

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

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

Monday, August 20, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for SWN A WTZ 5H

47-103-03233-00-00

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 WTZ 5H

Farm Name: SWN PRODUCTION COMPAN

U.S. WELL NUMBER: 47-103-03233-00-00

Horizontal 6A New Drill Date Issued: 8/20/2018

API Number: <u>47 (03 032</u>33

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: 47/13 03233

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.	SWN A WTZ 5H
Well Pad Name: SWN	WTZ Pad

STATE OF WEST VIRGINIA 47 1 0 3 0 3 2 3 3 DMH DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION 4/18/18

1) Well Operator: SWN Produc	ction Co., LLC	494512924	103- Wetzel	12-Proct	681-Wileyville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: SW	N A WTZ 5H	Well Pac	Name: SWN	A WTZ Pa	d
3) Farm Name/Surface Owner: _	WN Production Compa	Public Roa	d Access: Mac	edonia Ric	dge
4) Elevation, current ground: 1	337' EI	evation, proposed	post-construction	on: 1342'	
5) Well Type (a) Gas x	Oil	Unde	erground Storag	ge	
Other			····		
(b)If Gas Shall	low <u>×</u>	Deep			
Hori	zontal x				
6) Existing Pad: Yes or No No			-		
 Proposed Target Formation(s), Target Formation- Marcellus Up-Dip Well to th 		_	•	• • •	sociated Pressure- 4808
8) Proposed Total Vertical Depth	: 7381' at the	heel (LP deepest	TVD)		
9) Formation at Total Vertical De					
10) Proposed Total Measured Dep	pth: 21,117'				
11) Proposed Horizontal Leg Len	gth: 13330.06)			
12) Approximate Fresh Water Str	rata Depths:	300'			
13) Method to Determine Fresh V	Water Depths:	The base of fresh	water at the alte	ernate mini	mum depth of 300'.
14) Approximate Saltwater Depth	ns: 1364' Logs	s will be run for a S	Salinity profile a	nalysis	
15) Approximate Coal Seam Dep	ths: 1229'			<u>-</u>	
16) Approximate Depth to Possib	ole Void (coal m	ine, karst, other):	None that we a	are aware	of.
17) Does Proposed well location directly overlying or adjacent to a		ms Yes	No	x	
(a) If Yes, provide Mine Info:	Name:				
(), F	Depth:				, , , , , , , , , , , , , , , , , , ,
	Seam:		DEC	EIVED	
	Owner:			Off and C	as

APR 8 0 2018

NO. 47-_103 -OPERATOR WELL NO. SWN A WTZ 5H Well Pad Name: SWN A WTZ Pad

4710303233

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100' ~	CTS
Fresh Water	13 3/8"	New	H-40	48#	400'	400' V	392 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	2774'	2774' V	1080 sx/CTS
Production	5 1/2"	New	HCP-110	20#	21117	21117'	lead SC1ss/Tell 3211 solinade transcript
Tubing							_
Liners							

DMH 4/18/18

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

Kind:		
Sizes:		
Depths Set:	5) W-4	

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WW-6	iΒ
(10/14	1)

API NO. 47- 103 OPERATOR WELL NO. SWN A WTZ 5H
Well Pad Name: SWN A WTZ Pad

4710303233

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

Dm 1) 4-12-18

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): 15.05
22) Area to be disturbed for well pad only, less access road (acres):
23) Describe centralizer placement for each casing string:
All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment ***

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25) Proposed borehole conditioning procedures:

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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.

