

#### 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

Tuesday, April 24, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for SANDRA PARR BRK 5H

47-009-00245-00-00

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

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

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

James A. Martin

Operator's Well Number:

SANDRA PARR BRK 5H

Farm Name:

ANTHONY BRUCE PARR, ET

U.S. WELL NUMBER:

47-009-00245-00-00

Horizontal 6A New Drill

Date Issued: 4/24/2018

API Number:	
-------------	--

### PERMIT CONDITIONS

4700900245

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

#### CONDITIONS

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

API Number:

### PERMIT CONDITIONS 4700200245

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

WW-6B (04/15) API NO. 47- 009 OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr BRK Pad

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

1) Well Operat	tor: SWN Proc	duction Co., LLC	494512924	009- Brooke	3-Buffalo 247-Bethany
			Operator ID	County	District Quadrangle
2) Operator's V	Well Number: S	andra Parr BRK	SH Well P	ad Name: Sandra	a Parr BRK Pad
3) Farm Name	/Surface Owner:	Anthony Bruce Pa	rr, ET AL Public Re	oad Access: Atchi	son Road
4) Elevation, c	urrent ground:	1276'	Elevation, propose	d post-constructio	n: 1276'
5) Well Type	(a) Gas x Other	Oil _	Un	derground Storage	
		allow x	Deep		
	Но	orizontal X		d	000
6) Existing Pac	d: Yes or No Ye	es			12-19-17
	1 THE R. P. LEWIS CO., LANSING, MICH.		icipated Thickness arget Base TVD- 6475'		ssure(s): s- 45', Associated Pressure- 4209
8) Proposed To	otal Vertical Dep	oth: 6455' at th	e heel (LP deepe	st TVD)	
	t Total Vertical				
10) Proposed 7	Total Measured I	Depth: 11,609'			
11) Proposed I	Horizontal Leg L	ength: 4682.78	3'		
12) Approxima	ate Fresh Water	Strata Depths:	336'		
13) Method to	Determine Fresh	Water Depths:	Robert Caldwell	Spring	
14) Approxima	ate Saltwater De	pths: 759' TVD	- Salinity Profile		
15) Approxima	ate Coal Seam D	epths: 613'			
16) Approxima	ate Depth to Pos	sible Void (coal 1	mine, karst, other):	None that we a	re aware of.
		on contain coal se o an active mine		No	x
(a) If Yes, pro	ovide Mine Info	: Name:			
		Depth:			RECEIVED Office of Oil and Gas
		Seam:			JAN 9 2018
		Owner:			WV Department of Environmental Protection

WW-6B (04/15) API NO. 47- 009

OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr BRK Pad

#### 18)

#### CASING AND TUBING PROGRAM

Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
20"	New	H-40	94#	100'	100'	CTS
13 3/8"	New	H-40	48#	436'	436'	423 sx/CTS
9 5/8"	New	J-55	36#	2056'	2056'	793 sx/CTS
7"	New	HCP-110	20#	If Needed/As Needed	If Needed/As Needed	If Needed/As Needed
5 1/2"	New	HCP-110	20#	11609'	11609'	Lead 822xx/ Tall 1304 xx/ Inside Internation
2 3/8"	New	HCP-110	4.7#	Approx. 6455'	Approx. 6455'	
	(in) 20" 13 3/8" 9 5/8" 7" 5 1/2"	Size	Size (in)         or Used         Grade           20"         New         H-40           13 3/8"         New         H-40           9 5/8"         New         J-55           7"         New         HCP-110           5 1/2"         New         HCP-110	Size (in)         or Used         Grade (lb/ft)         weight per ft. (lb/ft)           20"         New         H-40         94#           13 3/8"         New         H-40         48#           9 5/8"         New         J-55         36#           7"         New         HCP-110         20#           5 1/2"         New         HCP-110         20#	Size (in)         or Used         Grade (lb/ft)         weight per it. (lb/ft)         FOOTAGE: For Drilling (ft)           20"         New         H-40         94#         100'           13 3/8"         New         H-40         48#         436'           9 5/8"         New         J-55         36#         2056'           7"         New         HCP-110         20#         If Needed/As Needed           5 1/2"         New         HCP-110         20#         11609'	Size (in)         or Used         Grade (lb/ft)         Weight per ft. (lb/ft)         FOOTAGE: For Drilling (ft)         Left in Well (ft)           20"         New         H-40         94#         100'         100'           13 3/8"         New         H-40         48#         436'         436'           9 5/8"         New         J-55         36#         2056'         2056'           7"         New         HCP-110         20#         If Needed/As Needed         If Needed/As Needed           5 1/2"         New         HCP-110         20#         11609'         11609'

C. Ple 12-19-17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal 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	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

#### **PACKERS**

Kind:	10K Arrowset AS-1X	
Sizes:	5 1/2"	RECEIVED Office of Oil and Gas
Depths Set:		JAN 9 2018

WV Department of Environmental Protection WW-6B (10/14) API NO. 47- 009 OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr

19) De	escribe proposed	l well	work.	inclu	ıding	the	drilling	g and	plugg	ging	back	of any	pilot	hole:
--------	------------------	--------	-------	-------	-------	-----	----------	-------	-------	------	------	--------	-------	-------

Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' 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 @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.37
- 22) Area to be disturbed for well pad only, less access road (acres): 4.78
- 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 \*\*\*

Office of Oil and Gas

JAN 9 2018

W Department of Environmental Protection

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.

\*Note: Attach additional sheets as needed.

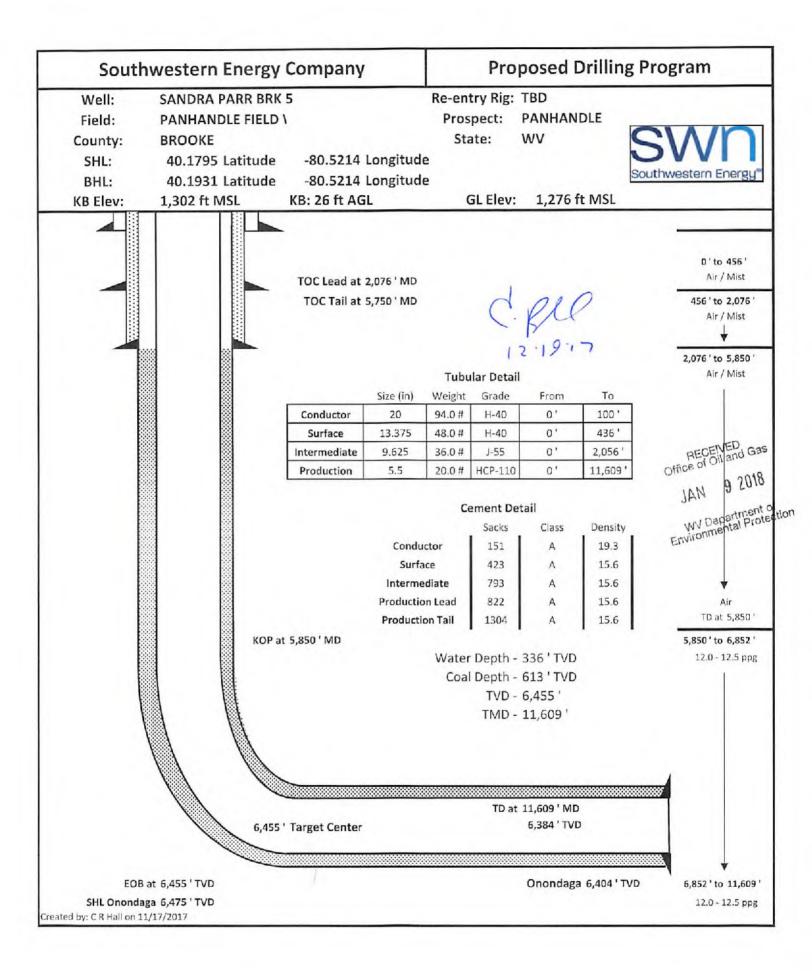
**Schlumberger Cement Additives** 

			ger Cement Additives	
	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
ğ "	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
g	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
毙	D201	retarder	metal oxide	propriatary
ğ			sulphonated synthetic polymer	propriatary
¥	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
=	1		sodium polynaphthalene sulfonate	9008-63-3
<u> </u>	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail	L		chrystalline silica	14808-60-7
l g	D201	retarder	metal oxide	propriatary
<u> </u>	D153	anti-settling	chrystalline silica	14808-60-7

RECEIVED Office of Oil and Gas

810S **9** 2018

WV Department of Environmental Protection





4700900245

SWN Production Company, LLC 179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

November 20, 2017

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

RE: Proposed New Well Sandra Parr BRK 5H

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 Parr'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

Senior Regulatory Analyst

Office of Oil and Gas

JAN 9 2018

WV Department of Environmental Protection

Rt wyto

The Right People doing the Right Things, wisely investing the 22sh 1c2 from to underlying Assets, will create Value+®

