

## 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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, June 11, 2018 NOTICE OF RETURNED PERMIT APPLICATION Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Returned well work permit application for ROBERT BONE BRK 210H

47-009-00201-00-00

# SWN PRODUCTION COMPANY, LLC (A)

Please be advised that the Office of Oil and Gas is returning your Well Work Permit Application for the above referenced well. If you wish to reapply, please complete and submit new forms including a Mylar plat. A new U.S. Well Number will be associated with any subsequent well work applications.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: ROBERT BONE BRK 210H

Farm Name: BONE, ROBERT

U.S. WELL NUMBER: 47-009-00201-00-00

Horizontal 6A New Drill Date Returned: 6/11/2018

Promoting a healthy environment.

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

I) Well Operat	tor: SWN Prod	luction Co., LLC	49447757	009-Brooke	3- Buffals 247-Bethany
			Operator ID	County	District Quadrangle
2) Operator's V	Well Number: R	obert Bone BRK	210H Well Pa	d Name: Robe	rt Bone BRK PAD
3) Farm Name	Surface Owner:	Robert Bone	Public Ro	ad Access: Hul	kill Run Road
4) Elevation, c	urrent ground:	1148' E	levation, proposed	post-constructi	on: 1148'
5) Well Type	(a) Gas X Other	Oil	Und	lerground Storag	ge
	(b)If Gas Sh	allow x	Deep		
		prizontal X		d	DRO 10.18 17
	d: Yes or No ye				
<ol> <li>Proposed To Terpetformation</li> </ol>	arget Formation( - Marcelus, Down-Dp We	s), Depth(s), Antic of to the South, BHL Target t	ipated Thickness op 5885 TVD SHL Torget to	and Associated me 6008 TVD, American	Pressure(s): ed Thickness 23', Associated Pressure 3505 psi
8) Proposed To	otal Vertical Dep	th: 5997'			
9) Formation a	t Total Vertical	Depth: Marcellu	s		
10) Proposed	Total Measured I	Depth: 17031'			
11) Proposed I	Horizontal Leg L	ength: 10213.4			
12) Approxim	ate Fresh Water	Strata Depths:	3441		
13) Method to	Determine Fresh	Water Depths:	Salinity Profile		
14) Approxim	ate Saltwater De	pths: 627 Salini	ty Profile at top of	high salinity sa	ndstone
15) Approxim	ate Coal Seam D	epths: 309'			
16) Approxim	ate Depth to Pos	sible Void (coal m	ine, karst, other):	309' Possible	void
		on contain coal sea o an active mine?	ms Yes	No	×
(a) If Yes, pr	ovide Mine Info	: Name:			
		Depth:			
		Seam:			

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API NO. 47-909 - 00 301

OPERATOR WELL NO. PROMETER BINGSTON

Well Pad Name: Rather Bone BRK PAD

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20°	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8*	New	H-40	48#	400'	400"	392 sx/CTS
Coal	9.5/8*	New	J-55	36#	1643'	1643"	534 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	17,031'	17,031'	was till as belong and room room
Tubing	2 3/8*	New	HCP-110	4.7#	Approx. 5871'	Approx. 5871'	-
Liners							
	_					1	1

C. Sel 10-19-17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners						-	

#### PACKERS

Kind:	10K Arrowset AS1-X	
Sizes:	5 1/2"	
Depths Set:		

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API NO. 47-669 - 66210

OPERATOR WELL NO. Robert Bone BRK 210H
Well Pad Name: Robert Bone BRK PAD

19	) Describe ¡	proposed	well w	ork.	including	the drilling	and r	lugging	back of	any pilot	hole:
	, , , , , , , , , , , , , , , , , , , ,	Droboo -		. ~		**** *******	,			waa, paace	

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):
- 22) Area to be disturbed for well pad only, less access road (acres):
- 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 Page 3 of 3





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

April 3, 2017

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

RE: Proposed New Well Robert Bone BRK 210H

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 Bones's property, in Buffalo District, Brooke County, West Virginia.

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

Thank you.

Sincerely,

Dee Southall Regulatory Supervisor Southwestern Energy Production Company, LLC PO Box 1300 Jane Lew, WV 26378

> REGEIVED Office of Oil and Gas

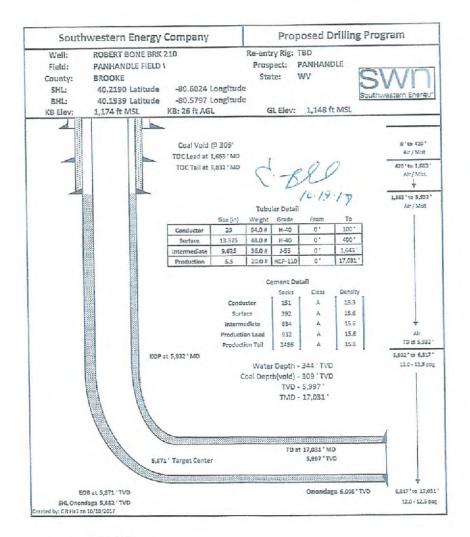
> > APR 2 4 2017

**Schlumberger Cement Additives** 

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4
<u> </u>	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
g Of	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
ad	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tio	D201	retarder	metal oxide	propriatary
onpo			sulphonated synthetic polymer	propriatary
Pro	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
<u> </u>			sodium polynaphthalene sulfonate	9008-63-3
-T	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail			chrystalline silica	14808-60-7
onp	D201	retarder	metal oxide	propriatary
Prc	D153	anti-settling	chrystalline silica	14808-60-7

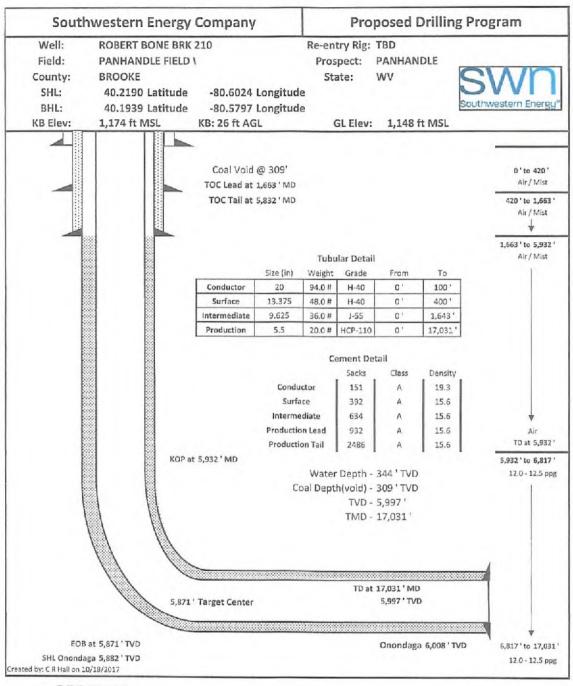
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API Number 47 - 009 - 00201 Operator's Well No. Robert Bone BRK 210H

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Company, LLC	OP Code 494512924
Watershed (HUC 10) Buffalo Creek	Quadrangle Bethany
Do you anticipate using more than 5,000 bbls of water to complet	te the proposed well work? Yes V No No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: closed loop	system in place at this time- cuttings will be taken to a permitted landfill
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	4.5
Underground Injection (UIC Permit N Reuse (at API Number at next anticipated	Number ) well, API # will be included with the WR-34/DDMR &/or permit addendum )
Off Site Disposal (Supply form WW-	
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. ax dru to KOP thad and with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. synthetic	netic oil base
Additives to be used in drilling medium? see attached sheets	
Drill cuttings disposal method? Leave in pit, landfill, removed of	fsite, etc. landfill
-If left in pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust)
-Landfill or offsite name/permit number? monagew SWF-1032, SS gr Argen Langfill 1UU/2, American U2-12954, Count Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided we where it was properly disposed.	s of any load of drill cuttings or associated waste rejected at any
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally eapplication form and all attachments thereto and that, based of	Office of Oil and Gas
Company Official Title Regulatory Supervisor	APR 2 4 2017
210	Notary Public, State of West Virginia  Notary Public, State of West Virginia  BRITTANY R WOODY  3302 Old Elkins Road  Buckhannen, WV 26201  Buckhannen, WV 26201

SWN Production Company, LLC			
Proposed Revegetation Treatment: Acres Distu	irbed 14-14	Prevegeta	tion pH
Lime as determined by pH test min. 2 Tons/acre or			
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/acre		
Mulch_ Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary			Permanent
Seed Type lbs/acre **See Attachment		Seed Type	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area provided). If water from the pit will be land appacreage, of the land application area.  Photocopied section of involved 7.5' topograph  Plan Approved by:	blied, include dimensions (L	s engineered plan: x W x D) of the p	s including this info have been bit, and dimensions (L x W), and area
oil and gas inspector		4.20.17	REGENTER Office of Oil and Gas
Title: oil and gas inspector	Date:	7.20.17	APR 24 2017
Field Reviewed? () Yes	() No		WV Department of Environmental Protection



# **WVD Seeding Specification**



To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi eddy@swn.com

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES				
Seed Mixture: ROW Mix	SWI	N Supplied		
Orchardgrass	40%			
Timothy	15%			
Annual Ryegrass	15%			
Brown Top Millet	5%			
Red Top	5%			
Medium Red Clover	5%	All legumes are		
White Clover	5%	innoculated at 5x normal		
Birdsfoot Trefoil	5%	rate		
Rough Bluegrass	5%			
Apply @ 100lbs per acre April 16th- Oct. 14th	0	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat		

SOIL AIVIENDIVIENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
	*unless otherwise dictated by soil test results

SEEUI	ng calculation information.
1452	of 30' ROW/LOD is One Acre
871'	of 50' ROW/LOD is One Acre
622'	of 70' ROW/LOD is One Acre

7	O
A STATE OF THE STA	-
synopsis:	

m

COU ADJENIDAJENITE

Every 622 linear feet in a 70 kOW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of feet dizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat according to 100 km and 10

# Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES		
Seed Mixture: SWN Production Organi	c Mix	SWN Supplied
Organic Timothy	50%	
Organic Red or White Clover	50%	
OR		
Organic Perennial Ryegrass	50%	
Organic Red or White Clover	50%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre
April 16th- Oct. 14th	Oct. 15th- April 15th

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

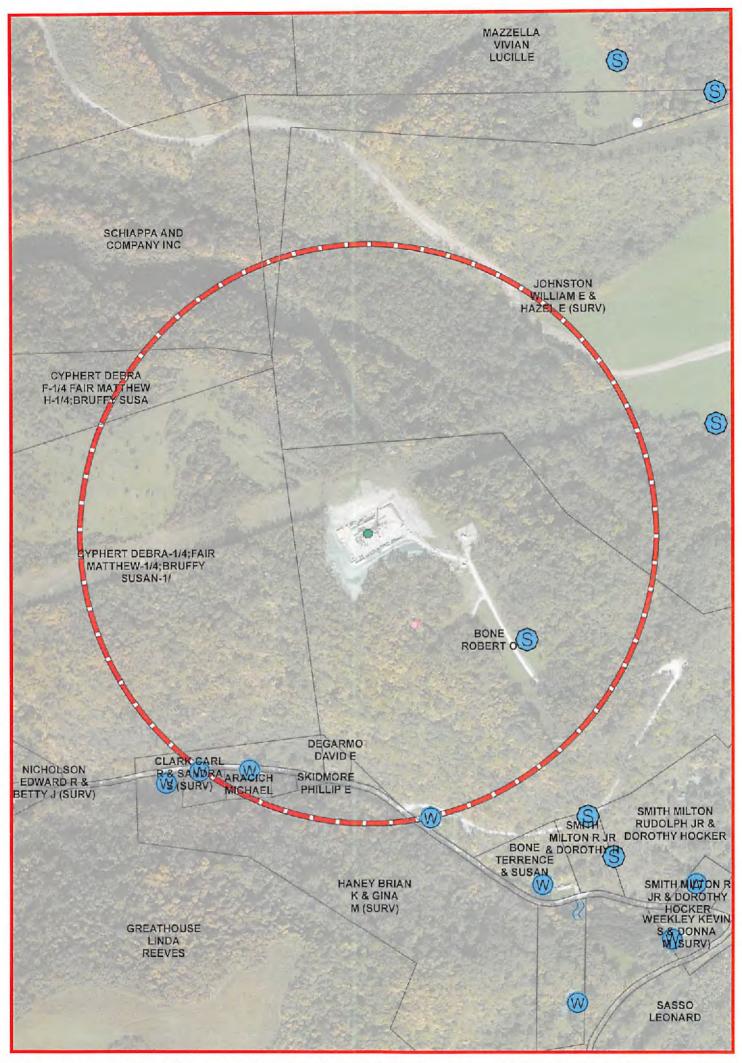
API NO. 47-XXX-XXXXX
WELL NAME: Robert Bone BRK 210H
Bethany QUAD
Buffalo DISTRICT
Brooke COUNTY, WEST VIRGINIA

Submitted by:		
Dee Southall	Date:	4/3/2017
Title: Regulatory Supervisor	SWN F	Production Co., LLC
Approved by:	Date:	4.2017
Title: Oil & Gry Inget	_	
Approved by:		
	_ Date:	-
Title:	_	

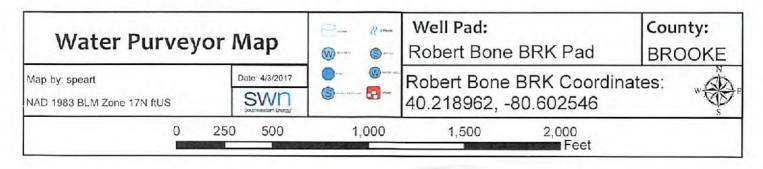
SWN PRODUCTION COMPANY, LLC

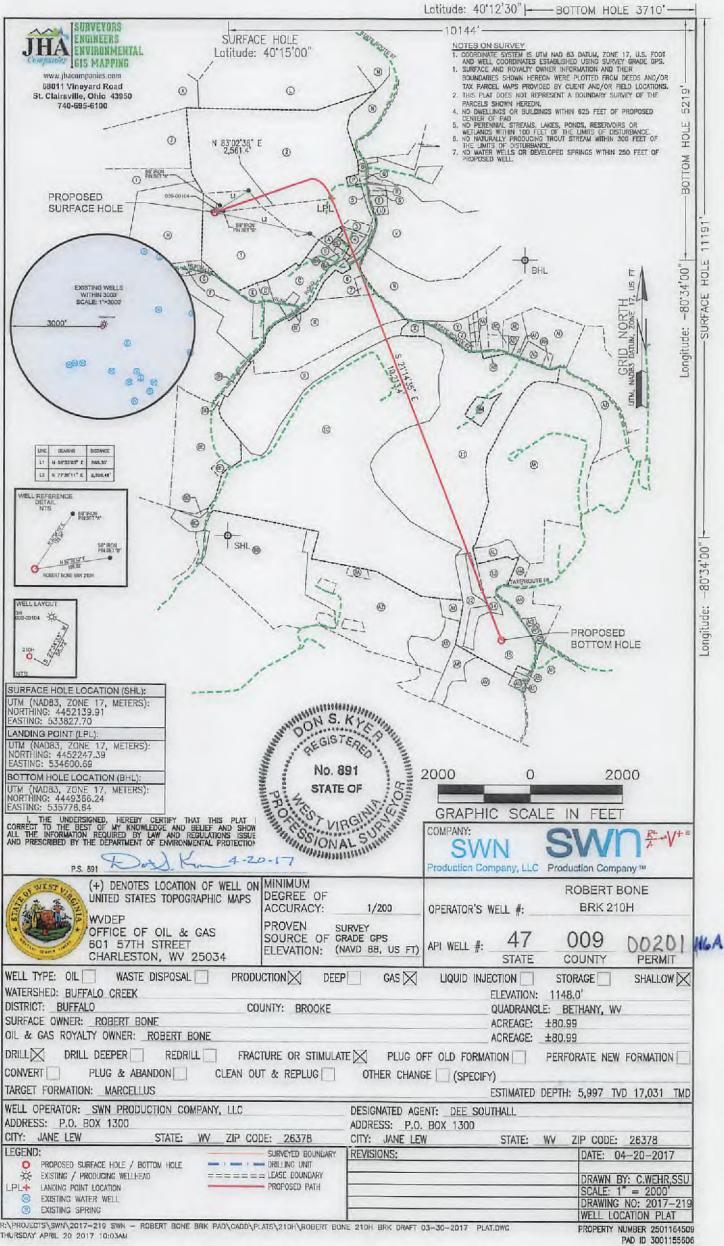
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The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.





