

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

Wednesday, April 18, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for STATE OF WV DNR B BRK 6H

47-009-00247-00-00

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

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

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

> James A. Martin Chief

Operator's Well Number: STATE OF WV DNR B BRK 6

Farm Name: STATE OF WEST VIRGINIA,

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-009-00247-00-00

Date Issued: 4/18/2018

PERMIT CONDITIONS

4700900247

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.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

PERMIT CONDITIONS 4700900247

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. 47-09 -		
OPERATOR WEL	L NO.	SCHOOL ALL BUILD ALL CO.
Well Pad Name	: State o	FWV DNR B BRK Pad

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

1) Well Operator: SWN Prod	uction Co., LLC	494512924	009-Brooke	4- Cross	620- Steubenville
-, vp		Operator ID	County		Quadrangle
2) Operator's Well Number: S	ate of WV DNR B	BRK 6H Well Pa	ad Name: State	of WV DNF	R B BRK Pad
3) Farm Name/Surface Owner:	Subsect YAV Occupant of Commences-DAY A Prob	Public Ro	ad Access: Ter	nt Church Ro	oad
4) Elevation, current ground:	1201' E	levation, proposed	d post-constructi	on: 1201'	
5) Well Type (a) Gas X	Oil	Une	derground Stora	ge	
Other				· · · · · · · · · · · · · · · · · · ·	
` '	allow X	Deep			
	rizontal X		\sim	110	_
6) Existing Pad: Yes or No Ye			_ (·);	W.	(2-6-17
7) Proposed Target Formation(s), Depth(s), Antic	cipated Thickness	and Expected P.	ressure(s):	
Target Formation- 160' into Onondaga, Pilot hola.	watesats target tob ton- op	30', (arget trase (VD- 5//3',	Anticipated Thickness-43'	+ 100' into Onendaga,	Associated Pressure- 3753
8) Proposed Total Vertical Dep	th: 5773' TVD o	f Pilot Hole			
) Formation at Total Vertical I	Depth: Onondag	ja	-		
10) Proposed Total Measured I	Depth: 12511'				
l 1) Proposed Horizontal Leg L	ength: 6437.44'				
12) Approximate Fresh Water S	Strata Depths:	541'			
(3) Method to Determine Fresh	Water Depths:	Salinity Profile de	eeper than nea	rby water we	ell at <300
14) Approximate Saltwater Dep					
15) Approximate Coal Seam D	epths: 133'				
16) Approximate Depth to Pos	sible Void (coal m	ine, karst, other):	None that we	are aware o	f.
 Does Proposed well location directly overlying or adjacent to 		ms Yes`	No	<u>x</u>	RECEIVED Office of Oil an
(a) If Yes, provide Mine Info	: Name:				JAN 1 6 2
	Depth:				
	Seam:				W Departme Environmental Pr
	Owner:				
	•				

Page 1 of 3

WW-6B (04/15) API NO. 47- 09 OPERATOR WELL NO. State of WY DAR B BRK 64
Well Pad Name: State of WY DAR B BRK Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8**	New	H-40	48#	621'	621'	584 sx/CTS
Coal	9 5/8"	New	J-55	36#	1520'	1520'	565 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	12511'	12511'	land FFEM to 1 162 to 4 (1) Female 2 (1)
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 5664'	Approx. 5664'	
Liners							

CDD 1018-17

Wellbore Diameter (in)	Wall Thickness (in) 0.25	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
30"	0.25				
	0.23	2120	81	Class A	1.19/50% Excess
17.5"	0.380	2740	633	Class A	1.19/50% Excess
12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
4.778"	0.190				
		00	3 3.1	0.001	8 3/4 0.301 12000

PACKERS

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

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Office of Oil and Gas

JAN 1 6 2018

WW-6B
(10/14)

API NO. 47-09	
OPERATOR WELL NO	State of WV DNR B BRK 6H
Well Pad Name: State	of WV DNR B BRK Pad

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

Drill the pilot hole to approximately 100 ft below the top of the Onondaga Formation. Estimated top of Onondaga is at 5679' at the Pilot Hole location. Log and evaluate pilot hole to confirm the Onondaga Top and confirm Marcellus Interval formation characteristics. After pilot hole evaluation is completed, trip in hole with a cementing BHA and spot cement plug from Pilot Hole TD to approximately 200' above planned KOP at 5093' to isolate Onondaga from shallower intervals. Trip in hole, tag top of plugback cement, and dress off cement plug to desired kickoff point. If necessary, install mechanical whipstock system to sidetrack well at kickoff point. Build angle to the planned land point and trajectory in the Marcellus Formation and drill horizontal lateral to planned TD

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): 13.50							
22) Area to be disturbed for well pad only, less access road (acres): 9.31							
23) Describe centralizer placement for each casing string:							
All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.							
24) Describe all cement additives associated with each cement type:							
See Attachment ***							

25) Proposed borehole conditioning procedures:

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

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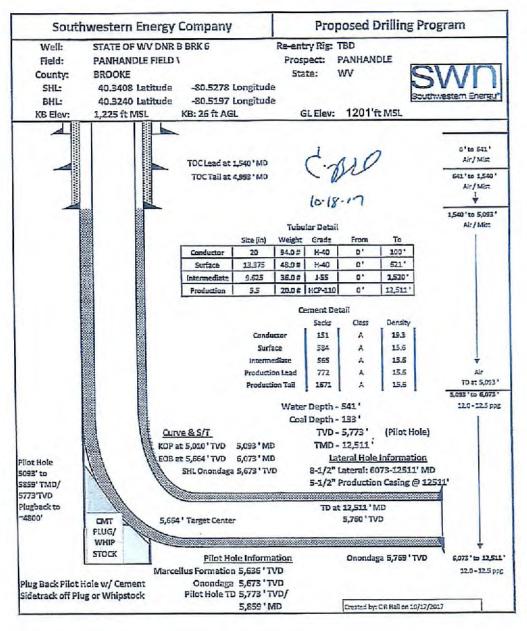
^{*}Note: Attach additional sheets as needed.