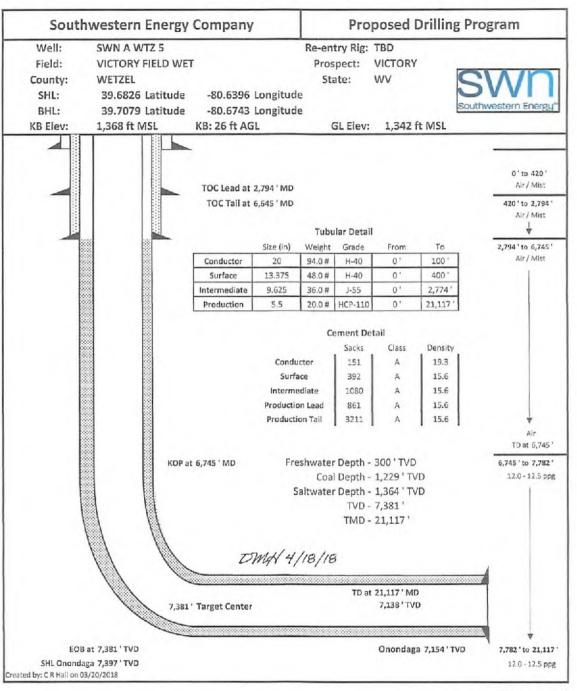
Environmental Protection

*Note: Attach additional sheets as needed.

SWN A WTZ 5H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
Unknown	Unknown		39.683414	80.640257	_		
103-01485	Perkins Oil & Gas, Inc	Active	39.682609	80.640643			
	Horner Oil And Gas Production, Inc.	Active	39.681283	80.636491	3397'	Gordon	Big Injun, Big Lime
103-00401	Columbia Gas Transmission, LLC	Active	39.698835	80.662533	2141'	Maxton	Big Dunkard
103-00132	Columbia Gas Transmission, LLC	Active	39.704796	80.671252		Maxton	Slate Sand, Lime, Red Rock
			·				
				•			
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Schum	horgor	Camani	Additives
Schlain	DEIREI	CELLIFIT	AUULLINGS

	Product Name	Product Use	Chemical Name	CAS Number
Surface	5001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
Ö	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
		polypropylene glycol		25322-69-4
ad	D045	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-50-7
£	D201	retarder	metal oxide	propriatary
age of			sulphonated synthetic polymer	propriatary
F.	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
Ī	DD65	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
npo	D201	retarder	metal oxide	propriatary
E .	D153	anti-settling	chrystalline silica	14808-60-7

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WW-9 (2/15)

(DI Minister	47	10	3
API Number	4/	- 10	0

Operator's Well No. SWN A WTZ 5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Wileyville
Do you anticipate using more than 5,000 bbls of water to comp	
Will a pit be used? Yes ☐ No ✓	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	Dny
Land Application	4-12.18
Underground Injection (UIC Permi	t Number_34-165-22403, 34-059-24067, 34-119-28776, 34-167-23662, 34-155-23795, 34-121-29955, 34-155-21893
	ted well, API# will be included with the WR-34/DDMR &/or permit addendum.
Off Site Disposal (Supply form WW Other (Explain_flow back fluids will be	V-9 for disposal location) e put in steel tanks and reused or taken to a permitted disposal facility
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Sy	
Additives to be used in drilling medium? Attachment 3A	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. landfill
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust)
Argen Langtill 100/2, Apex Sanitary Langtill Ub	F- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 D-U8438, Brooke Co SVVH-TU13, Valley JUVSD
Permittee shall provide written notice to the Office of Oil and O West Virginia solid waste facility. The notice shall be provided	Gas of any load of drill cuttings or associated wast clicing as within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.	APR 3 0 2018
provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base obtaining the information, I believe that the information is the penalties for submitting false information, including the possibility.	conditions of the GENERAL WATER WOLLD TION PERMIT issued inginia Department of Environmental Projection. I understand that the fany term or condition of the general permit and table of the vexamined and am familiar with the information submitted on this don my inquiry of those individuals immediately responsible forme, accurate, and complete. I am aware that there are significantly of fine or imprisonment.
Company Official Signature	Brown State Read
Company Official (Typed Name) Dee Southall	BOCK TERMON WAVEFULSE 17, 2022
Company Official Title Senior Regulatory Analyst	
Subscribed and sworn before me this 13th day of	March , 20 8 Notary Public
My commission(expires	