### 4700900245

API Number 47 - 009

Operator's Well No. Sandra Parr BRK 5H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Buffalo Creek	Quadrangle Bethany
Do you anticipate using more than 5,000 bbls of water to	o complete the proposed well work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes _	No V If so, what ml.?
Proposed Disposal Method For Treated Pit Was	stes:
Land Application	
	Permit Number 34-155-22403, 34-059-24567, 34-119-28776, 34-167-23882, 34-155-23795, 34-121-23995, 34-155-21893 ) t anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum. )
Off Site Disposal (Supply for	rm WW-9 for disposal location) Is will be put in steel tanks and reused or taken to a permitted disposal facility
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and he	orizontal)? Air, freshwater, oil based, etc. Arcell to KOP, fluid dell with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum,	etc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3A	
Drill cuttings disposal method? Leave in pit, landfill, re	
-If left in pit and plan to solidify what medium	
-I andfill or offsite name/nermit number? Meads	owfill SWF- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oi	il and Gas of any load of drill cuttings or associated waste rejected at any ovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Viola law or regulation can lead to enforcement action.  I certify under penalty of law that I have per application form and all attachments thereto and that	In sand conditions of the GENERAL WATER POLLUTION PERMIT issued West Virginia Department of Environmental Protection. I understand that the tions of any term or condition of the general permit and/or other applicable resonally examined and am familiar with the information submitted on this t, based on my inquiry of those individuals immediately responsible for ion is true, accurate, and complete. I am aware that there are significant possibility of fine or imprisonment.
Company Official Signature	Office of Cil and Gas—
Company Official (Typed Name) Dee Southall	JAN 9 2018
Company Official Title Senior Regulatory Analyst	Environmental Protection
Subscribed and sworn before me this da	y of Member, 201)
Buttany K Woody	Notary Public + Notary Public State of W
1 127/20	BRITTANY R W
My commission expires	#ucknamm WV :

Operator's Well No. Sandra Parr BRK 5H

roposed Revegetation Treatment: Acres Dis	sturbed 20.37	Prevegetation	рН
Lime as determined by pH test min. 2 Tons/acre of		Trevegention	
Fertilizer type 10-20-20	or to correct to pri		
	11-7		
Fertilizer amount 600	lbs/acre		
Mulch_ Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Pern	nanent
Seed Type Ibs/acre Attachment 3B		Seed Type	lbs/acre
rawing(s) of road, location, pit and propose rovided) hotocopied section of involved 7.5' topographan Approved by:			including this info have be
Attach:  Drawing(s) of road, location, pit and propose rovided)  hotocopied section of involved 7.5' topograph and Approved by:  Comments:	phic sheet.		RECEIVED Office of Oil and Gas
Prawing(s) of road, location, pit and propose rovided) hotocopied section of involved 7.5' topographan Approved by:	phic sheet.		Office of Oil and Gas  JAN 9 2018
Prawing(s) of road, location, pit and propose rovided) hotocopied section of involved 7.5' topographan Approved by:	phic sheet.		RECEIVED Office of Oil and Gas
Prawing(s) of road, location, pit and propose rovided) hotocopied section of involved 7.5' topographan Approved by:	phic sheet.		Office of Oil and Ga  JAN 9 2018

### **Attachment 3A**

### **Drilling Mediums**

•
Brine
Barite
Calcium Chloride
Lime
Organophilic Bentonite
Primary and Secondary Emulsifiers
Gilsonite
Calcium Carbonate

Synthetic Oil

**Friction Reducers** 

Office of Oil and Gas

JAN 9 2018

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

50lbs per acre of Winter Wheat

(please allow 7 to 10 days for delivery)

To Order Si	dy Flippo office 570-996-4271 cell 501-2	
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		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS

S	01	L	A	M	EN	1D	M	EN	ITS
---	----	---	---	---	----	----	---	----	-----

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

#### Seeding 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

#### Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

#### 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				L'O
Seed Mixture: SWN Production Organic Mix S		SWN Supplied	90	t of tecti
Organic Timothy	50%	ED	20	Pro
Organic Red or White Clover	50%	気高	9	htal
OR		RECEIVICE of Oil	7	Der
Organic Perennial Ryegrass	50%	fice	JAN	\$6
Organic Red or White Clover	50%	Ó		Envi
Apply @ 100lbs per acre		Apply @ 200	lbs p	er acre
April 16th- Oct. 14th		Oct. 15th-	April	15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @	2 To	ons 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

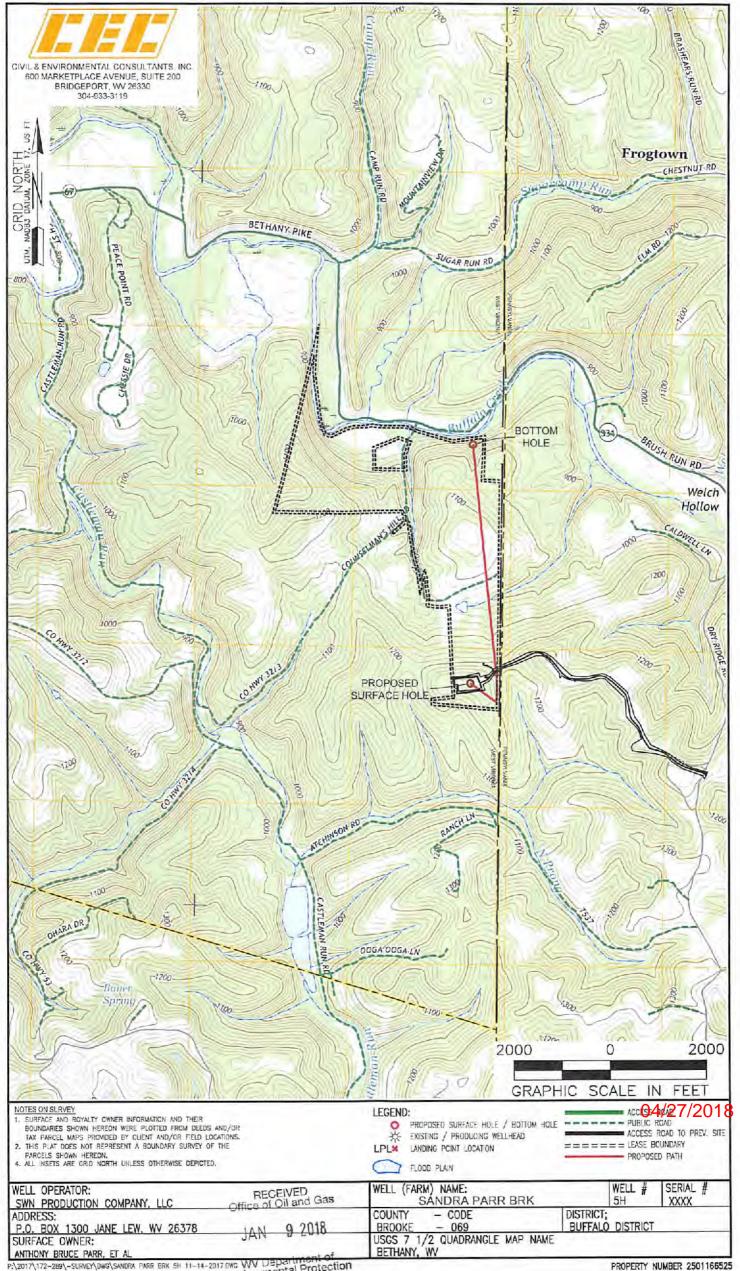
# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

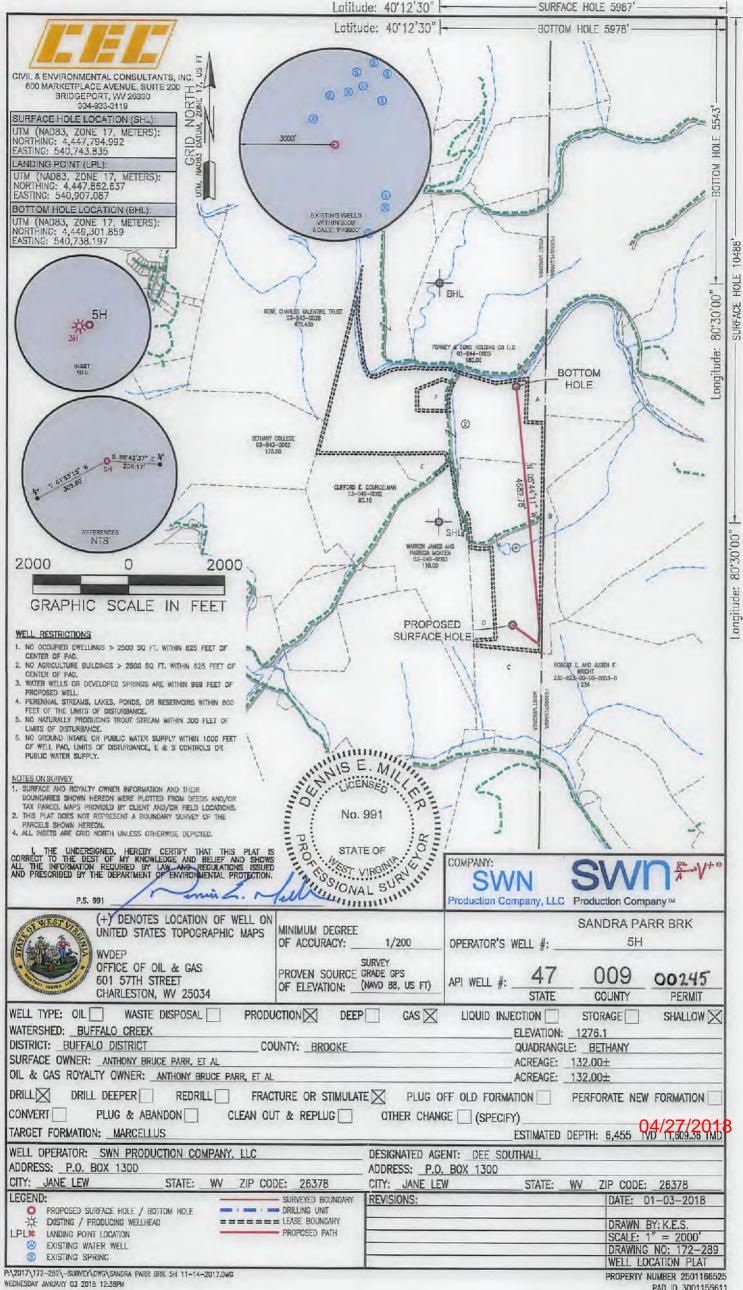


SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: Sandra Parr BRK 5H
Bethany QUAD
Buffalo DISTRICT
Brooke COUNTY, WEST VIRGINIA