Schlumberger	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
g g	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene głycol	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
pa	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
ĘĘ	D201	retarder	metal oxide	propriatary
πp			sulphonated synthetic polymer	propriatary
Pre-	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
=			sodium polynaphthalene sulfonate	9008-63-3
Ē	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
l ag	D201	retarder	metal oxide	propriatary
ž	D153	anti-settling	chrystalline silica	14808-60-7

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STATE OF WEST VIRGINIA DNR BRK 6H

Area of Review

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
4700970002	HOPE NATURAL GAS COMPANY	COMPLETED	40.343606	-80.536552	N/A	N/A	N/A
4700990206	N/A	N/A	40.341687	-80.53199	N/A	N/A	N/A
4700970035	HOPE NATURAL GAS COMPANY	COMPLETED	40.333403	-80.530863	2400	N/A	N/A
4700900122	SWN PRODUCTION COMPANY, LLC	COMPLETED	40.340877	-80.527755	5713	MARCELLUS SHALE	N/A
4700900134	SWN PRODUCTION COMPANY, LLC	COMPLETED	40.340839	-80.527761	5630	MARCELLUS SHALE	N/A

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WW Department of Environmental Protection

04/20/2018

WW-9 (4/16)

My commission expires

API Number 47 - 009

Operator's Well No. State of WV DNR B BRK 6H

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) Upper Ohio North	Quadrangle Steubenville East
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No V	complete the proposed well work? Yes ✓ No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No / If so, what ml.?
Proposed Disposal Method For Treated Pit Wast	28:
Land Application	
	Permit Number 34-155-22403, 34-058-24067, 54-119-28776 34-167-23802, 34-155-23785, 34-121-25995, 54-155-21893)
Reuse (at API Number_at next	inticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.
Off Site Disposal (Supply form Other (Explain_flow back fluids	n WW-9 for disposal location) 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 ho	izontal)? Air, freshwater, oil based, etc. Ard drill to KCH, fluid drill with SCHM from KCP to TO
-If oil based, what type? Synthetic, petroleum, e	c. Synthetic Oil Base RECEIVED Office of Oil and Gas
dditives to be used in drilling medium? Attachment 3A	JAN ± 6 2018
rill cuttings disposal method? Leave in pit, landfill, ren	
-If left in pit and plan to solidify what medium w	
	fill SWF- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oil	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violati aw or regulation can lead to enforcement action. I certify under penalty of law that I have pers application form and all attachments thereto and that,	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable onally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for in is true, accurate, and complete. I am aware that there are significant ossibility of fine or imprisonment.
Company Official Signature	
Company Official (Typed Name) Dee Southall	
Company Official Title Senior Regulatory Analyst	
Subscribed and sworn before me this Sth day	of OFFICIAL SEAL Notary Public State of West Vi BRITTANY B WOOD 3202 Old Elkins Road Buckhaman, WV 28261

4700900247

Operator's Well No. State of WV DNR B BRK 6H

roposed Revegetation Treatmen	t: Acres Disturbe	d 13.50	Prevegetation pH	[
Lime as determined by pH test min.2	Tons/acre or to c	correct to pH 9.31		
Fertilizer type 10-20-2	0			
Fertilizer amount 600		lbs/acre		
Mulch_ Hay/Straw 2.5	5	Tons/acre		
		Seed Mixtures		
Тетро	rary		Permar	nent
Seed Type Attachment 3B	lbs/acre		Seed Type	lbs/acre
laps(s) of road, location, pit and				
ttach: [Aps(s) of road, location, pit and rovided). If water from the pit we creage, of the land application and hotocopied section of involved and the complex of the land application and the land application are land application and the land application are land application and the land application and the land application are land application and the land application and the land application and the land application and the land application are land application are land application are land application are land application and application are land application are l	ill be land applied rea.	I, include dimensions (L		
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Attachment 3A Drilling Mediums

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

Friction Reducers

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WVD Seeding Specification

ORGANIC PROPERTIES



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

(please allow 7 to 10 days for delivery)

Seed Mixture: ROW Mix	SWN 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

SOIL AMENDMENTS	
SOIL AMENDMENTS 10-20-20 Fertilizer	

*Apply @ 500lbs per Acre Apply @ 2 Tons per Acre

50lbs per acre of Winter Wheat

*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:

Pelletized Lime

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.

