

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

Thursday, November 29, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Permit approval for SWN A UD WTZ 305H Re: 47-103-03252-00-00

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: SWN A UD WTZ 305H

Farm Name: SWN PRODUCTION COMPAN

U.S. WELL NUMBER: 47-103-03252-00-00

Horizontal 6A New Drill Date Issued: 11/29/2018

API Number: 47/0303252

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. 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: 4710303252

PERMIT CONDITIONS

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

API NO. 47-103 OPERATOR WELL NO. SWNAUD WTZ 305H
Well Pad Name SWN AWT Pag
47

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

1) Well Operat	tor: SWN	Production C	o., LLC	494512924	103- Wetzel 12-Pro	681-Wileyville
i) wen operate				Operator ID	County Distric	t Quadrangle
2) Operator's \	Well Numbe	er: SWN A U	O WTZ 3	305H Well 1	Pad Name: SWN A WTZ	Pad
3) Farm Name	/Surface Ov	vner: SWN Prod	uction Comp	pany, LLC Public R	oad Access: Macedonia	Ridge
4) Elevation, c	urrent grou	nd: <u>1337'</u>	E	levation, propos	ed post-construction: 134	-2'
5) Well Type	(a) Gas	X	_ Oil _	Uı	nderground Storage	
	Other					
	(b)If Gas	Shallow	X	Deep		<u> </u>
		Horizontal	X		1)m1t	, c
6) Existing Pac	d: Yes or No	No No			413	18
					s and Expected Pressure(s	
Target Formation	n- Burket Up-Dip	Well to the North,	arget Top T	VD- 7211', Target Base	TVD- 7231', Anticipated Thickness	20', Associated Pressure- 4700
8) Proposed To	otal Vertical	Depth: 721	6'			
9) Formation a			Burket			
10) Proposed 7	Γotal Measu	red Depth:	25,792'			
11) Proposed I	Horizontal L	eg Length:	18023'			
12) Approxima	ate Fresh W	ater Strata De	pths:	300'		
13) Method to	Determine	Fresh Water D	epths:	The base of fres	h water at the alternate r	ninimum depth of 300'.
14) Approxima	ate Saltwate	r Depths: 13	64' Salin	ity Profile Analys	sis	
15) Approxima	ate Coal Sea	nm Depths: 1	229'			
16) Approxima	ate Depth to	Possible Voi	d (coal m	nine, karst, other)	: None that we are awa	re of.
17) Does Prop				ams Yes	No X	RECEIVED Office of Oil and Ga
	0 0					AUG 2 2 2018
(a) If Yes, pr	ovide Mine	Info: Name Depth				WV Department of Environmental Protect
		Seam:				
		Owne:				

WW-6B (04/15)

API NO. 47-_103 -__

OPERATOR WELL NO. SWN A UD WTZ 305H
Well Pad Name: SWN A WTZ Pad

18)

CASING AND TUBING PROGRAM

4710 103252

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	400'	400'	392 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	2797'	2797'	1089 sx/CTS
Production	5 1/2"	New	HCP-110	20#	25,792'	25,792'	lead 861sx/Tail 4241sx/Inside intermediate
Tubing							
Liners							

DMH 4-12-18

TYPE	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							
Liners							

PACKERS

	THORESON .	Offic RECEIVED
Kind:		Office of Oil and Gas
		AUG 2 2 2018
Sizes:		
		WV Department of Environmental Protection
Depths Set:		- Totection

WW-6B
(10/14)

API NO. 47- <u>103</u>
OPERATOR WELL NO. SWN A UD WTZ 305H
Well Pad Name: SWN A WTZ Pad
4 7 1 0 3 0 3 2 5 2

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.77
- 22) Area to be disturbed for well pad only, less access road (acres): 6.61
- 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

25) Proposed borehole conditioning procedures:

AUG 2 2 2018

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.

Environmental Protection

*Note: Attach additional sheets as needed.

Schlumberger Cement Additives

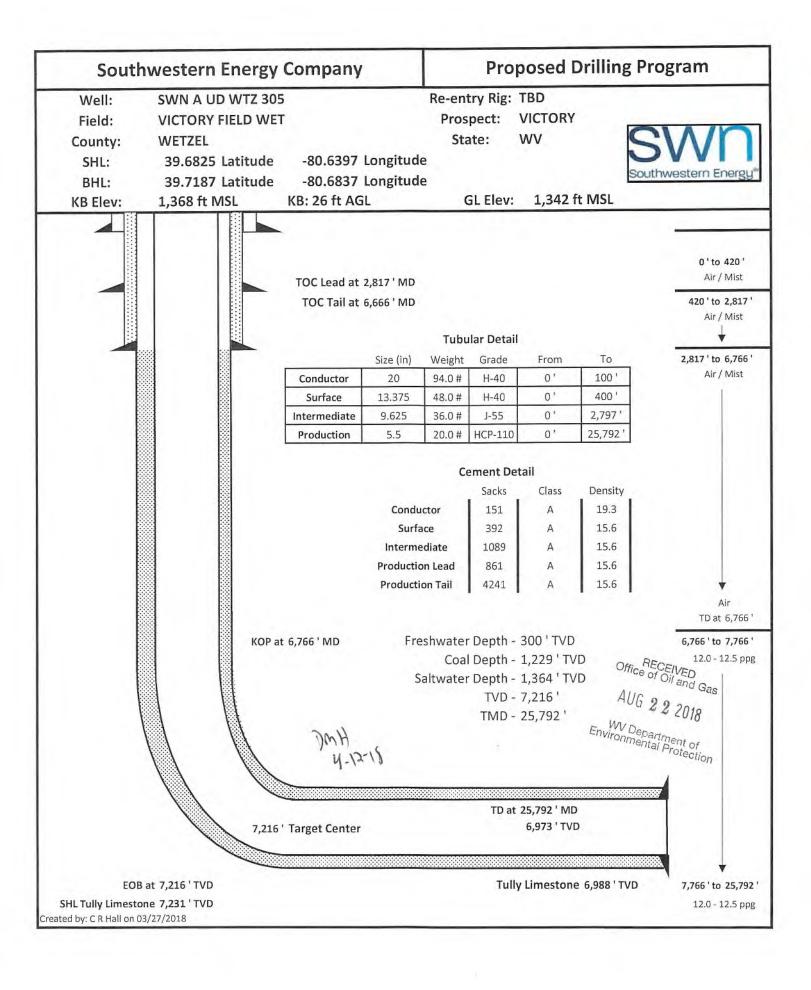
	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride up to 3%	10043-52-4
ntermediate Surface	5001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
30	D801	retarder	aromatic polymer derivative	propriatary
Kick Off 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
pe	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tion	D201	retarder	metal oxide	propriatary
quo			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
=			sodium polynaphthalene sulfonate	9008-63-3
E	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
npo	D201	retarder	metal oxide	propriatary
P	D153	anti-settling	chrystalline silica	14808-60-7

Office of Oil and Gas

Rev. 5/18/2018

AUG 2 2 2018

WV Department of Environmental Protection



Operator's Well No. 7WNA UNWTZ 305H

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC Watershed (HUC 10) Upper Ohio South	OP Code 494512924
watersned (HOC 10) Spps. Stills SSSIII.	Quadrangle Wileyville
Do you anticipate using more than 5,000 bbls of water to con Will a pit be used? Yes No	nplete the proposed well work? Yes Ves 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 Wastes:	
Land Application	
	mit Number 34-155-22403, 34-059-24067, 34-119-29776, 34-167-25862, 34-155-22795, 34-121-23993, 34-155-21893) ipated well, API# will be included with the WR-34/DDMR &/or permit addendum.
Off Site Disposal (Supply form W	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizo	ontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium? Attachment 3A	
Orill cuttings disposal method? Leave in pit, landfill, remove	ed offsite, etc. landfill
-If left in pit and plan to solidify what medium will	
Argen Langtill 10072, Apex Sanitary Langtill Permittee shall provide written notice to the Office of Oil and	SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Ub-U8438, Brooke Co SVVF-1013, Valley 100280 d Gas of any load of drill cuttings or associated waste rejected at any led within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.	d conditions of the GENERAL WATER POLLUTION PERMIT is: Virginia Department of Environmental Protection. I understand that s of any term or condition of the general permit and/or other applic
application form and all attachments thereto and that, ba	Office of Notary Public, State Of West Virginia Elizabeth Blankenship 941 Simpson Run Road
application form and all attachments thereto and that, ba obtaining the information, I believe that the information is penalties for submitting false information, including the poss Company Official Signature Company Official (Typed Name) Brittany Woody	sed on my inquiry of those individuals immediately responsible strue, accurate, and complete. I am aware that there are signification of fine or imprisonment. Office of Office of Notary Public, State Of West Vrolnia Etizabeth Blankenehlo 941 Simpson Run Road Weston WV 26452 My commission expires June 23, 2024 WW Depur

SWN Production Co., LLC		47	<u> 1030325</u>
Proposed Revegetation Treatment: Acres Disturbed	12.77	Prevegetation pH	[
Lime as determined by pH test min. 2 Tons/acre or to corre	ct to pH 6.6	1	
Fertilizer type _10-20-20	E		
Fertilizer amount 600	lbs/acre		
Mulch_ Hay/Straw 2.5	_Tons/acre		
	Seed Mixtures		
Temporary		Permai	nent
Seed Type lbs/acre Attachment 3B		Seed Type	lbs/acre
Attach:	d ambigation (unless	a anginoorad plans includ	ing this info have been
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, inc	d application (unles	s engineered plans includ x X W x D) of the pit, and	ing this info have been dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area.	clude dimensions (I	s engineered plans includ x W x D) of the pit, and	ing this info have been dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, inc	clude dimensions (I	s engineered plans includ Lx W x D) of the pit, and	ing this info have been dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for land provided). If water from the pit will be land applied, incacreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	clude dimensions (I	x W x D) of the pit, and	dimensions (L x W), and a

Attachment 3C

CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of several sets of a shale gas separator (often called a 'methana'), several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in high weight liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for hauloff. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

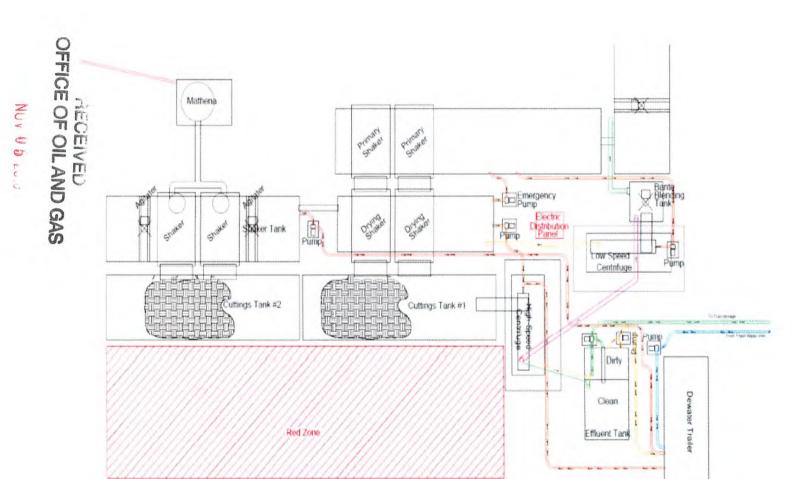
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

HECEIVED
OFFICE OF OIL AND GAS

NOV 0 5 2018

Solids Control Layout





Attachment 3A

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Brine (In Gas Storage areas)

Organophilic Bentonite

OFFICE OF OIL AND GAS

NOV 0 5 2018

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers



WVD Seeding Specification



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

50lbs per acre of Winter Wheat

(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				
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).