	WELL BORE TABLE FOR SURFACE / ROYALTY	OWNERS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ROBERT O. BONE (S) ROBERT O. BONE (R)	03-0837-0081,0000	81.99
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON (SURV.)	03-0837-0050.0000	166.50
3	JOSEPH K. BOWMAN AND GLORIA JEAN BOWMAN, HUSBAND AND WIFE (SURV)	03-0837-0070.0000	3.30
4	JOSEPH K. BOWMAN AND GLORIA JEAN BOWMAN, HUSBAND AND WIFE (SURV)	03-0837-0069,0001	3.40
5	WILDA L, RIPLEY (LIFE ESTATE), JOHN E, RIPLEY AND SHERRILL J, RIPLEY (REMAINDERMEN)	03-0937-0062,0000	95.40
6	THEODORE W. BUNNELL	03-0837-0068.0000	13.10
7	LOTHIE KEITH, SINGLE	03-0837-0067.0000	1.50
8	LPS INVESTMENT PARTNERSHIP	03-0837-0066,0000	55.00
9	ELLEN B. SANFORD	03-0837-0076,0000	65.00
10	LABELLE FARMS INC.	03-0842-0060,0000	349.88
11.	ELLEN B. SANFORD	03-0838-0056,0000	203.93
12	WINDSOR POWER HOUSE COAL CO.	03-0842-0048,0000	17.58
13	MARY WELLS CHAMBERS, WIDOW	03-0843-0014.0000	11.25
14	WINDSOR POWER HOUSE COAL CO.	03-0B43-0016.0000	10.74
15	JOYCE ANN MCGEEHAN	03-0843-0017.0000	45.47

m a min	ADJOINING OWNERS TABLE	THE PARTY	1000
RACT	SURFACE OWNER	TAX PARCEL	ACRE
A	WILLIAM E. JOHNSTON AND HAZEL E. JOHNSTON, JTWROS, CAROLE SILVER AND WOODROW W. SILVER, JR. (LIFE ESTATE), PAULA KAY SILVER (LIFE ESTATE)	03-0837-0071,0000	2.36
В	WILLIAM E. JOHNSTON & HAZEL E. BERTY JOHNSTON (SURV.)	03-0B37-0074.0001	4,10
C	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-0837-0074.0000	24.41
D	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-0B37-0079,0000	2.17
		200 100 DECEMBER	
E	TERRENCE BONE & SUSAN BONE	03-0837-0080.0000	2.58
F	BRIAN K. HANEY & GINA M. HANEY (SURV.)	03-0B37-0077.0000	45.75
G	VEMURI HOME & GARDENS LLC.	03-0B37-0082.0000	1.00
Н	DEBRA CYPHERT; MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-0837-0088.0000	59.95
1	DEBRA CYPHERT; MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-0837-0091.0000	93,93
J	SCHIAPPA AND COMPANY INC.	03-0837-0023.0000	90.91
K	SCHIAPPA AND COMPANY INC.	03-0837-0022,0000	145.96
L	VIVIAN LUCILLE MAZZELLA	03-0B37-0045.0000	110.58
M	VEMURI DWARKA NATH DBA AMERICAN HEART ASSOCIATES BONNIE LEE LUKACENA, SHELBY CARRELL, SHAYNE SCHUETZNER, SHANON SCHUETZNER, SHEY SCHUETZNER, CHERI SHARPE, JOHN	03-0837-0047,0000	16.93 81.50
0	THOMAS RODGERS, PAIGE ELIZABETH ROLLINS WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON	03-0837-0053.0001	1.33
Р	BUFFALO CREEK CAMP	03-0837-0051,0000	1.00
Q	MARLIN G. CRAWFORD SR. AND JOY CRAWFORD, HIS WIFE	03-0B37-0055.0000	1.33
R	ERVIN COWAN, RICHARD COWAN, DIANE E. DIGHT, JODY TENNANT	03-0B37-0056.0000	1.11
S	JEREMY S. PERSINGER	03-0837-0057.0000	1.07
T	TRAVIS POLEN	03-0837-0059.0000	1.84
U	JOHN E. RIPLEY & SHERRILL J. RIPLEY	03-0B37-0061.0000	1.30
٧	WILDA L. RIPLEY (LIFE ESTATE) JOHN E. RIPLEY & SHERRILL J. RIPLEY (REMAINDERMEN)	03-0837-0062,0000	95.40
W	MELMIN E. PELUCHETTE	03-0837-0063,0000	109.39
X	JOHN B. DAUGHERTY	03-0B37-0065,0000	3.20
Y	ESTATE OF SHAWN C. ARACICH, DECEASED	03-0837-0064.0000	B.30
Z	LESUE ELSON & GAYLENE ELSON	03-0838-0055,0000	0,47
_			
AA	LESUE ELSON & GAYLENE ELSON	03-0838-0048,0000	0.48
AB	PENNY MARIE STUMPF	03-0838-0057.0000	1,38
AC	MATTHEW T. NICHOLSON	03-0838-0043,0000	0.86
AD	MARK T. NICHOLSON & KIMBERLY J. NICHOLSON	03-0838-0042,0001	1.23
AE	ROY T. NICHOLSON	03-0B38-0042,0000	5.08
AF	ROY T. NICHOLSON	03-0838-0041.0000	0.02
AG	AMY LYNNE RICE	03-0838-0040,0000	4,35
AH	GEORGE SCOTT RICE	03-0B38-0039,0000	1,00
Al	TERRY P. THOMPSON & KAREN THOMPSON	03-0838-0038.0000	22.20
AJ	BETHANY COLLEGE	03-0838-0031.0000	822.2
AK			-
	BETTIE BECK LEGNETTI (DECEASED)	03-0643-0005,0000	191.2
AL	WINDSOR POWER HOUSE COAL CO.	03-0843-0015,0000	5.74
AM	MARY WELLS CHAMBERS	03-0843-0013,0000	3.77
AN	JOYCE ANN MCGEEHAN	03-0843-0017,0000	45.43
AO	JOYCE ANN MCGEEHAN	03-0843-0017.0001	1.00
AP	THOMAS AND CHERYL FLAHERTY	03-0843-0024,0000	0.96
ACI	HILLARY SAYRE	03-0B43-0023.0000	1.25
AR	BRIAN DAVID CORWIN	03-0843-0022.0000	146.2
AS	SILVEA MAZZELLA MAZZELLA	03-0843-0018.0000	1.00
AT	MARION PYLE STONE	03-0843-0019.0000	1.00
AU	MARION PYLE STONE	03-0843-0020.0000	1.9
AV	WILLIAM BRITT COX	03-0843-0021.0000	44.7
AW	THURMAN O. SPEECE JR., & COLDIE M. STANLEY	03-0842-0044,0000	8,5
AX	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	C3-0B42-0045.0000	14.2
AY	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	03-0842-0047.0000	4.10
AZ	THURMAN O. SPEECE JR., & COLDIE M. STANLEY	03-0842-0045,0000	89.1
BA	THURMAN O. SPEECE JR., & JASON SPEECE		2.00
		03-0842-0045,0001	
BB	JEFFREY S. WARD & DAWNA J. WARD	03-0842-0059.0004	
BC	AUSTIN WAYNE WARD & JUSTINE ADAH WADE	03-0842-0050,0000	4.9
BD	AUSTIN WAYNE WARD & JUSTINE ADAH WADE	03-0842-0060,0001	0.6
BE	JAMES & JO ELLEN HAIZLETT	03-0B42-0060.0002	65.4
BF	WILLIAM A. HAIZLETT & LYNNETTE G. HAIZLETT, JTWRS	03-0842-0060.0003	1.7
BG	EDGAR S. ERDMAN & CECELIA M. ERDMAN	03-0842-0049.0000	0.83
BH	LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON	03-0837-0087,0000	-
BI			
	WILLIAM A. SPERRINGER, III & JENNA L. SPERRINGER (SURV.)	03-0837-0078.0000	
BJ	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON	03-0837-0069,0000	
BK	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON, JTWROS WILLIAM E. JOHNSTON, AND HAZEL E. JOHNSTON, JTWROS, CAROLE	03-0837-0073.0000	
	SILVER AND WOODROW W. SILVER, JR. (LIFE ESTATE), PAULA KAY	03-0837-0072,0000	1,40

47-009-0020144A

REVISIONS:	COMPANY:	SWN Production Company, LLC		-11
	OPERATOR'S WELL #:	ROBERT BONE BRK 210H		DATE: 04-20-2017  DRAWN BY: C.WEHR,SSU
	DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 2017-219 WELL LOCATION PLAT

WW-6A1 (5/13) Operator's Well No. ROBERT BONE BRK 210H

# 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

# 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

RECEIVED Office of Oil and Gas

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces for 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 Difficulty of

Well Operator:	SWN Production Co., LLC	17
By:	Macy Mallace	
Its:	Staff Lundman	

Page 1 of

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, LLC., Operator Robert Bone BRK 210H

Brooke County, West Virginia							
ACE OWNER	DEEDED ACREAGE	LEASE#	LESSOR	LES			
	81 99	1-264326-000	Robert O Rone married	Chesaneake Anna			

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE#	LESSOR	LESSEE	ROYALTY	BK/PG
<u>:</u>	03-0837-0081-0000-0000	Robert O. Bone	81.99	1-264326-000	Robert O. Bone, married	Chesapeake Appalachia, LLC	14.00%	10/424
•	03 0007 0002 0000 0000		02.55	2 20 1520 000	nosert or some, marries	SWN Production Company, LLC	24.00%	30/480
_			166.7	720062 004	1-1-11-2			
)	03-0837-0050-0000-0000	William E. Johnston & Hazel E. Johnston (Surv)	166.5	730062-001	John L Latimer and Angela Latimer,	Great Lakes Enegry Partners, LLC		
					husband and wife, and Deborah S. Starr, single		4 4 000/	0/740
					Single		14.00%	9/713
						Range Resources - Appalachia, LLC		20/733
	•					Chesapeake Appaiachia, LLC		10/552
						SWN Production Company, LLC		30/480
					William E. Johnston and Hazel E.	Chesapeake Appalachia, LLC		
				730576-001	Johnston, husband and wife		18.00%	12/298
						SWN Production Company, LLC		30/480
3)	03-0B37-0070-0000-0000	Joseph K. Bowman and Gloria Jean Bowman,	3.296	732627-000	Joseph K. Bowman and Gloria Jean	Chesapeake Appalachia, LLC	14.00%	20/56
		husband and wife (Surv)			Bowman, husband and wife			
						SWN Production Company, LLC		30/480
.)	03-0B37-0069-0001-0000	Joseph K. Bowman and Gloria Jean Bowman,	3.403	731784-000	Joseph K. Bowman and Gloria Jean	Chesapeake Appalachia, LLC	18.00%	15/619
		husband and wife (Surv)			Bowman, husband and wife			
						SWN Production Company, LLC		30/480
)	03-0837-0062-0000-0000	Wilda L Ripley (Life Estate)	95.40	732190-001	Wilda L. Ripley (Life Estate)	Chesapeake Appalachia, LLC	18.00%	14/575
		John E. Ripley and Sherrill J. Ripley			John E. Ripley and Sherrill J. Ripley			•
		(Remaindermen)			(Remaindermen)	SWN Production Company, LLC		30/480
5)	03-0837-0068-0000-0000	Theodore W. Bunnell	13.1	732905-000	Theodore W Bunnell, single	Chesapeake Appalachia	18.00%	22/602
					· -	SWN Production Company, LLC		30/480
')	03-0837-0067-0000-0000	Lothle Keith, Single	1.5	pending	Lothie Keith, single	SWN Production Company, LLC	14.00%	32/632
)	03-0837-0066-0000-0000	LPS Investment Partnership	65.00	pending	LPS Investment Partnership	SWN Production Company, LLC	16.00%	32/737
<u>;</u>	03-0837-0076-0000-0000	Ellen B. Sanford	66.00	732970-001	Jo Ellen Sanford Haizlett and James Alan		18.00%	23/577
•					Haiziett	SWN Production Company, LLC		30/480
				732970-002	Ann Sanford Paull and Stephen B. Paull	Chesapeake Appalachia, LLC	18.00%	23/579
					Ellen B. Sanford, widow	SWN Production Company, LLC		30/480
				732970-003		Chesapeake Appalachia, LLC	18.00%	23/581
					Harry Estil Sanford, single	SWN Production Company, LLC		30/480
				732970-004		Chesapeake Appalachia, LLC	18.00%	23/583
					Evelyn Hill Sanford Chehi and Robert D.	SWN Production Company, LLC		30/480
				732970-005	Chehi	Chesapeake Appalachia, LLC	18.00%	23/521
						SWN Production Company, LLC		30/480
.0)	03-0842-0060-0000-0000	Labelle Farms INC.	349.88	745009-000	CHK-MAC, LLC	Chesapeake Appalachia, LLC	15.00%	28/641
	<u>"</u>					SWN Production Company, LLC		31/288
	₹	0						
	₹ ≥	O#						

REGEIVED ice of Oil and Gas / Department of nmental Protection APR 2 4 2017

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oll and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator Robert Bone BRK 210H

Brooke County, West Virginia

11)	03-0B38-0056-0000-0000	Ellen B. Sanford	203.93	732970-005	Robert D. Chehi and Eveleyn Hill Sanford	Chesapeake Appalachia, L.L.C.	18.00%	23/521
	,				Chehl, husband and wife	SWN Production Company, LLC		30/480
				732970-002	Stephen B. Paull and Ann Sanford Paull, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/579 30/480
				732970-004	Harry Estil Sanford, Single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/583 30/480
				732970-001	James Alan Haizlett and Jo Elien Haizlett, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/496 30/480
				732970-003	Ellen B. Sanford, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	26/498 30/480
12)	03-0842-0048-0000-0000	Windsor Power House Coal Co	17.68	pending	Noble Energy, Inc.	SWN Production Company, LLC	16.00%	33/537
13)	03-0843-0014-0000-0000	Mary Wells Chambers, widow	11.25	733380-001	Mary Wells Chambers, widow	Chesapeake Appalachia, LLC	18.00%	27/498
$\bot$						SWN Production Company, LLC		30/480
14)	03-0B43-0016-0000-0000	Windsor Power House Coal Co	10.74	pending	Noble Energy, Inc.	SWN Production Company, LLC	16.00%	33/537
	03-0B43-0017-0000-0000				William P Grooms and Vivian			
15)		Joyce Ann McGeehan	45.47	730095-001	Grooms, husband and wife	Phillips Production Company	12.50%	9/109
						Great Lakes Enegry Partners, LLC		9/395
						Range Resources - Appalachia, LLC		20/733
						Chesapeake Appalachia, LLC		10/552
L				<del> </del>		SWN Production Company, LLC		30/480







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

April 5, 2017

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

**RE:** SWN's proposed New Well: Robert Bone BRK 210H in Brooke County, West Virginia, Drilling under Hukill Run Road and State Route 67.

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 Hukill Run Road and State Route 67. 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,

Macey Wallace Staff Landman

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

PEGEIVED
Office of Oil and Gas
APR 2 4 2017
WV Department of
Environmental Protection

#### PAID-UP OIL & GAS LEASE

1/15 - WV

This Lease, made this 2nd day of May, 2017, by and between Kenneth D. Johnston, single, of 2064 McCord Hill Rd., Wellsburg, WV 26070, hereinafter collectively called "Lessor." and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinaster called "Lessee.

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessoe

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leasehold or other lands, electric power and telephone facilities, water impoundments, and to construct pipelines with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leaschold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooke, in the State of West Virginia, and described as follows:

## \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption.

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five(\_5\_) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten ( 10 ) years.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms

PAYMENTS TO LESSOR. In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor,

proportionate to Lessor's percentage of ownership, as follows:

(A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5,00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or , if so exercised, the extended primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as follows:

1. OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.

2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessec uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monies payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds one hundred dollars (\$100.00).

(C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as

(D) SHUT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith. Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-inRoyalty.

(E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.

(F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.

(G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred.

(H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. ents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.

(I) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalities due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.

(J) CHARACTÉRIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any feilure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lesse, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

modification of this Lease.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or costs associated with the arbitration shall be borne equally by Lessor and Lessee.

disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by ARBITRATION, In the event of a disagreement between Lessor and Lessee concerning this Lesse or the associated Order of

Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void. copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lesse with Lessor on equivalent terms and copy of any such offer to notify Lessor within the storesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor fails to notify Lessor within the storesaid fifteen (15) day period of its election to meet any such bona fide offer, Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royally consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and royally considerations of the Top Lease, Leases shall have fifteen (15) days after receipt from Lessor of a complete opposite that the advise I essen in writing of its pleasing to gain and relevant terms and conditions of the royal case. Leases shall have fifteen (15) days after receipt from Lessor of a complete opposite that the advise I essen in writing of its pleasing to gain and relevant terms and conditions of the paid of the pai RIGHT OF FIRST REFUSAL. It at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bons fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lessoriote Lessor shall have the continuing option by meeting any such offer to acquire a Top ("Top Lesso") covering all or part of the Lesschold, Lessoe shall have the continuing option by meeting any such offer to acquire a Top ("Top Lesso") covering all or part of the Lessoriote Any offer must be in writing and must set forth the monored Lessor's name homes.

decree, or the acts of God and/or third parties over whom Lessee has no control.

COVENANTS. This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations it compliance is effectively prevented by federal, state, or local law, regulation, or

compensation for the privileges herein granted.

the primary term or any extension of term of this Lesse. There shall be no Leaschold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, consiltute full LEASE DEVELOPMENT. There is no implied coverant to drill, prevent drainage, further develop or market production within

required by Lessec for purposes as neven provided and unin an ansposa amon injection wens tocated on in tends protect or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessec for the purposes as hereinprovided having jurisdiction. Lessor shall enter a separate Disposal and Injection Agreement with Lessec for the purposes as hereinprovided.