Seed Mixture: SWN Production Org	anic Mix	SWN Supplied	
Organic Timothy	50%		
Organic Red or White Clover	50%		
OR			
Organic Perennial Ryegrass	50%		
Organic Red or White Clover	50%		
Apply @ 100lbs per acre		Apply @ 200lbs per acre	

Organic Fertilizer @ 200lbs per Acre Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated	as j	urisdictional	wetlands)
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April 16th- Oct. 14th

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 April 16th- Oct. 14th Apply @ 50lbs per acre Oct. 15th- April 15th

Oct. 15th- April 15th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

У

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

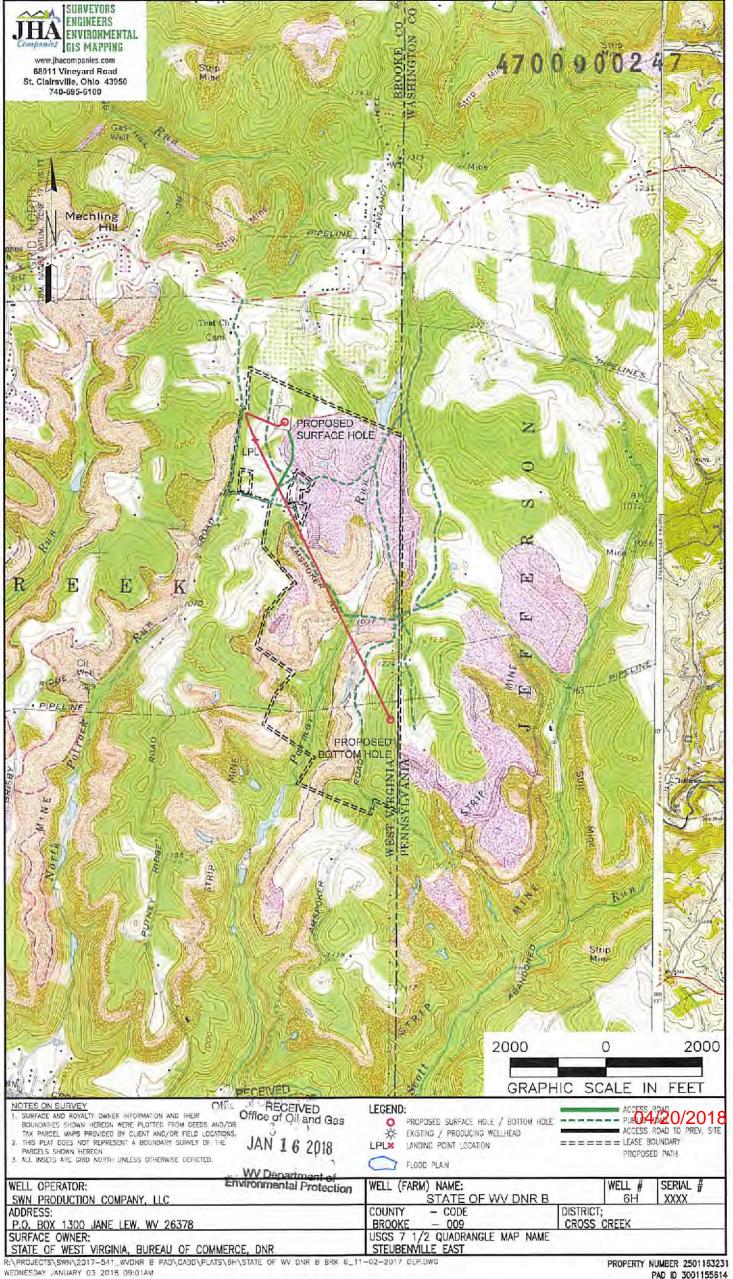


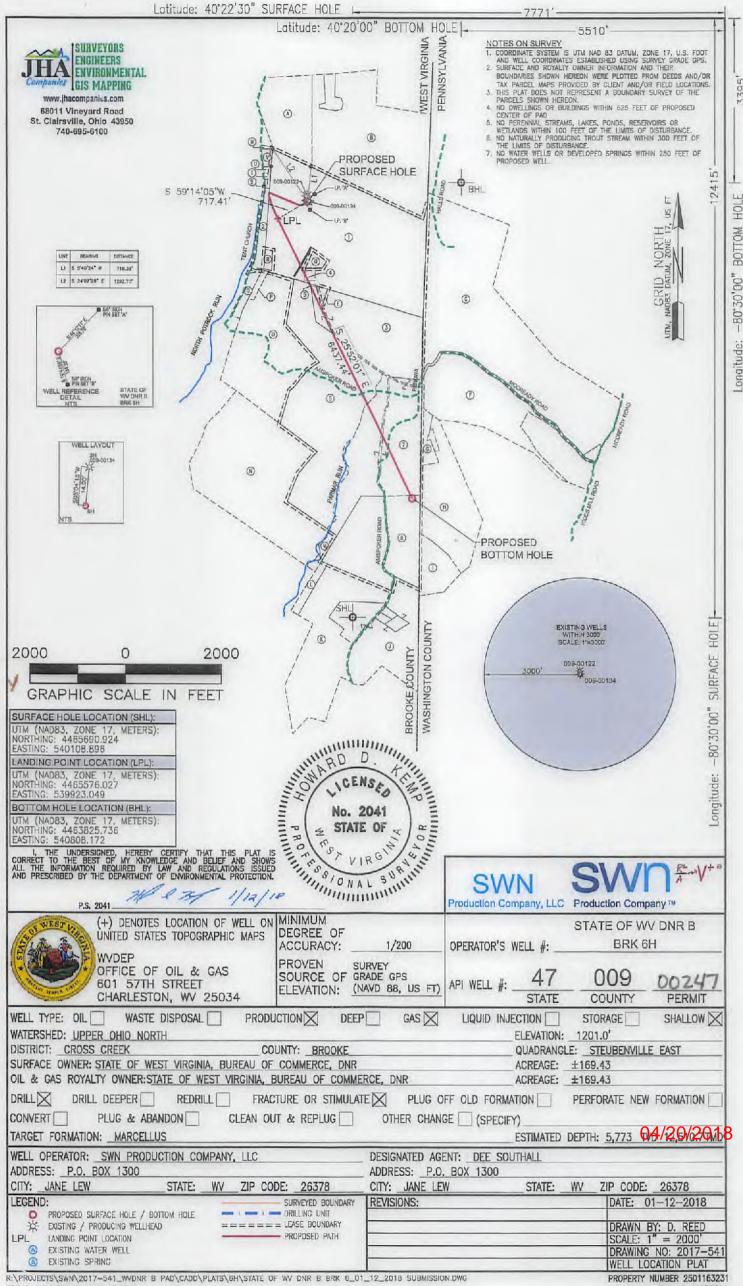
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: State of WV DNR B BRK 6H
Steubenville East, QUAD
Cross Creek, DISTRICT
Brooke COUNTY, WEST VIRGINIA

