection

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	SWN Production Company, LLC.
By:	RS
Its:	Staff Landmar

Page 1 of _____

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8 RECEIVED Office of Oil and JUL 1120 WV Department Environmental Prot	Gas 17	Edwin L. Bunner and Sandra J. Bunner, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake			193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-001	Bernice E. Miller, single	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jirmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	Office JUL	726260-002 ECEIVED of Oil and Gas 11 2017 Department of henial Protection	Barbara A. Greene, married, dealing ir her sole and separate property	n Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-003	Myron R. Miller, single, by James R. Miller, true and lawful attorney	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake		193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

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Tract #	Tax Parce	el Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	RECEIVED Office of Oil and Gas JUL 11 2017 WV Department of Environmental Protection	Richard T. Morgan, Jr., single Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
1	19-28-8	726260-005	Richard Earl Hughes, married, dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-006	Kenita K. Massaro and Eugene J. Massaro, wife and husband	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake		193.250000 RECEIVE Office of Oil a JUL 11 Y. Openartr Environmental	2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-007	Reta Carol Maxson, single, and Cathy Jo Kelley, single (Crystal D. Haynes)	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-008	Lucille McKinney, single	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000 RECEIVI Office of Oil a JUL 11 VCC Departm Environancinal	2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-009	Edwin L. Bunner and Sandra J. Bunner, husband and wife	, Chesapeake Appalachia, L.L.C.	12.50%	1063/547	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake		193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	
1	19-28-8	726260-010	Stephen Dwight Hughes, married dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608		193.250000 DEIVED Oil and Gas 1 1 2017 Deartment of Initial Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-011	Pamela Rose Snyder, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-012	Jason Mulik, single	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of JUL 1	193.250000 EIVED Oil and Gas 1 2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-013	Chrystle Dawn Bolyard, single	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8		Judith Jeanette Cline, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	RECE Office of C JUL 1	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-015	Teresa Williams, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel		
1	19-28-8	726260-016	Valerie D. Bolton, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000 RECEIVI Office of Oil a JUL 11 MM Depart Environmental	2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-017	Lester Price Lake, single	Chesapeake Appalachia, L.L.C.	18.50%	1069/221	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jirmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-018	Nancy L. Hill, a.k.a. Nancy L. Sossoman, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of JUL	193.250000 DEIVED Oil and Gas 1 1 2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-019	Naomi Claudine Lake, single (James Lake, Randy Lake)	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608		193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-020	Randy Wayne Lake, single	Chesapeake Appalachia, L.L.C.	12.50%	·	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	R Office JUL	193.250000 ECEIVED of Oil and Gas 1 1 2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-021	Larry Jackson Shuttleworth, married, dealing in his sole and separate property (Mary M. Shuttleworth, Kathy Wildman, Robin Shuttleworth Sharp, Margaret Darr)	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	1065/579	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-022	Terry Roberts Shuttleworth, single, dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	·	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of JUL]	193.250000 Oil and Gas 1 2017 Dertment of Inial Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-023	Darrell L. Shuttlesworth, married, dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-024	Jimmy Eugene Lake, married, dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of	193.250000 Oil and Gas 11 2017 Department of Department of mential Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-025	Terry Wayne Lake, married dealing in his sole and separate property	Chesapeake Appałachia, L.L.C.	15.00%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-026	Vina Judith Ann Lake, single (Family Tree Corporation)	Chesapeake Appalachia, L.L.C.	15.00%	1065/564	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	JUL	193.250000 EIVED Oil and Gas I 1 2017 martment of mial Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
Ĩ	19-28-8	726260-027	Tawnya Ann Lake, single	Chesapeake Appalachia, L.L.C.	15.00%	1065/557	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake		193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-028	Edwin Merle Lake Jr., single	Chesapeake Appalachia, L.L.C.	15.00%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of JUL 1	193.250000 EIVED Oil and Gas 1 2017 Martmont of htal Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-029	Judy Stainbrook, married, dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-030	Carl L. Lake Jr., single (Black Gold Group, Ltd.)	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	REC Office of (JUL 1	193.250000 EIVED Dil and Gas 1 2017 artment of tel Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-031	Kenneth Leo Lake, Jr., single (Black Gold Group, Ltd.)	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8		William E. Lake and Joyce E. Lake, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	1066/206	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	jul 1	193.250000 EIVED Dil and Gas 1 2017 entmont of acti Protection
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8		Richard A. Lake Jr., married, dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	•	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
1	19-28-8	726260-034	Crystal Lake Bound, single	Chesapeake Appalachia, L.L.C.	12.50%	1067/121	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	BEC Office of JUL 1	EIVED Dil and Gas 1 2017
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
1	19-28-8	726260-035	Edwin L. Bunner and Sandra J. Bunner, husband and wife	, Chesapeake Appalachia, L.L.C.	12.50%	1066/508	Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	193.250000	193.250000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