Form WW-9

Form WW-9	Operator's Well No. SWN A WTZ 5H
SWN Production Co., LLC	
Proposed Revegetation Treatment: Acres Disturbed\	5.05 Prevegetation pH
Lime as determined by pH test min. 2 Tons/acre or to correct to	рн <u> </u>
Fertilizer type 10-20-20	<u> </u>
Fertilizer amount 600	lbs/acre
Mulch Hay/Straw 2.5	ons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre	Seed Type lbs/acre
Attachment 3B	
Drawing(s) of road, location, pit and proposed area for land provided) Photocopied section of involved 7.5' topographic sheet.	d application (unless engineered plans including this info have been
Plan Approved by:	
Comments:	
_{Title:} Oil and Gas Inspector	RECEIVED Office of Oil and Ga
	ΔΡΡ 9 0 2019
Field Reviewed? () Yes () No

Attachment 3A <u>Drilling Mediums</u>

Synthetic Oil

Brine

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WVD Seeding Specification

Attachment 38 Oil and Section 10 ental Protection epartment of 3 0 201

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

(please allow 7 to 10	days	for deliv	ery
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NON-ORGANIC PROPERTIES

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

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

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

WETLANDS (delineated as jurisdictional wetlands)

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%	17
Soft Rush	2.5%	
Woolgrass	2.5%	
Swamp Verbena	2.5%	
Apply @ 25lbs per acre	Apply @ 50	lbs per acre
April 16th- Oct. 14th	Oct. 15th-	April 15th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