TITIE, AND INTERESTY. Lessor hereby warrants generally and agrees to defend title to the Lesschold and coverants that Lessec shall have benefit of the doctrine of after acquired title. Should any person having title to the Lesser this Lesse, the Lesses shall nevertheless be binding upon all persons who do execute it as Lessor. It EASE DEVELOPMENT. There is no implied coverant dminner. It into the contraction within required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Lenschold and surface as it bears to the full and contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith. production fluids, wester water and any hydrocarbon related substances from any source, including, but not limited to wells on the DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline easements and rights of way, on may part of the Leaschold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and therewith for the disposal and/or injection into any subsurface strata, other disposal and/or injection into any subsurface strata, other disposal and/or injection into any subsurface than any source, from any source, including has a parallely on the application fails.

this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the therewith istance used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therevith have permanently ceased production. Leasor shall be paid a the event that all wells on the Leasehold and/or lands pooled/unitized therevith have permanently ceased production. Leasor shall be paid a

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Lesschold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any 200,2 MUITOU COUZCUT

pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a EACILITIES. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without

Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph. Rental autibushe to any part of the unit (including non-Leaschold land) shall have the same effect upon the terms of this Lease as if a well were the same effect upon the terms of this Lease as if a well were the same of the lands to the lands to the same of included in the unit bears to the total number of acres in the unit, Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, stratee, and conditions of operation or payment of any unit created, Lessor agrees to accept and receive out of the production or the revenue will negotiate with any other lessovioil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), noyalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING, Lessor grants Lessed or undersed, whether towned by Lessor or by others, at a time before or after other leads, whether exprise or not contiguous, lessed or undersed, whether owned by Lessor or by others, at a time before or after a first proportion which lessed or not contiguous, lessed or undersed, whether owned by Lessor or by others, at a time before or after a first proportion which lessed or undersed, whether owned by Lessor or by others, at a time before or after the contiguous or not contiguous, lessed or undersed, whether owned by Lessor or by others, at a time before or after the other of the respective of the production units either by contract right or pursuant to governmental authorisation. Pooling or unitizing in one or many independent of the right to change the right or many independent in the right to change the right of the production units of the production units in the production units of th

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease us to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties becounder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leaschold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered. SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and

assigns FORCE MAJEURE. All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws. rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, fleed, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or enriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, then this Lease shall not expire during the pendency of such lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, and may appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate

the purpose of this Lease.

COUNTERPARTS. This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement. "See Exhibit "B" attached hereto and by reference made a part hereof for additional provisions"

IN WITNESS WHEREOF, Lessor hereunto sets hand and seal. LESSOR: Witnes Kenneth D. Johnston Witness (Scal) Witness (Seal) Witness Document prepared by: SWN Production Company, L.L.C., 1000 Energy Drive, Spring, Texas 77389. TO A THE OWNER WHEN THE PROPERTY OF THE PERSON NAMED OF THE PERSON Official Seal est of West Virginia Barker Drive V 25070 of Websury S, 2023 Public State of West Virginia Phylits P. Marker ACKNOWLEDGMENT Velisburg, WV 25070 STATE OF WEST YES WIA Department in the state of the COUNTY OF PRODICE

2016, before me, the undersigned officer, personally appeared Kenneth D. Johnston, single, known to me (or On this the day of satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:

Signature/Notary Publi

Name/Notary Public (print):

#### Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from Kenneth D. Johnston, single, of 2064 McCord Hill Rd., Wellsburg, WV 26070, Lessor to SWN Production Company, LL.C. as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooke, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0130-0000

and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0139-0000, 03-B32-0137-0000, 0137-0001;

On the East by lands of 03-B32-0129-0000;

On the South by lands of 03-B32-0129-0000, 03-B37-0043-0000;

On the West by lands of 03-B37-0042-0000;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0001</u>
On the North by lands of: <u>03-B32-0130-0000;</u>

On the East by lands of 03-B32-0130-0000;

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0138-0000:

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0135-0000

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0133-0000:

On the East by lands of 03-B32-0132-0000:

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0137-0001;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0137-0000

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0137-0001:

On the South by lands of 03-B32-0138-0000:

On the West by lands of 03-B32-0136-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0137-0001

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0135-0000, 03-B32-0130-0000:

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0137-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0138-0000 and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0137-0000:
On the East by lands of 03-B32-0130-0001:
On the South by lands of 03-B32-0130-0001:

On the West by lands of 03-B32-0136-0000;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor;

# Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from Kenneth D. Johnston, single, of 2064 McCord Hill Rd., Wellshurg, WV 26070, Lessor to SWN Production Company, L.L.C. as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### **Additional Provisions:**

ROYALTY-All references made in Paragraph (B)1 and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lessor against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering. Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products to receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by Lessee.

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leasehold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Signed for Identification:

Kenneth D. Johnston

#### PAID-UP OIL & GAS LEASE

Lease 1	No	
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1/15 - WV

This Lease, made this 2nd day of May, 2017, by and between Joyce A. Brady and Ralph A. Brady, wife and husband, of 263 Marosi Lane, Colliers, WV 26035, hereinafter collectively called "Lessor," and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessee.

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessee

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leaschold or other lands, electric power and telephone facilities, water impoundments, and to construct pipelines with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leasehold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooks, in the State of West Virginia, and described as follows:

# \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM, Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five( 5 ) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessec pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten (10 ) years.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of

Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms

PAYMENTS TO LESSOR. In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor,

proportionate to Lessor's percentage of ownership, as follows: (A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or , if so exercised, the extended primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as

1. OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat,

process and market the oil. 2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the nct amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monies payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds one hundred dollars (\$160.00).

(C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as

payment of Royalty.

(D) SHUT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.

(E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or

marketable timber.

(F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely

(G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect

either to continue to make or withhold payments as if such a change had not occurred.

(H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. ents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.

(I) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.

(J) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leaschold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leaschold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leaschold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leaschold. In the event of conflict or inconsistency between the Leaschold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

FACILITIES. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lesser's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lesser's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS, Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee, regulatory agency or governmental authority having jurisdiction, Lessor shall enter a separate Disposal and Injection Agreement with Lessee for the purposes as herein provided.

TITLE AND INTERESTS. Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

LEASE DEVELOPMENT. There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

COVENANTS. This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be rull and void.

ARBITRATION. In the event of a disagreement between Lessor and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lease, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered. SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and

FORCE MAJEURE. All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessec's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, then this Lease shall not expire during the pendency of such lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, and any appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease.

COUNTERPARTS. This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement. \*\*See Exhibit "B" attached hereto and by reference made a part hereof for additional provisions\*\*

IN WITNESS WHEREOF, Lessor hereunto sets hand and seal.

Witness (Seal) Witness (Seal) Witness

LESSOR:

Document prepared by: SWN Production Company, L.L.C., 1000 Energy Drive, Spring, Texas 77389.

**ACKNOWLEDGMENT** 

STATE OF WEST VIRGINIA COUNTY OF BLOOKE SS:

2016, before me, the undersigned officer, personally appeared Joyce A. Brady and Ralph A. Brady, wife and On this the husband, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hercunto set my hand and official scal.

Name/Notary Public (print): PHYLIS P. MARKE &

My Commission Expires: FEBRUARL 9, 2033
Signature/Notary Public Physics Office Moules

Official Seal ry Public, State of West Wreinia

Phytile P. Marks 110 View Drive Wellsburg, WV 26070

## Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Joyce A. Brady and Ralph A. Brady, wife and husband, of 263 Marosi Lane.</u>

<u>Colliers. WV 26035</u>, Lessor to <u>SWN Production Company, LLC</u>, as Lessec, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

<u>DESCRIPTION</u>. The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: <u>Tax Parcel 1.D. 03-B32-0130-0000</u> and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0139-0000, 03-B32-0137-0000, 0137-0001;

On the East by lands of <u>03-B32-0129-0000</u>,

On the South by lands of <u>03-B32-0129-0000</u>, 03-B37-0043-0000;

On the West by lands of <u>03-B37-0042-0000</u>,

Property Tax Parcel Identification Number: <u>Tax Parcel 1.D. 03-B32-0130-0001</u>
On the North by lands of: <u>03-B32-0130-0000</u>;
On the East by lands of <u>03-B32-0130-0000</u>;
On the South by lands of <u>03-B32-0130-0000</u>;

On the West by lands of <u>03-B32-0138-0000</u>;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0135-0000</u> and is bounded formerly or currently as follows:

and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0133-0000;
On the East by lands of 03-B32-0132-0000;
On the South by lands of 03-B32-0130-0000;
On the West by lands of 03-B32-0137-0001;

Property Tax Parcel Identification Number: Tax Parcel 1.D. 03-B32-0137-0000 and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0136-0000;
On the East by lands of: 03-B32-0137-0001;
On the South by lands of 03-B32-0138-0000;
On the West by lands of 03-B32-0136-0000;

Property Tax Parcel Identification Number: Tax Parcel I,D, 03-B32-0137-0001 and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0136-0000;
On the East by lands of: 03-B32-0135-0000, 03-B32-0130-0000;
On the South by lands of 03-B32-0130-0000;
On the West by lands of 03-B32-0137-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0138-0000 and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0137-0000;
On the East by lands of 03-B32-0130-0001;
On the South by lands of 03-B32-0130-0001;
On the West by lands of 03-B32-0136-0000;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor;

#### Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Joyce A. Brady and Ralph A. Brady, wife and husband, of 263 Merosi Lane.</u>
Colliers. WV 26035, Lessor to SWN Production Company, LLC, as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Additional Provisions:

ROYALTY-All references made in Paragraph (B)1 and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lessor against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering. Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products to receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by Lessoc.

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leasehold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Signed for Identification:

Ralph A. Brady

#### PAID-UP OIL & GAS LEASE

Lease	No	
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1/15 - WV

This Lease, made this 2nd day of May 2017, by and between Daniel L. Johnston and Cathy J. Johnston, husband and wife, of 515 Commerce St., Wellsburg, WV 26070, hereinafter collectively called "Lessor." and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessec."

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessoe agree as follows:

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leasehold or other lands, electric power and telephone facilities, water impoundments, and to construct pipelines with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leasehold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

<u>DESCRIPTION</u>. The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

#### \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or elaimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) cil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption.

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five[\_5\_] years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten (\_10\_\_) years.

#### NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms

PAYMENTS TO LESSOR. In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor,

- proportionate to Lessor's percentage of ownership, as follows:

  (A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or , if so exercised, the extended primary term hereof.
- (B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as
- OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.
- 2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monies payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds one hundred dollars (\$100.00).
- (C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as
- (D) SHUT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leaschold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.
- (E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.
- (F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely
- (G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred.
- (H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. Lessor represents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.
- (I) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.
- (J) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leaschold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leaschold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leaschold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leaschold. In the event of conflict or inconsistency between the Leaschold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

FACILITIES. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a polable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee for the purposes as herein provided.

TITLE AND INTERESTS. Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

LEASE DEVELOPMENT. There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

COVENANTS. This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lease ("Top Lease") covering all or part of the Leaschold, Lessec shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessec's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease, Lessec shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an il and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

ARBITRATION. In the event of a disagreement between Lesser and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessoe is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lease, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered.

SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and

FORCE MAJEURE. All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, then this Lease shall not expire during the pendency of such lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, and any appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate

COUNTERPARTS. This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement. \*\*See Exhibit "B" attached hereto and by reference made a part hereof for additional provisions\*\*

IN WITNESS WHEREOF, Lessor hereunto sets hand and se	eal. LESSO	R:
Witness		and hydronotar (Seal)
Witness	Cathy.	L. Johnston  L. Johnston  L. Johnston  (Scal)  Johnston  (Scal)
Witness		(Seal)
Witness		(Seal)
Document prepared by: SWN Production Company, L.L.C	., 1000 Energy Drive, Spring	L. Texas 77389.
STATE OF VVEST VIRLIMITE  COUNTY OF FRONKE)	CKNOWLEDGMENT	Notary Public, State of West Virginia Phylilis P. Marker 110 View Drive Wellsburg, WV 26070 My commission expires Rebrushy 9, 2223

2016, before me, the undersigned officer, personally appeared Daniel L. Johnston and Cathy J. Johnston, husband and wife, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: FERRUAIC 9, 2023
Signature/Notary Public: Ture Civilary
Name/Notary Public (print): PHYLLIS P. MARKEN

#### Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Daniel L. Johnston and Cothy J. Johnston</u>, <u>husband and wife. of S15 Commerce St., Wellsburg, WV 26070</u>, Lessor to <u>SWN Production Commany, L.L.C.</u> as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

<u>DESCRIPTION.</u> The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0900</u> and is bounded formerly or currently as follows:

On the North by lands of: <u>03-B32-0139-0000</u>, 03-B32-0137-0000, 0137-0001;

On the East by lands of <u>03-B32-0129-0000</u>;

On the South by lands of <u>03-B32-0129-0000</u>, 03-B37-0043-0000;

On the West by lands of <u>03-B37-0042-0000</u>;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0001</u>
On the North by lands of: 03-B32-0130-0000;
On the East by lands of 03-B32-0130-0000;
On the South by lands of 03-B32-0130-0000;
On the West by lands of 03-B32-0138-0000;

Property Tax Parcel Identification Number: Tax Parcel 1.D. 03-B32-0135-0000 and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0133-0000;
On the East by lands of 03-B32-0132-0000;
On the South by lands of 03-B32-0130-0000;
On the West by lands of 03-B32-0137-0001;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0137-0000</u> and is bounded formerly or currently as follows:
On the North by lands of: <u>03-B32-0136-0000</u>;
On the East by lands of: <u>03-B32-0138-0000</u>;
On the South by lands of <u>03-B32-0138-0000</u>;
On the West by lands of <u>03-B32-0138-0000</u>;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0137-0001</u> and is bounded formerly or currently as follows:
On the North by lands of: <u>03-B32-0136-0000</u>;
On the East by lands of: <u>03-B32-0135-0000</u>, <u>03-B32-0130-0000</u>;
On the South by lands of <u>03-B32-0130-0000</u>;
On the West by lands of <u>03-B32-0137-0000</u>;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0138-0000 and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0137-0000;
On the East by lands of 03-B32-0130-0001;
On the South by lands of 03-B32-0130-0001;
On the West by lands of 03-B32-0136-0000;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor;

# Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Daniel L. Johnston and Cathy J. Johnston</u>, <u>husband and wife</u>, <u>of 515 Commerce St. Wellsburg</u>, <u>WV 26070</u>, Lessor to <u>SWN Production Company</u>, <u>LL.C.</u> as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Additional Provisions:

ROYALTY-All references made in Paragraph (B)I and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lesser against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering. Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products to receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leasehold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Daniel L. Johnston

Lathy Johnston

Cathy J. Johnston

#### PAID-UP OIL & GAS LEASE

Lcase	No

1/15 - WV

This Lease, made this 2nd day of May. 2017, by and between Brian W. Johnston, single, of 1971 McCord Hill Rd., Wellsburg, WV 26070, hereinafter collectively called "Lessor," and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessoe."

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessee agree as follows:

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leasehold or other lands, electric power and telephone facilities, water impoundments, and to construct pipelines with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leasehold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

<u>DESCRIPTION.</u> The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

# \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption.

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five 5 ) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten (10) years.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms of this Lease.

<u>PAYMENTS TO LESSOR.</u> In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor, proportionate to Lessor's percentage of ownership, as follows:

(A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or, if so exercised, the extended primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as follows:

- 1. OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.
- 2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monies payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds one hundred dollars (\$100.00).
- (C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as payment of Royalty.
- (D) SHÚT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.
- (E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.
- (F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.
- (G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leaschold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had notoccurred.
- (H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. Lessor represents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.
- (I) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with tegal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.
- (J) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lesse. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING, Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leasehold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lesser agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leasehold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leasehold. In the event of conflict or inconsistency between the Leasehold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

FACILITIES. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee for the purpose as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor a

TITLE AND INTERESTS. Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

LEASE DEVELOPMENT. There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

COVENANTS. This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

ARBITRATION. In the event of a disagreement between Lessor and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lease, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered.

SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessoe and their heirs, successors, and assigns.

FORCE MAJEURE, All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, then this Lease shall not expire during the pendency of such lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, and any appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease

COUNTERPARTS. This Lease may be executed in one or more counterparts, each of which will be deemed to be an original capy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement. \*\*See Exhibit "B" attached hereto and by reference made a part hereof for additional provisions\*\*

IN WITNESS WHEREOF, Lessor hereunto sets hand and seal.

Witness	Bin W The	(Seal)
Witness	Brian W. Johnston	(Seal)
Witness	-	(Scal)
Witness		(Scal)

Document prepared by: SWN Production Company, L.L.C., 1000 Energy Drive, Spring, Texas 77389.