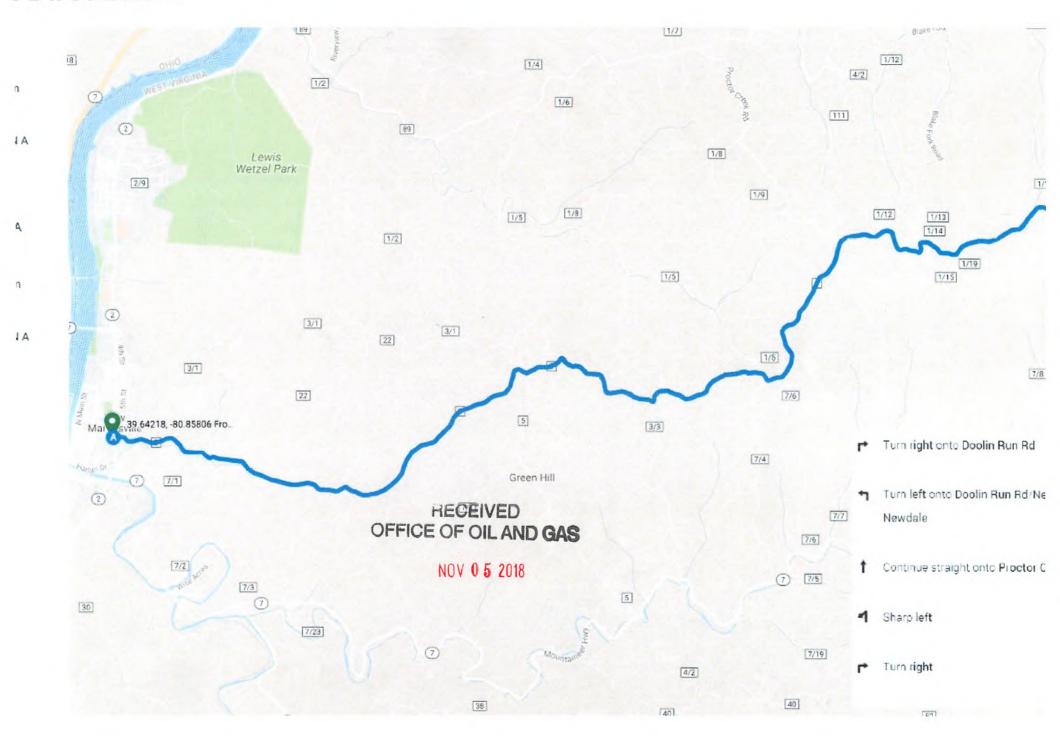
Special Considerations:

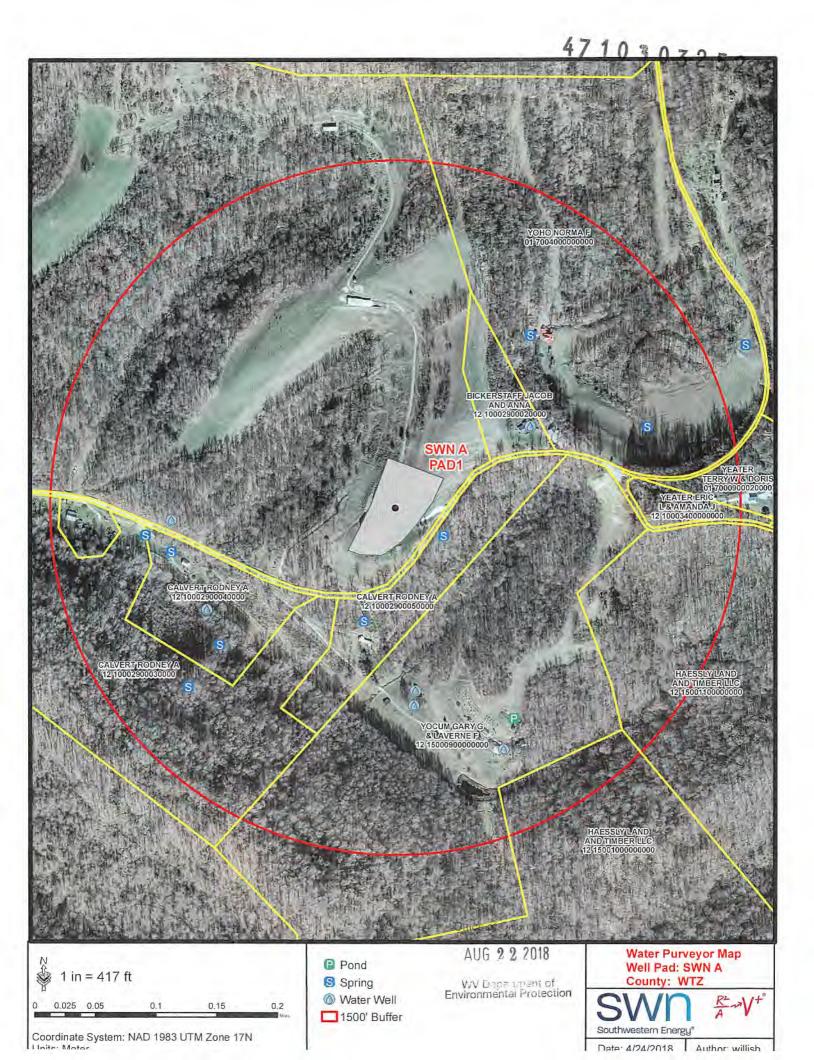
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

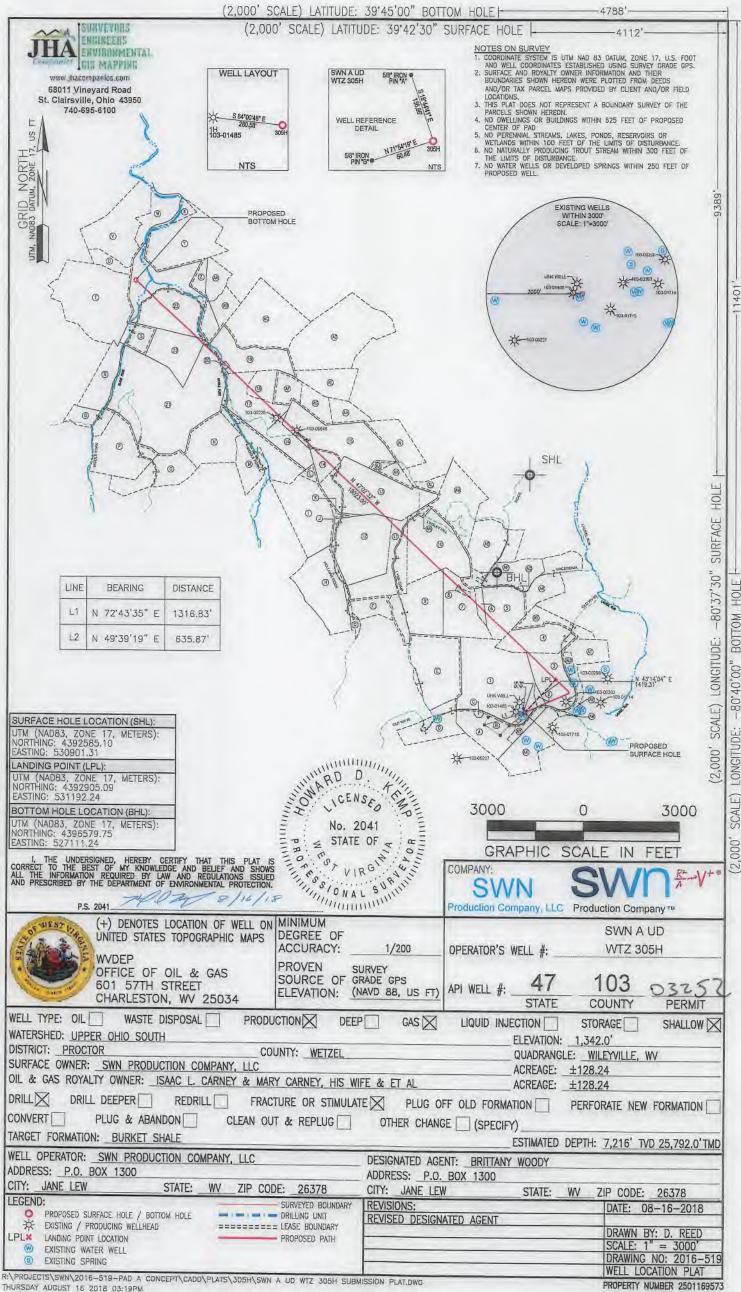
ORGANIC PROPERTIES					
c Mix	SWN Supplied				
50%					
50%					
50%					
50%					
	Apply @ 200lbs per acre				
	Oct. 15th- April 15th				
	Pelletized Lime @ 2 Tons per Acre				
	50% 50%				

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%	too.
Woolgrass	2.5%	<
Swamp Verbena	2.5%	SA
Apply @ 25lbs per acre	Apply @ 50lbs per acre	C
April 16th- Oct. 14th	Oct. 15th- April 15th	C
NO FERTILIZER OR L	IME INSIDE WETLAND LIMITS	N
		CT

! Directions







	WELL BORE TABLE FOR SURFACE / ROYALTY OV	VNERS				
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL				
1	SWN PRODUCTION COMPANY, LLC (S) ISAAC L CARNEY & MARY CARNEY, HIS WIFE & ET AL (R)					
TRACT	SURFACE OWNER	TAX PARCEL				
2	JACOB BICKERSTAFF & ANNA BICKERSTAFF, HUSBAND AND WIFE	12-10-29.2				
3	NORMA F. YOCUM	1-7-40				
4	CORY DURIG & DAVID DURIG	1-7-2				
5	DARREN YOHO; KEVIN YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-18				
6	DARREN YOHO; KEVIN YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-17				
7	DARREN YOHO; KEVIN YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-16				
8	JEFFREY J. YOHO	12-10-16.1				
9	SWN PRODUCTION COMPANY, LLC	12-10-15				
10	SWN PRODUCTION COMPANY, LLC	12-10-11				
11	SWN PRODUCTION COMPANY, LLC	12-10-10				
12	MILLTREE PROPERTIES, LLC	12-10-9				
13	MILLTREE PROPERTIES, LLC	12-10-3				
14	RICHARD W. MASTNEY & MARK MASSARI	12-5-20				
15	MILLTREE PROPERTIES, LLC	12-5-21				
16	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39				
17	CLAUDIA MECKEL-JONAS & ET AL	12-4-27				
18	CLAUDIA MECKEL-JONAS & ET AL	12-4-28				
19	JOHN STULGA	12-4-19				
20	SUCCESSOR IN INTEREST TO THE BOARD OF EDUCATION OF PROCTOR DISTRICT, WETZEL COUNTY	12-4-18				
21	CHRISTOPHER P. BITHELL	12-4-26				
22	CHRISTOPHER P. BITHELL	12-4-17				
23	NANCY RABER & ET AL	12-4-6				

RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEI
A	RODNEY CALVERT	12-10-29.3
В	RODNEY CALVERT	12-10-29.4
C	RODNEY CALVERT & ET AL	12-10-29.1
D	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-33
E	SWN PRODUCTION COMPANY, LLC	12-10-28
F	SWN PRODUCTION COMPANY, LLC	12-10-14
G	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-21
Н	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-13
F	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA & ANDREA M. SHULUGA REVOCABLE TRUST UNDER DATE OF JANUARY B/2103	12-10-1
J	MILLTREE PROPERTIES, LLC	12-10-1.1
K	MILLTREE PROPERTIES, LLC	12-10-2
L	RICHARD W. MASTNEY & MARK MASSARI	12-5-29
М	MARK MASSARI	12-4-38
N	CHRISTOPHER P. BITHELL	12-4-37
0	WILLIAM WAGNER & BARBARA WAGNER, LIFE TENANTS AND UNTO THE SURVIVOR OF THEM, AND ROBERTA BROOKS AND HEATHER BRINK (REMAINDERMEN)	12-4-36
P	CHRISTOPHER P. BITHELL	12-4-35
Q	JOHN H. MORGAN & SUE M. MORGAN, TRUSTEES, U/T/A, DATED JUNE 10, 1992 F/B/O THE MORGAN FAMILY	12-4-34
R	SHIBEN ESTATES	12-4-25
S	NANCY RABER & ET AL	12-4-15
T	KEVIN L. BLATT, TRUSTEE & ET AL	12-4-5
U	ZACHARY M. BLAIR	9-21-20
٧	ZACHARY M. BLAIR	9-21-19
W	N/A	9-21-15
X	ZACHARY M. BLAIR	9-21-13
Y	MASON DIXON FARMS	9-21-12
Z	NANCY RABER & ET AL	12-4-7
AA	UNKNOWN HEIRS OF SARAH V. RICHMOND	12-4-8
AB	NANCY RABER & ET AL	12-4-10
AC	CRAIG NORDBERG & CAROL NORDBERG, HUSBAND AND WIFE	A VIII A
AD	MASON DIXON FARMS	12-4-11
AE	MASON DIXON FARMS	12-5-12
AF	HENRY J. SUNDA, HERBERT SIVERT & ET AL	777 14 15 15 15
AG	MILLITREE PROPERTIES, LLC	12-4-29
AH	AUGUSTUS R. MCMAHON, III, AND MICHELLE MCMAHON, TRUSTEES, OR THEIR SUCCESSORS IN TRUST UNDER THE AUGUSTUS R. MCMAHON, III, LIVING TRUST, DATED JUNE 9, 2000	12-5-14
Al	DANIEL F. DURIG & RHONDA K. DURIG, HUSBAND & WIFE	12-5-22
AJ	MILLTREE PROPERTIES, LLC	
AK	MILLTREE PROPERTIES, LLC	12-5-25
AL	SWN PRODUCTION COMPANY, LLC & ET AL	12-5-26
AM	SWN PRODUCTION COMPANY, LLC	12-10-5
AN	FREDA TAYLOR, CALVIN TAYLOR, CHARLOTTE MARS, NILA ISABELLA, OPHIA GUNTER, AND LEWIS SHERWOOD TAYLOR	12-10-6
AO	BRADLEY SCOTT YOHO	12-10-12
AP	BRADLEY SCOTT YOHO	12-10-12
AQ	RYAN ALLEN YOHO	12-10-19
AR	LYLE YOHO & ET AL	1-4-37
AS	CORY DURIG & DAVID DURIG	1-7-1
AT	SUSAN ANNETT SMITH	
AU	SUSAN ANNETT SMITH	1-7-3
AV	JOHN J. YEAGER & ET AL	1-7-3.1
AW	ERIC L. YEATER & AMANDA J. YEATER, HUSBAND AND WIFE	1-7-9.2
AX	GARY G. YOCUM & LAVERNE YOCUM (LIFE ESTATE), AND CHRIS B. YOCUM (REMAINDERMAN)	12-10-34
	into ormo or rocom (nemanapermana)	

REVISIONS:	COMPANY:	SWN Production Company, LLC	P	SVN A V + 0 Production Company TM
	OPERATOR'S WELL #:	SWN WTZ:		DATE: 04-04-2018 DRAWN BY: D. REED
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO: 2016-519 WELL LOCATION PLAT

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

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

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

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

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

Well Operator:	SWN Production Company, LLC.	Office of Oil and Gas
Ву:	_	AUG 2 2 2018
Its:	Caleb Weaver - Senior Landman	
		WV Department of Environmental Protection

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty		BK/PG	Interest Not Leased by Southwestern Production Company, LLC
12-10-29	744933-000	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company	12.50%		18A/25	0.00000
		Hope Natural Gas Company	G. F. Eagan and John Robinson, a partnership, trading and doing business as Eagan and Robinson			39A/249	
		Geo. F. Eagan	Blanche Eagon			14/268	
		John H. Robinson	Elva Robinson and Mary Ellen Davis			15/455	
			Elva Robinson and Mary Ellen Davis			48A/440	
		John H. Robinson, Blanche Eagon, as Executrix of the Estate of George F. Eagon, deceased, Blanche Eagon, in her own right, Mildred M. Lartigue, and Carl L. Eagon (sometimes called "Principals"), by Paul J. Shiben and Joseph V. DeMarco, Jr., their Attornes in Fact, and Elva Robinson, Executrix of the Estate of the said John H. Robinson, now deceased, Elva Robinson and Mary Ellen Davis	ys of	RECEIVED Office of Oil and Gas	AUG 2 2 2018	WV Department of Environmental Protection (A) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
		Elva Robinson and Mary Ellen Davis	Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr.			44A/92	
		Katherine A. Henry and Harry R. Cron	in, Charles E. Reed and Kathryn C. Reed, husband and wife			51A/241	
		Kathryn C. Reed, a widow and unmar	rie Carl Perkins			55A/54	
			erk Perkins Oil and Gas, Inc., a West Virginia Corporation			84A/9	
		Perkins Oil & Gas Inc., a West Virginia	a crStone Energy Corporation, a Delaware corporation			126A/958	
		Stone Energy Corporation	Chesapeake Appalachia, LLC,, and Statoil USA Onshore Properties, Inc.			158A/554	
		Chesapeake Appalachia, L.L.C.,	SWN Production Company, LLC			167A/9	

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased by Southwestern Production Company, LLC
12-10-29.2	744933-000	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company	12.50%	18A/25	0.00000
		Hope Natural Gas Company	G. F. Eagan and John Robinson, a partnership, trading and doing business as Eagan and Robinson		39A/249	
		Geo. F. Eagan	Blanche Eagon		14/268	
		John H. Robinson	Elva Robinson and Mary Ellen Davis		15/455	X
		John H. Robinson	Elva Robinson and Mary Ellen Davis		43A/440	
		John H. Robinson, Blanche Eagon, as Executrix of the Estate of George F. Eagon, deceased, Blanche Eagon, in her own right, Mildred M. Lartigue, and Carl L. Eagon (sometimes called "Principals"), by Paul J. Shiben and Joseph V. DeMarco, Jr., their Attorney in Fact, and Elva Robinson, Executrix of the Estate of the said John H. Robinson, now deceased, Elva Robinson and Mary Ellen Davis Elva Robinson and Mary Ellen Davis	Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr. in, Charles E. Reed and Kathryn C. Reed, husband		44A/92 51A/241	
			and wife		55A/54	
		Kathryn C. Reed, a widow and unmar Carl D. Perkins and Dorothy Louise Pe	rie Carl Perkins erk Perkins Oil and Gas, Inc., a West Virginia Corporation		84A/9	
		Perkins Oil & Gas Inc., a West Virginia	a cr Stone Energy Corporation, a Delaware corporation		126A/958	
		Stone Energy Corporation	Chesapeake Appalachia, LLC,, and Statoil USA Onshore Properties, Inc.		158A/554	
		Chesapeake Appalachia, L.L.C.,	SWN Production Company, LLC		167A/9	
1-7-40	723442-000	Norma Yoho, widow	Columbia Natural Resources, LLC	12.50%	84A/709	0.00000
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	

Office of Oil and Gas
AUG 2 2 2018
WV Department of

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

SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased by Southwestern Production Company, LLC
1-7-2	724430-000	Kermit W. Mason and Reva L. Mason, his wife, and Paul J. Shiben and Elenore L. Shiben, his wife	The Manufacturers Light and Heat Company	12.50%	46A/128	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-10-18	724043-000	T. J. Yoho and Etheel Yoho, his wife	The Manufacturers Light and Heat Company	12.50%	48A/481	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-10-18	724042-000	George N. Yp\oho, widower; T. J. Yoho and Etheel Yoho, his wife; Tracy Yoho, widow, Agatha Barbuto and Joseph Barbuto, her husband; Maxine Horton and Maxine Horton, as Attorney-In-Fact for William Horton; and Sherald Yocum and Eula Yocum, his wife	The Manufacturers Light and Heat Company	12.50%	45A/329	0.0000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-10-17	724043-000	T. J. Yoho and Etheel Yoho, his wife	The Manufacturers Light and Heat Company	12.50%	48A/481	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	

Office of Oil and Gas
AUG 2 2 2018

			SWN A UD WTZ 30 Wetzel County, West			
Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased by Southwestern Production Company LLC
		Columbia Gas Transmission	Columbia Natural Resources, LLC		84A/129	
		Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
2-10-16	724043-000	T. J. Yoho and Etheel Yoho, his wife	The Manufacturers Light and Heat Company	12.50%	48A/481	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12 50%	157A/540	0.00000
2-10-16.1	724043-000	T. J. Yoho and Etheel Yoho, his wife	The Manufacturers Light and Heat Company	12.50%	48A/481	0.00000
		The Manufacturers Light and Heat Company Columbia Gas Transmission	Columbia Gas Transmission Corporation		263/164	
		Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	(
2-10-15	724538-000	Iva Gray and Bud Gray, her husband, Jerald Yocum and Mildred Yocum, his wife, Alta Pyles, widow, Ocia Williams and Hobert Williams, her husband, Ica Harlan and Elmer Harlan, her husband, Arlie Young and V. A. Young, her husband, Lelah McIntire and Troy McIntire, her husband	The Manufacturers Light and Heat Company	12.50%	44A/1	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	

EXHIBIT "A"

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

SWN A UD WTZ 305H Wetzel County, West Virginia

	wetzer county, west viiginia					
Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased by Southwestern Production Company, LLC
12-10-11	744488-000	Curtis E. Taylor and Ruth Taylor, his wife; Zona Taylor, widow; Rosetta Jackson and Alonzo Jackson, her husband; C. A. Thomas, single; Wilma Anderson and Chalres L. Anderson, her husband; Darrell H. Taylor and Pearl Taylor, his wife; Oran V. Baker, Willa D. Baker, Glenn T. Baker and Helen Baker	The Manufacturers Light and Heat Company	12.50%	46A/327	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-10	744500-001	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	15.00%	99A/498	0.00000
12 10 10	711000 002	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		167A/9	
12-10-9	724468-000	Ray C. Herman, single and Dail A. Herman, single	The Manufacturers Light and Heat Company	12.50%	45A/314	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-001	Bula Burton, a widow	Chesapeake Appalachia, L.L.C.	12.50%	92A/647	0.00000
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-002	Rose Mary Herman, a widow	Chesapeake Appalachia, L.L.C.	12.50%	92A/638	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-003	Ruby Sylvester, a widow	Chesapeake Appalachia, L.L.C.	12.50%	92A/641	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	70 -111	157A/540	11
12-10-3	724279-004	Virginia M. Amos, a widow	Chesapeake Appalachia, L.L.C.	12.50%	92A/644	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased b Southwestern Production Company LLC
12-10-3	724279-005	Charles George Hunter, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	92A/632	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-006	Faye Young, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	92A/635	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-007	Francis R. Goddard	Chesapeake Appalachia, L.L.C.	12.50%	101A/209	美国基本
12 10 0	30, 141 2 302 1	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-008	Wayne L. Goddard, a/k/a Wayne Goddard	Chesapeake Appalachia, L.L.C.	12.50%	101A/212	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-009	Ronald L. Goddard, a/k/a Ronald Goddard	Chesapeake Appalachia, L.L.C.	12.50%	101A/188	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-010	Faye L. Sturgis	Chesapeake Appalachia, L.L.C.	12.50%	100A/990	
77/73/7		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-011	Charles H. Baker	Chesapeake Appalachia, L.L.C.	12.50%	100A/987	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-012	Feryn L. Jones	Chesapeake Appalachia, L.L.C.	12.50%	100A/984	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-013	Franklin B. Baker, III, a single man	Chesapeake Appalachia, L.L.C.	12.50%	101A/643	\ <u></u>
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-014	Sharla Chapman, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	102A/32	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
12-10-3	724279-015	Ray C. Herman, Jr., a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	102A/1	
			SWN Production Company, LLC		157A/540	