Brooke CO	UNIY, WEST VIRG	INIA
Submitted by:  Dee Southal  Senior Regulatory  Title: Analyst	Date: 11/17/2017 SWN Production Co., LLC	
Approved by:  Title: Oil & Gra Zyet	Date: 12:19:17	
Approved by:  Title:	Date:	
SWN PRODUCTION COMPANY,	LLC – CONFIDENTIAL	Office of Oil and Gas  JAN 9 2018  WV Department of Environmental Protection







	WELL BORE TABLE FOR SURFACE OWNE	1	
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	Anthony Bruce Parr, Sandra L. Parr, Raymond Lee, Nancy J. Parr, Michael Mahan and Paula Mahan	03-849-0005	132.26
2	State of West Virginia, Department of Commerce, Division of Natural Resources, Wildlife Resource Section	03-844-0014	171.67

	ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
Α	Charles Toward Jr. and Jayme L. Devos	03-B44-0012	11.00
В	Anthony Bruce Parr, Sandra L. Parr, Raymond Lee, Nancy J. Parr, Michael Mahan and Paula Mahan	024-00-00-0007	49.00
С	Ranch Sportsman Club Inc	03-B49-0010	64.00
D	Anthony Parr, Sandra Parr, Raymond Parr, Nancy Parr, Leonard Boyce and Karen Boyce	03-B49-0004	20.00
Е	Clifford E. Counselman	03-B44-0013	12.59
F	Leland Mackey	03-B44-0014.1	7.33

04/27/2018

REVISIONS:	COMPANY:	SWN Production Company, LLC	SN Production Co	Maria Property Maria
	OPERATOR'S	SANDRA PARR	BRK	DATE: 01-03-2018
	WELL #:	5H		DRAWN BY: K.E.S.
	DISTRICT: BUFFALO DISTRICT	COUNTY: BROOKE	STATE: WV	SCALE: N/A DRAWING NO: 172-289 WELL LOCATION PLAT 2

WW-6A1 (5/13)

Operator's Well No.	Sandra	Parr	BRK	5H
---------------------	--------	------	-----	----

#### 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 –

- 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	01
NI	mhor	

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached 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

JAN 9 2018

WV Department of Environmental Protection

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

Well Operator: SWN Production Company, L.L.C.

By: Staff Landman

Page 1 of 2

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., Agrator 0 0 9 0 0 2 4 5

Sandra Park RDV ELI

Brooke County, West Virginia

W Department of ronmental Protection RECEIVED ice of Oil and Gas 9 2018 AN

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	δ, ,	Š	ROYALTY	BK/PG
1)	03-0849-0005-0000-0000	Anthony Bruce Parr, Sandra L. Parr,	132.26	730093-000	John L. Latimer and Angela Latimer and	Phillips Proc	duction Company	ш	18.00%	9/85
		Raymond Lee, Nancy Parr, Michael Mahan,			Deborah S. Starr	<b>Great Lakes</b>	Energy Partners, Ll	LC		9/395
		and Paula Mahan				Range Reso	urces - Appalachia,	L.L.C.		20/733
						Chesapeake	Appalachia, LLC.			
						SWN Produ	ction Company, L.L.	.C.		10/552
										30/480
2)	03-0844-0014-0000-0000	State of West Virginia, Department of	171.67	731710-000	Bethany College, a Coporation, f/k/a The	Chesapeake	Appalachia, L.L.C.		18.00%	15/239
		Commerce, Division of Natural Resources,			Trustees of Bethany College, f/k/a The	SWN Produ	ction Company, L.L.	.C.		30/480
		Wildlife Resource Section			Trustees of Bethany College, a					
					Corporation					





SWN Production Company, LLC 179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610 Fex: 304 471 2497 www.swn.com

April 5, 2018

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: Sandra Parr BRK 5H in Brooke County, West Virginia, Drilling under Counselman's Hill Road.

Dear Ms. Adkins:

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

Thank you.

Sincerely.

Michael H. Wilder, RPL

Staff Landman

SWN Production Company, LLC

REGEIVED
Office of Oil and Gas

APR 6.2018

WV Department of Environmental Protection

RE wV+

Date of Notice Certification:

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

API No. 47- 009

	10/10		Operator's Well	No. Sand	ra Parr BRK 5H
			Well Pad Name:		
Notice has l	oeen given:				
	e provisions in West Virginia Code § 22-6A	the Operator has prov	ided the required	parties w	rith the Notice Forms listed
	tract of land as follows:			4	
State:	West Virginia	- UTM NAD 83	Easting: 54074	14	
County:	009- Brooke	- UTMINAD 83	Northing: 44477	95	
District:	Buffalo	Public Road Acce	ss: Atchis	on Road	
Quadrangle:	Bethany	Generally used far	rm name: Sandr	a Parr	
Watershed:	Buffalo Creek				
Virginia Cod of this article	of subsection (b), section sixteen of this a g § 22-6A-11(b), the applicant shall tender p have been completed by the applicant.	roof of and certify to th	e secretary that the	he notice	
that the Ope	West Virginia Code § 22-6A, the Operator I rator has properly served the required partie CCK ALL THAT APPLY		is Notice Certific	ation	OOG OFFICE USE
*PLEASE CHI	CK ALL THAT APPLY				ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY OF SEISM	OTICE NOT REQUIR MIC ACTIVITY WAS		10	☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURVEY or	☐ NO PLAT SURVE	Y WAS CONDU	JCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL OF N	OTICE NOT REQUIR	ED BECAUSE		DECEIVED!

NOTICE OF ENTRY FOR PLAT SURVEY

☐ WRITTEN WAIVER BY SURFACE OWNER

Office of Oil and Gas

WV Department of Environmental Protection

9 2018

WAS CONDUCTED or

(PLEASE ATTACH)

#### Required Attachments:

■ 5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

4. NOTICE OF PLANNED OPERATION

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

NOT REQUIRED

RECEIVED

RECEIVED

RECEIVED

### 4700900245

#### Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

Address: P.O. Box 1300

By: Dee Southall Senior Regulatory Analyst Jane Lew, WV 26378

Its:

Facsimile: 304-884-1690

Telephone: 304-884-1610 Dee Southall@swn.com



Subscribed and sworn before me this

Notary Public

My Commission Expire

Email:

#### 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

JAN 9 2018

WV Department of Environmental Protection

47 0 0 9 0 0 2 4 5
API NO. 47-009 OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr BRK Pad

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

Notice Time Require	ement: notice shall be provi	ided no later tha	n the filing date of permit application	
Date of Notice:	Date Permit Applica	ition Filed: \iint	8 18	
PERMIT FOR A WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pur	rsuant to West Virginia C	ode § 22-6A-10	(b)	
☐ PERSONAL	☑ REGISTERED	П метно	OD OF DELIVERY THAT REQUIRE:	S A
SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
the surface of the tract oil and gas leasehold by described in the crosion operator or lessee, in the more coal seams; (4) To well work, if the surfact impoundment or pit as have a water well, spring provide water for consuproposed well work act subsection (b) of this surface of the sheriff reprovision of this article Code R. § 35-8-5.7.a.	on which the well is or is pro- eing developed by the propo- n and sediment control plans are event the tract of land on whe he owners of record of the state tract is to be used for the pro- described in section nine of any or water supply source local umption by humans or dome tivity is to take place. (c)(1) I section hold interests in the late equired to be maintained pure to the contrary, notice to a late requires, in part, that the open	oposed to be local sed well work, if submitted pursual which the well properties that or tra- placement, construction article; (5) A cated within one is stic animals; and all more than three ands, the applicant suant to section e- lien holder is not rator shall also properties.	the well plat to each of the following perseted; (2) The owners of record of the surfact the surface tract is to be used for roads on to subsection (c), section seven of this oposed to be drilled is located [sic] is known to subsection; and gas leasehold be uction, enlargement, alteration, repair, remay surface owner or water purveyor who thousand five hundred feet of the center of (6) The operator of any natural gas storage tenants in common or other co-owners of the may serve the documents required upon hight, article one, chapter eleventa of this notice to a landowner, unless the lien hole to the Well Site Safety Plan ("WSSP" as provided in section 15 of this rule.	are tract or tracts overlying the other land disturbance as article; (3) The coal owner, own to be underlain by one or ing developed by the proposed noval or abandonment of any is known to the applicant to of the well pad which is used to ge field within which the of interests described in the person described in the code. (2) Notwithstanding any der is the landowner. W. Va.
<ul><li>Application Notic</li><li>SURFACE OWNE</li></ul>		&S Plan Notice	☑ Well Plat Notice is hereby provided COAL OWNER OR LESSEE	ded to:
Name: Anthony Bruce Par	r, ET AL	_	Name: Windsor Coal Company	
Address: 120 Jamison Lr.		_	Address: 1000 Consol Energy Drive	
Wellsburg, WV 26070		<b>⇒</b>	Canonsburg, PA 15317	-
Name: Address:			COAL OPERATOR Name:	RECEIVED Office of Oil and Gas
riddiess.			Name: Address:	
SURFACE OWNE	R(s) (Road and/or Other Di	sturbance)		JAN 9 2018
Name:			SURFACE OWNER OF WATER V	VELL
Address:		-	AND/OR WATER PURVEYOR(s) Name: See Attachment 13A	WV Department of Environmental Protection
			Address:	
Address:				TARREST STATE OF THE STATE OF T
	R(s) (Impoundments or Pits		OPERATOR OF ANY NATURAL Name:	
Name:	227.76.7		Address:	
Address:		_	*Please attach additional forms if nece	