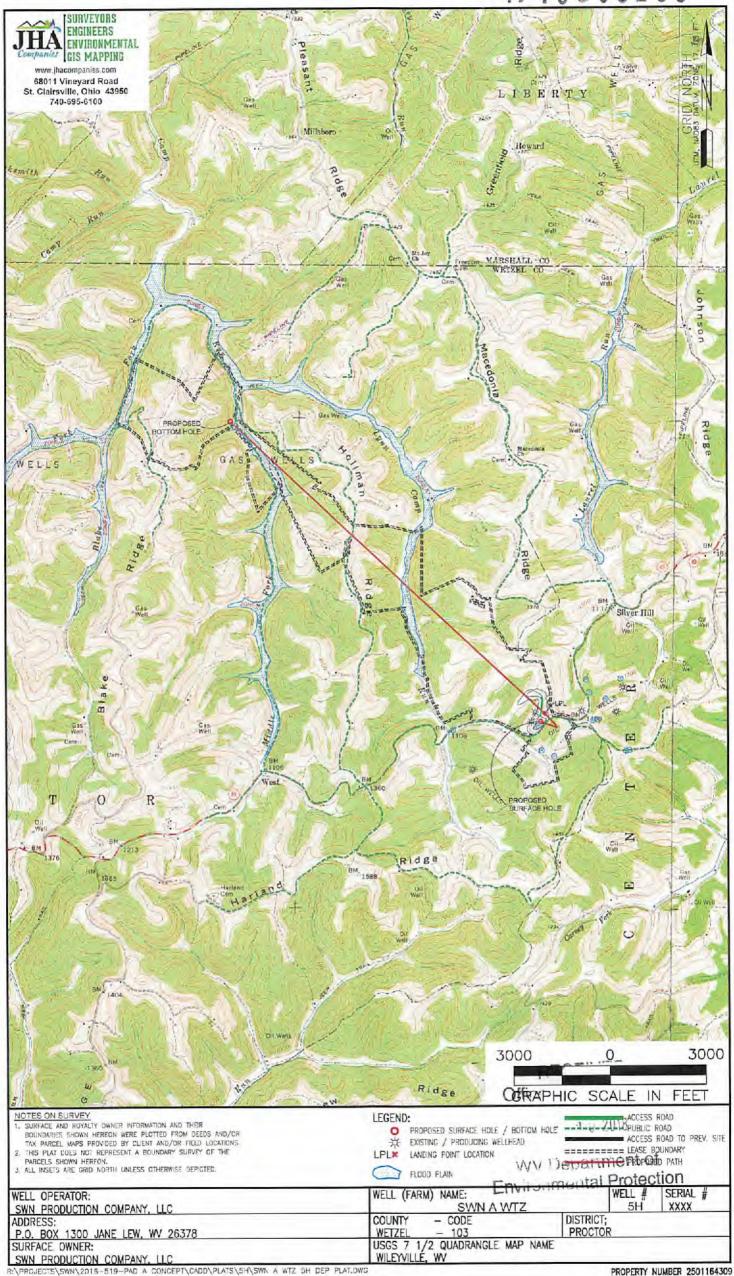
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378 RECEIVED
Office of Oil and Gas
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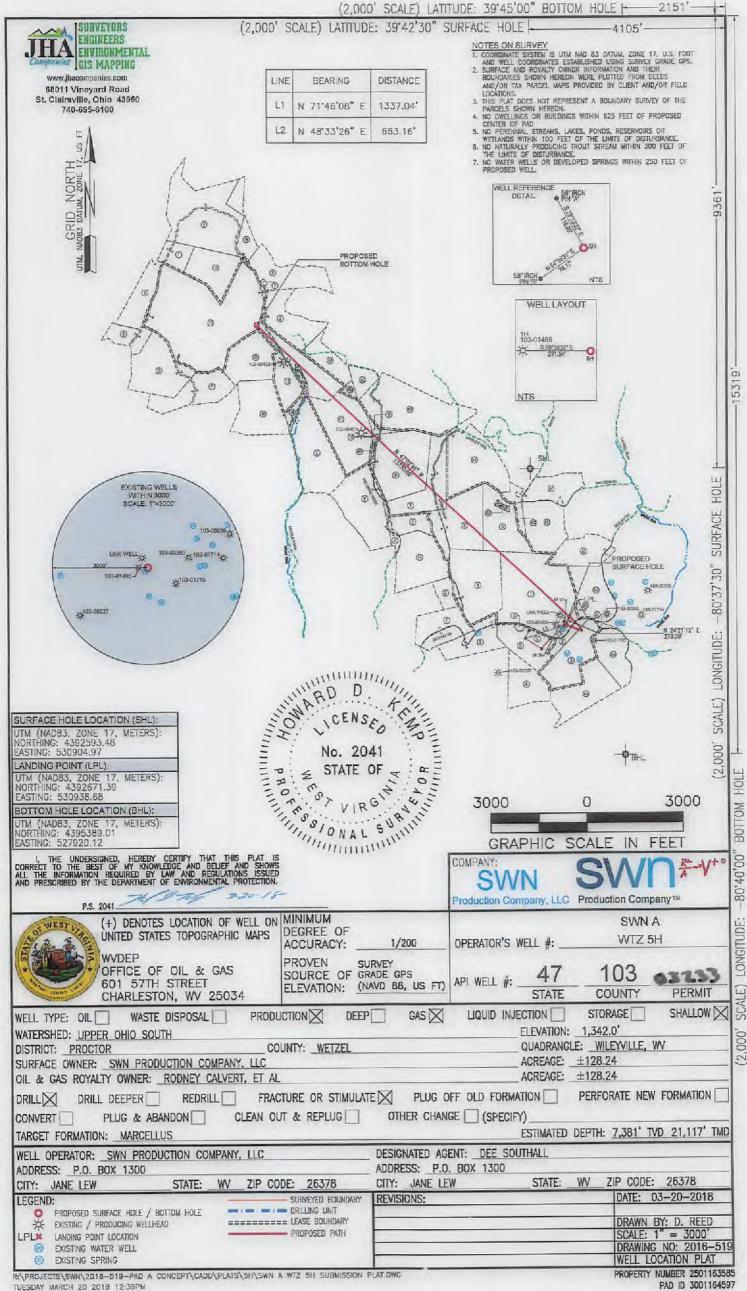
WV Department of Environmental Protection

API NO. 47-XXX-XXXXX
WELL NAME: SWN A WTZ 5H
Wileyville QUAD
Proctor DISTRICT
Wetzel COUNTY, WEST VIRGINIA

Submitted by:		
Dee Southall Senior Regulatory	Date:	3/8/2018
Title: Analyst	SWN P	roduction Co., LLC
Approved by:	Date:	4-12-18
Title: 1111615 Inspector		
Approved by:		
	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