EXHIBIT "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Edwin Bunner MRN 1H Marion County, West Virginia

					ъ.		Must describe The Parcel		Leased
19-28-8	726260-036	Michael R. Lake, single	Chesapeake Appalachia, L.L.C.	12.50%		Edwin L. Bunner and Sandra J. Bunner, Bernice E. Miller, Barbara A. Greene, Myron R. Miller, Richard T. Morgan, Jr., Richard Earl Hughes, Kenita K. Massaro and Eugene J. Massaro, Cathy Jo Kelley, Crystal D. Haynes, Lucille McKinney, Stephen Dwight Hughes, Pamela Rose Snyder, Jason Mulik, Chrystle Dawn Bolyard, Judith Jeanette Cline, Teresa Williams, Valerie D. Bolton, Lester Price Lake, Nancy L. Hill, a.k.a. Nancy L. Sossoman, Naomi Claudine Lake, Randy Wayne Lake, Larry Jackson Shuttleworth, Terry Roberts Shuttleworth, Darrell L. Shuttlesworth, Jimmy Eugene Lake, Judy Stainbrook, Kenneth Leo Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake	1068/608	RECI Office of C JUL 1	193.250000 EIVED Dil and Gas 1 2017 artment of tel Protection
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
19-29-19.5	726266-000	Virginia K. Bunner & Franklin T. Bunner	Chesapeake Appalachia, L.L.C.	12.50%	1062/689	Virginia K. Bunner & Franklin T. Bunner	925/354	2.452	2.452
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		40/862		2		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
		Statoil USA Onshore Properties, Inc.	SWN Production Company, LLC		48/610				
19-29-19.6	727397-000	Charles W. Rush Jr. and Margurette Ann Rush, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	1063/543	Franklin T. Bunner & Virginia K. Bunner	1098/515	2.452	2.452
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		40/862				
	19-29-19.5	19-29-19.5 726266-000	Chesapeake Appalachia, LL.C. 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Bunner Chesapeake Appalachia, LL.C. Chesapeake Appalachia, LL.C. Statoil USA Onshore Properties, Inc.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Chesapeake Appalachia, L.L.C. Bunner Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC Statoil USA Onshore Properties, Inc. SWN Production Company, LLC Statoil USA Onshore Properties, Inc. SWN Production Company, LLC 19-29-19.5 727397-000 Charles W. Rush Jr. and Margurette Ann Rush, husband and wife Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, LLC. SWN Production Company, LLC 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Chesapeake Appalachia, L.L.C. 12.50% Bunner Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Statoil USA Onshore Properties, Inc. SWN Production Company, LLC Statoil USA Onshore Properties, Inc. SWN Production Company, LLC Statoil USA Onshore Properties, Inc. SWN Production Company, LLC 19-29-19.6 727397-000 Charles W. Rush Jr. and Margurette Chesapeake Appalachia, L.L.C. 12.50%	19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Chesapeake Appalachia, LLC. SWN Production Company, LLC 12.50% 1062/689 Bunner Chesapeake Appalachia, LLC. Statoil USA Onshore Properties, Inc. 40/862 Chesapeake Appalachia, LLC. Statoil USA Onshore Properties, Inc. 40/862 Statoil USA Onshore Properties, Inc. 48/438 Statoil USA Onshore Properties, Inc. 5WN Production Company, LLC 19-29-19.6 727397-000 Charles W. Rush Jr. and Margurette Chesapeake Appalachia, LLC. 12.50% 19-29-19.6 727397-000 Charles W. Rush Jr. and Margurette Chesapeake Appalachia, LLC. 12.50%	Barbara A. Creane, Myron R. Miller, Richard T. Morgan, Jr., Richard Eart Mugher, Renia K. Massano and Eugene Jr. Massaro, Cathylo Kelley, Crystal D. Haynes, Luclle McKinnow, Stophon Dubyler, Stophon Dubyler, Lucle McKinnow, Stophon Dubyler, Lucle Multik, Chryste Dawn Bolyard, Judith Jeanette Clause, Taray V. Millian K. Elske and Joyce E. Lake, Richard A. Lake, Jr., William E. Lake and Joyce E. Lake, Richard A. Lake, Jr., Crystal Lake Bound, Michael R. Lake Cherapeake Appalachia, LLC. SWN Production Company, LLC 48/438 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Bunner Chesapeake Appalachia, LLC. Statoli USA Onshore Properties, Inc. 40/862 Chesapeake Appalachia, LLC. SWN Production Company, LLC 48/438 Virginia K. Bunner & Franklin T. Bunner 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Chesapeake Appalachia, LLC. 12.50% 1062/689 Virginia K. Bunner & Franklin T. Bunner 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Chesapeake Appalachia, LLC. 12.50% 1062/689 Virginia K. Bunner & Franklin T. Bunner 19-29-19.5 726266-000 Virginia K. Bunner & Franklin T. Bunner 40/862 48/438 19-29-19.5 Statoil USA Onshore Properties, Inc. 40/862 48/438 19-29-19.6 Zizzing Y. Zi	Barbara A. Green, Myron R. Miller, Richard T. Morgan, Ir., Richard T. Mages, Yosta D. Haynes, Lucille McClinon, Sayasson and Eugene J. Massaro, Cathy Jo Keller, Crystal D. Haynes, Lucille McClinon, Sayasson and Eugene McClinon, Sayasson and Eugene McClinon, Sayasson and Eugene J. Massaro, Cathy Jo Keller, Crystal D. Haynes, Lucille McClinon, Sayasson and Eugene McClinon, McClinon, Sayasson and Eugene McClinon, McClinon, Sayasson and Eu	Britar A. Green, Myron K. Miller, Richard T. Morgani, Handar M. Hander H. Marken M. K. S. Marken M. K. S. Marken M. K. Sander H. Marken M. K. Sander K. Sander H. Marken M. K. Sander K