Office of Cil and Gas

API NO. 47-009

JAN 9 2018OPERATOR WELL NO. Sandra Parr BRK 5H

Well Pad Name: Sandra Parr

Environmental Protection

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 57th 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, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The sceretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-009

OPERATOR WELL NO. Sandra Parr BRK 5H

Well Pad Name: Sandra Parr

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 complete the location or construction of the applicant's proposed well work to the Secretary at:

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

JAN 9 2018

WV Department of Environmental Protection

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

API NO. 47-009 0 0 0 0 2 4 5
OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr

#### 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 eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Office of Oil and Gas

JAN 9 2018

WV Department of Environmental Protection

API NO. 47-009 OPERATOR WELL NO. Sandra Parr BRK 5H
Well Pad Name: Sandra Parr

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610 Email: Dee\_Southall@swn.com Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-884-1690

#### 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
3002 Old Elikirs Road
Buckharinon, WV 25701
My commission expires November 27, 2022

Subscribed and sworn before me this 17th day of 1000 Notary Public

My Commission Expires 11 27 20

Office of Oil and Gas

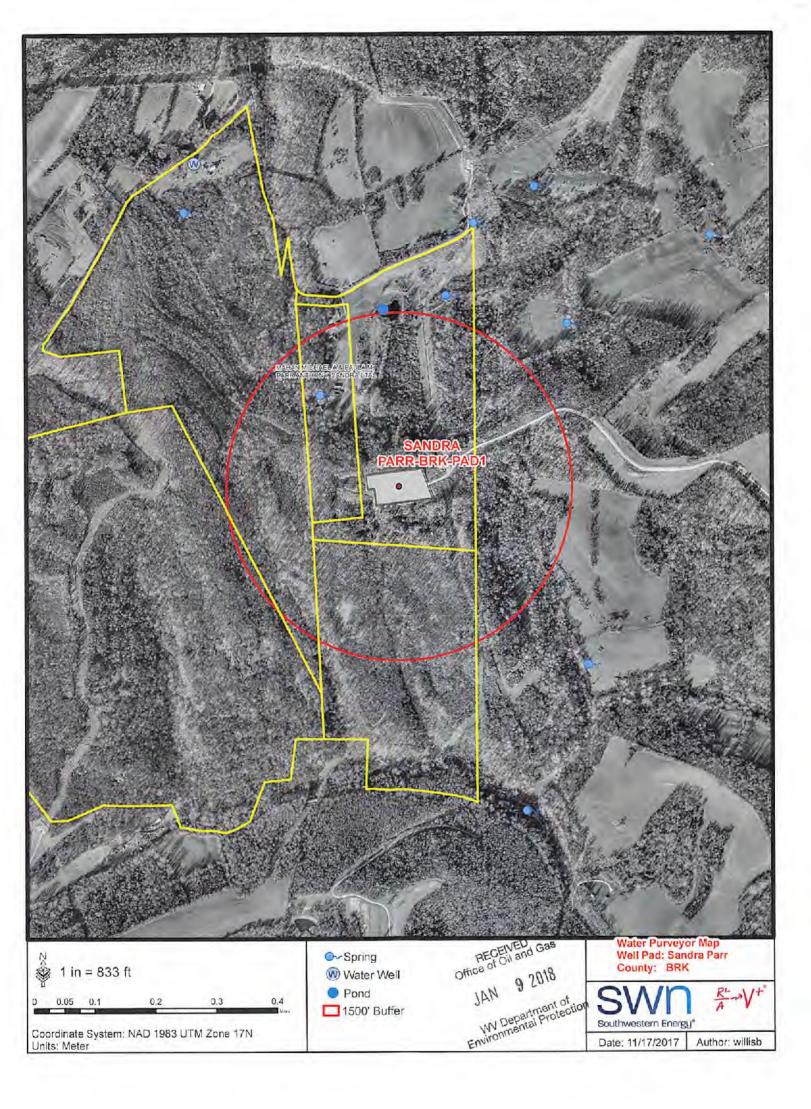
JAN 9 2018

WV Department of Environmental Protection

OWNER	ADDRESS	CITY	STATE	ZIP	WATER SOURCE
MAHAN MICHAEL A & PAULA M; PARR ANTHONY, SANDRA ETAL	120 JAMISON LN	WELLSBURG	WV	260709733	1

WV Department of Environmental Protection

Office of Oil and Gas



Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry				ys but no more than	n FORTY-FIVE (45) days prior to
Date of Notice:	11/2/2017	Date of Pla	nned Entry: 11/9/2017		
Delivery metho	od pursuant t	to West Virginia C	ode § 22-6A-10a		
☐ PERSONA	AL I	REGISTERED	☐ METHOD OF DE	LIVERY THAT RE	EOUIRES A
SERVICE		MAIL		NATURE CONFIR	
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which enable the surfa	e tract to conc n forty-five d act that has fil als underlying control Manua h statement sh ce owner to o	duct any plat surveys ays prior to such en- led a declaration pur g such tract in the co al and the statutes an hall include contact obtain copies from the	s required pursuant to this a try to: (1) The surface owner suant to section thirty-six, a unity tax records. The notice of rules related to oil and gat information, including the a	rticle. Such notice s or of such tract; (2) the criticle six, chapter to be shall include a state of exploration and pro-	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is hereb		0:			
SURFACE	OWNER(s)		■ COA	L OWNER OR LE	SSEE
Name: Sandra & A			<del>-</del>	ndsor Coal Company	
Address: 2810 Me	cKims Ridge Road			1000 Consol Energy Drive	
Colliers, WV 26035			Canonsburg,	PA 15317	
			- E M	CDAL ONDIED()	
Address:			_ I MIN	ERAL OWNER(s)	/
Name:				ndra & Anthony Parr 2810 McKims Ridge Road	
Address:			_ Address: Colliers, W		
				ch additional forms if ne	cessary
a plat survey on	st Virginia Co			ne undersigned well	operator is planning entry to conduct
	Brooke		Public Road		Dry Ridge Road
	Vellsburg		Watershed:		Buffalo Creek
Quadrangle: B	Sethany		Generally us	ed farm name:	Sandra Parr
may be obtained Charleston, WV	d from the Sec 7 25304 (304) he Secretary b	cretary, at the WV I -926-0450). Copies by visiting <u>www.der</u>	Department of Environment	al Protection headquitional information r	il and gas exploration and production uarters, located at 601 57 <sup>th</sup> Street, SE, elated to horizontal drilling may be
Notice is here	by given by	•			
Well Operator:		TION COMPANY, LLC	Address:	PO BOX 1300	
Notice is here Well Operator: Telephone: Email:			Address:  Swn.com Facsimile:	PO BOX 1300 JANE LEW, WV 26378	i