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

weizer County, west virginia						_
Tax Parcel	Lease Number	Lessor	Lessee	Royalty	вк/PG	Interest Not Leased I Southwestern Production Company LLC
12-5-20	724445-000	Otis Simmons, widower; Harold S. Simmons and Roxie Simmons, his wife; Roxie Newman and Archie Newman, her husband	The Manufacturers Light and Heat Company	12.50%	45A/224	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-5-21	723430-000	Robert W. Riggenbach, a married man acting in his own right	Columbia Natural Resources, LLC	12.50%	84A/436	0.00000
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-4-39	724503-000	Cedric Judy Schaeffer, widow	The Manufacturers Light and Heat Company	12.50%	46A/411	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	*
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-4-27	745552-001	Larry Carmichael, a married man dealing in his sole and spearate property	SWN Production Company, LLC	17.00%	172A/612	0.00000
	745552-002	Dr. Astrid Viktoria Meckel, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	203A/743	
	745552-003	Robert Benedikt Meckel, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	203A/741	
	745552-004	Dr. Claudia Renate Meckel-Jonas	SWN Production Company, LLC	18.00%	203A/746	

Office of Oil and Gas
AUG 2 2 2018

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased b Southwestern Production Company LLC
	1002968.02	John J. Mensore, Individually, John J. Mensore, Trustee under the John J. Mensore Revocable Trust dated July 12, 2011, Tulane B. Mensore and Esta Marie McCall	Stone Energy Corporation, a Delaware corporation	18.75%	151A/540	
		Stone Energy Corporation, a Delaware corporation	EQT Production Company		183A/305	
		EQT Production Company	SWN Production Company, LLC		212A/704	
12-4-28	777777/D.16	Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC	N	90A/242	0.00000
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		176A/747	
12-4-19	744491-000	J. D. Rush, single; Bernard Rush and Jessie Rush, his wife	The Manufacturers Light and Heat Company	12.50%	47A/113	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		167A/9	
12-4-18	747067-000	Wetzel County Board of Education, a/k/a The Board of Education of Proctor District, Wetzel Co., W. Va.	SWN Production Company, LLC	20.00%	198A/169	0.00000
12-4-26	723425-000	Vivian Dillon, a married woman dealing in her sole and separate property	Columbia Natural Resources, LLC	12.50%	84A/401	0.00000
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-4-17	724451-000	Ambrose Blatt, single, and Foster Blatt single, Mary Blatt, single, Nellie Becker, widow	, The Manufacturers Light and Heat Company	12.50%	45A/260	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	

AUG 2 2 2018
WW Department of

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, L.L.C., Operator SWN A UD WTZ 305H

Wetzel County, West Virginia

Tax Parcel	Lease Number	Lessor	Lessee	Royalty	BK/PG	Interest Not Leased b Southwestern Production Company LLC
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	
12-4-6	724463-000	F. B. Sivert and Regena Sivert, his wife	The Manufacturers Light and Heat Company	12.50%	45A/370	0.00000
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		176A/747	
		Columbia Gas Transmission, LLC, et al	SWN Production Company, LLC		188A/278	
	726713-001	Tara Pass, f/k/a Tara Roebuck and James H. Pass, her husband	Chesapeake Appalachia, L.L.C.	12.50%	107A/875	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-001	Ernest G. Roebuck, Jr., a single man	Chesapeake Appalachia, L.L.C.	12.50%	108A/583	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-002	Pamela J. Roebuck, a/k/a Pamela Roebuck and Ernest G. Roebuck, her husband	Chesapeake Appalachia, L.L.C.	12.50%	109A/112	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-003	Ronald A. Michaelis and Suzanne Michaelis, his wife	Chesapeake Appalachia, L.L.C.	12.50%	110A/467	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-004	Gary R. Michaelis, a/k/a Gary Robert Michaelis and Karen A. Michaelis, his wife	Chesapeake Appalachia, L.L.C.	12.50%	114A/288	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-005	Eric Michaelis, a single man	Chesapeake Appalachia, L.L.C.	12.50%	110A/388	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
	726721-006	Stephen Michaelis, a asingle man	Chesapeake Appalachia, L.L.C.	12.50%	119A/51	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	



SWN Production Company, LLC

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

August 16, 2018

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

RE: SWN's proposed New Well: SWN A UD WTZ 305H in Wetzel County, West Virginia, Drilling under Blake Ridge, Middle Fork Road, Hollman Ridge Road, Lynn Camp Road, and Old WV 89.

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 Blake Fork Road, Middle Fork Road, Hollman Ridge Road, Lynn Camp Road, and Old WV 89. 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,

Caleb Weaver Senior Landman

SWN Production Company, LLC

RECEIVED Office of Oil and Gas

AUG 2 2 2018

WV Department of Environmental Protection

R2 W+°

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

	9	MOTICE CERTIFICATION			
Date of Noti	ce Certification:	AP	I No. 47- 103 -		
Date of Notice Certification:			Operator's Well No. SWN A UD WTZ 305H		
	, ,		Well Pad Name: SWN A WTZ Pad		
Notice has	heen given:	We	ii i au i vaine.		
	ne provisions in West Virginia Code	\$ 22-64 the Operator has provided	the required parties v	with the Notice Forms liste	
	tract of land as follows:	g 22-071, the Operator has provided	a the required parties v	thir the riotice roims use	
State:	West Virginia	Eas	ting: 530901.31		
County:	103- Wetzel		rthing: 4392585.10		
District:	Proctor	Public Road Access:	Macedonia Ridge	1	
Quadrangle:	Wileyville	Generally used farm i			
Watershed:	Upper Ohio South		Generally used farm fiame.		
	West Virginia Code § 22-6A-7(b),				
Virginia Cod of this article Pursuant to that the Ope	of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant west Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	ender proof of and certify to the sent. Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: Details: D	ecretary that the notice		
				ONBI	
LI I. NO	TICE OF SEISMIC ACTIVITY or	지수 있는 대학에 가지하다 전에 마음을 하였다면 이 에게 가져지다 가는 다양하다.		☐ RECEIVED/	
		SEISMIC ACTIVITY WAS CO	NDUCTED	NOT REQUIRED	
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or ☐ NO PLAT SURVEY V	WAS CONDUCTED	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAY WAS CONDUCTED or	the same of the sa	RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION			RECEIVED	

Required Attachments:

5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

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.

Environmental

RECEIVED

RECEIVED

4710 303252

Certification of Notice is hereby given;

THEREFORE, I Brittany Woody The Prince of the Notice Required 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:
 Brittany Woody
 Jane Lew, WV 26378

 Its:
 Regulatory Analyst
 Facsimile:
 304-884-1690

Telephone: 304-884-1610 Email: Brittany_Woody@swn.com

NOTAR Cifical Seal
Notary Public, State Of West Virginia
Elizabeth Blankenship
941 Simpson Run Road
Weston WV 26452
My commission expires June 23, 2024

__ 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

AUG 2 2 2018

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- 103 OPERATOR WELL NO. SWN A UD WTZ 305H
Well Pad Name: SWN A WTZ Pad

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

Not	ice Time Require	ment: notice shall be provi	ided no later th	an the filing date of permit application.	
	Shi	110	d	Talle	
Dat	e of Notice:	Date Permit Applica	tion Filed:	twitte.	
Not	ice of:			T. T.	
			37.25.42.12	COUNTY OF THE PARTY OF THE PART	
\checkmark	PERMIT FOR A			PROVAL FOR THE	
	WELL WORK	CONST	RUCTION OF	AN IMPOUNDMENT OR PIT	
Dali	war mathad nur	suant to West Virginia C	ode 8 22-64-1	0(b)	
Den	very method pur	suant to west virginia C	oue 9 22-071-1	0(0)	
	PERSONAL	✓ REGISTERED	☐ METI	HOD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECE	EIPT OR SIGNATURE CONFIRMATION	
sedi the soil a description operation operatio	ment control plan resurface of the tract and gas leasehold be bribed in the erosion rator or lessee, in the e coal seams; (4) T work, if the surface oundment or pit as a water well, springlide water for construction (b) of this second of the sheriff revision of this article le R. § 35-8-5.7.a.	equired by section seven of on which the well is or is pre- eing developed by the propo- n and sediment control plan are event the tract of land on whe he owners of record of the pro- described in section nine of any or water supply source lo- umption by humans or dome tivity is to take place. (c)(1) ection hold interests in the la- equired to be maintained pure to the contrary, notice to a requires, in part, that the ope	this article, and opposed to be loosed well work, submitted pursu which the well purface tract or to blacement, constitution this article; (5) cated within on estic animals; artif more than the ands, the applic suant to section lien holder is no rator shall also	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The cated; (2) The owners of record of the surface tract or to if the surface tract is to be used for roads or other land and to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be unracts overlying the oil and gas leasehold being develop truction, enlargement, alteration, repair, removal or about the above the surface owner or water purveyor who is known to be thousand five hundred feet of the center of the well performed (6). The operator of any natural gas storage field with the tentants in common or other co-owners of interests of an tracticle one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the laprovide the Well Site Safety Plan ("WSSP") to the surgest as provided in section 15 of this rule.	owners of record of racts overlying the disturbance as The coal owner, aderlain by one or ed by the proposed andonment of any the applicant to ead which is used to min which the described in described in the otwithstanding any andowner. W. Va.
			&S Plan Notic	e Well Plat Notice is hereby provided to:	
	URFACE OWNE			☐ COAL OWNER OR LESSEE Name: CNX Gas Company, LLC	
	me: SWN Production C			Address: 1000 Consol Energy Drive	
	dress: PO Box 672625 ston, TX 77267		-	Canonsburg, PA 15317	
Nai				COAL OPERATOR	
			_	Name:	
Au	11033.		_	Address:	
ПS	LIREACE OWNE	R(s) (Road and/or Other D	isturbance)		RECEIVED Office of Oil and Gas
		(5) (11044 4114 01 3 1111 =		SURFACE OWNER OF WATER WELL	Office of on save
			_	AND/OR WATER PURVEYOR(s)	AUG 2 2 2018
7 1 4	aress.			Name: See Attachment 13A	
Nai				Address:	WV Department of Environmental Protection
Ad	dress:				
				☐ OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
	URFACE OWNE	R(s) (Impoundments or Pit	s)	Name:	
Na	me:	1. W	-	Address:	_
Ad	dress:			ADI 11/2 10 10	-
_			-	*Please attach additional forms if necessary	

OWNERNAME	ADDRESS	CITY/STATE/ZIP	WATERSOUCES
YEATER TERRY W & DORIS	HC 60 BOX 257	NEW MARTINSVILLE, WV 26155	1
YOHO NORMA F	828 GREENLAWN AVE NW	WARREN, OH 44483	2
YOCUM GARY G & LAVERNE F	HC 60 BOX 252	NEW MARTINSVILLE, WV 26155	4
BICKERSTAFF JACOB & ANNA	14383 PROCTOR CREEK RD	NEW MARTINSVILLE, WV 26155	1
CALVERT RODNEY A	13998 PROCTOR CREEK RD	NEW MARTINSVILLE, WV 26155	7

RECEIVED Office of Oil and Gas

AUG 2 2 2018

WV Department of Environmental Protection WW-6A (8-13) 4710 303252

API NO. 47- 103

OPERATOR WELL NO. SWN AUD WTZ 305H

Well Pad Name: SWN A WTZ Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-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 sected are that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to another the first

API NO. 7-13 0 - 3 0 3 2 5 OPERATOR WELL NO. SWNAUDWIZ-0052 Well Pad Name: SWNAWTZ 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 company as to the location or construction of the applicant's proposed well work to the Secretary at:

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

AUG 2 2 2018

W 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.

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.