**ACKNOWLEDGMENT** 

STATE OF INEST VOCESIA COUNTY OF BROOKE

Official Seal blic State of West Virginia Phyllis P. Marker 110 View Orivo Wellsburg, WV 26070 

On this the 2016, before me, the undersigned officer, personally appeared Brian W. Johnston, single, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:

Signature/Notary Public

Name/Notary Public (print): 144113

# Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Brian W. Johnston</u>, single, of 1971 McCord Hill Rd., Wellsburg, WV 26070, Lessor to <u>SWN Production Company</u>, <u>LLLC</u>, as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooke, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0130-0000 and is bounded formerly or currently as follows: On the North by lands of: 03-B32-0139-0000, 03-B32-0137-0000, 0137-0001; On the East by lands of 03-B32-0129-0000: On the South by lands of 03-B32-0129-0000, 03-B37-0043-0000;

On the West by lands of 03-B37-0042-0000:

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0301</u> On the North by lands of: <u>03-B32-0130-0000</u>; On the East by lands of 03-B32-0130-0000;

On the South by lands of 03-B32-0130-0000: On the West by lands of 03-B32-0138-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0135-0000

and is bounded formerly or currently as follows: On the North by lands of: 03-B32-0133-0000;

On the East by lands of 03-B32-0132-0000: On the South by lands of 03-B32-0130-0000:

On the West by lands of 03-B32-0137-0001:

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-R32-0137-0800

and is bounded formerly or currently as follows: On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0137-0001; On the South by lands of 03-B32-0138-0000;

On the West by lands of 03-B32-0136-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0137-0001

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0135-0000, 03-B32-0130-0000:

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0137-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0138-0000

and is bounded formerly or currently as follows: On the North by lands of: 03-B32-0137-0000:

On the East by lands of 03-B32-0130-0001;

On the South by lands of 03-B32-0130-0001;

On the West by lands of 03-B32-0136-0000;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor,

# Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from <u>Brian W. Jahnston, single, of 1971 McCord Hill Rd., Weilsburg, WV 26070.</u>
Lessor to <u>SWN Production Company, L.L.C.</u> as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### **Additional Provisions:**

ROYALTY-All references made in Paragraph (B)I and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lessor against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering. Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products to receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by Lessee.

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leasehold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Signed for Identification:

Brian W. Johnston

#### PAID-UP OIL & GAS LEASE

Lease	No
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1/15 - WV

This Lease, made this 2nd day of May, 2017, by and between Robert Johnston and Janice Johnston, husband and wife, of 1905 McCord Hill Rd., Wellsburg, WV 26070, hereinafter collectively called "Lessor." and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessec."

WITNESSETH, that for and in consideration of Ten Dollars (\$10.60) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessee agree as follows:

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal scam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leasehold or other lands, electric power and telephone facilities, water impoundments, and to construct pichnes with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leasehold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

DESCRIPTION. The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

# \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption.

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five 5. ) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten (10) years.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms of this Lease

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PAYMENTS TO LESSOR. In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor, proportionate to Lessor's percentage of ownership, as follows:

(A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or, if so exercised, the extended primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as

1. OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.

2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lesse between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monics payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds one hundred dollars (\$100.00).

(C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as payment of Royalty.

(D) SHUT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leaschold or lands pooled/unitized therewith, Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.

(E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.

(F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.

(G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred.

(H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. Lessor represents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.

(f) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.

(I) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leaschold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lessor interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leasehold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leasehold land) shall have the me effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leasehold. In the event of conflict or inconsistency between the Leasehold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

FACILITIES. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lessor's written consent. Lessor shall not creet any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee for the purposes as herein provided and until all disposal and/or injection Agreement with Lessee for the purposes as herein provided.

TITLE AND INTERESTS. Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

LEASE DEVELOPMENT. There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

COVENANTS. This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee shils to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

ARBITRATION. In the event of a disagreement between Lessor and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessoe is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lease, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered. SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and

FORCE MAJEURE. All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, then this Lease shall not expire during the pendency of such lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, and any appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease.

COUNTERPARTS. This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement.

\*\*See Exhibit "B" attached hereto and by reference made a part hereof for additional provisions\*\*

N WITNESS WHEREOF, Lessor hereunto sets hand and seal.	LESSOR:	
Witness	Robert Johnston	(Scal
Witness	Janice Johnston	(Scal
Witness		(Seal
Witness		(Seal

Document prepared by: SWN Production Company, L.L.C., 1000 Energy Drive, Spring, Texas 77389.

#### ACKNOWLEDGMENT

STATE OF West Virginia)

On this the  $\sqrt{S^{\frac{1}{2}}}$  day of  $\sqrt{May}$  2017, before me, the undersigned officer, personally appeared Robert Johnston and Janice Johnston, husband and wife known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I bereinto set my hand and official seal.

My Commission Expires: 6-14-21
Signature/Notary Public: Mayoric X Hellan

Name/Notary Public (print): Mosjorie L. Keller

OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Marjorie L. Kellar
59 Monarch Drive
Wellsburg, WV 26070
My Commission Expires June 14, 2021

# Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from Robert Johnston and Janier Johnston, husband and wife, of 1905 McCord Hill Rd., Wellsburg, WV 26070, Lessor to SWN Production Company, LLC, as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

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<u>DESCRIPTION.</u> The Leasehold is located in the District of <u>Buffalo</u>, in the County of <u>Brooke</u>, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0090</u> and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0139-0009, 03-B32-0137-0009, 0137-0001;

On the East by lands of 03-B32-0129-0000, 03-B37-0043-0000;

On the South by lands of 03-B32-0129-0000, 03-B37-0043-0000;

On the West by lands of 03-B37-0042-0000;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0130-0001</u>
On the North by lands of: <u>03-B32-0130-0000</u>;

On the East by lands of 03-B32-0130-0000; On the South by lands of 03-B32-0130-0000; On the West by lands of 03-B32-0138-0000;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0135-0000</u> and is bounded formerly or currently as follows:
On the North by lands of: <u>03-B32-0133-0000</u>;
On the East by lands of <u>03-B32-0133-0000</u>;
On the South by lands of <u>03-B32-0130-0000</u>;
On the West by lands of <u>03-B32-0137-0000</u>;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0137-0000</u> and is bounded formerly or currently as follows:
On the North by lands of: <u>03-B32-0136-0000</u>;
On the East by lands of: <u>03-B32-0137-0001</u>;
On the South by lands of <u>03-B32-0138-0000</u>;
On the West by lands of <u>03-B32-0136-0000</u>;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-9137-0091</u> and is bounded formerly or currently as follows:
On the North by lands of <u>03-B32-9136-0000</u>;
On the East by lands of <u>03-B32-9135-0000</u>, <u>03-B32-9130-0000</u>;
On the South by lands of <u>03-B32-9130-0000</u>.

On the West by lands of 03-B32-0137-0000:

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0138-0000</u> and is bounded formerly or currently as follows:
On the North by lands of: <u>03-B32-0137-0000</u>;
On the East by lands of <u>03-B32-0130-0001</u>;
On the South by lands of <u>03-B32-0130-0001</u>;
On the West by lands of <u>03-B32-0136-0000</u>;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor,

# Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from Robert Johnston and Janice Johnston, husband and wife, of 1905 McCord Hill Rd., Wellsburg, WV 26070, Lessor to SWN Production Company, LLC, as Lessee, covering 31,623 acres, more or less, situated in Buffale District, Brooke County, West Virginia:

#### Additional Provisions:

ROYALTY-All references made in Paragraph (B)1 and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lessor against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering, Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products to receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by Lessee.

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leasehold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Signed for Identification:

Robert Johnston

Janice Johnston

#### PAID-UP OIL & GAS LEASE

1/15 - WV

This Lease, made this 2nd day of May, 2017, by and between Ralph G. Johnston and Tracy A. Johnston, husband and wife, of 1907 McCord Hill Rd., Wellsburg, WV 26070, hereinafter collectively called "Lessor." and SWN Production Company, L.L.C., a Texas limited liability company, 10000 Energy Drive, Spring, Texas 77389, hereinafter called "Lessee."

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessee agree as follows:

LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid gascous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, or from other lands, using methods and techniques which are not restricted to current technology, including, without limitation, the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads over and across the Leasehold for use in development of the Leasehold or other lands, electric power and telephone facilities, water impoundments, and to construct pipelines with appurtenant facilities, including data acquisition, compression and collection facilities for use in the production and transportation of products from the Leasehold or from other lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface of the Leaschold for the drilling of a wellbore(s) for use in development of the Leasehold or other lands.

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooke, in the State of West Virginia, and described as follows:

# \*\*See Exhibit "A" attached hereto and by reference made a part hereof for leasehold descriptions\*\*

and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of Five (5) years from 12:00 A.M. May 2, 2017 (effective date) to 11:59 P.M. May 1, 2022 (last day of primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessec's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption

If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease as to all or any part of the acreage then covered hereby, for one additional term of Five 5 ) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the sum of the initial consideration given for the execution hereof, which shall be paid in proportion to the number of net acres actually extended. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term. If this option is exercised by Lessee the lease as extended will thereafter be treated as if the original primary term was Ten ( 10 ) years.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms of this Lesse.

PAYMENTS TO LESSOR. In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor,

proportionate to Lessor's percentage of ownership, as follows:

(A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of five dollars (\$5.00) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term or, if so exercised, the extended primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as

follows:

- OIL: To deliver to the credit of Lessor a Royalty equal to one-eighth (1/8) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.
- 2. GAS: To pay Lessor on actual volumes of gas and any constituents thereof sold from said land, one-eighth of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee, and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities. Prior to payment of royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes an
- (C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (including, without limitation, hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents, therefrom, and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as payment of Royalty.
- (D) SHUT-IN: In the event that production of oil, gas, or their constituents, is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall, after the primary term, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or Lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-inRoyalty.
- (E) DAMAGES: Lessee will remove unnecessary equipment and materials and rectain all disturbed lands at the completion of all activities on the Leasehold, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.
- (F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.
- (G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished by Lessor with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred.
- (H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved. Lessor represents and warrants that there is no existing oil and gas lease which is presently in effect covering the Leasehold.
- (f) LIENS: Lessee may, at its option, pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leaschold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.
- (I) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lesse. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor

will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS. If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

UNITIZATION AND POOLING. Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leaschold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leasechold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leasehold. In the event of conflict or inconsistency between the Leasehold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

FACILITIES. Lessee shall not drill a well on the Leaschold within 200 feet of any structure located on the Leaschold without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

CONVERSION TO STORAGE. Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or scorantely.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or re-enter existing wells, including necessary location, roadway and pipeline casements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee, regulatory agency or governmental authority having jurisdiction, Lessor shall enter a separate Disposal and Injection Agreement with Lessee for the purposes as herein provided.

TITLE AND INTERESTS. Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

LEASE DEVELOPMENT. There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

<u>COVENANTS.</u> This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

RIGHT OF FIRST REFUSAL. If at any time within the primary term of this lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease which will take effect upon expiration of this Lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease, Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

ARBITRATION. In the event of a disagreement between Lessor and Lessee concerning this Lesse or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

TITLE CURATIVE. Lessor agrees to execute consents, affidavits, ratifications, amendments, permits and other instruments as Lessee may request to carry out the purpose of this lease, including without limitation, applications necessary to obtain driveway entrance permits, and approvals of drilling or production units which Lessee may seek to form pursuant to governmental authorization.

SURRENDER. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties bereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered.

SUCCESSORS. All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and

FORCE MAJEURE. All terms, provisions and express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. If Lessee is unable, in its sole discretion, to effectively accomplish the purposes and objectives of this Lease or to exercise its rights hereunder because of such laws, rules, regulations or orders, or if drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, then this Lease shall not terminate, in whole or in part, because of such inability, prevention or delay, and, at Lessee's option, the period of such inability, prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure. If this Lease is the subject matter of any lawsuit, arbitration proceeding, or other action, or any appeal thereof, and the period of the lawsuit, arbitration proceeding, or other action, or any appeal thereof, shall be added to the term of this Lease.

SEVERABILITY. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease.

COUNTERPARTS. This Lease may be executed in one or more counterparts. Counterparts that he have been also because of this Lease and all of which, when taken together, will be deemed to constitute me and the same agreeoment seal "See Exhibit "B" attached hereto and by reference made a part hereof for additional for the Notary Public, State of West Virginia Phyllis P. Marker 110Vew Drive Wellsburg, WV 26070

LESSER. Wellsburg, WV 26070

LESSER. May commission expires February 9, 2023

Witness As A Sphriston (Seal)

Witness Indian India

Document prepared by: SWN Production Company, L.L.C., 1000 Energy Drive, Spring, Texas 77389.

ACKNOWLEDGMENT

STATE OF

WEST VIRGINIA

COUNTY OF

On this the day of 2016, before me, the undersigned officer, personally appeared Ralph G. Johnston and Tracy A. Johnston, husband and wife known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: FEBRUAR'S

Signature/Notary Public: Thele. Syla

Name Notary Public (print): Payers P. MARKED

### Exhibit "A"

Addendum to Oil and Gas Lease dated May 2, 2017, from Raiph G. Johnston and Tracy A. Johnston, husband and wife, of 1907 McCord Hill Rd., Wellsburg, WV 26070, Lessor to SWN Production Company, LLC, as Lessee, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County, West Virginia:

#### Leasehold Description:

DESCRIPTION. The Leasehold is located in the District of Buffalo, in the County of Brooke, in the State of West Virginia, and described as follows:

Property Tax Parcel Identification Number: Tax Parcel J.D. 03-B32-0130-0000

and is bounded formerly or currently as follows:
On the North by lands of: 03-B32-0139-0000, 03-B32-0137-0000, 0137-0001;

On the East by lands of <u>03-B32-0129-0000</u>; On the South by lands of <u>03-B32-0129-0000</u>, <u>03-B37-0043-0000</u>;

On the West by lands of 03-B37-0042-0000;

Property Tax Parcel Identification Number: <u>Tax Parcel I,D. 03-B32-0130-0001</u> On the North by lands of: 03-B32-0130-0000; On the East by lends of 03-B32-0130-0000;

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0138-0000;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0135-0000</u>

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0133-0000; On the East by lands of 03-B32-0132-0000;

On the South by lands of 03-B32-0130-0000; On the West by lands of 03-B32-0137-0001;

Property Tax Parcel Identification Number: <u>Tax Parcel I.D. 03-B32-0137-0000</u>

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0137-0001;

On the South by lands of 03-B32-0138-0000;

On the West by lands of 03-B32-0136-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-R32-0137-0001

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0136-0000;

On the East by lands of 03-B32-0135-0000, 03-B32-0130-0000:

On the South by lands of 03-B32-0130-0000;

On the West by lands of 03-B32-0137-0000;

Property Tax Parcel Identification Number: Tax Parcel I.D. 03-B32-0138-0000

and is bounded formerly or currently as follows:

On the North by lands of: 03-B32-0137-0000;

On the East by lands of 03-B32-0130-0001;

On the South by lands of 03-B32-0130-0001;

On the West by lands of 03-B32-0136-0000;

and being a portion of said lands acquired from Lillie Anna Johnston by virtue of Intestate Succession described in Affidavit of Death and Heirship NOT YET RECORDED in Brooke County, and described for the purposes of this agreement as containing a total of 31.623 Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor;

## Exhibit "B"

Addendum to Oil and Gas Lease dated May 2, 2017, from Ralph G, Johnston and Tracy A. Johnston, husband and wife, of 1907 McCord Hill Rd., Wellsburg, WV 26070, Lessor to SWN Production Company, LL.C., as Lessec, covering 31.623 acres, more or less, situated in Buffalo District, Brooke County. West Virginia:

#### Additional Provisions:

ROYALTY-All references made in Paragraph (B)1 and 2 of the section entitled "PAYMENT TO LESSOR" as to one-eighth (1/8) royalty shall be amended to eighteen percent (18%)

HOLD HARMLESS - Lessee agrees it will protect, save, and keep Lessor harmless and indemnified against any penalty or damage or charges imposed for any violation of any laws or ordinances, whether occasioned by the neglect of Lessee or those holding under Lessee, and Lessee will at all times protect, indemnify and save and keep harmless the Lessor against and from any and all loss, damage or expense, including any injury to any person or property whomsoever or whatsoever arising out of or caused by any negligence of the Lessee or those holding under Lessee.

NO STORAGE RIGHTS - Notwithstanding anything herein contained to the contrary, Lessee agrees the herein described Leasehold shall not be used for the purpose of gas storage as defined by the Federal Energy Regulatory Commission. Any reference to gas storage contained in this Lease is hereby deleted. If Lessor wishes to enter into an agreement regarding gas storage using the Leasehold with a third party, Lessor shall first give Lessee written notice of the identity of the third party, the price or the consideration for which the third party is prepared to offer, the effective date and closing date of the transaction and any other information respecting the transaction which Lessee believes would be material to the exercise of the offering. Lessor does hereby grant Lessee the first option and right to purchase the gas storage rights by matching and tendering to the Lessor any third party's offering within 30 days of receipt of notice from Lessor.

GROSS PROCEEDS - Royalties shall be paid on all Oil and Gas Substances produced and sold without deductions for the costs of producing, gathering, storing, separating, treating, dehydrating, and compressing, transporting, or otherwise making the oil and/or gas produced from the leased premises ready for sale or use. All oil and/or gas royalty shall be delivered free of cost into the tank or pipeline (for oil) and into the pipeline (for gas), with the exception of Lessor's prorated share of taxes, measured by volume, on the oil and/or gas royalty. However, any such costs which result in enhancing the value of the marketable oil, gas or other products or receive a better price may be deducted from the Lessor's share of production so long as such costs are based on Lessee's actual cost of enhancement. However, in no event shall Lessor receive royalty on a price that is less than, or more than, the price received by Lessee.

DISPOSAL WELLS - Lessee is not granted any right whatsoever to use the Leaschold, or any portion thereof, for construction and/ or operation of any disposal or injection well.

NO WARRANTY OF TITLE - It is understood that Lessor warrants title to said property only with respect that the title is good to the best of Lessor's knowledge and Lessee agrees that no claims will be made against Lessor pertaining to warranty of title.