EXHIBIT "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Edwin Bunner MRN 1H Marion County, West Virginia

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
		· · · · · · · · · · · · · · · · · · ·	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
			Statoil USA Onshore Properties, Inc.	SWN Production Company, LLC		48/610				
4	19-29-19.9	728608-000	Earl Franklin Huffman Jr. and Carol Ann Huffman, husband and wife	Chesapeake Appalachia, L.L.C.	12.5% (Oil) 15% (Gas)		Earl Franklin Huffman Jr. and Carol Ann Huffman, husband and wife	925/354	2.452	2.452
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		634/654	RECEIVED Office of Oil and Gas			
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438	JUL 11 2017 WV Department of Environmental Protection	רוי		
			Statoil USA Onshore Properties, Inc.	SWN Production Company, LLC		48/610				
5	19-29-19.4	723558-000	Earl V. Rush Jr. and Tammy S. Rush, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	1064/313	Earl V. Rush, Jr. & Tammy S. Rush	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
6	19-29-19.12	723558-000	Earl V. Rush Jr. and Tammy S. Rush, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	1064/313	Earl V. Rush, Jr. & Tammy S. Rush	1038/699	4.035	1.035
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
6	19-29-19.12	730921-002	Н3, ШС	Chesapeake Appalachia, L.L.C.	15.00%	1102/68	Earl V. Rush, Jr. & Tammy S. Rush	1038/699	4.035 4	1.035