#### 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.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry Date of Notice	: 11/2/2017	n	
D. P		Date of Plan	d Entry: 11/9/2017
Denvery meth	od pursuant	to West Virginia C	
			<u></u>
☐ PERSON		REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE		MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more that beneath such trace owner of miner and Sediment C Secretary, whice enable the surface.	the tract to cond an forty-five d act that has file als underlying Control Manual th statement slace owner to co	duct any plat surveys ays prior to such en- ed a declaration pur g such tract in the co- al and the statutes an hall include contact obtain copies from the	r to filing a permit application, the operator shall provide notice of planned entry quired pursuant to this article. Such notice shall be provided at least seven days to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams into section thirty-six, article six, chapter twenty-two of this code; and (3) any yet ax records. The notice shall include a statement that copies of the state Erosion ales related to oil and gas exploration and production may be obtained from the formation, including the address for a web page on the Secretary's web site, to excretary.
Notice is hereb		0:	
SURFACE			COAL OWNER OR LESSEE
Name: Sandra & /			Name: Windsor Coal Company
Address: 2810 M Colliers, WV 26035	IcKims Ridge Road		Address: 1000 Consol Energy Drive
TATALAN ENDING			Canonsburg, PA 15317
Address:			■ MINERAL OWNER(s)
			Name: Sandra & Anthony Parr
Name:			Address: 2810 McKims Ridge Road
Address:			Colliers, WV 26035
			*please attach additional forms if necessary
Notice is here	ehy given:		
		de 8 22-6A-10(a) r	ce is hereby given that the undersigned well operator is planning entry to conduct
a plat survey or			so is notedy given that the taldersigned well operator is planning entry to conduct
State:	West Virginia	And hardened	Approx. Latitude & Longitude: 40.179524, -80.521620
County:	Brooke		Public Road Access: Dry Ridge Road
-	Wellsburg		Watershed: Buffalo Creek
Quadrangle:	Bethany		Generally used farm name: Sandra Parr
may be obtaine Charleston, WV	d from the Se V 25304 (304	cretary, at the WV I -926-0450). Copies	anual and the statutes and rules related to oil and gas exploration and production artment of Environmental Protection headquarters, located at 601 57th Street, SE, such documents or additional information related to horizontal drifting that has vegov/oil-and-gas/pages/default.aspx.
Notice is here	aby given by		JAN 9 2018
Well Operator:		TON COMPANY, LLC	Address: PO BOX 1300 WAY Department of
Telephone:	304-884-1610	TION COMPANY, LLC	The state of the s
		wn.com or brittany_woody@	70 1 1
Email:			

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	: 11/2/2017 Date of Plan	ned Entry: 11/9/2017
	od pursuant to West Virginia C	
□ PERSON SERVICE	AL REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more the beneath such tr owner of miner and Sediment ( Secretary, whice enable the surfa-	the tract to conduct any plat surveys an forty-five days prior to such entract that has filed a declaration pure rals underlying such tract in the co-control Manual and the statutes and the statutes and the statement shall include contact is accomment to obtain copies from the	rior to filing a permit application, the operator shall provide notice of planned entry required pursuant to this article. Such notice shall be provided at least seven days y to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams uant to section thirty-six, article six, chapter twenty-two of this code; and (3) any my tax records. The notice shall include a statement that copies of the state Erosion rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to execretary.
	by provided to:	
☐ SURFACE		☐ COAL OWNER OR LESSEE
Name:		Name:
Address:		■ MINERAL OWNER(s) /
Name:		Address: 1162 Northview Road
Address:		Wellsburg, WV 26070
		*please attach additional forms if necessary
a plat survey or		otice is hereby given that the undersigned well operator is planning entry to conduct  Approx. Latitude & Longitude: 40.179524,-80.521520
County:	Brooke	Public Road Access: Dry Ridge Road
District:	Wellsburg	Watershed: Buffalo Creek
Quadrangle:	Bethany	Generally used farm name: Sandra Parr
may be obtained Charleston, Wo obtained from	ed from the Secretary, at the WV I V 25304 (304-926-0450). Copies the Secretary by visiting <u>www.dep</u> eby given by:	Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .  RECEIVED Office of Oil and Gas
may be obtained Charleston, Woobtained from Notice is her Well Operator:	ed from the Secretary, at the WV I V 25304 (304-926-0450). Copies the Secretary by visiting <u>www.dep</u> eby given by:	epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .
may be obtained Charleston, Wo obtained from	ed from the Secretary, at the WV I V 25304 (304-926-0450). Copies the Secretary by visiting <u>www.dep</u> eby given by:	epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">wv.gov/oil-and-gas/pages/default.aspx</a> .  RECEIVED Office of Oil and Gas

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Delivery met	thod pursuant to West Virginia C	ode § 22-6A-10a
☐ PERSO	NAL REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC	CE MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	ace tract to conduct any plat surveys than forty-five days prior to such enter tract that has filed a declaration pur terals underlying such tract in the control Manual and the statutes and	Prior to filing a permit application, the operator shall provide notice of planned estrequired pursuant to this article. Such notice shall be provided at least seven dairy to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seas suant to section thirty-six, article six, chapter twenty-two of this code; and (3) are unty tax records. The notice shall include a statement that copies of the state End rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.
	CE OWNER(s)	☐ COAL OWNER OR LESSEE
		Name:Address:
Address:		■ MINERAL OWNER(s)
		Name: John Latimer
Name:		Address: 3266 West Hampton Pointe Drive
Address:		Florence, South Carolina 29501
		*please attach additional forms if necessary
	ereby given: Vest Virginia Code § 22-6A-10(a), r on the tract of land as follows:	notice is hereby given that the undersigned well operator is planning entry to con  Approx. Latitude & Longitude: 40.178524, -80.521620
a plat survey State: County: District:	West Virginia Brooke Wellsburg	Watershed: Buffalo Greek
a plat survey State: County: District:	West Virginia Brooke Wellsburg	
a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron	West Virginia  Brooke  Wellsburg  Bethany  state Erosion and Sediment Control and from the Secretary, at the WV I  WV 25304 (304-926-0450). Copies and the Secretary by visiting www.der	Watershed: Generally used farm name:  Buffalo Greek Sandra Parr  I Manual and the statutes and rules related to oil and gas exploration and product operatment of Environmental Protection headquarters, located at 601 57th Street, of such documents or additional information related to horizontal drilling may news.gov/oil-and-gas/pages/default.aspx.  Office of Oil and Gas
a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron	West Virginia  Brooke  Wellsburg  Bethany  e state Erosion and Sediment Control and from the Secretary, at the WV I  WV 25304 (304-926-0450). Copies at the Secretary by visiting www.der	Watershed: Generally used farm name:  Buffelo Greek Sandra Parr  I Manual and the statutes and rules related to oil and gas exploration and produce Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, of such documents or additional information related to horizontal drilling may
a plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V obtained fron	West Virginia  Brooke  Wellsburg  Bethany  e state Erosion and Sediment Control and from the Secretary, at the WV I  WV 25304 (304-926-0450). Copies at the Secretary by visiting www.der	Watershed: Generally used farm name:  Buffalo Greek Sandra Parr  I Manual and the statutes and rules related to oil and gas exploration and product Department of Environmental Protection headquarters, located at 601 57th Street, of such documents or additional information related to horizontal drilling may D.wv.gov/oil-and-gas/pages/default.aspx.  Buffalo Greek Sandra Parr  Office of Oil and Gas  JAN 9 2018

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Parr BRK

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time I entry	Requirement:	Notice shall be prov	vided at least SEVEN (7) d	ays but no more than	FORTY-FIV	E (45) days prior to
Date of Notice	e: 11/2/2017	Date of Pla	nned Entry: 11/9/2017			
Delivery meth	od pursuant	to West Virginia C	ode § 22-6A-10a			
☐ PERSON	JAL 🔳	REGISTERED	☐ METHOD OF DE	LIVERY THAT RE	OURES A	*1
SERVICE		MAIL		NATURE CONFIR		
on to the surfa but no more th beneath such t owner of mine and Sediment Secretary, whi enable the surfa	ce tract to cond an forty-five d ract that has fil rals underlying Control Manua ch statement si face owner to co	duct any plat survey lays prior to such en led a declaration pur g such tract in the co al and the statutes ar hall include contact obtain copies from the	Prior to filing a permit appl s required pursuant to this a try to: (1) The surface own suant to section thirty-six, bunty tax records. The notion of rules related to oil and goinformation, including the ne secretary.	rticle. Such notice s er of such tract; (2) t article six, chapter to be shall include a sta as exploration and pr	hall be provide o any owner or venty-two of the tement that cop roduction may	d at least seven days lessee of coal seams is code; and (3) any bies of the state Erosion be obtained from the
	by provided to E OWNER(s)		□ co.	L OWNER OR LE	2222	
				L OWNER OR LE		Office RECEIVED
Address:			Address:			Office Of Oil and Gas
Address:			■ MIN	ERAL OWNER(s)	En	WV Department of Protection
				eborah Starr	1	Protect
			Address:	120 Walker Road	/	Tollon
Address:			Follansbee,	VV 26037 ch additional forms if ne		
	est Virginia Co	ode § 22-6A-10(a), 1 and as follows:	notice is hereby given that			nning entry to conduct
State:	West Virginia				40.179524, -80.52	620
County:				Access:	Dry Ridge Road	
District:			Watershed:		Buffalo Creek	
Quadrangle:	Bethany		Generally us	ed farm name:	Sandra Parr	
may be obtain Charleston, W	ed from the Se V 25304 (304	cretary, at the WV I -926-0450). Copies	I Manual and the statutes a Department of Environmen s of such documents or add p.wv.gov/oil-and-gas/pages	al Protection headquitional information re	uarters, located	at 601 57th Street, SE,
Notice is her	reby given by	v:				
Well Operator		TION COMPANY, LLC	Address:	PO BOX 1300		
Telephone:	304-884-1610	A STATE OF THE PARTY OF THE PAR		JANE LEW, WV 26378		
Email:	The second secon	wn.com or brittany_woody@	swn.com Facsimile			
37.5.2.2.2.3.4.		4.1				

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.

Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry			rided at least SEVEN (7) days but no more than FORTY-FIVE (45) days	
Date	of Notice: 11/2/2	Date of Pla	nned Entry: 11/9/2017	
Deliv	ery method pu	rsuant to West Virginia C	ode § 22-6A-10a	
	PERSONAL	■ REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION	
on to but no benea owne and S Secre enabl	the surface trace o more than forte ath such trace that or of minerals un sediment Contro stary, which state the surface ow	t to conduct any plat survey sy-five days prior to such en at has filed a declaration pur derlying such tract in the co I Manual and the statutes are ement shall include contact wher to obtain copies from the	Prior to filing a permit application, the operator shall provide notice of passed required pursuant to this article. Such notice shall be provided at least try to: (1) The surface owner of such tract; (2) to any owner or lessee of suant to section thirty-six, article six, chapter twenty-two of this code; a sunty tax records. The notice shall include a statement that copies of the drules related to oil and gas exploration and production may be obtain information, including the address for a web page on the Secretary's we secretary.	seven days f coal seams and (3) any e state Erosion ed from the
	ce is hereby pro		☐ COAL OWNER OR LESSEE	
	SURFACE OW	NEK(S)		
Name	e: Michael Mahan ess: 120 Jamison La		Name:Address:	
	urg, WV 26070	ine	Address:	
				Enn
Addr	ess.		■ MINERAL OWNER(s)	ECEIVED of Oil and Gas
			Name: Michael Mahan	Gas
Nam			Address: 120 Jamison Lane	9 2018
Addr	ess:		Wellshurn WV 26070	
Noti Pursu	ce is hereby g	iven: ginia Code § 22-6A-10(a),	Wellshurn WV 26070	Dartment of Intal Protection
Noti Pursu a plat	ce is hereby guant to West Virts survey on the t	iven: ginia Code § 22-6A-10(a), ract of land as follows:	*please attach additional forms if necessary Environment  notice is hereby given that the undersigned well operator is planning en	Dartment of Intal Protection
Noti Pursu a plat	ce is hereby g nant to West Vir t survey on the t : West Vii	iven: ginia Code § 22-6A-10(a), ract of land as follows:	*please attach additional forms if necessary Environment to tice is hereby given that the undersigned well operator is planning en	Dartment of Intal Protection
Noti Pursu a plat State Coun	ce is hereby g tant to West Vir t survey on the t t West Vir ty: Brooke	iven: ginia Code § 22-6A-10(a), ract of land as follows: rginia	*please attach additional forms if necessary  *property December 1:	Dartment of Intal Protection
Noti Pursu a plat State Coun	ce is hereby g tant to West Vir t survey on the t t West Vir ty: Brooke	iven: ginia Code § 22-6A-10(a), ract of land as follows: rginia	*please attach additional forms if necessary  *property December 1:	Dartment of Intal Protection
Noti Pursu a plat State Coun Distr Quad Copi may Char obtai	ce is hereby guant to West Virt survey on the tarty: Erooke ict: Wellsbullrangle: Bethany es of the state Ebe obtained from the Server ict ict wellsbullrangle: Bethany	iven: ginia Code § 22-6A-10(a), ract of land as follows: rginia rosion and Sediment Contro in the Secretary, at the WV 304 (304-926-0450). Copie coretary by visiting www.de	*please attach additional forms if necessary  *properties  *please attach additional forms if necessary  *properties  *properties  *please attach additional forms if necessary  *properties  *please attach additional forms if necessary  *properties  *please attach additional forms if necessary  *properties  *properties  *please attach additional forms if necessary  *properties  *proper	try to conduct  ad production  d production  The Street, SE,
Noti Pursu a plat State Cour Distr Quad Copi may Char obtai	ce is hereby guant to West Virt survey on the tarty: Brooke ict: Wellsbultrangle: Bethany es of the state Ebe obtained from the Service is hereby guaranters.	iven: ginia Code § 22-6A-10(a), ract of land as follows: rginia rg rosion and Sediment Contro n the Secretary, at the WV 604 (304-926-0450). Copie ccretary by visiting www.de	*please attach additional forms if necessary  *please attach additional error is planning enterprise at the plannin	try to conduct  ad production  d production  The Street, SE,

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry		Notice shall be prov			ys but no more than	n FORTY-FIV	E (45) days prior to
Date of No	tice: 11/2/2017	Date of Pla	nned Entry:	11/9/2017			
Delivery m	ethod pursuant	to West Virginia C	ode § 22-6A-	10a			
☐ PERS	ONAL E	REGISTERED	☐ MET	HOD OF DEL	IVERY THAT RE	OUIRES A	
SERV	ICE	MAIL			NATURE CONFIR		
on to the su but no more beneath suc owner of m and Sedime Secretary, v	rface tract to cone than forty-five that has finerals underlying the Control Manuschich statement:	duct any plat survey days prior to such en iled a declaration pur	s required put try to: (1) The suant to section ounty tax recond rules relate information,	suant to this are surface owner on thirty-six, a rds. The notice d to oil and gas	ticle. Such notice s r of such tract; (2) t rticle six, chapter to e shall include a sta s exploration and pr	shall be provided to any owner or wenty-two of the atement that cop roduction may be	lessee of coal seams is code; and (3) any ies of the state Erosion be obtained from the
Notice is h	ereby provided	to:					
SURF	ACE OWNER(s)	n	2	☐ COA	LOWNER OR LE	SSEE	
Name: Rayn		,	/	Name:			
Address: 5				Address:			
Follansbee, WV			_	-			
Name:			4	[m]			Office RECEIVED
Address: _			_		ERAL OWNER(s)		Office of Oil and Gas
Name:				Name: Ray			- JAN 9 2010
			-	Address: Follansbee, W	513 Shady Lane		
			_	E. THE RESTORES	h additional forms if ne	cessary	WV Department of Environmental Protection
Pursuant to	hereby given: West Virginia C by on the tract of West Virginia		notice is here		e undersigned well ude & Longitude:		nning entry to conduct
County:	Brooke			Public Road		Dry Ridge Road	
District:	Wellsburg			Watershed:		Buffalo Creek	
Quadrangle	Bethany			Generally use	ed farm name:	Sandra Parr	
may be obte Charleston, obtained fro <b>Notice is I</b> Well Opera	ained from the S WV 25304 (30) om the Secretary hereby given b ttor: SWN PRODUC	ecretary, at the WV I 4-926-0450). Copies by visiting <u>www.de</u>	Department of of such docu	Environmenta ments or addit	il Protection headqi ional information r	uarters, located	ration and production at 601 57 <sup>th</sup> Street, SE, ntal drilling may be
Telephone:	304-884-1610				JANE LEW, WV 26378		
Email:	-	swn.com or brittany_woody@	)swn.com	Facsimile:			
					W 1		

#### 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 <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Parr BRK