Signed for Identification:

Ralph G. Johnston

1. 1

Fracy A. Johnston

# Horizontal Natural Gas Well Work Permit Application Notice By Publication

# Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(e), prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Brooke County Review 55-7th Street Townsquare

Wellsburg, WV 26070

Public Notice Date: April 7, 2017 & April 14, 2017

The following applicant intends to apply for a horizontal natural gas well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: SWN Production Co., LLC Well Number: Robert Bone BRK 210H

Address: P.O. Box 6070

Charleston, WV 25362

Business Conducted: Natural gas production.

Location:

State: West Virginia County: Brooke District: Buffalo Quadrangle: Bethany

UTM NAD83 Northing: 4452139 UTM NAD83 Easting: 533827 Watershed: Buffalo Creek

Any interested person may submit written comments or request a copy of the proposed permit application by emailing <a href="mailto:dep.oogcomments@wv.gov">dep.oogcomments@wv.gov</a>, sending a letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304, or calling 304-926-0450. Emailed or written comments must reference the county, well number, and operator and be received by May 14, 2017.

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Full copies of Stante of the proposed permit application will cost \$15.00, whether mailed or obtained at DEP headquarters. The of Oil and Gas

For information related to horizontal drilling, and all horizontal well applications filed in this state, April: 2 4 2017

www.dep.wv.gov/oil-and-gas/pages/default.aspx

WV Department of Environmental Protection

9-00201

#### 00 **PUBLIC NOTICES** BROOKE COUNTY COMMISSION SALE OF WAST VIRGINAL SUPERINGEN SOURCE PORTOGEN TO A CONTROL OF THE PROPERTY NOTICE OF ADMINISTRATION AND NOTICE TO CRECITORS AND 2015/01 ECYTICE SOUND INSHORN TANKS HENDRAFFIELD TRANSPORTER **EENEFICIARIES** The administration of the estates of the following diseased is predig to the Gery Court Court of Court Court Court of Court Co on blows. The sensors have added sensors that and become have and collection from your shares during the Book year DCLUDDIG THE LEW OF TAXES, is as follows: MINERIE SOURCE. TROPERTY FALL CALLA DI SEVERANCE 17070 17070 18077 18070 4100 8000 ERCHE HALDIN THE BEDTAL TREASES HIS CHEFA) HISTALISHIS CHEFA) Pripary Taxes - Extens Leny Februs Collection WIND HERE IN THE SAME Fixbary Commissioner 4 any, are set from the control of the period of the period of the particular of the particular of the period representation or particular of the period of the control of the matter of an objection with the County Commission with SLTY 600 and set for particular Commission with SLTY 600 and set for the Commission of the SLTY 600 and the County Lake 1 and the county of the short, relationship and the county of the short of the county Lake 1 and the county of the short of the County against the estimate the state of accordance with the state of the county accordance with the county c Video Lectura Mendelananus TOTUL STRANGED PAVIL NI A (CEREPAL PIRTI) CORL SEVINACIE MATURAD ENVIRONI SEVINACIE SENEMO SEVINACIE SEVINACIE SEVINACIE TOCAL ENTIRATE D REVIEWE CORL SEPARANCE PIRTIS TOCAL ENTIRATE D REVIEWE NANKS ARBERTATUS accordance to a more desired of the West Megica ancies dense of Chapper 4t of the West Megica Any person seeking to impact or excluding a fill must exist a complate in accordance with the principation of section also en, berelow or liketon, action like, chapter for those of the West Vegria Dose. Notice to be held great into section and the visitate of the following rained discounts to the section of the section of the section of Communication greates with \$62.77, \$60, days, from the first publication of this notice such reference is required by a pery in internal or an unput credit or file a claim and great cases a shown to support reference to a Filindary Communication. EST MATE DOLLARS BY LAPE SORUGES 3,260 41,700 10,660 11,000 200 2,000 3,500 78,100 69,402 229,530 Mayors Office City Council Tensuer's Office Les Attornes of Attorney Regional Development Authority Dubling Empertors STATE OF REST CHARGE Eucling Empertum Electron Cay Hall Police Departures Street and Septemps Street Lights Fair Associations/Festivale Happointh Capital Projects Lights Training Septembries Lights Training Septembries Lights Training Septembries Lights Training Septembries Lights Lights Septembries Lights Septe A SHOWN TO REPORT THE PROPERTY AND THE P FOLIAMINEE BUNCHALTYCK Capital Person DUTAL ESTIMATED EXPENDITURES 0 0 B/ VILLAGE OF BERCH SOTTON Pepular Current Represe Levy FISCAL VEAR JULY 1, 2017 - JUNE 20, 2018 Certificate of Voluments CITY OF FOLLANSBEE Assessed Voter Tom Level 2017-2018 BUDGETED EXPENSES he Tex Deposes East-15100 CLASSI Personal Property Public Unity Public Place I 12.30 MAYOR DOUNDS DOUNDS GITY MAYAGER CITY CLERK POLICE JUDGE CITY ATTORNEY REG DEVELOP AUTHORITY BLDG ENFORCEMENT ELECTIONS GITY FALL CIASSE EqtEnter Investificacy Intelligible SYLVIA J. BENZO, BROOKE COUNTY CLERK BY KATHRINE L BNYDER, DEPUTY CLERK CIASEN Inditator Installation Indicinale Indicinal CITY HALL POLICE SCR 0407 - 0414/17 STREET STREET LIGHTS 66,000 369,064 GARBAGE Total Value & Projected Ros LANDFILL (in partrige) Loss Helmonners, funcionante de Care Lectaire Sarre, Loss Tas Presentate (con Treat Propatoli Sevenos ta calcidate) Loss Albekerns for Ear Sevenos Entering (FApplicatio) Total Projected Property Tax Collection LIERARY 19.500 TOTAL S Notice is hereby given: 2017-2018 From America Viduation Famil 1 of America to be Raised by Lony of Property Taxon STATE OF WEST VINCALA Coal Severance unassigned balance \$1,000 \$10,000 \$2.00 COUNTY OF BROOKE Miscellaneous \$11,002 Total NUMCIPALITY OF SEECH SOTTOM 02-440 02-600 02-900 \$1,000 \$500 \$3,502 City Hall Garbage Parks

#### Horizontal Natural Gas Well Work Permit

Beautification

Senior Citizens

#### Application Notice By Publication

# Notice is hereby given:

BCR 04/07 - 04/14/17

02-950

02-951

Pursuant to West Virginia Code § 22-64-10(a), prior to filling an application for a permit for a here original filling application for a permit for the county is which the well is located or is procedual to be located a C

Paper, Brooke County Review 55-70 Sheet Townscoune in AVV 20070

\$2,500

53,000

#### Public Notice Date: April 7, 2017 & April 14, 2017

The following applicant intends to apply for a horizontal natural gas, well viets permit vietal disturbs three power or more of surface excluding pipelines, gathering lines and roads or uniture move than two handheld len throusant gallons of water in any Birly day perkin.

Applicant: SWN Feeduction Co., LLC Address: P.O. Box 5070 Charleston, WV 25452

Well Number: Robert Boxe DRK 1019

Business Conducted: Natural gas productor

State West Virginia County Brooke District: Buffalo Guardiangle: Settlany UTM NABUN Northing, 4452141 UTM NABU Easting, 533531 Watershad, Buffalo Creek

Any interested person may submit written comments or request a ropy of the proposed person application by emaking dept supprenementaging oper, sending a letter to Permit Review, Office of 30 and Gas. 601 57th Brisel. SE. Charlesto. WY 15304. or calling 304-204-0450, Emaked or veitible comments must reference the county, resil purelier, and contains and for restleed by May 14, 2017.

Cópios di îne preprised permit applicative mer be reviewed at the WV Cepatrimet (d. Environmental obstront haudquaren, located at 60 157th Sines, SE, Charlesten, WV 25004 (204-204-0450). Fur ideas at soons of the proposed permit application vall cost \$15.00, whether marked or obtained at 69 the advantages.

For information related to hoscontal drilling, and all hoscontal well applications fled in this state and symmetry my portion and gas pages thefault stage.



#### BCR 0407 - 041417

### ADVERTISEMENT FOR BIDS

Bids will be received at the office of Board of Education of the County of Err Wellshurg, West Wirgens, for the following

VARIOUS ASPHALT AND CONCRETE OJECTS

PROJECTS

Midden may visitally begins of the syndication and farms of proposal fogures of the syndication and farms of proposal fogures office of the Checke of Produke, Manheumen and Techniquing (10) Fileward Avenue. Weisburg (W) 2000 (Dev 175-3at W) 2000 (Dev 175-2at W) 2000 (De to be in the best interest of Brooke Charify Schools. THE BOARD OF EDUCATION OF THE COUNTY OF BROOKE WEST VIRGINIA

foni A. Paosane Shule: Superintendent

BCR 0407 - 04/14/17

#### STORAGE UNITS RJENTERPRISES **Bruin Drive**

Warehouse & Outside Units (304) 975-2053 (304) 794-9211

# CLASSIFIED ADS

#### SALES

FOLLANSBEE UNITED METHODIST RUMMAGE SALE Thursday, April 20, 9 a.m., -5 p.m. and Friday, April 21, 9 a.m., -3 p.m. Friday will be \$.10 day. Sale will be held at the Follansbee Park Community House. 04/14/17

#### NOTICES

FOSTER PARENTS NEEDED in your area. Make a difference in the lives of youth in your community. Become a foster parent today! Please call the National Youth Advocate Program, 304,366,5632, or go to www.nyap.org for more information. D8/23/17

#### FOR RENT

2 BEDROOM HOUSES in Beech Bottom \$500 per month. Call 304.394.5864 for more information.

#### FOR SALE

2005 LINCOLN TOWNCAR

2005 LINCOLN TOWNGAR.
Signature Series. 4-door, V8. Tamilocolor. 60,000 miles. 86,500. Call
304.737.5500. 04/14/17
SOLID WOODD PINE GRIB. good
condition. \$50, Call 304.737.3500.
04/14/17
ALL WEATHER SECURITY OF FISE
XL. Navy blue all weather. Size
XL. Navy blue and white security
officer polo shirts. Size XL. All for
\$50.304.737.3500.
04/14/17
MISG ITEMS. Dining rom suit,
bedroom suit and odds and ends.
Like newcondition. Cash only. Good.
Fise Size Security Size Security Size
Call 304.527.0770.
04/21/17

#### **EMPLOYMENT**

The Brooke County Assessor's Office is accepting applications for a part time clerical position. Experience in data entry, computer and office equipment is preferred. Applications are being accepted until April 21, 2017 at the Brooke County Assessor's Office, 200 Courthouse Square, Wellsburg, WV 26070. 04/14/17

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Pursuant to West Virginia Code § 22-63-10-e) prior to filing an application for a permit for a NECONAL well the applicant shall publish in the county in which the well is located or in proposed to a located a Class II legal advertisement.

Paper: Brooke County Review 55-7th Street Townsquare Wellbourg, WV 26070

#### Public Notice Date: April 7, 2017 & April 14, 2017

The following applicant imends to apply for a horizontal insural gas well work permit which discuss three across or more of surface excluding pipelines, gathering lines and routs or utilizin more than two hundred win thousand gallons of water in any duty day period.

Applicant: SWN Production Co., LLC Address P.D. Box 8070 Charleston, WV 25362

Well Number: Robert Sone BRK 210H

Business Conducted: New aligas productive

Lecation

State: West Vegess County: Brooke Outset Bullako Outstangle Belluny UTMMC031 testing 4452139 LTMMAD03 Fasting 533627 Valtambed: Bullako Creek

Any intended parton may submit Vettina permania or requisit a only int his proposed permit application by emailing dies regolumments@ww.gov.endesg.a.lectin p Permit Powiew CPICs of CRI 10% of CRI 15 7th Street, SE, Charleston, WV 25304, or rating 304-405-4050. Enabled or vetting committed most preference for powerfy, wall number, and spendor and be received by Vetting 10% of CRI 15 10% of CRI 15% of

Copies of the proposed primit applicates may be neviewed at the WP Department of Environmental Protection feating action, boated at 691 S7th Great, BE. Charleston, WV 25004 (0.54-035-0459), Full copies or scars of the proposed permit application will dost 515-00, whether maked or obtained at DEP bendiguarters.

For information related to borzonzal chang, and oil horzontal well applications field in one state reat: www.dep.we.gov.oil-and-gastpages.defaut aspt

# West Virginia Statewide Classified Network Peaching Reeders Across West Virginia Gas

Dens L. Ver

Place YOUR statewide ad today any of three easy ways. Gall This Newspaper • Call 1-800-235-6881 Visit www.wvpress.org

Press

Inte or NO cost to you Medicare Pa-STOP everebying FOR YOUR forms to you will be stored for your first property for the third forms to you want free forms and you want free forms to you want for the your free forms to you want for your free forms and you want free forms to you want free forms and you want free forms to you want free forms to you want free forms and you want free forms to you you want free forms to you you want free forms to you you want free forms to you you you y

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

	ce Certification:		API No. 47	- 009 -	00 201
	-dall.		Operator's	Well No. Robe	ert Bone BRK 210H
				Name: Robert	
Notice has	been given:				
	ne provisions in West Virginia Code	§ 22-6A, the Operator has pro	ovided the rea	quired parties v	with the Notice Forms listed
	tract of land as follows:				
State:	WV	UTM NAD 83	Easting:	533827.70	
County:	009-Brooke	O IM NAD 33	Northing:	4452139.91	
District:	Buffalo	Public Road Acc	cess:	Hukill Run Road	VI
Quadrangle:	Bethany	Generally used f	farm name:	Robert Bone	
Watershed:	Buffalo Creek				
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and seed the owners of the surface described the owners of the surface described and (c), so surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen on the subsection (b), the applicant shall that the been completed by the applicant	ibed in subdivisions (1), (2) a ection sixteen of this article; (in turvey pursuant to subsection of this article were waived in tender proof of and certify to	and (4), subs ii) that the re (a), section to writing by	section (b), sec quirement was ten of this arti the surface ov	ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West
	West Virginia Code § 22-6A, the Operator has properly served the require		this Notice C	ertification	
*PLEASE CHI	ECK ALL THAT APPLY	, and the same of			OOG OFFICE USE ONLY
	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	_			
☐ 1. NO		■ NOTICE NOT REQUIRES SEISMIC ACTIVITY WAS	CONDUC	ГЕD	ONLY  RECEIVED/
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRES SEISMIC ACTIVITY WAS	S CONDUC EY WAS CO RED BECAU	TED ONDUCTED JSE	ONLY  RECEIVED/ NOT REQUIRED
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☐ 1. NO	FICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUID SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURV □ NOTICE NOT REQUID NOTICE OF ENTRY FOR WAS CONDUCTED or □ WRITTEN WAIVER	E CONDUC TEY WAS CO RED BECAU PLAT SURV BY SURFAC	ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
☐ 1. NO* ☐ 2. NO* ☐ 3. NO* ☐ 4. NO*	FICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUID SEISMIC ACTIVITY WAS VEY or ■ NO PLAT SURV □ NOTICE NOT REQUID NOTICE OF ENTRY FOR WAS CONDUCTED or □ WRITTEN WAIVER	E CONDUC TEY WAS CO RED BECAU PLAT SURV BY SURFAC	ONDUCTED USE VEY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ RECEIVED/ NOT REQUIRED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided so 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 Horms and Advertisement with publication date verification or the associated Affidavit of Publication. The attached policy of Publication. The attached policy of Publication of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidable perfugers on all service, the return receipt card or other postal receipt for certified mailing. By:

# Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 6A, I certify that as required under West Virginia Code § 22-6A, I have served the attached copics 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

Dee Southall

OTARY SEAL OFFICIAL SEAL

BRITTANY R WOODY

3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022

Its: Regulatory Superviso

Telephone: 832-796-1610 Address: P.O. Box 1300

Jane Lew, WV 26378

304-471-2497 Facsimile:

Email: Dee\_Southall@swn.com

Public, State of West Virginia

Notary Public

My Commission Expires

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 depprivacyofficer@wv.gov.