		,	3.7
Submitted by: Dee Southall	_ Date:	11/3/2017	
Senior Regulatory Title: Analyst	SWN P	roduction Co., LLC	
Approved by: Title:	_ Date:	93 1.10·18	RECEIVED Office of Oil and Gas
Approved by:	_ Date:		JAN 16 2018 WV Department of Environmental Protection
Title:	-		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





	WELL BORE TABLE FOR SURFACE / ROYALTY	OWNERS	
TRACT		TAX PARCEL	ACRES
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION (S/R)	4-CC16-019.00	169.43
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	DANNY D. TICE & MARCIA TICE	4-CC16-016.00	6.24
3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-022.00	74.032
4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-017.00	1.19
5	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-021.00	0.19
6	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-023.01	117.720
7	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-023.00	80.100
В	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	4-CC16-024.00	74.000

-	ADJOINING OWNERS TABLE		
RACT	SURFACE OWNER	TAX PARCEL	ACRES
Α	MARGARET FRESHWATER	04-C12K-0080.0000	36.01
В	DEBORAH JANE HAMILTON	04-C12K-0078.0000	109.82
C	ARTHUR C. MCDERMITT, JR.	380-008-00-00-0007-01	209.46
D	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	04-CC16-0018.000	2.16
Е	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	04-CC16-0020.0000	1.81
F	ARTHUR C. MCDERMITT, JR.	380-008-00-00-0007-03	61.417
G	PENNWEIR CONSTRUCTION CO.	380-014-00-00-0009-00	6.5
Н	PENNWEIR CONSTRUCTION CO.	380-014-00-00-0008-00	61.0
1	PENNWEIR CONSTRUCTION CO.	380-014-00-00-0007-00	16.0
J	ST OF WV DEPT OF COMMERCE NAT RESOURCES	04-0020-0030.0000	59.12
K	ST OF WV DEPT OF COMMERCE NAT RESOURCES	04-CC20-0027.0000	71.687
L	ST OF WV DEPT OF COMMERCE NAT RESOURCES	04-CC20-0026.0000	3.90
M	ST OF WV DEPT OF COMMERCE NAT RESOURCES	04-0020-0046.0000	2.90
N	STATE OF WV BUREAU COMM-DIV NR PUBLIC LAND CORP	04-0016-0008.0001	123.30
0	WEST VIRGINIA ST OF BUREAU DIV OF COMM DIV OF NAT RES PB LD	04-CC16-0011.0000	77.88
P	DONNA K. ROSS (1) & WILLIAM J PAULES (1)	04-CC16-0014.0000	2.00
Q	DENNIS, SR. & DENNIS, JR. MOLNAR	04-CC16-0013.0000	6.50
R	TIMOTHY BRIAN CUNNINGHAM	04-CC16-0015.0000	1.22
S	DAVID A. & GERALDINE DODD	04-CC12-0041.0000	0.47
T	JOHN D. & KAREN DUFFIELD	04-CC12-0040.0000	0.417
U	JOHN D. & KAREN DUFFIELD	04-0012-0039.0000	0.486
٧	LARRY G., SR. & NORA LOU DODD	04-CC12-0038.0000	1.73
W	RITA K. THOMAS	04-CC12-0055.0000	10.50

| COMPANY: | SWN | Production Company, LLC | | DATE: 01-12-2018 | DATE

WW-6A1 (5/13) Operator's Well No. STATE OF WV DNR B BRK 6H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See 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 1 6 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:

Its: Staf

Staff Landman

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator State of WV DNR B 6H

Brooke County, West Virginia

	RECEIVED of Oil and oil		
	LESSEE & >6	ROYALTY	BK/PG
orated	Fortuna Energy, Inqui Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
ice	Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	18.00%	18/430 30/480
orated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
orated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
orated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
orated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C.	12.50%	9/532 10/541