Office of Oil and Gas

AUG 2 2 2018

WV Department of Environmental Protection

API NO. 47-103 OPERATOR WELL NO. SWN A UD WTZ 305H
WEJ Pad Namë: WN AWIZ Pad 2

Notice is hereby given by:

Well Operator: SWN Production Co., LL Telephone: 304-884-1614

Email: Brittany_Woody@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

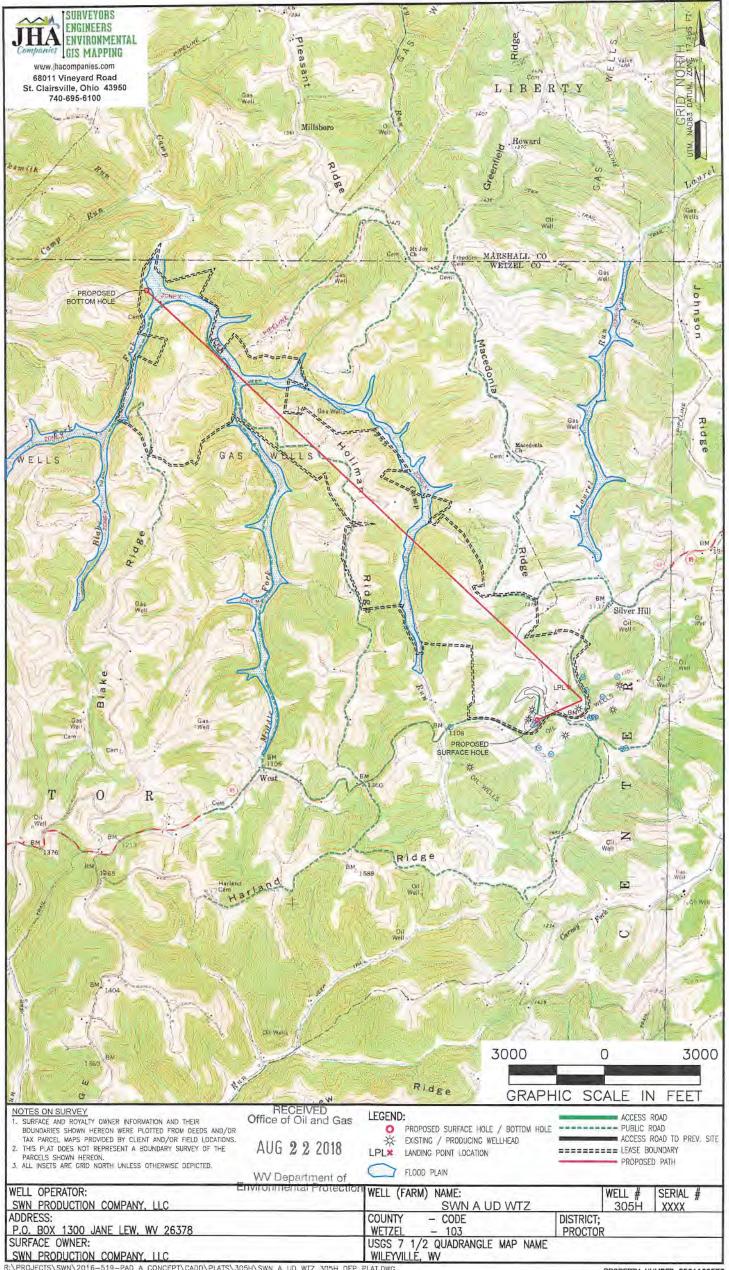
Notary Public, State Of West Virginia
Elizabeth Blankenship
341 Simpson Run Road
Waston WV 26452
My commission expires June 23, 2024

Subscribed and sworn before me this ______ day of _______ May of ______ Notary Public ______ Notary Public ______ My Commission Expires _______ (0/03/04)

RECEIVED Office of Oil and Gas

AUG 2 2 2018

WV Department of Environmental Protection



		nned Entry: 10/25/2017	
Delivery metho	d pursuant to West Virginia C	ode § 22-6A-10a	
☐ PERSONA	L REGISTERED	☐ METHOD OF DELIVERY THAT RI	EQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIF	
on to the surface out no more than beneath such transvener of minera and Sediment Co Secretary, which enable the surface	e tract to conduct any plat surveys in forty-five days prior to such en- act that has filed a declaration pur- als underlying such tract in the co- control Manual and the statutes and in statement shall include contact ce owner to obtain copies from the	Prior to filing a permit application, the operators required pursuant to this article. Such notice try to: (1) The surface owner of such tract; (2) escuant to section thirty-six, article six, chapter to bunty tax records. The notice shall include a stand rules related to oil and gas exploration and prinformation, including the address for a web price secretary.	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the
	y provided to:		
SURFACE		COAL OWNER OR LE	ESSEE
Name: Troy Sidens Address: 14303 P	stricker and Lisa Sidenstricker	Name: CNX Gas Company, LLC	
New Martinsville, WV		Address: 1000 Consol Energy Drive Canonsburg, PA 15317	e
Address:		■ MINERAL OWNER(s)	
		Name: Ruth Ann Calvert	
			#3
Address:			THAT IS
	an and a second and	*please attach additional forms if ne	ecessary
Notice is here	by given:		
Pursuant to Wes	t Virginia Code § 22-6A-10(a), n	notice is hereby given that the undersigned wel	Il operator is planning entry to conduct
	the tract of land as follows:		
	/V /etzel	Approx. Latitude & Longitude:	
County: W	roctor	Public Road Access: Watershed:	Rt. 89
listrict. P			Fish Creek
		Generally used farm name:	SWN A WT7 Pad
Quadrangle: w	fileyville	Generally used farm name:	SWN A WTZ Pad
Quadrangle: w Copies of the sta nay be obtained Charleston, WV	ate Erosion and Sediment Control I from the Secretary, at the WV D 25304 (304-926-0450). Copies	Generally used farm name: I Manual and the statutes and rules related to o Department of Environmental Protection headq of such documents or additional information to the statute of the statutes of the sta	oil and gas exploration and production quarters, located at 601 57th Street, SE.
Quadrangle: w Copies of the stanay be obtained Charleston, WV obtained from the	ate Erosion and Sediment Control of from the Secretary, at the WV D 25304 (304-926-0450). Copies are Secretary by visiting www.dep	I Manual and the statutes and rules related to o Department of Environmental Protection headq of such documents or additional information	oil and gas exploration and production quarters, located at 601 57 th Street, SE, related to horizontal drilling may be
Quadrangle: we copies of the standard the contained Charleston, WV obtained from the contained from the cont	ate Erosion and Sediment Control of from the Secretary, at the WV D 25304 (304-926-0450). Copies are Secretary by visiting www.dep	I Manual and the statutes and rules related to o Department of Environmental Protection headq of such documents or additional information	oil and gas exploration and production quarters, located at 601 57 th Street, SE, related to horizontal drilling may be
Quadrangle: w Copies of the sta nay be obtained Charleston, WV	ate Erosion and Sediment Control I from the Secretary, at the WV D 25304 (304-926-0450). Copies the Secretary by visiting www.dep	I Manual and the statutes and rules related to on Department of Environmental Protection headq of such documents or additional information on the one of such documents or additional information on the one of such documents.	oil and gas exploration and production quarters, located at 601 57 th Street, SE, related to horizontal drilling may be

	n forty five down prior to a	ich entry to: (1) The murface	is article. Such notice	to any owner and occur of and	
	n forty-five days prior to a	ich entry to: (1) The murface a	ns arricle. Such house	to any owner or lessee of coal seams	
beneath such tra	act that has filed a declarati	on pursuant to section thirty-s	wher of such tract; (2)	wenty-two of this code; and (3) any	
owner of minera	als underlying such tract in	the county tax records. The i	otice shall include a st	atement that copies of the state Erosic	on
and Sediment C	control Manual and the stat	ites and rules related to oil an	gas exploration and p	production may be obtained from the	
Secretary, which	h statement shall include c	ntact information, including	he address for a web p	age on the Secretary's web site, to	
enable the surra	ce owner to obtain copies	rom the secretary.			
Notice is hereb	y provided to:				
☐ SURFACE		П	10.41 0110.000 000.00	CORP	
			OAL OWNER OR LE		
Address:		Name			
			55.		
Name:					
Address:			IINERAL OWNER(s)		
3 T		Name	Carla E Rabel		
		Addre	SS: 810 Wetzel Tyler Ridge Rid	oad	
			attach additional forms if no	cessary	
Notice is here					
Pursuant to Wes	st Virginia Code § 22-6A-1	0(a), notice is hereby given th	at the undersigned wel	l operator is planning entry to conduc	t
	the tract of land as follows		atitude & Longitude:	39.684757, -80.640554	
	Vetzel	D. Lii. D.	ad Access:	Rt. 89	_
	roctor	Watauda		Fish Creek	_
Quadrangle: w			used farm name:	SWN A WTZ Pad	_

SERVICE MAIL Oursuant to West Virginia Code § 22-6A-10(a), Prior to	2-6A-10a METHOD OF DELIVERY THAT R RECEIPT OR SIGNATURE CONFI	EOUIRES A
SERVICE MAIL Oursuant to West Virginia Code § 22-6A-10(a), Prior to		EOUIRES A
SERVICE MAIL Oursuant to West Virginia Code § 22-6A-10(a), Prior to		
ursuant to West Virginia Code § 22-6A-10(a), Prior to		
on to the surface tract to conduct any plat surveys require that no more than forty-five days prior to such entry to: (eneath such tract that has filed a declaration pursuant to where of minerals underlying such tract in the county tained Sediment Control Manual and the statutes and rules decretary, which statement shall include contact informationable the surface owner to obtain copies from the secretary.	red pursuant to this article. Such notice 1) The surface owner of such tract; (2) a section thirty-six, article six, chapter x records. The notice shall include a s related to oil and gas exploration and ation, including the address for a web particle.	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the
Notice is hereby provided to:		
☐ SURFACE OWNER(s)	☐ COAL OWNER OR L	ESSEE
Jame:	Name:	
Address:	Address:	
lame;		
Address:	■ MINERAL OWNER(s))
	Name: Connie Jean Rowland	
Vame:	Address: 535 Briarcliff Court	
Address:	New Martinsville, WV 26155 *please attach additional forms if n	doors and
	provide actain additional forms II II	
Notice is hereby given: Tursuant to West Virginia Code § 22-6A-10(a), notice is plat survey on the tract of land as follows: tate: wv		
Country: Webed	Approx. Latitude & Longitude: Public Road Access:	39.684757, -80.640554 Rt. 89
District: Proctor	Watershed:	Fish Creek
Quadrangle: Wileyville	Generally used farm name:	SWN A WTZ Pad
Copies of the state Erosion and Sediment Control Manual and be obtained from the Secretary, at the WV Departm Charleston, WV 25304 (304-926-0450). Copies of such btained from the Secretary by visiting www.dep.wv.gov	ent of Environmental Protection heado documents or additional information	quarters, located at 601 57th Street, SE.
lotice is hereby given by:		
Vell Operator: SWN PRODUCTION COMPANY, LLC	Address: PO BOX 1300	
elephone: 304-884-1610	JANE LEW, WV 2637	AUG 22
	Facsimile:	Of Oil
mail: dee_southall@swn.com or brittany_woody@swn.com		" U)