47 103 03 233

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY, LLC (S) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	RODNEY A. CALVERT	12-10-29.5
3	GARY G. YOCUM & LAVERNE F. YOCUM (UFE ESTATE); CHRIS B. YOCUM (REMAINDERMAN)	12-15-9
4	SWN PRODUCTION COMPANY, LLC	12-10-28
5	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-15
5	SWN PRODUCTION COMPANY, LLC	12-10-15
7	SWN PRODUCTION COMPANY, LLC	12-10-10
В	ROBERT A, STOUT & SHERI L STOUT, HUSBAND AND WIFE, AND UNITO SURVIVOR OF THEM	12-10-9
9	MILLTREE PROPERTIES, LLC	12-10-2
10	MILLTREE PROPERTIES, LLC	12-10-1.1
11	ANDREW D. SHULUGA & ANDREA M. SHULUGA, HUSBAND AND WIFE, AND UNTO SURVIVOR OF THEM	12-10-1
12	MARK MASSARI	12-4-38
13	CHRISTOPHER P. BITHELL	12-4-25

RACT	SURFACE OWNER	TAX PARCEL
A	JOSEPH C. DREYER	12-15-8
В	RODNEY A. CALVERT	12-10-29.3
C	RODNEY A. CALVERT	12-10-29.4
D	RODNEY CALVERT & ET AL	12-10-29.1
E	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-33
F	HAESSLY LAND & TIMBER, LLC	12-10-32
G	SWN PRODUCTION COMPANY, LLC	12-10-27
н	ROBERT C. RITCHEA & JAMES L. RITCHEA	12-10-22
1	SWN PRODUCTION COMPANY, LLC	12-10-14
J	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-21
К	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-13
L	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES DF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-15
М	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO—TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-9
N	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO.—TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-8
0	CHRISTOPHER P. BITHELL	12-4-37
P	WILLIAM WAGNER & BARBARA WAGNER (LIFE ESTATE); ROBERTA BROOKS AND HEATHER BRINK (REMAINDERMAN)	12-4-36
Q	CHRISTOPHER P. BITHELL	12-4-35
R	JOHN H. MORGAN & SUE M. MORGAN, TRUSTEES, U/T/A DATED JUNE 10, 1992 F/B/O THE MORGAN FAMILY	12-4-34
S	SHIBEN ESTATES	12-4-25
Т	NANCY RABER & ET AL	12-4-15
U	CHRISTOPHER P. BITHELL	12-4-17
V	NANCY RABER & ET AL	12-4-6
W	NANCY RABER & ET AL	12-4-7
x	JOHN STULGA	12-4-19
Υ	SCHOOL LOT	12-4-18
Z	CLAUDIA MECKEL-JONAS; ROBERT MECKEL; AND ASTRID MECKEL-HAUPT, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-27
AA	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
AB	RICHARD W. MASTNEY & MARK MASSARI	12-5-29
AC	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
AD	ROBERT A. STOUT & SHERI L. STOUT, HUSBAND AND WIFE, AND UNTO SURVIVOR OF THEM	12-10-3
AE	SWN PRODUCTION COMPANY, LLC	12-10-11
AF	BRADLEY SCOTT YOHO	12-10-19
AG	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-17
ÀH	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-18
Al	CORY & DAVID DURIG	01-7-2
AJ	NORMA F. YOHO	01-7-40
AK	JACOB BICKERSTAFF & ANNA BICKERSTAFF, HUSBAND AND WIFE	12-10-29.2
AL	ERIC L. YEATER & AMANDA J. YEATER, HUSBAND AND WIFE	12-10-34
AM	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-11
AN	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-10
AO	JEFFREY J. YOHO	12-10-16.1
AP	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-10-9.1

REVISIONS:	COMPANY:	SWN Production Company, LLC	S	Cuction Company TM
	OPERATOR'S WELL #:	SWN WTZ 5		DATE: 03-20-2018 DRAWN BY: D. REED
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO: 2016-519 WELL LOCATION PLAT

INFORMATION SUPPLIED UNDER WEST VIRGINAACO 3 0 3 2 3 3 Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

Lease Name or

Number Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached Exhibit

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 reflection.