> RECEIVED
> Office of Oil and Gas WV Department of Environmental Protection

WW-6A (9-13) API NO. 47- 009 - 00 30 OPERATOR WELL NO. Robert Bone BRK 210H Well Pad Name: Robert Bone BRK PAD

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE OF APPLICATION}}{\text{NOTICE OF APPLICATION}}$

Date of Notice of:    Permit FOR ANY	
Delivery method pursuant to West Virginia Code § 22-6A-10(b)  □ PERSONAL □ REGISTERED □ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION  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 certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or tregistered 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 to works of the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts over the surface tract is to be used for or the surface tract or tracts over the surface tract is to be used for or the surface tract or tracts over the surface tract is to be used for or other surface tract is to be used for off the surface tract or tracts over the surface tract is to be used for off 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 impoundment or pit as described in section nine of this article; (3) Any surface owner or water purveyor who is known to the applic have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which i provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which subsponses the work activity is to take place. (6) 11 firm or thousand five hundred feet of the center of the well pad which i provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which subsponses to the subsponse of the she	
Delivery method pursuant to West Virginia Code § 22-6A-10(b)    PERSONAL	
PERSONAL SERVICE MAIL REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION  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 certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The cowners 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 is to be used for roads or other land disturbanc described in the erosion adveloped by the proposed well work, if the surface tract is to be used for roads or other land disturbance described in the erosion adveloped by the proposed well work, if the surface tract is to be used for most or 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 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 impoundment or pit as described in section nine of this article; (3) Any surface owner or water purveyor who is known to the applic have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which i provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which it proposed well work activity is to take place. (e)(1) If more than three tenants in common or other co-owners of interests described records of the sheriff required to be	
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☐ SURFACE OWNER(s)  Name: Robert O. Bone  Address: 611 Paw Paw Ridge Road  Wellsburg, WV 28070  Name:  Address:  □ COAL OWNER OR LESSEE  Name: See Attachment #2  Address:  □ COAL OPERATOR  Name:  Address:  □ SURFACE OWNER(s) (Road and/or Other Disturbance)  Name:  Address:  □ SURFACE OWNER(s) (Road and/or Other Disturbance)  Name:  Address:  □ SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name: See Attachment #1	record of ying the ying the ying the ye as wher, yone or proposed to fany cant to is used to he in the ding any W. Va.
Name: Robert O. Bone Address: See Attachment #2 Address: 611 Paw Paw Ridge Road Wellsburg, WV 26070 Name: COAL OPERATOR Address: Name: Address:  SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Surface OWNER OF WATER WELL Address: Surface OWNER OF WATER WELL Address: Social Attachment #1	
Wellsburg, WV 28070   Name: ☐ COAL OPERATOR   Address: Name:   ☐ SURFACE OWNER(s) (Road and/or Other Disturbance)   Name: ☐ SURFACE OWNER OF WATER WELL   Address: ☐ AND/OR WATER PURVEYOR(s)   Name: Soc Attachment #1	
Name: COAL OPERATOR  Address: Name: Address:  □ SURFACE OWNER(s) (Road and/or Other Disturbance)  Name: Surface OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name: See Attachment #1	
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SURFACE OWNER(s) (Road and/or Other Disturbance)  Name:  Address:  SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name: See Attachment #1	
Address: AND/OR WATER PURVEYOR(s) Name: See Attachment #1	
Name: See Attachment #1	
NEA-	
Office of our	
71001000	
□ OPERATOR OF ANY NATURAL GAS STORAGE THE	D
FIGURACE OWNED(a) (Immoundments on Dita)	4.0
Name: Address:	d.IGas
Name: Address: Address: *Please attach additional forms if necessar Pepartment Proteins	d.IGas

API NO. 47-609 \_00201

OPERATOR WELL NO. ROBERT BONG BRK 210H
Well Pad Name: Robert Bone BRK PAD

Notice is hereby given:

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

# 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, adding contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Roy Scripp 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas reliabled 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. (e) The secretary shall, by December 31, 2012 Heport 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 of the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alterations address the items

API NO. 47-**509** OPERATOR WELL NO. Robert Bone BRK 210H Well Pad Name: Robert Bone BRK PAD

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: RECEIVED
Office of Oil and Gas

Chief, Office of Oil and Gas

Department of Environmental Protection

601 57<sup>th</sup> St. SE

Charleston, WV 25304

(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision a list of persons qualified to environmental protection.

NOTE: VOI ARE NOT REQUIRED TO FILE ANY COMMENT.

Environmental Protection

APR 24 2017

Such persons may request, at the time of submitting written comments, notice of the permit decision and persons qualified to environmental protection. Environmental Protection

# 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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 cleven 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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Office of Oil and Gas
APR 2 4 2017

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47-**809** - **60 20** OPERATOR WELL NO. Robert Bone BRK 210H
Well Pad Name: Robert Bone BRK PAD

Notice is hereby given by:

Well Operator: SWN Production Co., ELC.

Telephone: 632-796-1610

Email: Dee\_Southall@swn.com

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 304-471-2497

# 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 depprivacyofficer@wv.gov.

OFFICIAL SEAL

Notary Public, State of West Virginia

BRITTANY R WOODY

3302 Old Elkins Road

Buckhannon, WV 26201

My commission expires November 27, 2022

Subscribed and sworn before me this

day of \_

Notary Public

My Commission Expires

\_\_\_\_

Attach ment #1

Robert Bone BRK Pad - Water Purveyors w/in 1500'

Sources

Landowner

Address

Michael Aracich

1822 Hukill Run Road, Wellsburg, WV 26070 1 spring

Robert Bone

611 Paw Paw Ridge Lane, Wellsburg, WV 26070 1 spring/ 1 well

Office of Collaboration

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WWD Departmento 6 f

Coal Owners:	Address:	]	S.	۶
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Reserve Coal Properties Company C/O Leatherwood, Inc.	1000 Consol Energy Drive Canonsburg, PA 15317-6506	======================================	20	ا 7
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CNX Land Resources, Inc. C/O Leatherwood, Inc.	1000 Consol Energy Drive Canonsburg, PA 15317-6506	g	Ā	Ž Ž
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611 Paw Paw Ridge Lane Wellsburg, WV 26070 Robert O. Bone

Water/Surface

For delivery information, visit our website at www.usps.come Comhein Coal Company, Consol Pensylvania Coal Company, CERTIFIED MAIL® RECEIPT Reserve Coal Company, Consolidation Coal Company, McElroy Coal Company, CNX Land Resources Canonsburg, PA 15317-6506 U.S. Postal Service" Domestic Mail Only Arbill Signature Restricted Dalliery S Destitled Mail Restricted Deliver Kara Services & Fees Char | [] Return Receipt (electronic) | Cl Adult Signature Required 8988 ESET TODO 9TOL RECEIVED Office of Oil and Gas

APR 24 2017

WV Department of Environmental Protection

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Exira Services & Fees (crieck box, add fee as appropriate)

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| Adult Signature Required

Adult Signature Restricted Delivery

For delivery information, visit our website at www.usps.co $m^lpha_*$ 

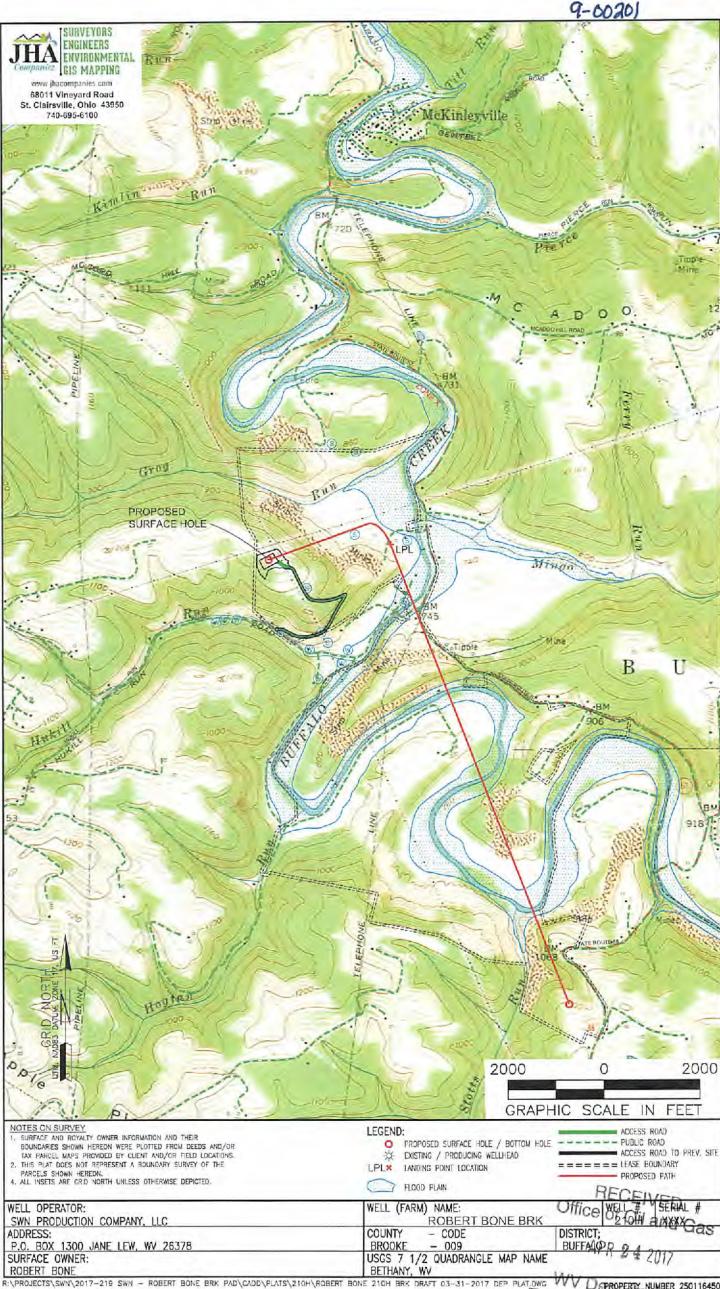
artified Mail Fee

CERTIFIED MAIL® RECEIPT

Domestic Mail Only

GO. LOSTAL DELVICE

1822 Hukill Run Road Wellsburg, WV 26070 Michael Aracich



SURFACE OWNER:
ROBERT BONE
R:\PROJECTS\SWN\2017-219 SWN - ROBERT BONE BRK PAD\CADD\PLATS\210H\ROBERT BONE 210H BRK DRAFT 03-31-2017 DEP PLAT.DWG WV Deproperty NUMBER 2501164509
THURSDAY APRIL 20 2017 10:11AM
Environmental Protection

WW-6A4 (1/12)

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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 Date of Noti	Requirement: Notice she: 04/03/2017	nall be provided at least TEN (10) days prior to Hing at Date Permit Application Filed:	permit application.
Delivery me	hod pursuant to West V	Virginia Code § 22-6A-16(b)	
☐ HAND	■ CERTIF	TED MAIL	
DELIVE	KY KETUK	N RECEIPT REQUESTED	
receipt reque drilling a hor of this subsec subsection m and if availab	sted or hand delivery, given izontal well: <i>Provided</i> , and tion as of the date the notate by be waived in writing by the facsimile number and	b), at least ten days prior to filing a permit application, a re the surface owner notice of its intent to enter upon the That notice given pursuant to subsection (a), section ten- tice was provided to the surface owner: <i>Provided, howe</i> by the surface owner. The notice, if required, shall inclu- electronic mail address of the operator and the operator	e surface owner's land for the purpose of of this article satisfies the requirements ever, That the notice requirements of this de the name, address, telephone number,
		SURFACE OWNER(s):	
Name: Robert		Name:	
	Paw Ridge Ln	Address:	
Wellsburg, WV 2	5070		
State: County: District: Quadrangle:	West Virginia  Brooke  Buffalo  Bethany, WV	Public Road Access:	533,827.70 4,452,139.91 Hukill Run Road Robert Bone BRK
Watershed:	Buffalo Creek	Generally used farm name.	100011201102111
		2-6A-16(b), this notice shall include the name, addre address of the operator and the operator's authorized	
related to ho	izontal drilling may be o	ton, WV 25304 (304-926-0450) or by visiting <u>www.der</u>	Environmental Protection headquarters,
related to hollocated at 60	izontal drilling may be o		Environmental Protection headquarters,
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related to hor located at 60 Notice is he Well Operato	izontal drilling may be of 57th Street, SE, Charlest reby given by:  SWN Production Company.	LLC Authorized Representative:	Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Mike Yates
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related to hoo located at 60  Notice is he Well Operated Address:  Telephone:	reby given by:  SWN Production Company, PO Box 1300, 179 Innovatio Jane Lew, WV 26378  304-517-6603	Authorized Representative:  Address:	Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Mike Yates PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 304-517-6603
related to hor located at 60  Notice is he	reby given by:  SWN Production Company, PO Box 1300, 179 Innovation Jane Lew, WV 26378	Authorized Representative: Address: Telephone:	Environmental Protection headquarters, b.wv.gov/oil-and-gas/pages/default.aspx.  Mike Yates PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378

#### 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 for regulatory requirements, including Freedom of Information for regulatory requirements, including Freedom of Information for regulatory contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

APR 2 4 2017

WV Department of
Environmental Protection

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5	PS Form 3800, July 2014	See	Reverse for Instructions

REGEIVED Office of Oil and Gas

APR 24 2017

WV Department of Environmental Protection WW-6A5 (1/12) Operator Well No. Robert Bone BIRK 210H

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

Notice Time Date of Noti	Requirement: notice ce: 04/03/2017		o later than the filing pplication Filed:	date of permit	application.	
Delivery me	thod pursuant to We	st Virginia Code § ?	22-6A-16(c)			
■ CERTI	FIED MAIL	П	HAND			
	RN RECEIPT REQUI	ESTED	DELIVERY			
return receipt the planned of required to be drilling of a damages to the	requested or hand de operation. The notice e provided by subsecti horizontal well; and ( he surface affected by	livery, give the surface required by this so ion (b), section ten o (3) A proposed surface oil and gas operation	ace owner whose land ubsection shall include f this article to a surfa ace use and compens as to the extent the da	I will be used for de: (1) A copy acc owner whost sation agreement amages are comp	cation, an operator shall, by certified to the drilling of a horizontal well notice of this code section; (2) The informate land will be used in conjunction with the containing an offer of compensation pensable under article six-b of this chap attend in the records of the sheriff at the to	te of the the for oter.
(at the addres	eby provided to the s s listed in the records		time of notice):			
Name: Robert B			Name:			
Address: 611 Wellsburg, WV 26	Paw Paw Ridge Ln		Address	S:		
State: County: District: Quadrangle: Watershed:	West Virginia Brooke Buffalo Bethany, WV Buffalo Creek		Public Road A	Northing:	533,027.70 4,452,139.91 Hukill Run Road Robert Bone BRK	
Pursuant to V to be provide horizontal we surface affect information is	ed by W. Va. Code ell; and (3) A propose ted by oil and gas op related to horizontal of located at 601 57 <sup>th</sup>	§ 22-6A-10(b) to a side of surface use and concernations to the external drilling may be obtained.	surface owner whose empensation agreement the damages are co- lined from the Secret	e land will be un nt containing ar ompensable und ary, at the WV	code section; (2) The information requised in conjunction with the drilling offer of compensation for damages to the article six-b of this chapter. Additionally, and the compensation of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-state-code">www.dep.wv.gov/oil-state-code</a>	of a the onal
Well Operato	T: SWN Production Compa	ny, LLC	Address:	PO Box 1300, 179 l	nnovation Drive	
Telephone:	304-517-6603			Jane Lew, WV 2637	8	
Email:	Michael_Yates@swn.com	m	Facsimile:	304-884-1691		
The Office of duties. Your needed to co appropriately	personal information omply with statutory	may be disclosed to or regulatory required information. If you	o other State agencie tirements, including have any questions a	es or third parti Freedom of In	relephone number, as part of our regular cs in the normal course of business of formation. Act requests. Our office your personal information presses confice of Oil and Gas	r as will

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WV Department of
Environmental Protection

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Office of Oil and Gas

APR 2 4 2017

WV Department of
Environmental Protection



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways 1900 Kanawha Boulevard East • Building Five • Room 110

Charleston, West Virginia 25305-0430 • (304) 558-3505

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

Jim Justice Governor

April 5, 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 Robert Bone Pad, Brooke County

Robert Bone BRK 210H

Dear Mr. Martin.

The West Virginia Division of Highways has transferred Permit #06-2011-0364 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Brooke County Route 30 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, P.E.