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator

Edwin Bunner MRN 1H

Marion County, West Virginia

JUL 11 2017

WV Department of Environmental Protection

		1	1	Lessee	Bauntan	BK/PG	Surface Owner	Book/Page	Deeded Acreage	
Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty		Surrace Owner	Must describe The Parcel	Deeded Acreage	Leased
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
6	19-29-19.12	730921-001	Noble Royalty Access Fund VI LP and	Chesapeake Appalachia, L.L.C.	15.00%	1136/661	Earl V. Rush, Jr. & Tammy S. Rush	1038/699	4.035	4.035
0	19-29-19.12	/30522-001	Noble Royalty Access Fund VIII LP							
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
	19-29-19.3	728612-001	M. Ray Rush and Cynthia S. Rush,	Chesapeake Appalachia, L.L.C.	12.50% Oil	1067/748	Ray M. Rush & Cynthia S. Rush	1038/724	6.074	6.074
7	19-29-19.3	/28012-001	husband and wife	Chesapeane Appalacina, L.C.C.	15.00% Gas	1007/748		1030/724	0.074	0.074
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
	19-29-19.3	730921-002	H3, LLC	Chesapeake Appalachia, L.L.C.	15.00%	1102/68	Ray M. Rush & Cynthia S. Rush	1038/724	6.074	6.074
7	19-29-19.3	730921-002	n5, LLC		13.00%	1102/08		1030/724	0.074	0.074
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
								·- · ·		
		730921-001	Noble Royalty Access Fund VI LP and	Chesapeake Appalachia, L.L.C.	15.00%	1136/661	Ray M. Rush & Cynthia S. Rush	1038/724	6.074	6.074
7	19-29-19.3	/30921-001	Noble Royalty Access Fund VIII LP	спезареаке Арраіаспіа, г.с.с.	15.00%	1150/001		1030/724	0.074	0.074
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
	40.20.40.2	727442-001	Jason R. Higgins and Kelly J. Higgins,	Chesapeake Appalachia, L.L.C.	12.50% Oil	1066/559	Jason R. Higgins & Kelly J. Higgins, and Clifford W. Priest	443/244	12.355000	12.355000
8	19-29-19.2	/2/442-001	Jason R. Higgins and Kelly J. Higgins, husband and wife	спезареаке Арранасина, с.с.с.	12.50% Oli 15.00% Gas	2000/222	Pason in Higgins & Keny J. Higgins, and Childred W. Pliest	····)/244	12.333000	12.333000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
							L			<u></u>

EXHIBIT "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator Edwin Bunner MRN 1H

Marion County, West Virginia

JUL 1 1 2017

WV Department of

					-				Environmen	al Freiection
Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	
8	19-29-19.2	727442-002	Clifford W. Priest	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	1066/555	Jason R. Higgins & Kelly J. Higgins, and Clifford W. Priest	443/244	12.355000	12.355000
8	19-29-19.2	730921-002	H3, LLC	Chesapeake Appalachia, L.L.C.	15.00%	1102/68	Jason R. Higgins & Kelly J. Higgins, and Clifford W. Priest	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
8	19-29-19.2	730921-001	Noble Royalty Access Fund VI LP and Noble Royalty Access Fund VIII LP	Chesapeake Appalachia, L.L.C.	15.00%	1136/661	Jason R. Higgins & Kelly J. Higgins, and Clifford W. Priest	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
9	19-29-19	728598-001	Anita Geraldine Priest, single	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	1069/27	Anita G. Priest	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438	ала -			
9	19-29-19	730921-002	H3, LLC	Chesapeake Appalachia, L.L.C.	15.00%	1102/68	Anita G. Priest	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
9	19-29-19	730921-001	Noble Royalty Access Fund VI LP and Noble Royalty Access Fund VIII LP	Chesapeake Appalachia, L.L.C.	15.00%	1136/661	Anita G. Priest	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
	. <u></u>									