Operator Well No. SINDWIZEPARD 3252

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

	ce: 10/18/2017		nned Entry:				
Delivery met	thod pursuant	to West Virginia Co	ode § 22-6A	-10a			
☐ PERSO	NAL 🔳	REGISTERED	☐ ME	THOD OF DEI	LIVERY THAT R	EOUIRES A	
SERVIC		MAIL			NATURE CONFIL		
Dumanant to V	Vast Visalsia C	lada (22 64 10/a) I					C 1
on to the surf but no more to beneath such owner of min and Sediment Secretary, who	face tract to conthan forty-five tract that has for a tract that has for a track underlying to the control Manualich statement.	code § 22-6A-10(a), Feduct any plat surveys days prior to such entiled a declaration puring such tract in the contact and the statutes and shall include contact in obtain copies from the	s required putry to: (1) The suant to sect unty tax record rules related information,	rsuant to this a se surface owne ion thirty-six, a ords. The noticed to oil and ga	rticle. Such notice r of such tract; (2) rticle six, chapter e shall include a si s exploration and p	shall be provided at to any owner or les twenty-two of this c tatement that copies production may be o	least seven days see of coal seams ode; and (3) any of the state Erosion obtained from the
Notice is her	eby provided	to:					
☐ SURFAC	CE OWNER(s)	i		□ соа	L OWNER OR LE	ESSEE	
Name:							
Address:			4	Address:			
Name:							-
Address:				■ MINI	ERAL OWNER(s)		
				Name: Cat	hy Williams 426 Hook Street		-
			- 1	Address: Bridgeville, PA			-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					h additional forms if no	ecessary	-
Pursuant to Was plat survey of State:	on the tract of	ode § 22-6A-10(a), n land as follows:	otice is here	Approx. Latit	ude & Longitude:	The state of Long	ng entry to conduct
County:				Public Road A	Access:	Rt, 89	
District: Quadrangle:				Watershed:	1.0	Fish Creek	
Quadrangie.	Wileyville			Generally use	d farm name:	SWN A WTZ Pad	
may be obtair	ned from the Se VV 25304 (304)	and Sediment Control ecretary, at the WV D 4-926-0450). Copies by visiting <u>www.dep.</u>	epartment of of such docu	f Environmenta iments or addit and-gas/pages/o	l Protection headq ional information r lefault.aspx.	uarters, located at 6	01 57th Street, SE.
Charleston, Wobtained from	reby given b	TION COMPANY IS A		Address:	PO BOX 1300		
Charleston, Wobtained from Notice is he Well Operator	r: SWN PRODUC	TION COMPANY, LLC					Alle
Charleston, Wobtained from	7: SWN PRODUC 304-884-1610	TION COMPANY, LLC		Facsimile:	JANE LEW, WV 26378	3	AUG 22 26

	:e: 10/18/2017	Date of Pla	ined Er	ntry: 10/25/2017			
elivery met	hod pursuant	to West Virginia C	ode § 22	2-6A-10a			
PERSO	III III	REGISTERED		METHOD OF DE	LIVERY THAT R	EQUIRES A	
SERVIC	E	MAIL		RECEIPT OR SIG			
n to the surfa ut no more the eneath such wner of min- nd Sediment ecretary, wh	ace tract to cond han forty-five d tract that has fil erals underlying Control Manua ich statement sl	duct any plat survey lays prior to such en led a declaration pur g such tract in the co al and the statutes an	require ry to: (1 suant to unty tax d rules in informa	ed pursuant to this a 1) The surface own section thirty-six, a records. The notion related to oil and gation, including the	article. Such notice or of such tract; (2) article six, chapter to be shall include a start as exploration and p	r shall provide notice shall be provided at I to any owner or lesse twenty-two of this co atement that copies of production may be ob- age on the Secretary	east seven days ee of coal seams de; and (3) any f the state Erosion tained from the
otice is her	eby provided t	0:					
SURFAC	E OWNER(s)			□ coA	L OWNER OR LE	ESSEE	
lame:				Name:			
.ddress:			-	Address:			
lame:				-			
.ddress:				III MIN	ERAL OWNER(s)		
10.000					ncy G Metheny		
ame:			3		3948 N. Park Ave		36
			-	Warren, OH	44481 ch additional forms if ne	audios.	
ursuant to W plat survey o tate:	on the tract of la	ode § 22-6A-10(a), n and as follows:		Approx. Lati	tude & Longitude:	l operator is planning	; entry to conduct
ounty:	Wetzel			Public Road	Access:	Rt. 89	
istrict:				_ Watershed:		Fish Creek	
uadrangle:	Wileyville			_ Generally use	ed farm name:	SWN A WTZ Pad	
ay be obtain harleston, W btained from	ed from the Sec V 25304 (304) the Secretary be reby given by	cretary, at the WV E-926-0450). Copies by visiting <u>www.dep</u>	epartme of such	ent of Environments documents or addit	al Protection headq tional information r	il and gas exploration uarters, located at 60 elated to horizontal d	1 57th Street SE
ell Operator							
	304-884-1610	vп.com or brittany_woody@s		Facsimile:	JANE LEW, WV 26378		AUG 2 2 201

entry	and and america	tionist similar Profits	ided at least SE	EN (1) da	lys but no more tha	n FORTY-FIVE	(45) days prior to
	ce: 10/18/2017	Date of Plan	ned Entry: 10/25	5/2017			
Delivery me	thod pursuant	to West Virginia Co	ode § 22-6A-10a				
☐ PERSO	NAL B	REGISTERED	П метно	D OF DE	LIVERY THAT RI	FOLURES A	
SERVI		MAIL			NATURE CONFIE		
on to the surf but no more beneath such owner of mir and Sedimen Secretary, wh	face tract to cond than forty-five d tract that has fil terals underlying t Control Manua nich statement sl	ode § 22-6A-10(a), P duct any plat surveys lays prior to such enti- led a declaration purs g such tract in the cou- al and the statutes and hall include contact in obtain copies from the	required pursua ry to: (1) The sur- suant to section to anty tax records. If rules related to information, inclu-	nt to this a rface owne hirty-six, a The notic oil and ga	rticle. Such notice or of such tract; (2) article six, chapter to be shall include a st s exploration and p	shall be provided to any owner or l wenty-two of this atement that copi production may be	at least seven days essee of coal seams code; and (3) any es of the state Erosion cobtained from the
Notice is her	eby provided to	0:					
☐ SURFA	CE OWNER(s)			☐ COA	L OWNER OR LE	ESSEE	
Name:							
Address:				Address:			
Name: Address:					ERAL OWNER(s)		=
				Name: Vic			
Name:					HC 74 Box 66		
Address:				Alma, WV 26			-
				*please attac	ch additional forms if ne	cessary	
Notice is he	reby given:						
Pursuant to V a plat survey State: County:	Vest Virginia Co on the tract of la WV Wetzel	and as follows:	Ap Pub	prox. Latit blic Road	ude & Longitude:	39.684757, -80.64055 Rt. 89	ning entry to conduct
Pursuant to V a plat survey State: County: District:	Vest Virginia Co on the tract of la WV Wetzel Proctor	and as follows:	Ap Pul Wa	prox. Latit blic Road A atershed:	ude & Longitude: Access:	39.684757, -80.64055 Rt. 89 Fish Creek	4
Pursuant to Va plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, V	Vest Virginia Co on the tract of la WV Wetzel Proctor Wileyville state Erosion and the from the Sec VV 25304 (304-	and as follows:	Ap Put Wa Ger Manual and the epartment of Envor	prox. Latit blic Road A atershed: nerally use statutes an vironmenta	aude & Longitude: Access: ed farm name: d rules related to o al Protection headq ional information r	39.684757, -80.64055 Rt. 89 Fish Creek SWN A WTZ Pad il and gas explora	tion and production
Pursuant to Va plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, Voltained from	Vest Virginia Co on the tract of la WV Wetzel Proctor Wileyville state Erosion ar ned from the Sec VV 25304 (304- n the Secretary b	and as follows: and Sediment Control cretary, at the WV De- 926-0450). Copies of the copy visiting www.dep.	Ap Put Wa Ger Manual and the epartment of Envor	prox. Latit blic Road A atershed: nerally use statutes an vironmenta	aude & Longitude: Access: ed farm name: d rules related to o al Protection headq ional information r	39.684757, -80.64055 Rt. 89 Fish Creek SWN A WTZ Pad il and gas explora	tion and production 601 57 th Street, SE, al drilling may be
Pursuant to Var plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, Valuationed from Notice is he	West Virginia Co on the tract of la WV Wetzel Proctor Wileyville state Erosion ar ned from the Sec VV 25304 (304- n the Secretary b	and as follows: and Sediment Control cretary, at the WV De- 226-0450). Copies of the copy visiting www.dep.	Ap Put Wa Ger Manual and the repartment of Env of such documen wv.gov/oil-and-s	prox. Latit blic Road A atershed: nerally use statutes an vironmenta ats or addit gas/pages/o	aude & Longitude: Access: ed farm name: d rules related to o al Protection headq ional information r default.aspx.	39.684757, -80.64055 Rt. 89 Fish Creek SWN A WTZ Pad il and gas explora	tion and production 601 57 th Street, SE, al drilling may be
Pursuant to Va plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, Valuationed from Notice is he Well Operato	Vest Virginia Co on the tract of la WV Wetzel Proctor Wileyville state Erosion and the Second (304- in the Secretary by reby given by r: SWN PRODUCT	and as follows: and Sediment Control cretary, at the WV De- 926-0450). Copies of the copy visiting www.dep.	Ap Put Wa Ger Manual and the repartment of Env of such documen wv.gov/oil-and-s	prox. Latit blic Road A atershed: nerally use statutes an vironmenta	ande & Longitude: Access: ad farm name: d rules related to o al Protection headq ional information r default.aspx.	39.684757, -80.64055 Rt. 89 Fish Creek SWN A WTZ Pad il and gas explora uarters, located at elated to horizont	tion and production 601 57 th Street, SE, al drilling may be
Pursuant to Va plat survey State: County: District: Quadrangle: Copies of the may be obtain Charleston, Voltained from	West Virginia Co on the tract of la WV Wetzel Proctor Wileyville state Erosion and from the Sec VV 25304 (304- n the Secretary by reby given by r: SWN PRODUCT 304-884-1610	and as follows: and Sediment Control cretary, at the WV De- 226-0450). Copies of the copy visiting www.dep.	Ap Pub Wa Gen Manual and the separtment of Env of such documen wv.gov/oil-and-s	prox. Latit blic Road A atershed: nerally use statutes an vironmenta ats or addit gas/pages/o	aude & Longitude: Access: ed farm name: d rules related to o al Protection headq ional information r default.aspx.	39.684757, -80.64055 Rt. 89 Fish Creek SWN A WTZ Pad il and gas explora uarters, located at elated to horizont	tion and production 601 57 th Street, SE, al drilling may be RECEIVED Office of Oil and Gas