Regional Maintenance Engine.
Central Office Oil Recordinator
Office of Oil and Gas

WV Department of Environmental Protection

Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File

Product Name	Product Use	Chemical Name	CAS Number	
		Hydrogen Peroxide	7722-84-1	
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7	
		Peroxyacetic Acid	79-21-0	
GYPTRON T-390 (Champion	Caala labibitaa	Methanol	67-56-1	
Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary	
		Glutaraldehyde	111-30-8	
Bactron K-139 (Champion	Biocide	Quaternary Ammonium Compounds, Benzyl-C12-	68424-85-1	
Technologies)	Biocide	16-Alkyldimethyl, Chlorides	00424-05-1	
		Ethanol	64-17-5	
Bactron K-219 (Champion	Biocide	Methanol	67-56-1	
Technologies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1	
		Methanol	67-56-1	
A264 (Schlumberger)	Corrosion	Aliphatic Acids	Proprietary	
A204 (Schumberger)	Inhibitor	Prop-2-yn-1-ol	107-19-7	
		Aliphatic Alcohols, Ethoxylated #1	Proprietary	
Myacide GA 25 (Schlumberger)	Biocide	Water	7732-18-5	
iviyacide GA 23 (Schlumberger)	biocide	Glutaral	111-30-8	
Scale Inhibitor B317 (Schlumberger)	Scale Inhibitor	Trisodium Ortho Phosphate	7601-54-9	
Scale IIIIIbitoi B317 (Schlumberger)	Scale Inflibitor	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	
Crossifficer 3010 (schildinberger)	Crossillikei	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	Inorganic salt  Hydrotreated light netrology distillate	14808-60-7 VED 64742-47-8 and Gas	
LCA-1 (Halliburton)	Reducer	Hydrotreated light petroleum distillate		
SP BREAKER (Halliburton)	Drooker	Hydrotreated light petroleum distinate 2 1	Proprietary 7775-27-1	
ST DILANER (nameditor)	Breaker	Sodium Persulfate Deno		

Environmental Protection

Product Name	Product Use	Chemical Name	CAS Number
		Methanol	
HAI-150E (Halliburton)	Corrosion	Aliphatic Acids	NA NA
	Inhibitor —	Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	
Diesel Fuel (Halliburton)		Diesel Fuel	68476-34-6
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

RECEIVED
Office of Oil and Gas

APR 24 2017

WV Department of Environmental Protection

OPERATOR:_	SWN Production Co., LLC	_ WELL NO: Rober	t Bone BRK 210H
PAD NAME:_	Robert Bone BRK PAD		
REVIEWED F	3Y:	SIGNATURE:	
	WELL RESTRICTION	ONS CHECKLIST	
	HORIZONTA	L 6A WELL	
Well Restric		* Pac	Built 9/22/
	At Least 100 Feet from Pad and LOD ( Perennial Stream, Lake, Pond, Reservo		trol Feature) to any
	DEP Waiver and Permit Condition	ons	
	At Least 300 Feet from Pad and LOD ( Naturally Producing Trout Stream; OR	including any E&S Con	trol Feature) to any
	DEP Waiver and Permit Condition	ons	
	At Least 1000 Feet from Pad and LOD Groundwater Intake or Public Water Su		entrol Feature) to any
	DEP Waiver and Permit Condit	ions	
	At Least 250 Feet from an Existing Wa Drilled; OR	ter Well or Developed S	Spring to Well Being
	Surface Owner Waiver and Rec	orded with County Cler	k, OR
	DEP Variance and Permit Cond	itions	
	At Least 625 Feet from an Occupied Dy	welling Structure to Cer	nter of the Pad; OR
	Surface Owner Waiver and Rec	orded with County Cler	k, OR
	DEP Variance and Permit Cond	itions	RECEIVED Office of Oil and Gas
	At Least 625 Feet from Agricultural Bu	ildings Larger than 250	0 Square Freeze to the Center

Surface Owner Waiver and Recorded with County Clerkying Amental Protection

of the Pad; OR

DEP Variance and Permit Conditions

### ROBERT BONE BRK PAD CONSTRUCTION AS-BUILT BUFFALO DISTRICT, BROOKE COUNTY, WV **APRIL 2017**

COORDINATES: SITE ENTRANCE (NAD 83) LAT: 40.214996 LONG: -80.601844 AT BONE PAD (NAD 83) LAT: 40.218911 LONG: -80.601750 CENTER OF PAD (NAD 83) LAT: 40.218938 LONG: -80.602417 **GATHERING AREA** (NAD 83) LAT: 40.215111 LONG: -80.501799 **EXISTING WELLS:** BONE 3H (NAD 83)

LAT: 40.219033 LONG: -80.602342

PROPOSED WELLS:

BONE 1H (NAD 83) LAT: 40.218912 LONG: -80.602488

BONE 5H (NAD 83) LAT: 40.218983 LONG: -80.602310

BONE 10H (NAD 83) LAT: 40.219014 LONG: -80.602387

BONE 205H (NAD 83) LAT: 40.218965 LONG: -80.602354

BONE 210H (NAD 83) LAT: 40.218996 LONG: -80.602432

BONE 405H (NAD 83) LAT: 40.218948 LONG: -80.602399

#### SHEET INDEX

C-001 COVER SHEET

C-101 **EVACUATION ROUTE / PREVAILING WIND** C-102 **EVACUATION ROUTE / PREVAILING WIND** 

AS-BUILT OVERVIEW C-201

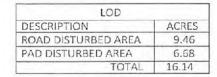
AS-BUILT (SHEET 1) C-301 C-302 AS-BUILT (SHEET 2)

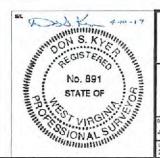
C-303 AS-BUILT (SHEET 3) C-304 AS-BUILT (SHEET 4)

C-401 CONSTRUCTION AS-BUILT ACCESS ROAD PROFILE

REVISION DATE







#### SWN Production Company, LLC



ROBERT BONE

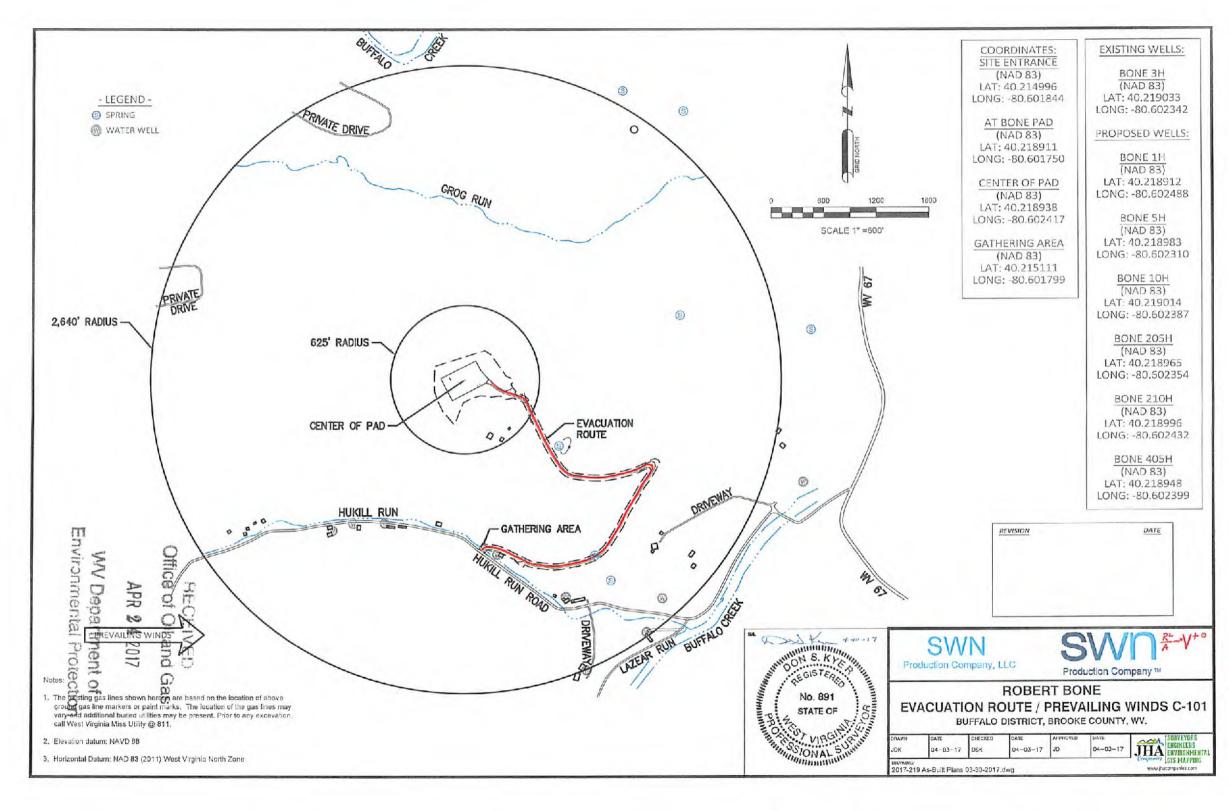
COVER SHEET C-001 BUFFALO DISTRICT, BROOKE COUNTY, WV.

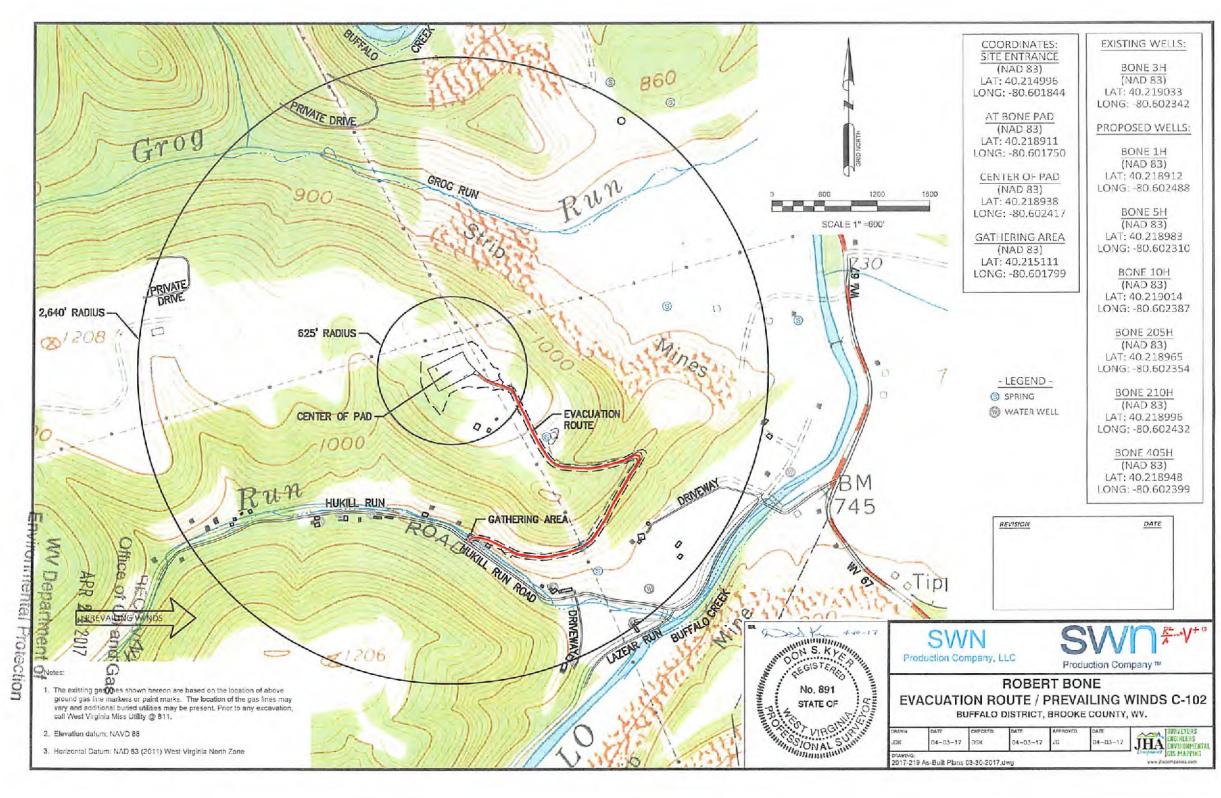
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	1
JDK.	04-03-17	DSK	04-03-17	ND	04-03-17	l,
DRAWING						-