JUL 1 1 2017

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator

Edwin Bunner MRN 1H

Marion County, West Virginia

WV Department of Environmental Protection

1

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	
10	19-29-19.1	727394-001	Earl V. Rush Jr. & Tammy S. Rush, husband and wife	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	1066/345	Earl V. Rush, Jr. & Tammy S. Rush	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
10	19-29-19.1	730921-002	НЗ, ЦС	Chesapeake Appalachia, L.L.C.	15.00%	1102/68	Earl V. Rush, Jr. & Tammy S. Rush	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
10	19-29-19.1	730921-001	Noble Royalty Access Fund VI LP and Noble Royalty Access Fund VIII LP	Chesapeake Appalachia, L.L.C.	15.00%	1136/661	Earl V. Rush, Jr. & Tammy S. Rush	443/244	12.355000	12.355000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
11	19-30-1.1	730609-000	I. L. Morris and Mike Ross Inc.	Chesapeake Appalachia, L.L.C.	12.50% Oil 15.00% Gas	1073/240	John R. Merrifield & Christie G. Merrifield	1141/663	15.71	15.710000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
12	19-30-18	723621-000	Richard Randolph Bunner and Martha Lou Bunner, husband and wife (Noble Marcellus, LP)	Chesapeake Appalachia, L.L.C.	12.50%	1021/582	Robert E. Carpenter & Karla M. Carpenter	1131/402	35.2900	35.290000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator

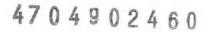
Edwin Bunner MRN 1H

Marion County, West Virginia

JUL **11 2017**

WV Department of Environmental Protection

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Surface Owner	Book/Page Must describe The Parcel	Deeded Acreage	Leased
13	19-30-18.3	723621-000	Richard Randolph Bunner and Martha Lou Bunner, husband and wife (Noble Marcellus, LP)	Chesapeake Appalachia, L.L.C.	12.50%	1021/582	Richard R. Bunner & Martha L. Bunner	1131/405	1.4200	1.420000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
14	19-30-18.4	723621-000	Richard Randolph Bunner and Martha Lou Bunner, husband and wife (Noble Marcellus, LP)	Chesapeake Appalachia, L.L.C.	12.50%	1021/582	Richard R. Bunner & Martha L. Bunner	944/669	3.5400	3.540000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				
15	19-31-3	728651-000	Robert E. Ferrell and Janet B. Ferrell, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	1069/838	Robert E. Ferrell & Janet B. Ferrell	968/918	22.0550	22.055000
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		48/438				





SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

June 26, 2017

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Edwin Bunner MRN 1H in Marion County, West Virginia, Drilling under White Dry Creek- Brand Road, Pricketts Creek- Bunner Ridge Road, and Mudlick Run Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under White Dry Creek- Brand Road, Pricketts Creek- Bunner Ridge Road, and Mudlick Run Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Boston Smith Staff Landman SWN Production Company, LLC PO Box 12359 Spring, TX 77391-2359

RECEIVED Office of Oil and Gas

4704902460

JUL 1 1 2017

WV Department of Environmental Protection

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, 09/22/2017

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 7000-

API No. 47-049 -Operator's Well No. Edwin Bunner MRN 1H Well Pad Name: Edwin Bunner Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	wv	UTM NAD 83	Easting:	586496.120	
County:	49-Marion	UTMINAD 83	Northing:	4368549.345	
District:	Winfield	Public Road Acc	ess:	Bunner Ridge Road	
Quadrangle:	Gladesville	Generally used fa	arm name:	Edwin Bunner	
Watershed:	Monongahela River				

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article by the applicant.