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

Notice Time Date of Noti		Notice shall be		st TEN (10) days prior to filing a	permit application.
Delivery me	thod pursuant	to West Virgini	a Code § 22-6.	A-16(b)	
☐ HAND		CERTIFIED M	IAII		
DELIV		RETURN REC		STED	
receipt reque drilling a hor of this subsec- subsection m and if availab	sted or hand del rizontal well: Pretion as of the day be waived in ole, facsimile nu	ivery, give the seconded, That note the notice was writing by the seconder and electrons.	surface owner notice given pursus provided to tourface owner. Only mail address.	notice of its intent to enter upon to suant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator.	, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Name: CNX G	ereby provided as Company, LLC	to the SURF	ACE OWNE	Name:	
	Consol Energy Drive		_	Address:	
				riddress.	
Notice is he	e reby given: Vest Virginia Co			ereby given that the undersigned ntal well on the tract of land as for	well operator has an intent to enter upon
Notice is he Pursuant to V the surface of State: County:	ereby given: Vest Virginia Co wner's land for t West Virginia Wetzel			utal well on the tract of land as for UTM NAD 83 Easting: Northing:	bllows: 530,901,307 4,392,585,109
Notice is he Pursuant to V the surface of State: County: District:	ereby given: Vest Virginia Co wner's land for t West Virginia			utal well on the tract of land as for UTM NAD 83 Public Road Access: Easting: Northing:	bllows: 530,901,307
Notice is he Pursuant to V the surface of State: County:	ereby given: Vest Virginia Co wner's land for t West Virginia Wetzel Proctor			utal well on the tract of land as for UTM NAD 83 Easting: Northing:	bllows: 530,901.307 4,392,585.109 Macedonia Ridge
Notice is he Pursuant to Vathe surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurrelated to ho	vest Virginia Cowner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling	he purpose of d : Code § 22-6A-1 onic mail addre may be obtaine	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorize cretary, at the WV Department of	bllows: 530,901.307 4,392,585.109 Macedonia Ridge
Notice is he Pursuant to V the surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he	vest Virginia Cowner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling 1 57th Street, SE, preby given by	: Code § 22-6A-lonic mail addremay be obtaine Charleston, W	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorize cretary, at the WV Department of	bllows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters,
Notice is he Pursuant to V the surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he	vest Virginia Cowner's land for to West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling	: Code § 22-6A-lonic mail addremay be obtaine Charleston, W	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorize cretary, at the WV Department of	billows: 530,901,307 4,392,585,109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to V the surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to ho located at 60 Notice is he	vest Virginia Cowner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling 1 57th Street, SE	: Code § 22-6A-lonic mail addremay be obtaine Charleston, W	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorize cretary, at the WV Department of 926-0450) or by visiting www.de	billows: 530,901,307 4,392,585,109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to Vathe surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurrelated to ho located at 60 Notice is he Well Operato Address:	vest Virginia Cowner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling 1 57th Street, SE	the purpose of d Code § 22-6A-1 Code § 22-6A-1 Conic mail addre may be obtaine Charleston, W Charleston, W To Company, LLC To Innovation Drive	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorized retary, at the WV Department of 926-0450) or by visiting www.de Authorized Representative: Address:	billows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel
Notice is he Pursuant to Vathe surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurrelated to ho located at 60 Notice is he Well Operato Address:	vest Virginia Cowner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling I 57th Street, SE, reby given by SWN Production PO Box 1300, 1	the purpose of d Code § 22-6A-1 Code § 22-6A-1 Conic mail addre may be obtaine Charleston, W Charleston, W To Company, LLC To Innovation Drive	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorize cretary, at the WV Department of 926-0450) or by visiting www.defauthorized Representative:	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 832-540-1136 RECEIVED
Notice is he Pursuant to Vathe surface or State: County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to ho located at 60 Notice is he Well Operator	vest Virginia Cowner's land for the West Virginia Welzel Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrorizontal drilling la 57th Street, SE, creby given by the SWN Production of PO Box 1300, 11 Jane Lew, WV:	the purpose of d 22-6A-lonic mail addre may be obtaine Charleston, W 1 n Company, LLC 79 Innovation Drive	6(b), this notices of the operad from the Sec	ntal well on the tract of land as for UTM NAD 83 Public Road Access: Generally used farm name: ce shall include the name, additator and the operator's authorized retary, at the WV Department of 926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378

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.

Date of Noti	ce: 03/27/2018 E	Pate Permit Application Filed:	10
Delivery met	hod pursuant to West Virginia (Code § 22-6A-16(b)	1
☐ HAND	CERTIFIED MAI	L	
DELIVE	ERY RETURN RECEI	PT REQUESTED	
receipt request drilling a hore of this subsection mand if availab	sted or hand delivery, give the sur- izontal well: <i>Provided</i> , That notice tion as of the date the notice was pay be waived in writing by the sur- le, facsimile number and electronic	t ten days prior to filing a permit application face owner notice of its intent to enter upon the given pursuant to subsection (a), section to provided to the surface owner: <i>Provided</i> , how face owner. The notice, if required, shall incommail address of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number,
	reby provided to the SURFA oduction Company, LLC	Name:	
Address: PO I		Address:	
Houston, TX 772		ridaress.	
oursuant to V		notice is hereby given that the undersigned ing a horizontal well on the tract of land as for Easting:	
Pursuant to V he surface ov State: County:	Vest Virginia Code § 22-6A-16(b) vner's land for the purpose of drill West Virginia Wetzel	ing a horizontal well on the tract of land as for the tract of land as	530,901.307 4,392,585.109
Pursuant to V he surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b) vner's land for the purpose of drill West Virginia Wetzel Proctor	ing a horizontal well on the tract of land as for the second seco	530,901.307 4,392,585.109 Macedonia Ridge
Oursuant to V he surface ov State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(b) vner's land for the purpose of drill West Virginia Wetzel	ing a horizontal well on the tract of land as for the tract of land as	530,901.307 4,392,585.109
Pursuant to Whe surface over the surface	Vest Virginia Code § 22-6A-16(b) vner's land for the purpose of drill West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(inber and electronic mail address izontal drilling may be obtained for	ing a horizontal well on the tract of land as for the second seco	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
Pursuant to V he surface ov State: County: District: Quadrangle: Watershed: Fhis Notice Pursuant to V acsimile num elated to hor ocated at 601	Vest Virginia Code § 22-6A-16(b) vner's land for the purpose of drill West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(inber and electronic mail address izontal drilling may be obtained for the purpose of drilling may be obtaine	UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: b), this notice shall include the name, add of the operator and the operator's authorizerom the Secretary, at the WV Department of	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
Pursuant to V he surface ov State: County: District: Quadrangle: Watershed: Fhis Notice Pursuant to V acsimile nun elated to hor ocated at 601	Vest Virginia Code § 22-6A-16(b) Vest Virginia West Virginia Wetzel Proctor Wileyville, WW Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(in the purpose of drill include: Nest Virginia Code § 22-6A-16(in the purpose of drilling may be obtained in the purpose of drilling in the purpose of drilling may be obtained in the purpose of drilling may	UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: b), this notice shall include the name, add of the operator and the operator's authorizerom the Secretary, at the WV Department of	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V he surface ov State: County: District: Quadrangle: Vatershed: Fhis Notice Pursuant to V acsimile nur elated to hor ocated at 601 Notice is he Vell Operato	Vest Virginia Code § 22-6A-16(b) West Virginia West Virginia Wetzel Proctor Wileyville, WW Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(inber and electronic mail address izontal drilling may be obtained for 57th Street, SE, Charleston, WV reby given by:	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: b), this notice shall include the name, addrof the operator and the operator's authorizerom the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V he surface over State: County: District: Quadrangle: Vatershed: Fhis Notice Pursuant to V acsimile nur elated to hor ocated at 601 Notice is he Vell Operato Address:	Vest Virginia Code § 22-6A-16(b) Vest Virginia Code § 22-6A-16(b) West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(b) Shall Include: West Virginia Code § 22-6A-16(b) Shall Include: The Shall Include: Th	ing a horizontal well on the tract of land as for the control of the control of the control of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to V the surface over the surface to surface the surface to surfa	Vest Virginia Code § 22-6A-16(b) Vest Virginia Vest Virginia West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(l) Inber and electronic mail address izontal drilling may be obtained for 57th Street, SE, Charleston, WV reby given by: T: SWN Production Company, LLC PO Box 1300, 179 Innovation Drive	ing a horizontal well on the tract of land as for the company of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting	

WW-6A5 (1/12)

Operato Well No. SWN A WTZ 305H

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

Delivery method pursuant to West Virginia Code § 22-6A-16(c) Terror RECEIPT REQUESTED DELIVERY Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filling the permit application, an operator stretum receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a hot the planned operation. The notice required by this subsection shall include: (1) A copy of this code section required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer damages to the surface affected by oil and gas operations to the extent the damages are compensable under article (d). The notices required by this section shall be given to the surface owner at the address listed in the records of of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: CNX Gas Company, LLC Address: 1000 Consult Energy Drive Canorisburg, PA 15317 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The t	Notice Time Date of Notice	Requirement: notice shall be pro ee: 04/17/2018 Date Pe	vided no later than the fili ermit Application Filed:	ig date of permit	application.	
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator stretum receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a hor the planned operation. The notice required by this subsection shall include: (1) A copy of this code section required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer damages to the surface affected by oil and gas operations to the extent the damages are compensable under article (d) The notices required by this section shall be given to the surface owner at the address listed in the records of of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: CNX Gas Company, LLC Address: 1000 Consol Energy Drive Address: 2000 Consol Energy Drive Address: 4000 Consol Energy Drive Canonsburg, PA 15317 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devolved by the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devolved by the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice is hereby given that the undersigned well operator has devolved by Wileyille, WV Generally used farm name: SWN A WTZ This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The tobe provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The tobe provided by W. Va. Code § 22-6A-16(c) to a surface owner w	Delivery met	hod pursuant to West Virginia (Code § 22-6A-16(c)	1		
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator stretum receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a hor the planned operation. The notice required by this subsection shall include: (1) A copy of this code section required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer damages to the surface affected by oil and gas operations to the extent the damages are compensable under article (d) The notices required by this section shall be given to the surface owner at the address listed in the records of of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: CNX Gas Company, LLC Address: 1000 Consol Energy Drive Address: 1000 Consol Energy Drive Canonsburg, PA 15317 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice is hereby given that the undersigned well operator has devoperation: Watershed: Wileyville, Ww Generally used farm name: SWN A WTZ This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The tobe provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1	CERTII	FIED MAIL	☐ HAND			
return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a hot the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer damages to the surface affected by oil and gas operations to the extent the damages are compensable under article (d) The notices required by this section shall be given to the surface owner at the address listed in the records of of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: Address: Name: Address Name: Address: Name: Name: Name:						
(at the address listed in the records of the sheriff at the time of notice): Name: CNX Gas Company, LLC Address: 1000 Consol Energy Drive Address: 1000 C	return receipt the planned of required to be drilling of a l damages to th (d) The notice	requested or hand delivery, give to operation. The notice required by provided by subsection (b), section corizontal well; and (3) A propose e surface affected by oil and gas of	he surface owner whose lay this subsection shall income ten of this article to a surface use and compoperations to the extent the	and will be used for lude: (1) A copy arface owner whose ansation agreement damages are com	or the drilling of a of this code sect se land will be use at containing an opensable under ar	horizontal well notice of tion; (2) The information ed in conjunction with the offer of compensation for ticle six-b of this chapter.
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Wetzel District: Proctor Quadrangle: Wileyville, WV Watershed: Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The obe provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the process of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction of the provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land wil	at the address	s listed in the records of the sherif	f at the time of notice):	e:		
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Wetzel District: Proctor Quadrangle: Wileyville, WV Watershed: Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction whorizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation surface affected by oil and gas operations to the extent the damages are compensable under article six-b of thinformation related to horizontal drilling may be obtained from the Secretary, at the WV Department of Enviheadquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.gas/pages/default.aspx. Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive						
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has devoperation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Wetzel District: Proctor Quadrangle: Wileyville, WV Watershed: Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction who increase affected by oil and gas operations to the extent the damages are compensable under article six-b of the information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Code at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.gas/pages/default.aspx. Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive	Canonsburg, PA 1	5317				
Quadrangle: Wileyville, WV Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction thorizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation surface affected by oil and gas operations to the extent the damages are compensable under article six-b of the information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Envised Address; located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.gas/pages/default.aspx. Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive	State: County:	West Virginia Wetzel	UTM NAI	Easting: Northing:	530,901.307 4,392,585.109	ows:
Watershed: Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction therizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation surface affected by oil and gas operations to the extent the damages are compensable under article six-b of the information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from the Secretary at the WV Department of Environmental drilling may be obtained from t		-				
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction thorizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be considered at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.gas/pages/default.aspx. Well Operator: SWN Production Company, LLC Address: PO Box 1300, 179 Innovation Drive	9		Generally	ised farm name:	SWN A WTZ	
Polici Longo	Pursuant to Wato be provide the horizontal we surface affect information reheadquarters,	Test Virginia Code § 22-6A-16(c), d by W. Va. Code § 22-6A-10(b) ll; and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	to a surface owner who and compensation agrees ne extent the damages are be obtained from the Sec	se land will be unent containing ar compensable und retary, at the WV	used in conjunction offer of compender article six-b of Department of I	on with the drilling of a sation for damages to the f this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
multipal areas	Well Operator	SWN Production Company LLC	Address	PO Box 1300 1701	nnovation Drive	Office of Oil and Ga
2000 0000	the state of the s		. 1441 035			AUG 2 2 2019
Email: Steve_Teel@SWN.com Facsimile: 304-884-1691			Facsimil		-	2 2010
00.00,100		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			_	WV Department of Environmental Protection