JHA ENGINEERS ENVIRONMENTAL CIS MAPPING

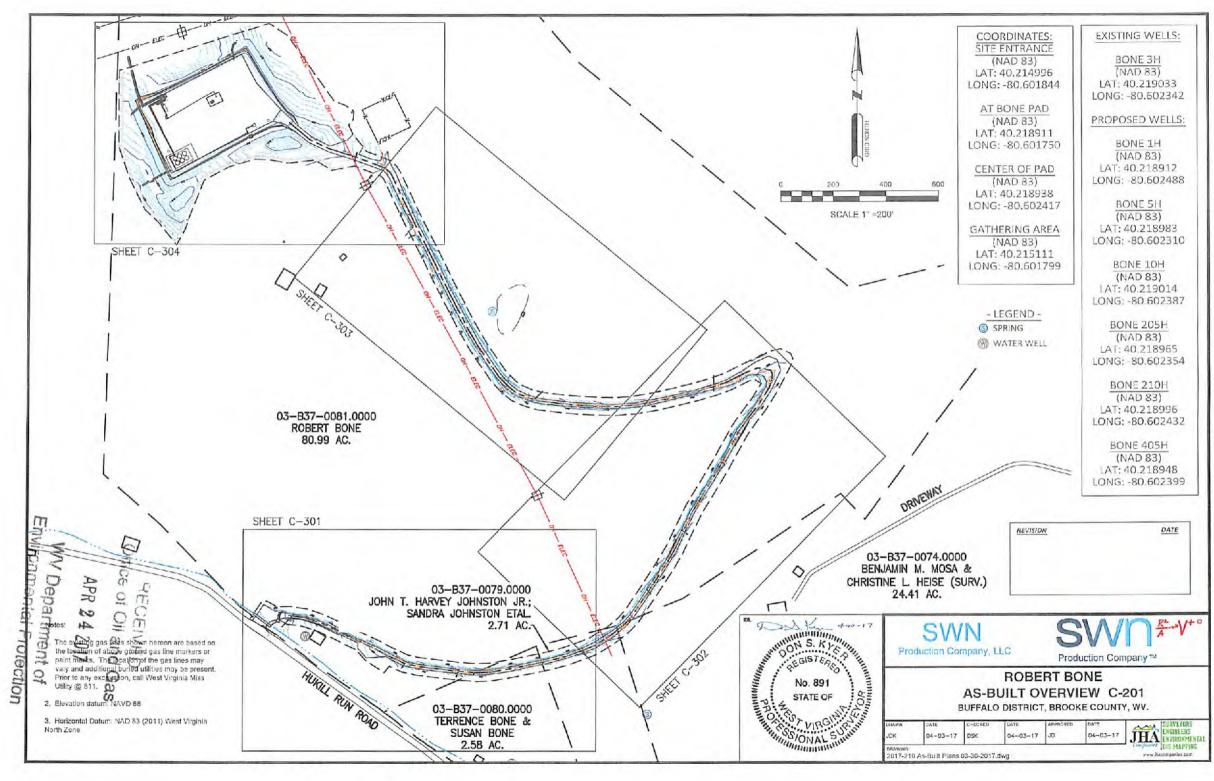
2017-219 As-Built Plans 03-30-2017,dwg



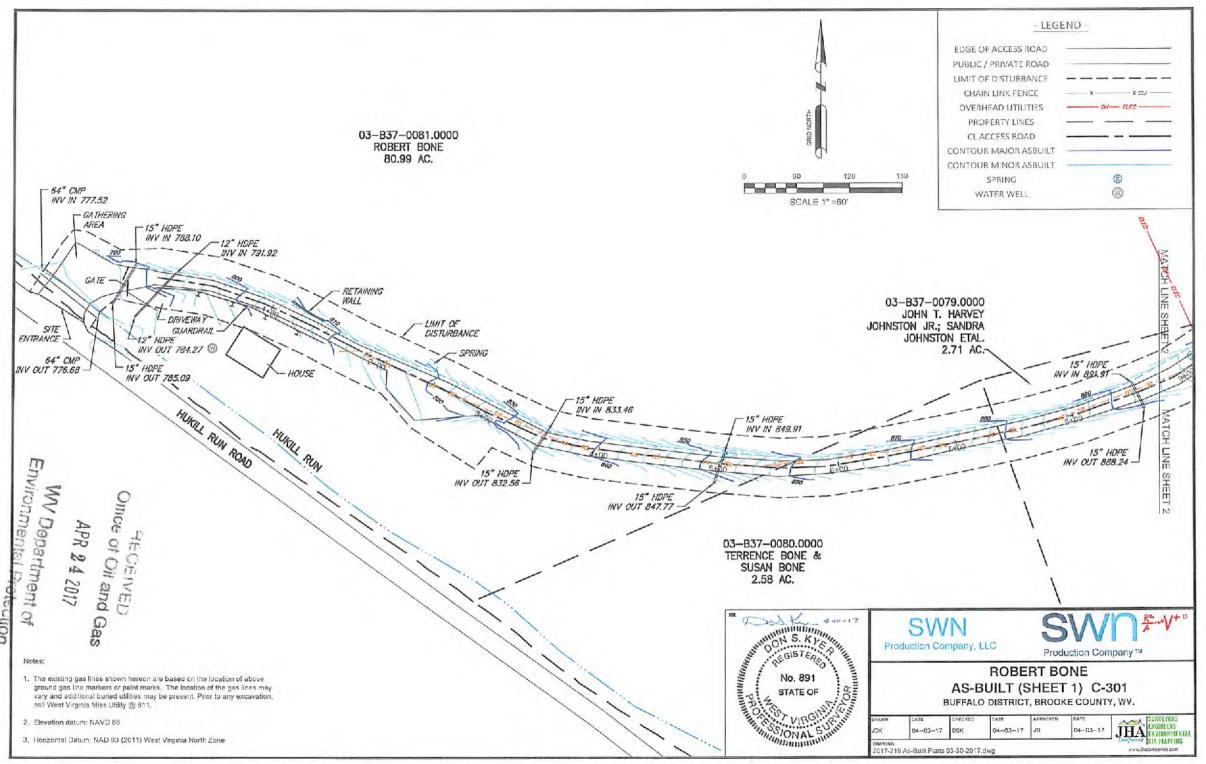










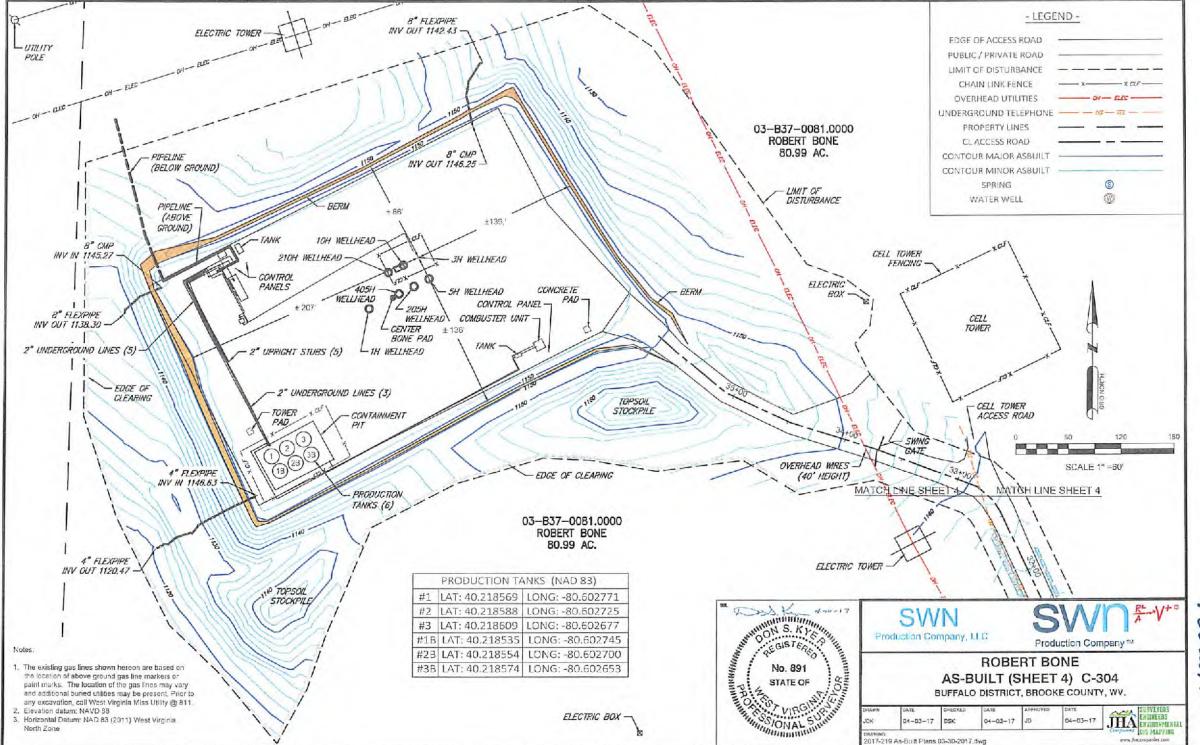


MATCH LINE SHEET

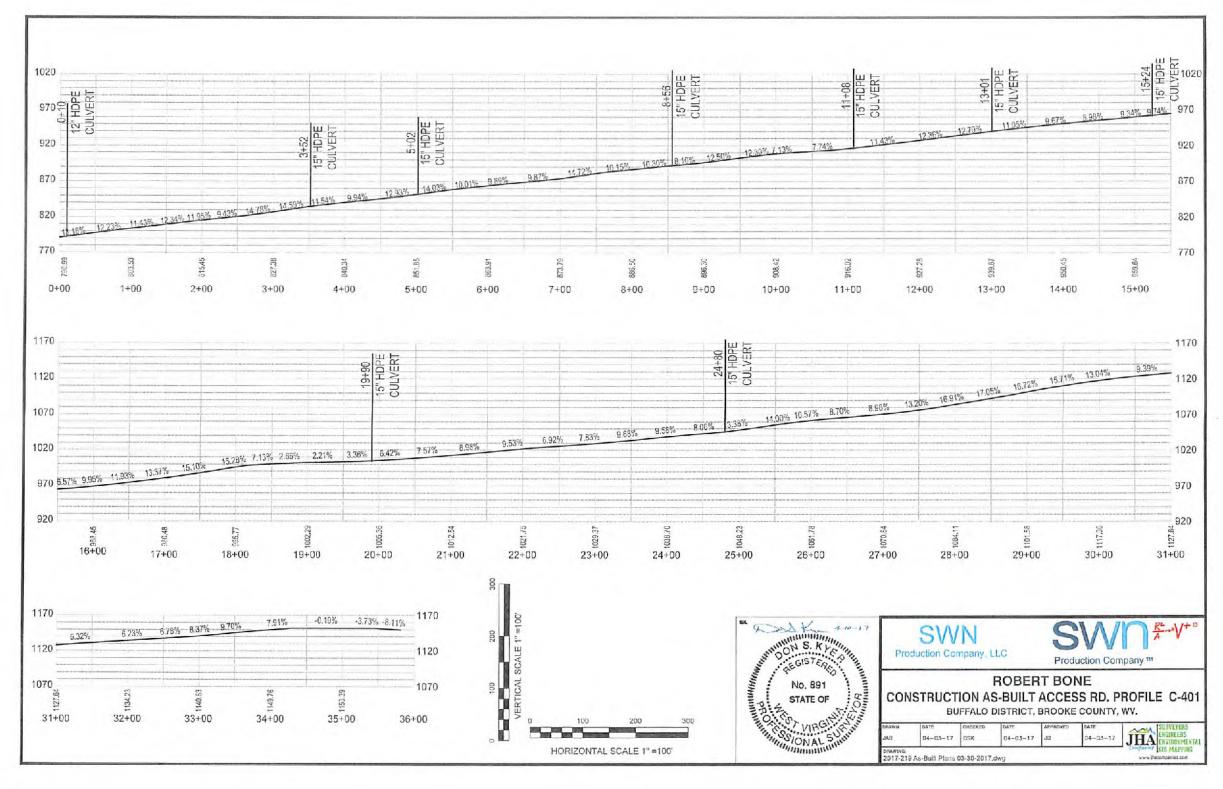
MATCH LINE SHEET 3

10000

- LEGEND -



4-00 2014



OPERATOR: SWN Pro	duction Co., LLC	CK 1019300
PAD NAME: Robert Bo	ne BRK PAD <sub>WELL:</sub> Robert Bone	BRK 210H 5/5
	_NO DATE REVIEWED:	
REVIEWED BY (APPLICAN	TT):	
CONTACT PHONE:	EMAIL:	4700900201
APPLICANT SIGNATURB:		
СН	ECKLIST FOR FILING A PERMIT HORIZONTAL 6A WELL	
Please include these required e Do not use staples.	elements in the Horizontal Well 6A applications	s, in order listed below.
	First Well Subsequent Well	
Fees	\$10,150.00 \$5,150.00	
<del></del>		
Checklist / Cover letter		
WW-6B Notice of App	lication Field Appr	oved
Cement Additives		
Well Bore Schematic		2.0.12
<u>WW-9</u> Fluids/Cuttings	Disposal and Reclamation Plan	Field Approved
Site Safety Plan		Field Approved
Water Management Pla	<u>n</u>	DWWM Approval
Topographic Map w/wat	ter purveyors, showing access road	
Mylar Plat (Signed and	sealed) (Surface Owner matches WW-6A)	
WW-6A1 Lease Inform	ation	RECEIVED Office of Oil and Gas
Road Crossing Letter		APR 2 4 2017
WW-PN Application N  Public Notice (dated co	otice by Publication  py of advertisement or affidavit of publication)	WV Department of Environmental Protection

Revised 12/30/13

WW-6AC Notice Certifications, notarized	y 100g	0	^	0	0	^	0	0
	4/	0	0	3	0	0	4	U
<u>WW-6A</u> Notice of Application notarized w/ any attachments								
Topographic Map with labeled surrounding water wells								
Certified Mail receipts for WW-6A								
WW-6A3 Notice of Entry for Plat Survey								
Certified Mail receipts for WW-6A3								
WW-6A4 Notice of Intent to Drill								
Certified Mail receipts for WW-6A4								
WW-6A5 Notice of Planned Operation								
Certified Mail receipts for WW-6A5								
WW-6RW Well Location Restriction Waiver								
WW-6AW Voluntary Statement of No Objection								
Waiver for Surface Owner at Wellhead								
Waiver for Surface Owner for Roads or other Disturbances								
Waiver for Coal Owner, Operator or Lessee								
Waiver for surface owner for Impoundment or Pit								
Waiver for Surface Owner or Water Purveyor within 1500 feet	of Cen	ter	of I	ad				
Waiver for Natural gas Storage Field Operator								
Road Bonding Agreement / DOH Certification								
Frac Additives List of Chemical Names & CAS #s	CB	y.7	ان.	17				
Site Construction, Reclamation, Erosion & Sediment Control Plans	4>	F	ielo	ΙΑ <sub>Ι</sub>	ppr	ove	d	
Copy of To Scale Plans		RE	C	EIM	Œſ	1		
Inspector packet mailed to inspector (Plat, Topographic Map, WW-6B,	RHic						ias	į
Bond (\$250,000)		APF	2	4	2017	7		
Operator is registered with the SOS	WV	De	pa ent	rtn	ner	nt c	of ctic	nn

Workers Compensation / Unemployment Insurance account is OK 47 0 0 9 0 0 2 0
Professional Engineer/Company has COA
Check for Mine Data at proposed coordinates
Check for Floodplain Data at proposed coordinates
IMP-1A Associated Pit or Impoundment
WW-6A7 Well Restrictions Form w/ Signature
At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland
DEP Waiver and Permit Conditions
At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream
DEP Waiver and Permit Conditions
At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply
DEP Waiver and Permit Conditions
At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled
Surface Owner Waiver and Recorded with County Clerk, OR
DEP Variance and Permit Conditions
At Least 625 Feet from an Occupied Dwelling Structure to the Center of the Pad
Surface Owner Waiver and Recorded with County Clerk, OR
DEP Variance and Permit Conditions
At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the RECEIVED  Office of Oil and Gas
Surface Owner Waiver and Recorded with County Clerk, OR APR 2 4 2017
DEP Variance and Permit Conditions  WV Department of Environmental Protection

API NO. 47-003 - 00201

OPERATOR WELL NO. Robert Bone BRK 210H

Well Pad Name: Robert Bone BRK PAD

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

1) Well Operator: SWN Pro	duction Co., LLC	49447757	009-Brooke	3- Buffalc 247-Bethany
-		Operator ID	County	District Quadrangle
2) Operator's Well Number: F	Robert Bone BRK	210H Well Pa	d Name: Robe	rt Bone BRK PAD
3) Farm Name/Surface Owner	: Robert Bone	Public Ros	ad Access: Huk	ill Run Road
4) Elevation, current ground:	1148' El	levation, proposed	post-construction	on: 1148'
5) Well Type (a) Gas x Other	Oil	Und	erground Storag	ge
(b)If Gas S	hallow x	Deep		
6) Existing Pad: Yes or No <u>y</u>	orizontal x es		6.1	204.2017
<ol> <li>Proposed Target Formation Target Formation- Marcellus, Ta</li> </ol>				Pressure(s): ness- 42', Associated Pressure- 3511
8) Proposed Total Vertical De	pth: 5997'			
9) Formation at Total Vertical	77.5	S		
10) Proposed Total Measured	Depth: 17031'			
11) Proposed Horizontal Leg I	Length: 10213.4'		VYVVVVVV	YYUUUYXXXX
12) Approximate Fresh Water	Strata Depths:	519'	XX 1, 0	
13) Method to Determine Fres	h Water Depths:	offset water wells a	and petrophysica	al analysis from wells on the pad
14) Approximate Saltwater De				
15) Approximate Coal Seam I	Depths: 309'			
16) Approximate Depth to Pos	-	ine, karst, other):	None that we	are aware of.
17) Does Proposed well locati directly overlying or adjacent		ms Yes	No	×
(a) If Yes, provide Mine Info	: Name:			
	Depth:			RECEIVED
	Seam:		Unic	of Oil and Gas
	Owner:			APR 24 2017

WV Department of Environmental Protection

API NO. 47-009 - 0620

OPERATOR WELL NO. Robert Bone BRK 210H Well Pad Name: Robert Bone BRK PAD

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	94#	355'	355'	391 sx/CTS
Coal	9 5/8"	New	J-55	48#	599'	599'	906 sx/CTS
Intermediate	7"	New	J-55	36#	1633'	1633'	828 sx/CTS
Production	5 1/2"	New	HCP-110	20#	17031'	17031'	Lead 1642x tall 3898sx/1007 inside inter-
Tubing	2 3/8'	New	HCP-110	4.7#	Approx. 5871'	Approx. 5871'	
Liners							

C. Blo 92017

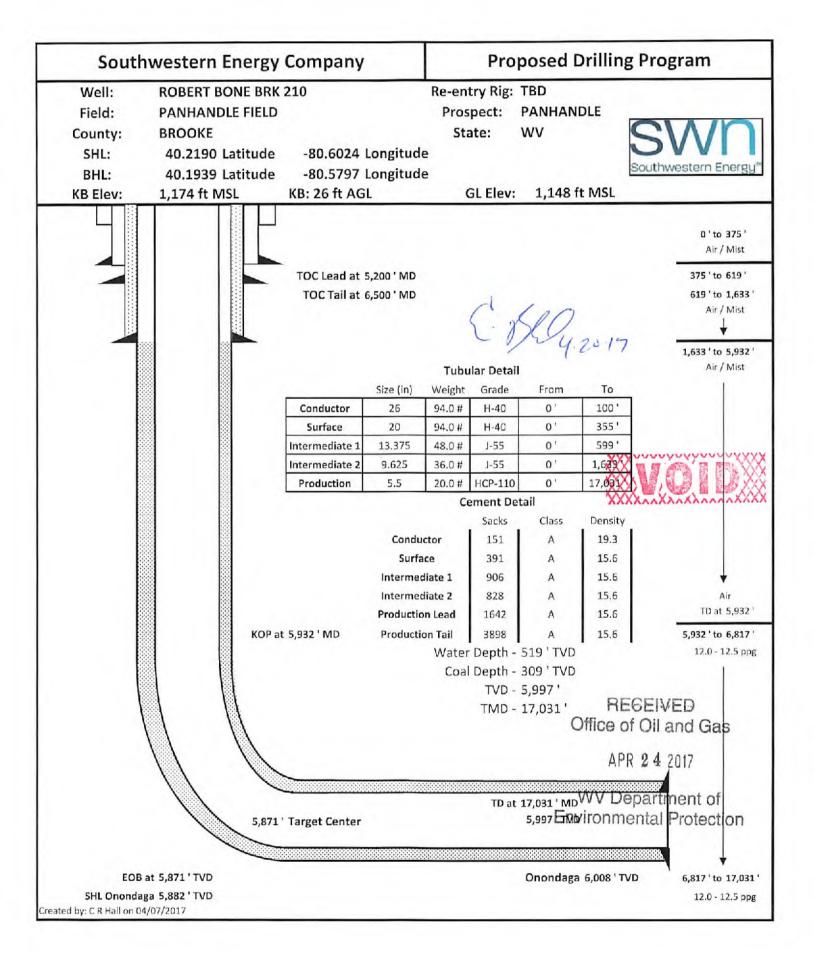
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners						then	

#### **PACKERS**

10K Arrowset AS1-X	
5 1/2"	REGEIVED
	Office of Oil and Gas
	5 1/2"

APR 24 2017

WV Department of Environmental Protection Page 2 of 3



#### Adkins, Laura L

From: Adkins, Laura L

Sent: Wednesday, November 08, 2017 12:12 PM

To: 'Dee Southall'; Brittany Woody

Subject: Bone Pad

Attachments: S2064 Copie17110812260.pdf

Dee and Brittany,

I have reviewed the Robert Bone permit applications and have the following to be reconciled so that the permits can be issued:

Need Mylar plats for the revised wells

Please have 500' buffer shown on the plats

Revised 6A1s for the revised wells

Proof of notice for the Coal Company for the change in coal coverage

Please review all of the schematics against the 6Bs for accuracy

Please compare horizontal lengths on plats with 6Bs, most don't match

Please compare TMDs on plats with TMDs on 6Bs

Please compare the TVD and target formation with the footage shown for target information

Please send page 3 of the 6B for the 205H

I have attached a plat above, please explain the highlighted area....it appears to be a small tract that is not labeled but the well bore is going through.

Do you have inspector approved as-builts?

Please let me know if you have questions or need additional information.

Thanks!

Laura

#### Laura L. Adkins

Environmental Resource Specialist III Permit Review WVDEP Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 304-926-0499 ext. 1495

#### Adkins, Laura L

From: Adkins, Laura L

Sent: Monday, November 13, 2017 12:23 PM

To: 'Dee Southall'; Brittany Woody

Subject: Robert Bone Pad

Just a few things needed to tie these up. :0)

Thanks for sending the updates, really helped!

5H-

Schematic depths don't match the 6B

205H-

Mylar horizontal length doesn't match the the horizontal length on 6B

Schematic shows Onondaga at 5775' and 6B shows Marcellus to 5864'

Need insp app on 6B

Need 3rd page of 6B (my fault, I accidentally voided the one we had..sorry)

What does "pending" mean on the 6A1s?

1H-

Schematic depths don't jive with the 6B10H-

What is the highlighted space on the plat between tracts 4 and 5?

#### Laura L. Adkins

Environmental Resource Specialist III Permit Review WVDEP Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 304-926-0499 ext. 1495

THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN <u>20 DAYS</u> TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.

#### Adkins, Laura L

From:

Dee Southall < Dee\_Southall@SWN.COM>

Sent:

Wednesday, June 06, 2018 9:43 AM

To:

Brewer, Charles T

Cc:

Adkins, Laura L; Brittany Woody

Subject:

Robert Bone Permits

#### Good Morning~

We would like to withdraw the pending Robert Bone BRK permits. There are 5 of them: 10H, 5H, 205H, 1H and 210H. Thank you!!

Thanks.
Dee Southall
Senior Regulatory Analyst



179 Innovation Drive Jane Lew, WV 26378 Tel: 304-884-1614 Cell: 304-997-5233

dee southall@swn.com

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