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or	erator has attached proof to this Notice Certification d parties with the following: NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	OOG OFFICE USE ONLY
□ 2. NOTICE OF ENTRY FOR PLAT SURV		
□ 3. NOTICE OF INTENT TO DRILL or	RECEIVED/ NOT REQUIRED	
	□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
☐ 4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	C RECEIVED
□ 5. PUBLIC NOTICE	JUL 1 1 2017	RECEIVED
\Box 6. NOTICE OF APPLICATION	□ RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I _______, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator; SWN Production Co., LLC	Address:	P.O. Box 1300
By:		Jane Lew, WV 26378
Its:	Facsimile:	
Telephone: 304-884-1614	Email:	Dee_Southall@swn.com
Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road	ubscribed and swo 201100000 R by Commission E	orn before me this 20th day of <u>June 2011</u> . <u>Mody</u> Notary Public xpires <u>IMP</u>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

RECEIVED Office of Oil and Gas

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JUL 1 1 2017

WV Department of Environmental Protection

09/22/2017

WW-6A (9-13)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

	e of Notice: 7,10,17	Date Permit Applica	ation Filed: TIDD				
7	PERMIT FOR ANY WELL WORK		CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT				
Deli	ivery method pursuant	to West Virginia C	ode § 22-6A-10(b)				
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION				
Dure	want to W Va Code S 2	64 10(b) no later th	an the filing date of the application, the applicant for a permit for any well w				

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Z Application Notice Z WSSP Notice Z E&S Plan Notice Z Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE /
Name: Edwin Bunner	Name: Edwin Bunner
Address: 2035 Bunner Ridge Road	Address: 2035 Bunner Ridge Road
Fairmont, WV 26554	Fairmont, WV 26554
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment #1
Name:	Address:
Address:	Construction of the second
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
BECEIVED	*Please attach additional forms if necessary
Office of Oil and	d Gas
UR 112	617
JOLITIC	

Edwin Bunner MRN Pad - Water Purveyors w/in 1500' Sources

.

Landowner

Edwin & Sandra Bunner Misty Fluharty Earl & Tammy Rush Luella Robe Sally Donaldson Claudia Fortney

Address

2035 Bunner Ridge Road, Fairmont, WV 26554 1 Well 2854 Portfield Road, Richmond, IN 47374 1 Well 332 White Day Creek Road, Fairmont, WV 26554 1 Spring 2108 Bunner Ridge Road, Fairmont, WV 26554 1 Spring 63 Mingo Lane, Fairmont, WV 26554 1 Well 12574 Butler Mill Road, Lapine, AL 36046 1 Well

4704902460 RECEIVED Office of Oil and Gas

JUL 1 1 2017

WV Department of Environmental Protection WW-6A (8-13) RECEIVED Office of Orland Gas

JUL 1 1 2017

Notice is hereby given:

WV Department of the set

Well Pad Name: Edwin Bunner Pad

API NO. 47- 049

OPERATOR WELL NO. Edwin Bunner MEN 1H

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W, Va. Code R, § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items



WW-6A (8-13)

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

09/22/2017

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv:gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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09/22/2017

WW-6A	API NO. 47- 049 -
(8-13)	OPERATOR WELL NO. Edwin Bunner MRN 1H
	Well Pad Name: Edwin Bunner Pad
Notice is hereby given by:	
Well Operator: SWN Production Co., LLC	Address: P.O. Box 1300
Telephone: 304-884-1614	Jane Lew, WV 26378
Email: Dee_Southall@swn.com	Facsimile:

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elikins Road Buckhannon, WV 26201 My commission expires November 27, 2022
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Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Re	quirement: Notic	e shall be provided at least TEN (10) days prior to	filing a n	ermit application.
Date of Notice:	06/21/2017	ce shall be provided at least TEN (10) days prior to Date Permit Application Filed:	1017	BECEIVED
			C. D. C.	Office of Oil and Gas

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Edwin Bunner		Name:
Address: 2035 Bunner Ridge Road	1	Address:
Fairmont, WV 26554	6	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD
County:	Marion	
District:	Winfield	Public Road
Quadrangle:	Gladesville	Generally us
Watershed:	Whiteday Creek	