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	14100047	**				
Date of Not	tice: 11/2/2017	Date of Plan	nned Entry: 11/9/2017	_		
Delivery m	ethod pursuant	to West Virginia C	ode § 22-6A-10a			
PERSO SERVI		REGISTERED MAIL	☐ METHOD OF DELI RECEIPT OR SIGNA			
on to the sur but no more beneath such owner of mi and Sedimer Secretary, we enable the su	rface tract to cond than forty-five d th tract that has fil inerals underlying at Control Manua hich statement sl urface owner to co	duct any plat surveys lays prior to such ent led a declaration pur g such tract in the co al and the statutes an hall include contact obtain copies from th	Prior to filing a permit applica s required pursuant to this art try to: (1) The surface owner suant to section thirty-six, art ounty tax records. The notice ad rules related to oil and gas information, including the ad- ne secretary.	icle. Such notice s of such tract; (2) to icle six, chapter to shall include a state exploration and pro-	shall be provided a to any owner or le wenty-two of this atement that copie roduction may be	at least seven days ssee of coal seams code; and (3) any s of the state Erosion obtained from the
	ereby provided t		- <u>-</u>			/
■ SURFA	ACE OWNER(s)		☐ COAL	OWNER OR LE	SSEE	
Name: Nancy			Name:			_ \/
Address: 53 Follansbee, WV	6 Rockdale Road 26037		_ Address: _			
			-			_
Address:			- III MINE	RAL OWNER(s)		Office of Oil and Ga
radices			Name: Nano			Oil and Ga
Name:				36 Rockdale Road		- JAN 9 20
			Follansbes, WV			
				additional forms if ne	cessary	WV Department of Environmental Protection
	ereby given:	ode § 22-6A-10(a) u	notice is hereby given that the	undersigned well		
a plat surve	y on the tract of I					
a plat survey State:	y on the tract of I West Virginia		Approx. Latitu	de & Longitude:	40.179524, -80.52162	0
a plat survey State: County:	y on the tract of I West Virginia Brooke	and as follows:	Approx. Latitu Public Road A	de & Longitude:	Dry Ridge Road	0
a plat survey State: County: District:	y on the tract of I West Virginia Brooke Wellsburg		Approx. Latitu Public Road A Watershed:	de & Longitude: ccess:	Dry Ridge Road Buffalo Creek	0
a plat survey State: County: District:	y on the tract of I West Virginia Brooke Wellsburg	and as follows:	Approx. Latitu Public Road A	de & Longitude: ccess:	Dry Ridge Road	0
a plat survey State: County: District: Quadrangle Copies of the may be obtated Charleston, obtained from	y on the tract of I West Virginia Brooke Wellsburg Bethany  ne state Erosion a ained from the Se WV 25304 (304) om the Secretary	and as follows:  and Sediment Contro ceretary, at the WV I 1-926-0450). Copies by visiting www.der	Approx. Latitu Public Road A Watershed:	de & Longitude: ccess: farm name: rules related to o Protection headq onal information r	Dry Ridge Road Buffalo Creek Sandra Parr  il and gas explora uarters, located at	tion and production 601 57th Street, SE,
a plat survey State: County: District: Quadrangle Copies of th may be obta Charleston, obtained fro  Notice is h	y on the tract of I West Virginia Brooke Wellsburg Bethany  ne state Erosion a mined from the Se WV 25304 (304) om the Secretary  nereby given by	and as follows:  and Sediment Contro coretary, at the WV I 1-926-0450). Copies by visiting www.deg	Approx. Latitu Public Road A Watershed: Generally used  I Manual and the statutes and Department of Environmental s of such documents or addition	de & Longitude: ccess:  farm name:  rules related to o Protection headq onal information refault.aspx.	Dry Ridge Road Buffalo Creek Sandra Parr  il and gas explora uarters, located at	tion and production 601 57th Street, SE,
a plat survey State: County: District: Quadrangle Copies of the may be obta Charleston, obtained fro  Notice is h Well Opera	y on the tract of I West Virginia Brooke Wellsburg Bethany  ne state Erosion a mined from the Se WV 25304 (304) om the Secretary  nereby given by tor: SWN PRODUCT	and as follows:  and Sediment Contro ceretary, at the WV I 1-926-0450). Copies by visiting www.der	Approx. Latitu Public Road A Watershed: Generally used Il Manual and the statutes and Department of Environmental s of such documents or addition	de & Longitude: ccess:  I farm name:  I rules related to o Protection headq onal information refault.aspx.	Dry Ridge Road Buffalo Creek Sandra Parr  il and gas explora uarters, located at related to horizont	tion and production 601 57 <sup>th</sup> Street, SE,
a plat survey State: County: District: Quadrangle Copies of the may be obta Charleston, obtained from Notice is the	y on the tract of I West Virginia Brooke Wellsburg Bethany  ne state Erosion a ained from the Se WV 25304 (304 om the Secretary  nereby given by tor: SWN PRODUCT 304-884-1610	and as follows:  and Sediment Contro coretary, at the WV I 1-926-0450). Copies by visiting www.deg	Approx. Latitu Public Road A Watershed: Generally used Il Manual and the statutes and Department of Environmental s of such documents or addition. Department of Environmental Address:	de & Longitude: ccess:  farm name:  rules related to o Protection headq onal information refault.aspx.	Dry Ridge Road Buffalo Creek Sandra Parr  il and gas explora uarters, located at related to horizont	tion and production 601 57th Street, SE,

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Operator Well No. Sandra Pari BRK 5H

# 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 l Date of Notic	Requirement: Notice shall be provided at le: 11/22/2017 Date Pern	least TEN (10) days prior to filling	permit application.
Delivery metl	ood pursuant to West Virginia Code § 22	-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		IDETER	
DELIVE	KI KETUKN KECEIFI KEQU	DESTED	
receipt reques: drilling a hori: of this subsect subsection ma and if availabl	. Va. Code § 22-6A-16(b), at least ten days ted or hand delivery, give the surface owner contal well: <i>Provided</i> , That notice given prion as of the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail addressly provided to the SURFACE OWN	or notice of its intent to enter upon the pursuant to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall includes of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements vever. That the notice requirements of this ude the name, address, telephone number,
Name: Anthony F		Name:	
Address: 120 J	/	Address:	
Wellsburg, WV 26	070		
State: County: District: Quadrangle: Watershed:	ner's land for the purpose of drilling a hori West Virginia Brooke Buffalo Bethany Buffalo Creek	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	540,743.835 4,447,794.992 Atchinson Rd Sandra Parr BRK
Pursuant to V facsimile num related to hori	Shall Include: Vest Virginia Code § 22-6A-16(b), this nuber and electronic mail address of the op- zontal drilling may be obtained from the 5 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30	perator and the operator's authorized Secretary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters,
	reby given by:  SWN Production Company, LLC	Authorized Representative:	JAN 9 2010
Address:	PO Box 1300, 179 Innovation Drive	Address:	DO Por 1300 #70 W. Demoprius
	Jane Lew, WV 26378	2,344,544	Jane Lew, WV 26378
Telephone:	304-517-6603	Telephone:	304-517-6603
Email:	Michael Yates@SWN.com	Email:	Michael Yates@SWN.com
	THE TOTAL CONTRACTOR OF THE PROPERTY OF THE PR		
Facsimile:	304-884-1691	Facsimile:	304-884-1691

Oil and Gas Privacy Notice:

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

47 0 0 9 0 0 2 4 5 Operator Well No. Sandm Parr BRK SH

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

Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)				
■ CERT	FIED MAIL	☐ HAND				
	RN RECEIPT REQUESTED	DELIVERY				
return receip the planned required to b drilling of a damages to t (d) The notic of notice.	W. Va. Code § 22-6A-16(c), no late trequested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas opes required by this section shall be provided to the SURFACE Of the listed in the record of the heart of the surface	the surface owner whose land this subsection shall incluse the notes that article to a surface use and compense described surface use and compense described to the extent the day given to the surface owner a	I will be used for de: (1) A copy ace owner whost ation agreement at agreement at a com	or the drilling of of this code see land will be not containing a pensable under	of a horizon acction; (2) used in con n offer of article six-	atal well notice of The information ajunction with the compensation for b of this chapter.
Name: Anthony	Bruce Parr, ET AL Jamison Ln.	Name: Addres	Si			-
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation on State:	Bruce Parr, ET AL  Jamison Ln.  6070  Peby given:  Vest Virginia Code § 22-6A-16(c), r  the surface owner's land for the pu  West Virginia	Addres	ne undersigned of the transport of the t	oct of land as fo 540,743.835	ollows:	
Name: Anthon; Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation on State: County:	Bruce Parr, ET AL  Jamison Ln.  5070  Peby given:  Vest Virginia Code § 22-6A-16(c), r  the surface owner's land for the pu	Addres  notice is hereby given that the space of drilling a horizontal	ne undersigned lawell on the tra Easting:	ect of land as for	ollows:	ECEIVED of Oil and Gas
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V	Bruce Parr, ET AL  Jamison Ln.  Boto  Peby given:  Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu  West Virginia  Brooke	Addres  notice is hereby given that the street of drilling a horizonta of the UTM NAD 8  Public Road	ne undersigned lawell on the tra Easting:	540,743.835 4,447,794.992	Office of	ECEIVED of Oil and Gas
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation on State: County: District:	Bruce Parr, ET AL  Jamison Ln.  So70  Teby given:  Vest Virginia Code § 22-6A-16(c), I  the surface owner's land for the pu  West Virginia  Brooke  Buffalo	Addres  notice is hereby given that the street of drilling a horizonta of the UTM NAD 8  Public Road	ne undersigned of lawell on the trace as Easting: Northing: Access:	540,743,835 4,447,794,992 Atchinson Rd Sandra Parr BRK	Office o	ECEIVED of Oil and Gas
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V to be provid horizontal w surface affect information	Bruce Parr, ET AL  Jamison Ln.  Booto  Peby given:  Vest Virginia Code § 22-6A-16(c), respectively the surface owner's land for the put West Virginia  Brooke  Buffalo  Bethany  Buffalo Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), respectively the company of the co	Addres  notice is hereby given that the repose of drilling a horizonta UTM NAD 8  Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are compensation the Secretary of the surface of the obtained from the Secretary in the surface of the obtained from the obtained from the obtained from the obtained from the ob	ne undersigned and well on the trade and a Easting: Northing: Access: ad farm name: A copy of this all and will be an ampensable undersy, at the WV	act of land as for 540,743,835  4,447,794,992  Atchinson Rd  Sandra Parr BRK  code section; (used in conjumn offer of compler article six-by Department of	JAN  Environmen  2) The infection with pensation for of this choof Environmen	9 2018  artment of tal Protection  ormation required the drilling of a protection appear. Additional mental Protection
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation or State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V to be provid horizontal w surface affect information headquarters gas/pages/de	Bruce Parr, ET AL  Jamison Ln.  So70  Teby given:  Vest Virginia Code § 22-6A-16(c), r  the surface owner's land for the pu  West Virginia  Brooke  Buffalo  Bethany  Buffalo Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	Addres  notice is hereby given that the repose of drilling a horizonta UTM NAD 8  Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are compensation the Secretary of the surface of the obtained from the Secretary in the surface of the obtained from the obtained from the obtained from the obtained from the ob	ne undersigned and well on the trade and a Easting: Northing: Access: ad farm name: A copy of this all and will be an ampensable undersy, at the WV	act of land as for 540,743,835  4,447,794,992  Atchinson Rd  Sandra Parr BRK  code section; (used in conjumn offer of compler article six-by Department of or by visiting	JAN  Environmen  2) The infection with pensation for of this choof Environmen	9 2018  artment of tal Protection  ormation required the drilling of a protection appear. Additional mental Protection
Name: Anthony Address: 120 Wellsburg, WV 2  Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed:  This Notice Pursuant to V to be provid horizontal w surface affect information headquarters	Bruce Parr, ET AL  Jamison Ln.  So70  Teby given:  Vest Virginia Code § 22-6A-16(c), r  the surface owner's land for the pu  West Virginia  Brooke  Buffalo  Bethany  Buffalo Creek  Shall Include:  Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE, fault.aspx.	Addres  notice is hereby given that the repose of drilling a horizonta  UTM NAD 8  Public Road Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304	ne undersigned of levell on the trade and seasing: Northing: Access: ad farm name: A copy of this is land will be understand and seasing and seasing are containing and seasing at the WV (304-926-0450)	act of land as for 540,743,835  4,447,794,992  Atchinson Rd  Sandra Parr BRK  code section; (used in conjumn offer of compler article six-b) Department of or by visiting	JAN  Environmen  2) The infection with pensation for of this choof Environmen	9 2018  artment of tal Protection  ormation required the drilling of a protection appear. Additional mental Protection

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 <a href="mailto:depprivacvofficer@wv.gov">depprivacvofficer@wv.gov</a>.