WW-6A5 (1/12)

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

Date of Notic	ce: 03/27/2018 Date	Permit Application Filed:	t application.
Delivery met	thod pursuant to West Virgini	ia Code § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a li damages to the (d) The notice of notice.	requested or hand delivery, given peration. The notice required provided by subsection (b), se horizontal well; and (3) A proper surface affected by oil and gases required by this section shall be provided to the SURFAC		or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter.
	s listed in the records of the she		
Name: SWN Pro	oduction Company, LLC	Name:	
	0 672625	Addassa	
Address: PO b Houston, TX 7726	eby given:	Address:	well appreter has developed a planned
Address: PO b Houston, TX 7726 Notice is her Pursuant to W operation on State:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tr	act of land as follows: 530,901.307
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tr UTM NAD 83 Northing:	act of land as follows: 530,901.307 4,392,585.109
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel Proctor	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tr UTM NAD 83 Easting: Northing: Public Road Access:	act of land as follows: 530,901.307 4,392,585.109 Macedonia Ridge
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tr UTM NAD 83 Northing:	act of land as follows: 530,901.307 4,392,585.109
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ed by Oil and gas operations to elated to horizontal drilling ma located at 601 57 th Street, SI	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tr UTM NAD 83 Easting: Northing: Public Road Access:	act of land as follows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional // Department of Environmental Protection
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ed by oil and gas operations to telated to horizontal drilling ma located at 601 57 th Street, Sl ault.aspx.	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tree utomake	act of land as follows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection) or by visiting www.dep.wv.gov/oil-and-
Address: PO b Houston, TX 7726 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(the surface owner's land for the West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(ed by W. Va. Code § 22-6A-16(ed by oil and gas operations to telated to horizontal drilling ma located at 601 57 th Street, Sl ault.aspx.	(c), notice is hereby given that the undersigned e purpose of drilling a horizontal well on the tree utility and the control of the control o	act of land as follows: 530,901.307 4,392,585.109 Macedonia Ridge SWN A WTZ code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional // Department of Environmental Protection) or by visiting www.dep.wv.gov/oil-and-lnnovation.or/

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 of the properties will appropriately secure your personal information. If you have any questions about our use or your personal information, aplease contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

AUG 2 2 2018

Operator Well No. SWN A WTZ 305H



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

March 27, 2018

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

Jill M. Newman Deputy Commissioner

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 SWN A WTZ Pad, Wetzel County SWN A UD WTZ 305H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2018-0223 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 89 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

Jany K. Clayton

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

File

RECEIVED Office of Oil and Gas

AUG 2 2 2018

WW Department of Environmental Profestion

Product Name	Product Use	Chemical Name	CAS Number
Product Name	Floudet Ose		7722-84-1
		Hydrogen Peroxide	64-19-7
EC6734A (Champion Technologies)	Biocide	Acetic Acid	
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
THOU I SSO (champion reclamologics)		Nonylphenol Ethoxylate	Proprietary
		Glutaral de hyde	111-30-8
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12-	68424-85-1
Daction K 133 (champion recimologics)	Biodiae	16-Alkyldimethyl, Chlorides	
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
Daction K-213 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
ECCARCA (III)	Caala Inhibitar	Amine Triphosphate	Proprietary
EC6486A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1
M/FDA 2000 (11-11-11-11-11-11-11-11-11-11-11-11-11-	Anionic Eriction Dadus	Hydrotreated light distillate (petroleum)	64742-47-8
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9
		Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
A1 202	B. 4	Butyl cellosolve	111-76 2
AI-303 (U.S. Well Services)	Mixture	Formic acid	64-18 6
AI-303 (U.S. Well Services)		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
		Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Modified thiourea polymer	68527-49-1
ECONO-CIZOO (SWIN Well Services)	Corrosion initiation	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
		Water	7732-18-5
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
		Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate BEGEIVED	Proprietary
		Hydrotreated light petroleum distillate ு ெ	
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
· · · · · · · · · · · · · · · · · · ·		Ammonium Chloride AUG 22 2018	
CarboNRT	Tracer	Ceramic Proppant Wy Department of Environmental Prote	of 66402-68-4

NOTES:

- THIS PLAN IS FOR GRADING, STORMWATER SYSTEMS, AND EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
- 2. PROPERTY INFORMATION SHOWN HEREON IS FROM GIS DATA PROVIDED BY SOUTHWESTERN EVERGY PRODUCTION COMPANY AND HAS NOT SEEN FILL VERIFIED. 3. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SWIGLE PLAN SET FULL V DEPICTS ALL WORK ASSOCIATED WITH THIS PROJECT.
- 4. SOIL TYPE BOUNDARY, AND CHARACTERISTICS SHOWN HEREON WERE ACQUIRED FROM NRCS WER SOIL SURVEY
- 5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT.
 DATED MARCH 21, 2617, PROVIDED BY GTA ENERGY, LLC FOR FULL SOIL STABILIZATION
 TECHNIQUES TO BE IMPLEMENTED IN CONSTRUCTION OF CUT AND FILL SLOPES.
 6. THE TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS
 PERFORMED BY JHA COMPANIES FROM JANUARY 03, 2017 TO JUNE 28, 2018.
 TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WY GIS
 TECHNICAL CENTER.
- 7. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE. VEGETATIVE BUFFER TO REMAIN.
- 8. FILL WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM-698). FILL LIFT THICKNIESS WILL BE NO GREATER THAN 12", NOTHING FROZEN OR TOO WET WILL BE PLACED IN FILL AREAS PARTICLE SIZE OF THE FILL WILL BE NO GREATER THAN 6" AND FREE OF OBJECTIONABLE MATERIAL.

DESCRIPTION	ESTIMATED QUANTITY	UNIT
18" COMPOST FILTER SCCK	135	LF
24" COMPOST FILTER SOCK	4,475	ĹF
ROCK CONSTRUCTION ENTRANCE R-3 AGGREGATE	144	CY
CLASS 4 GEOTEXTILE (APRON UNDERLAYMENT)	434	SY
SITE RESOIL AREA	7.4	AC
PROPOSED STORM CATCHBASINS	á	EA
18" HDPE STORM FIPE (CDC 1 AND 3)	142.5	LF
4" HPDE STORM PIPE (CDC 2)	50	LF
OUTLET PROTECTION	7	EA
4" PERF. PVC SCH 40 PIPE (PAD UNDERDRAIN)	1,715	LE
4" SOLID PVG SCH 40 PIPE (CATCH BASIN OUTLET)	407	LF
WELL PAD PERIMETER BERM	1,745	LF
4" GATE VALVES	5	EA
4" PERF, PVC SOR 36 PIPE (FILL SLOPE BENCH DRAIN)	. 8,615	LF
6" SOLID PVC SDR 35 PIPE (BENCH DRAIN COLLECTOR)	550	LF
AASTHO #57 (BENCH DRAIN BEDDING)	1,440	TONS
PAD HEAVY DUTY \$467 STONE (6")	1,070	CY
PAD HEAVY DUTY #1 STONE (14")	2,490	CY
PAD STANDARD #467 STONE (4")	2,770	CY
PAD STANDARD #1 STONE (12")	8.295	CY
ACCESS ROAD #467 STONE (4")	290	CY
ACCESS ROAD #1 STONE (12')	965	CY
PAD CLASS 2 GEOTEXTILE	35,640	SY
ACCESS ROAD CLASS 2 GEOTEXTILE	1,300	SY
EARTHWORK VOLUMES CUT	57,625	CY
EARTHWORK VOLUMES FILL	35,065	CY
WELL CELLARS	1	EA
GEOGRID (MIRAGRID 5XT OR EQUIVALENT)	3440	SY
CLEARING AND GRUBBING	1.6	AC

FOR SWN PAD A

PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA



APPROVED
WVDEP OOG

SWN PAD A ONLY - 6.61 ACRES

SWN A STAGING PAD ONLY - 6.16 ACRES

SWN PAD A TOTAL PROJECT - 12.77 ACRES

COORDINATES: PAD 1 SITE ENTRANCE (NAD 83) LAT: 39.682481 LONG: -80.638975

> CENTER OF PAD 1 (NAD 83) LAT: 39.682509 LONG: -80.639728

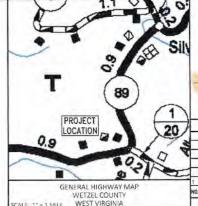
STAGING PAD SITE ENTRANCE (NAD 83) LAT: 39.683182 LONG: -80.637249

CENTER OF STAGING PAD (NAD 83) LAT: 39.683770 LONG: -80.638525

LANDS N/F OF SWN PRODUCTION COMPANY, LLC TMP # 12-10-0029

BICKERSTAFF, JACOB AND ANNA TMP # 12-10-0029.0002 LIMIT OF DISTURBANCE = 13.16 ACRES

DWG. NO	DRAWING DESCRIPTION
C.001	COVER SHEET
C.002 - C.003	EVACUATION ROUTE / PREVAILING WINDS
C,101 - C,102	EXISTING CONDITIONS
C.201 - C.202	GRADING AND EROSION CONTROL PLANS
C.301 - C.302	RECLAMATION PLANS
C.401 - C.411	SLOPE STABILIZATION DETAILS & PROFILES
C.501 - C.523	DETAILS



08/03/18 REVISED PER DEP COMMENTS

10. DATE DESCRIPTION

2 WORKING DAYS
BEFORE YOU DAY

BEFORE YOU DAY CALL TOLL FREE 800-245-4848 Miss Utility of West Virginia

PROJECT

LOCATION

Southwestern Energy

DUSONO SEAL STATE OF THE STATE



www.jhacompanies.com 68011 VINEYARD ROAD

ST. CLAIRSVILLE, OH 43950
(740) 695-6100
PA * OH * NY * WV
PROJET 00: 2017-520 | DRAWN:
SNH 7RD A: DB/03/2018
SOLE
AS NOTED
AS NOTED
JPO

CONSTRUCTION PLANS
FOR
SWN PAD A
LOCATED IN PROCTOR DISTRICT,
WETZEL COUNTY, WEST VIRGINIA

COVER SHEET

PUM STATUS: SHEET NO. FINAL C.001

PROJECT NARRATIVE PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS DRAWING SET (45 PAGE SHEET SET, DATED 2018-07-17 & REVISIONS DATED 2018-08-03) AND THE GEOTECHNICAL ENGINEERING REPORT (GTA ENERGY, LLC REPORT), WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORCE ! FEFECT IN DEFINING THE REQUIREMENTS FOR THE PROJECT. IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR INTERPRETATION.

PROJECT CONTACTS
OPERATOR:
SOUTHWESTERN ENERGY, LLC
179 INNOVATION DRIVE
JANE LEW, WV 26378
PHONE: (304) 884-1618
WWW.SWN.COM

PROJECT COORDINATOR:
KALAB TAYLOR
SOUTHWESTERN ENERGY, LLC
OPERATIONS ANALYST
179 INNOVATION DRIVE
JANE LEW, WV 26378
PHONE: (304) 884-1696
EMAIL: KALAB, TAYLOR @SWN.COM

ENGINEER
THA COMPANIES
68011 VINEYARD ROAD
ST. CLAIRSVILLE, OHIO 43950
PHONE: (740) 695-6100
FAX: (740) 449-2343

PROJECT MANAGER: JOHN DUBOWSKI

ENVIRONMENTAL:
WETLANDS OR SURFACE WATER
INFORMATION WAS DELINEATED
BY AJAY ENVIRONMENTAL CONSULTING, LLC
DATED FEBRUARY 16, 2018 AND JULY 16,
2018.

TOPOGRAPHIC INFORMATION: GROUND SURVEY DATED JANUARY 28, 2018 DATUM: HORZ. NAD 83 WEST VIRGINA NORTH VERT. NAVD 88