	Easting:	586,496.2	6.2 549.3 r Ridge Road
83	Northing:	4,368,549.3	
Access:		Bunner Ridge Road	
ed i	farm name:	Edwin Bunner MRN	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Randy Orsburn
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-884-1645	Telephone:	304-884-1645
Email:	Randy_Orsbum@swn.com	Email:	Randy_Orsburn@swn.com
Facsimile:	304-884-1691	Facsimile:	304-884-1691

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/21/2017 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff, at the time of notice):

Name: Edwin Bunner	Name:
Address: 2035 Bunner Ridge Road	Address:
Fairmont, WV 26554	
	4

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83 East	sting:	586,496.2	-
County:	Marion	UTMINAD 83 No	orthing:	4,368,549.3	
District:	Winfield	Public Road Access:		Bunner Ridge Road	
Quadrangle:	Gladesville	Generally used farm	name:	Edwin Bunner MRN	
Watershed:	Whiteday Creek				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	
Telephone:	304-884-1645		Jane Lew, WV 26378	
Email:	Randy_Orsbum@swn.com	Facsimile:	304-884-1691	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <u>depprivacyofficer@wv.gov</u>.

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WW-6A5 (1/12)



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice Governor Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

June 27, 2017

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Edwin Bunner Pad 1H Well Site, Marion County

47-049-02460

Dear Mr. Martin,

The West Virginia Division of Highways transferred Permit #06-2011-0205 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Marion County Route 84 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Cc: Brittany Woody Southwestern Energy CH, OM, D-4 File

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Product Name	Product Use	Chemical Name	CAS Numb
		Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion	Scale Inhibitor	Methanol	67-56-1
Technologies)		Nonylphenol Ethoxylate	Proprietar
		Glutaraldehyde	111-30-8
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
reciniciogies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-
		Methanol	67-56-1
A264 (Schlumberger)	Corrosion	Aliphatic Acids	Proprietan
	Inhibitor	Prop-2-yn-1-ol	107-19-7
		Aliphatic Alcohols, Ethoxylated #1	Proprietar
Myacide GA 25 (Schlumberger)	Biocide	Water	7732-18-5
		Glutaral	111-30-8
icale Inhibitor B317 (Schlumberger)	Scale Inhibitor	Trisodium Ortho Phosphate	7601-54-9
Carlo ministron Dorry (Schalmbergery		Ethane-1,2-diol	107-21-1
H215 (Schlumberger)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
J218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
EB-Clean* J475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
Water Gelling Agent J580 (Schlumberger)	Gel	Carbohydrate Polymer	Proprietary
Friction Reducer J609W	Friction	Ammonium Sulfate	7783-20-2
(Schlumberger)	Reducer	Urea	57-13-6
Crosslinker J610 (Schlumberger)	Crosslinker	Potassium Hydroxide	1310-58-3
	er obsiniter	Aliphatic Polyol	Proprietary
Iron Stabilizer L58 (Schlumberger)	Iron Stabilizer	Sodium Erythorbate	6381-77-7
40/70-Mesh Sand S012 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
Sand S100 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
SSA-2 (Halliburton)	Sand	Crystalline Silica	14808-60-7
FR-76 (Halliburton)	Friction Reducer	Inorganic salt Hydrotreated light petroleum distillate	64742-47-8
LCA-1 (Halliburton)		Hydrotreated light petroleum distillate	Proprietary
SP BREAKER (Halliburton)	Breaker	Sodium Persulfate	7775-27-1

09/22/2017

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Product Name	Product Use	Chemical Name	CAS Number
HAI-150E (Halliburton)	Corrosion Inhibitor	Methanol	NA
		Aliphatic Acids	
		Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	
Hydrochloric Acid 10-30% (Halliburton)		Hydrochloric Acid	7647-01-0
WG-36 Gelling Agent (Halliburton)	Gel	Polysaccharide	9000-30-0
BC-140C (Halliburton)	Crosslinker	······································	NA

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