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	rezete A Se	ROYALTY	BK/PG
1)	4-CC16-019.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	169.43	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inqui Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
2)	4-CC16-016.00	Danny D. Tice and Marcia Tice	6.24	736279-000	Danny D. Tice and Marcia Tice	Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	18.00%	18/430 30/480
3)	4-CC16-022.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	74.032	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
4)	4-CC16-017.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	1.19	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
5)	4-CC16-021.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	0.19	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
6)	4-CC16-023.01	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	117.720	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
7)	4-CC16-023.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	80.100	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480
8)	4-CC16-024.00	State of West Virginia, Bureau of Commerce, Division of Natural Resources, Public Land Corporation for the Use and Benefit of the Wildlife Resources Section	74.000	730135-000	Starvaggi Industries, Incorporated	Fortuna Energy, Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	9/532 10/541 30/480



SWN Production Company, LLC

P O Box 12359 Spring, Texas 77391-2359 www.swn.com

August 8, 2017

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

RE: SWN's proposed New Well: State of WV DNR B BRK 6H and State of WV DNR B BRK 10H in Brooke County, West Virginia, Drilling under Amspoker 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 Amspoker 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,

Tanner Quiring Staff Landman

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Office of Oil and Gas

JAN 16 2018

WV Department of Environmental Protection

R-AW+

Date of Notice Certification:

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

API No. 47- 09

Operator's Well No. State of WV DNR B BRK 6H

Notice has I	been given:	,	Well Pad N	ame: State of	WV DNR B BRK Pad
Pursuant to the	ne provisions in West Virginia Code tract of land as follows:			uired parties v	vith the Notice Forms listed
State:	wv		Easting:	540108.896	
County:	009-Brooke		Northing:	4465690.924	ai .
District: Duadrangle:	004-Cross Creek 620- Steubenville East	Public Road Acces Generally used far		Tent Church Roa State of WV DNF	
Watershed:	Upper Ohio North	Generally used fair	in name.	State of WV DIVI	V.B
prescribed by t has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface descriequired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall have been completed by the applicant	shall contain the following infor- bed in subdivisions (1), (2) and ection sixteen of this article; (ii) arrivey pursuant to subsection (a of this article were waived in va- tender proof of and certify to the	mation: (14 d (4), subset that the req), section to vriting by t	A certification (b), secuirement was en of this article surface over	on from the operator that (etion ten of this article, the deemed satisfied as a resu- cle six-a; or (iii) the notice when; and Pursuant to We
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	ed parties with the following:			OOG OFFICE USE ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or <a> NO PLAT SURVE	Y WAS CO	NDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PEWAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B' (PLEASE ATTACH)	Y SURFAC	E OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				□ RECEIVED
■ 5. PUE	BLIC NOTICE		EIVED Oil and Gas		1 RECEIVED
■ 6. NO	TICE OF APPLICATION		1 6 2018		RECEIVED
	V. C. C. C.	WV De Environme	partment of ental Protect	ton	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. 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.

WW-6AC (1/12)

Certification of Notice is hereby given:

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

By:

Dee Southall

Its:

Senior Regulatory Ana

Telephone:

304-884-1610

Address:

P.O. Box 1300

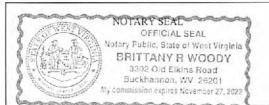
Jane Lew, WV 26378

Facsimile:

304-884-1690

Email:

Dee Southall@swn.com



Subscribed and sworn before me this

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

JAN 1 6 2018

WW-6A (9-13) 4700900247

API NO, 47- 09 OPERATOR WELL NO, State of WV DNR B BRK 6H
Well Pad Name: State of WV DNR B 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 prov	ided no later the	an the filing date of permit application.	
Date of Notice:	Date Permit Applica	ntion Filed: ૣ	1/18	
PERMIT FOR A	NY D CERTIE	ICATE OF API	PROVAL FOR THE	
WELL WORK			AN IMPOUNDMENT OR PIT	
Delivery method pur	rsuant to West Virginia C	ode § 22-6A-10	0(b)	
PERSONAL	☑ REGISTERED	П метн	IOD OF DELIVERY THAT REQUIRES A	
SERVICE	MAIL		IPT OR SIGNATURE CONFIRMATION	
sediment control plan in the surface of the tract oil and gas leasehold be described in the erosion 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 consistence of the seconds of the sheriff reprovision of this article Code R. § 35-8-5.7.a. in the surface of the series of	required by section seven of on which the well is or is pre- eing developed by the propo- n and sediment control plans he event the tract of land on the the owners of record of the si- te tract is to be used for the pro- described in section nine of any or water supply source loo- tumption by humans or dome tivity is to take place. (c)(1) ection hold interests in the la- equired to be maintained pur- er to the contrary, notice to a la- requires, in part, that the ope-	this article, and toposed to be loc sed well work, is submitted pursua which the well purface tract or trollacement, constitution article; (5) a cated within one stic animals; and If more than threads, the application suant to section lien holder is not rator shall also present to be set on the section and the section articles and the section articles are shall also present to section articles.	or signature confirmation, copies of the application the well plat to each of the following persons: (1) ated; (2) The owners of record of the surface trace if the surface tract is to be used for roads or other ant to subsection (c), section seven of this article; roposed to be drilled is located [sic] is known to acts overlying the oil and gas leasehold being deviated overlying the oil and gas leasehold being deviated on, enlargement, alteration, repair, removal of Any surface owner or water purveyor who is known thousand five hundred feet of the center of the well (6) The operator of any natural gas storage field be tenants in common or other co-owners of interest that in the common of the co-owners of interest that it is the confict to a landowner, unless the lien holder is the provided in section 15 of this rule.	The owners of record of at or tracts overlying the land disturbance as (3) The coal owner, be underlain by one or reloped by the proposed or abandonment of any on to the applicant to rell pad which is used to living which the land owner. We will be compared to living the land owner. We will be compared to living the land owner. We will be land owner.
☑ Application Notic	e 🛮 WSSP Notice 🖾 E&	&S Plan Notice	e ☑ Well Plat Notice is hereby provided to:	
SURFACE OWNER			COAL OWNER OR LESSEE	
The state of the s	f Commerce of Natural Resources		Name: Starvaggi Industries, INC.	
Address: 324 4th Ave, Rn Charleston, WV 25303	n 200	_	Address: 401 Pennsylvania Ave Weirton, WV 26062	Office of Oil and Gas
		-3	COAL OPERATOR	JAN 16 2018
Name:		-	Nome	JAN 16 2012
Address:		-	Addrage:	- 0 2018
I SLIDEACE OWNER	R(s) (Road and/or Other Di	sturbance)	Address:	WV Department of Environmental Protection
			SURFACE OWNER OF WATER WELL	- ental Protection
Address:		-	AND/OR WATER PURVEYOR(s)	-south
			Name: None Address:	
Address:		-	Address.	
/ tudi coo.			□ OPERATOR OF ANY NATURAL GAS S	STORAGE FIELD
SURFACE OWNE	R(s) (Impoundments or Pits	5)	Name:	
	ix(s) (impoundments of Fig		Address:	
		-		
10.00%			*Please attach additional forms if necessary	

WW-6A (8-13)

PEGENVE Officeros API NO. 47- 09 OPERATOR WELL NO. SIMM WY DIR STREET 1 Well Rad Name: State of WV DNR B BRK Pad

WV Department of

Notice is hereby given:

Environmental Protection 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 www.dep.wv.gov/oiland-gas/pages/default.aspx.

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 secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-49-7 Q 0 9 0 0 2 4 7
OPERATOR WELL NO. State of WV DNR B BRK 6H

Well Pad Name: State of WV DNR B BRK Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas

JAN 16 2018

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

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.

WW-6A (8-13) 4700900247

API NO. 47-09 OPERATOR WELL NO. SIGNED WY DINR B BRICH

OPERATOR WELL NO. State of WV DNR B BRK PAd
Well Pad Name: State of WV DNR B BRK Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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



4700900247

WW-6A (8-13)

API NO. 47-09

OPERATOR WELL NO. STATE OF WY DIRE BRIK 6H Well Pad Name: State of WV DNR B BRK Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 832-736-1000 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.



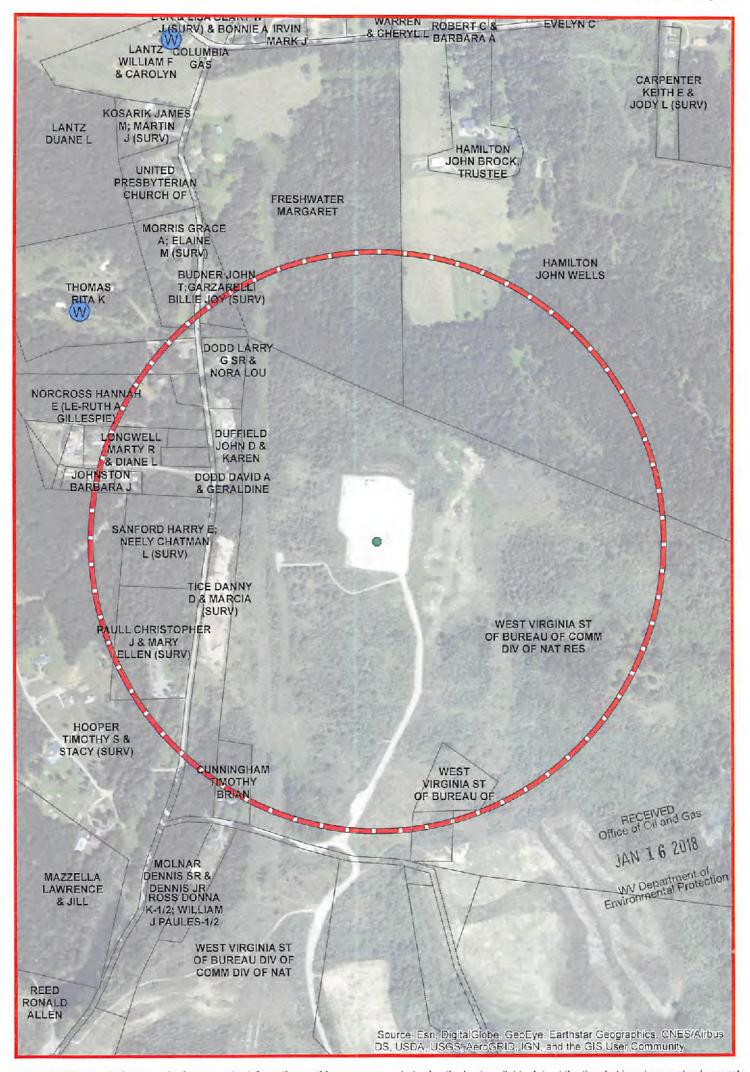
Subscribed and sworn before me this 3th day of 1