4	7	0	0	9	0	0	2	۵	5
				-	100	160	Print.	-	-

API NO.	
OPERATOR WELL NO.	Sandra Parr BRK
	5H
Well Pad Name:	Sandra Parr

Casev V. Saunders

Manager Coal/Gas Coordination

1/26/2018

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

#### Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

	VOLUNTAL	RY STATEMENT	OFN	OORJECTIO	N		
I, <u>Casey V. Saunde</u> listed above, and that I consisting of pages one well work on the tract of	have received copies of a Notice (1) through, incl	ve read the Instructions to se of Application, an Appli	Persons lication fo	Named on Page WW r a Well Work Perm	-6A and the associated provisions it on Form WW-6A and attachments , and the well plat, all for proposed		
State:	West Virginia	WVSPN N.	140.07	Easting:	1,714,529.014		
County:	Brooke	WVSPINI	AD ZI	Northing:	613,343.486		
District:	Buffalo	Public Roa	Public Road Access:				
Quadrangle:		Generally	Generally used farm name:				
Watershed:							
CONSOL Energy's Law Property Right	ts in the State of West Virg	intary Statement of No	Object	tion does not waiy	e CONSOL Energy's Common		
Please check the box	A STATE OF THE STA		FORE	XECUTION BY A	NATURAL PERSON		
☐ SURFACE OW	NER		61				
		24 242 222 2	Signat	ture:			
	NER (Road and/or Other	Disturbance)	Print N	the contract of the contract o			
		RECEIVED Gas		Date:			
SURFACE OW	NER (Impoundments/Pits)	Disturbance) RECEIVED RECEIVED Office of Oil and Gas		No. of the last of	COLOR OF A VENEZA BEREIO		
		4 1/1/0	FOR E	XECUTION BY A	CORPORATION, ETC.		
MCOAL OWNER	OP LESSEE	FEB 1 2011	Comp	any:			

#### Oil and Gas Privacy Notice:

**⊠COAL OPERATOR** 

☐WATER PURVEYOR

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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 act requests. have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacy officer awy go

WV Department of Environmental Protect

By:

Its:

Signature:

Date:



#### 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

November 16, 2017

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

Subject: DOH Permit for the Sandra Parr Pad, Brooke County

Sandra Parr BRK 5H

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has reviewed access to the subject site operated by Southwestern Energy for access to the State Road. The site is accessed from Pennsylvania by a private road not a part of the WVDOH road system.

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

WV Department of Environmental Protection

Very Truly Yours,

Gary K. Clayton, P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

4700900245

P		DDITIVES	
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
TRON T ago		Methanol	67-56-1
TRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary
		Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-	111-30-8
ctron K-139 (Champion Technologies)	Biocide	16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
ctron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
ction it 215 (champion recimologies)	biocide	Quaternary Ammonium Compounds, Benzyl-C12-	68424-85-1
		16-Alkyldimethyl, Chlorides	08424-85-1
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
LCOTOUM (Naico Champion)	Scale Hillipitol	Ethylene Glycol	107-21-1
WED 4. 2000 (114 114 114 114	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
WFRA-2000 (U.S. Well Services)	Amonic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9
		Ethylene glycol	107-21 1
Al-303 (u.s. Well Services)		Cinnamaldehyde	104-55 2
	Mixture	Butyl cellosolve	104-55 2 111-76 2 O
		Formic acid	64-186 /
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527 <u>-49</u> !//
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	68527 <u>-49</u> Mv 7727-54-0
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
		Methanol	67-56-1
	Corrosion Inhibitor	Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
Econo-Cl200 (SWN Well Services)		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
		Acetic Acid	64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Citric Acid	77-92-9
Tacker , mise factor and actaines)	5., 55 61	Water	7732-18-5
		Hydrochloric Acid	7647-01-0
HCL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5
DJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
Julia de la composition de la	i iledoli Neducei	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
DIET DROOM ! DR /gum.vv-light-inter-	Friction Reducer	Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
DJET DR900 LPP (SWN Well Services)	FIICHOII NEGUCEI	Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
		Hydrotreated light petroleum distillate	64742-47-8
FR-76 (Halliburton)	Friction Reducer	Inorganic Salt	Proprietary
	Competen Intitles	No hazardous substance	N/A
HAI-150E (Halliburton)	Corrosion Inhibitor		
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate Hydrotreated light petroleum distillate	Proprietary 64742-47-8
	Scale Inhibitor	Organic phosphonate	Proprietary

RECEIVED Fice of Oil and Gas 9 2018

Department of Protection



### SANDRA PARR WELL PAD **RECLAMATION AS-BUILT**

**BUFFALO DISTRICT BROOKE COUNTY, WEST VIRGINIA** 

	SUE	BMITTAL & REVISION RECORD
NO	DATE	DESCRIPTION
Λ	1508/2017	WYDOH COMMENTS
A	12/07/2017	LIMITS OF DISTRUBUNCE REVISION

LOD	
DESCRIPTION	ACRES
ROAD DISTURBED AREA	15.59
PAD DISTURBED AREA	4.78
TOTAL	20.37

LOD (REVISED)		
DESCRIPTION	ACRES	
ROAD DISTURBED AREA	15.59	
PAD DISTURBED AREA	4.78	
TOTAL	20.37	

ENGINEERING ESTIMATE O	FQUANT	ITIES
WELL SITE PAD DATA (RE	CLAMAT	ON)
REMOVE SUMP	4	EA
BREACH BERM	4	EA
SEED & MULCH DISTURBED MATERIAL PILE	35	CY

SHEET INDEX

TITLE SHEET EVACUATION ROUTE / PREVAILING WIND TS1. EPZ.1 EP22 EVACUATION ROUTE / PREVAILING WIND AS3.1 AS3.2 AS-BUILT OVERVIEW AS-BUILT AS3.3 AS-BUILT

AS3.4 AS-BUILT AS-BUILT AS-BUILT AS35 AS3 B AS3.7

AS-BUILT ACCESS ROAD PROFILE ACCESS ROAD PROFILE ASR4.1 ASR42

ASRA.3 ACCESS BOAD PROFILE ACCESS ROAD PROFILE ASR4.5 ACCESS ROAD PROFILE RECLAMATION PLAN OVERVIEW MRD5.1

RECLAMATION PLAN RECLAMATION PLAN MRD5,3 MRD5.4 MRD5.5

RECLAMATION PLAN RECLAMATION PLAN RECLAMATION PLAN MRD5.8 MRD5.7 MRD6.3 RECLAMATION DETAILS

MRD6,4 RECLAMATION DETAILS RECLAMATION DETAILS RECLAMATION DETAILS RECLAMATION DETAILS MROSS

NAD 83 WEST VIRGINIA NORTH ZONE WELL NAME LATITUDE LONGITUDE H3 (EXISTING) 40,179542 -80.521473

WELLSITE LOCATIONS	NAD 83 WEST VIRGINIA NORTH ZONE		
	LATITUDE	LONGITUDE	
BEGINNING OF MAIN ACCESS ROAD	40.174563	-80.503704	
MAIN ACCESS ROAD AT PAD	40.179560	-80.520766	
CENTER OF PAD	40.179497	-80.521581	
GATHERING AREA	40.175540	-80.506555	



CALL BEFORE YOU DIG!





Eastern

WVDEP OOG ACCEPTED AS-BUILT

VA 1 217/2018

PAD ID 3001155611

PENNSYLVANIA



Civil & Environmental Consultants, Inc.

600 Marketplace Ave - Suits 200 - Bridgeport, WV 26330 Ph; 304,933,3119 - Fac: 304,933,3027

SOUTHWESTERN PRODUCTION COMPANY SANDRA PARR WELL PAD **BUFFALO DISTRICT** 

BROOKE COUNTY, WEST VIRGINIA SANDRA PARR RECLAMATION AS-BUILT

TITLE SHEET

www.ceclng.com JDR APPROVED BY: DEM FIGURE NO DRAWN BY: K.E.S. CHECKED BY: **TS1** AS NOTED PROJECT NO: 172-280 MAY 2017 DWG SCALE:

NORTH

PROJECT AREA