Notary Public

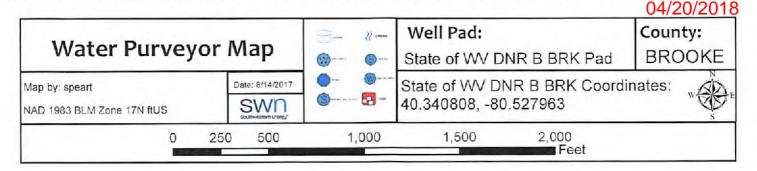
My Commission Expires

Office of Oil and Gas

JAN 1 6 2018



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



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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at l ce: 08/09/2017 Date Pern	least TEN (10) days prior to filing a	permit application.
Delivery met	thod pursuant to West Virginia Code § 22	2-6A-16(b)	
П поп	- communica vivi		
☐ HAND	■ CERTIFIED MAIL		
DELIVE	ERY RETURN RECEIPT REQU	JESTED	
receipt reques drilling a hor of this subsec subsection ma	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> . That notice given partion as of the date the notice was provided that was be waived in writing by the surface owner le, facsimile number and electronic mail address.	er notice of its intent to enter upon the bursuant to subsection (a), section to to the surface owner: <i>Provided, how</i> er. The notice, if required, shall incl	ne surface owner's land for the purpose of en of this article satisfies the requirements evever. That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OWI		
	Dept of Commerce Div of Natural Resources	Name:	
Address: 324		Address:	
Charleston, WV 2	25303		
	Vest Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a hori West Virginia Brooke Cross Creek Steubenville East Upper Ohio North		
Pursuant to V facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this makes and electronic mail address of the optizontal drilling may be obtained from the 157th 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:		
the second second second second	SWN Production Company, LLC	Authorized Representative:	Mike Yates
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-517-6603	Telephone:	304-517-6603
Email:	Michael_Yates@swn.com	Email:	Michael_Yates@swn.com
Facsimile:	304-884-1691	Facsimile:	304-884-1691

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. State of WV DNR B BRK 64

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

		tequirement: notice shall be pro		later than the filing oplication Filed:		t application.		
Deliv	ery meth	od pursuant to West Virginia	Code § 2	22-6A-16(c)				
	CERTIFI	IED MAIL	П	HAND				
		N RECEIPT REQUESTED		DELIVERY				
return the p required drillind dama (d) The of not	receipt relanned op red to be paged to the ges to the ne notices tice.	Va. Code § 22-6A-16(c), no la equested or hand delivery, give to peration. The notice required by provided by subsection (b), section (c), section (d) and gas of the required by this section shall be by provided to the SURFACE of listed in the records of the sherif	the surfa y this su on ten of sed surfa operation e given to OWNER	ce owner whose landsection shall include this article to a surface use and compend to the extent the dothe surface owner.	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling or of this code is see land will be not containing a spensable under	of a horizontal section; (2) The used in conjunt offer of comparticle six-b o	well notice of e information ction with the pensation for f this chapter.
Name		ept of Commerce Div of Natural Resources	_					
Name Addre Charle Notic	e is herel	Ave, Rm 200 03 Dy given:		Addres				
Name Addre Charle Notice Pursu opera State: Coun Distri	ess: 324 4th wv 253 e is herek ant to We tion on th ty: ct:	Ave, Rm 200 Oy given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the p West Virginia Brooke Cross Creek		Addres s hereby given that t f drilling a horizont UTM NAD a Public Road	he undersigned al well on the tra 3 Easting: Northing: Access:	act of land as fo 540,108.896 4,465,690.924 Tent Church Rd	ollows:	WED.
Name Addro Charles Notice Pursu opera State: Coun Distrii Quad	ess: 324 4th ston, WV 253 e is herek ant to We tion on the ty: ct: rangle:	Ave, Rm 200 Dy given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the p West Virginia Brooke		Addres s hereby given that t f drilling a horizont UTM NAD a Public Road	he undersigned al well on the tra 3 Easting: Northing:	act of land as fo 540,108.896 4,465,690.924	RECE	IVED il and Gas
Name Addro Charle Notice Pursu opera State: Coun Distri Quad Wate This Pursu to be horize surfac inforn heade	e is herekant to We tion on the ty: ct: rangle: rshed: Votice Shant to We provided ontal well be affected affected affected and to rel	Day given: est Virginia Code § 22-6A-16(c), ne surface owner's land for the p West Virginia Brooke Cross Creek Steubenville East Upper Ohio North Hall Include: est Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(t) c; and (3) A proposed surface usid by oil and gas operations to the lated to horizontal drilling may ocated at 601 57th Street, SE,	this not by to a se and combe extended by obtain	Address s hereby given that to ferilling a horizonta UTM NAD a Public Road Generally us dice shall include: (1) for urface owner whose mpensation agreement the damages are contend from the Secretary and the Secretary of the damages are contend from the Secretary divides the damages are contend from the Secretary divides and the	he undersigned al well on the tra 3 Easting: Northing: Access: ed farm name:)A copy of this e land will be an	act of land as for 540,108.896 4,465,690.924 Tent Church Rd State of WV DNR code section; (used in conjurt offer of complete article six- / Department of	JAN 1 WV Depointion with the pensation for displayed for this chapte of Environment	6 2018 artment of tal Protection their required drilling of a amages to the er. Additional tal Protection
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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.



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

August 10, 2017

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

Subject: DOH Permit for the State of WV DNR B Pad, Brooke County State of WV DNR B BRK 6H

Dear Mr. Martin,

Jim Justice

Governor

The West Virginia Division of Highways has transferred Permit #06-2012-0103 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 7/4 SLS.

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

Very Truly Yours,

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

Brittany Woody Southwestern Energy

CH, OM, D-6

File

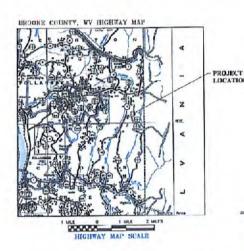
Cc:

4700900247

	FRAC	ADDITIVES	
Product Name	Product Use	Chemical Name	CAS Numbe
		Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion		Methanol	67-56-1
Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary
		Glutaraldehyde	111-30-8
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion	Biocide	Methanol	67-56-1
Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
ECCARCA	Scale Inhibitor	Amine Triphosphate	Proprietary
EC6486A (Nalco Champion)	Scale inhibitor	Ethylene Glycol	107-21-1
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
VVFRA-2000 (U.S. Well Services)	Allionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9
		Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
A1 202	8.43	Butyl cellosoive	111-76 2
Al-303 (U.S. Well Services)	Mixture	Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8

RECEIVED Office of Oil and Gas

JAN 16 2018



SWN PRODUCTION COMPANY, LLC AS-BUILT PLANS FOR THE WV DNR BRK PAD "B"

BROOKE COUNTY, WV

JUNE 2017

DISTURBANCE SUMMARY

WVDEP OOG ACCEPTED AS-BUILT

Acress Rock Well Pad

PROJECT COORDINATES

AS-BUILT ACCESS ROAD BEGINNING NADBL-N Latitude = N 40334514* NADBL-N Langinde - W 50,578459* UTM 83-17 Northige - 14649622.5577 ft. UTM 83-17 Esting - 1771766.0567 ft.

AS-BUILT CENTER OF WELL PAD NADRO-N Latitudo - N 40.349832* NADRO-N Lacitudo - W 80.327603* UTM 83-17 Northing - 1461 1198.7909 ft. UTM 83-17 Enting - 1771995.8158 ft.

WV DNR BRK PAD "B"

PROJECT LOCATION



SWN PRODUCTION COMPANY, LLC 179 Innevation Drive Jane Lew, WV 26378 (304) 884-1610

SHEET INDEX

TITLE SHEET TITLE SHERT EVACUATION PLAN & PREVAILING WINDS AS-BUILT OVERVIEW AS-BUILT ACCESS ROAD FLAN & PROFILE

AS-BUILT WELL PAD PLAN
AS-BUILT WELL PAD PROPILE & SECTIONS
RECLAMATION PLAN

GENERAL NOTES

NOTES

NOTES
PORTIONS OF THE OBTAINAL AS JURIAT URLN'S OF THIS SITE PROVIDED BY DORLD, BINCHECK & ANSOCIATIS, BHE (BEA) IT OCHEARCAKE AFFALACHA, LL CH SEPTEMBER 2015 HAVE BEEN RECURRATED HAVE THESE PLANS. THE BINA AS JURIAT SURVEY WAS PROVIDED TO THAN SITEB BY SWY PRODUCTION COMMANY, LLC IN MAY JOIN AND DECUBER OF COMMONS, LLC IN MAY JOIN AND DECUBER OF COMMONS, LLC IN MAY JOIN AND DECUBER OF COMMONS, BUSINESS, BUSINESS AND BEDORIEST COMMONS, STAND BUCKES, WELL BESTERO BOARD BEDORIES WELL BESTERO BOARD BEDORIES WELL AND EDGE, AS TROBUSTERS EQUIPMENT, ABOVE GROOND PRINCE, STUDIES WAS TROBUSTED FOR THE CORPORATION AS THE PRATURES, ETC. WERE VEHILLED AND AS RIGHT OF THE ASSESSMENT USED TO THE PRODUCT OF THE MADE AS THE PRODUCT OF THE PRODUCT



REVISION NUMBER	SHEETS	BY	DATE	DESCRIPTION
1	144	BM	09/29/17	CONNECTED 3H & BH API HUMBERS
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			_	

THE THRASHER GROUP, INC. 600 WHITE OAKS BOULEVARD - BRIDGEPORT, WY 25 PHONE (304) 624-4108 • FAX (304) 824-7831

VICINITY MAP SCALE ONE CALL UTILITY SYSTEM CONTACT INFO

CONTRACTOR, SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTER-OLD SECANATION OR DEMOLITION NOT LESS THAN PORTY-CEPT (48) HURSE, SECLIONING SATEMANY, SINNAY AND LEBAL FEDERAL OR STATE HOLDAYS, NOR MODETHIAN THIS (19) WORK NAYS HOUR OF THE BEGINNING OF SHACH WERE).

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