Office of Oil and Gas, including but not limited to the following:

Office of Oil and Gas

- 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

APR 3 0 2018

WV Department of Environmental Protection

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

Well Operator: SWN Production Company, LLC.

By: Caleb Weaver - Senior Landman

Page 1 of ____

EVHIDIT "A"

	Attached	to and made a part of the State of West Virginia Oil and SWI LESSOR Isaac L. Carney and Mary Carney, his wife	HIBIT "A" Gas Permit Form, WW-6A1, by SWN Production N A WTZ 5H	Official Costs of Cos	Jegartment of nerង្ខal Protection
#	TMP	LESSOR	LESSEE	E OYALTY	S €BK/PG
1	12-10-29	Isaac L. Carney and Mary Carney, his wife (Ruth Ann Calvert; Cathy Williams; Carla E. rabel; Vicki Forrester; Nancy G. Metheny; Connie Jean Calvert Rowland; Ammon A. Burley; First Assembly of God Church; Krystal K. Camp; Timothy N. Burley; Michael A. Fish; Jeffrey L. Fish; Franklin Thomas Barrett; Sharon Zeppernick; Annette Aldine Lloyd)	Hope Natural Gas Company	0 12.50%	M :218A/25
		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
		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 Attorneys 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		43A/440
		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. Cronin, Jr.	Charles E. Reed and Kathryn C. Reed, husband and wife		51A/241
		Kathryn C. Reed, a widow and unmarried	Carl Perkins		55A/54

	Attached	to and made a part of the State of West Virginia Oil and SW Carl D. Perkins and Dorothy Louise Perkins, his Weissel Co Perkins Oil & Gas Inc., a West Virginia corporation	Perkins Oil and Gas, Inc., a West Virginia Corporation Stone Energy Corporation, a Delaware corporation Chesapeake Appalachia, LLC,, and Statoil USA	RECÊIVED Office of Œi and Gas APR 3 10 2018	MV Department of Webartment of West West West West West West West West
			Onshore Properties, Inc.		
		Chesapeake Appalachia, L.L.C.,	SWN Production Company, LLC		167A/9
2	12-10-29.5	Isaac L. Carney and Mary Carney, his wife (Rodney Calvert; Cathy Williams; Carla E. Rabel; Vicki Forrester; Nancy G. Metheny; Connie Jean Calvert Rowland)	Hope Natural Gas Company	12.50%	18A/25
		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 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 Attorneys 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 Elva Robinson and Mary Ellen Davis		15/455 43A/440
		Elva Robinson and Mary Ellen Davis	Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr.		44A/92

	Attached	to and made a part of the State of West Virginia Oil and SW Katherine A. Henry and Harry R. Cronin, Jr. Wetzel Co Kathryn C. Reed, a widow and unmarried Carl D. Perkins and Dorothy Louise Perkins, his wife	KHIBIT "A" Gas Permit Form, WW-6A1, by SWN Production W	Off Off and Gas	្នា Degartment of negital Protection ន្ម
		Katherine A. Henry and Harry R. Cronin, Jr. Wetzel Co	Charles E. Reed and Kathryn C. Reed, husband and wife		M = 1A/241
		Kathryn C. Reed, a widow and unmarried	Carl Perkins		155A/54
		Carl D. Perkins and Dorothy Louise Perkins, his wife	Perkins Oil and Gas, Inc., a West Virginia Corporation		84A/9
		Perkins Oil & Gas Inc., a West Virginia corporation	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
3	12-15-9	John Pyles, a single man (Donna O. Smittle; Unknown Heirs of Russell Pyles; David Scott Palmer; Pamela Ann Palmer Emch; Mary Jo Burton; Naomi Madelyn Jones; Linda Lee Roberts; Pamela Doreen Burlingame)	Earl M. Hennen	12.50%	6A/5
		Earl M. Hennen	Hope Natural Gas Company		
		Hope Natural Gas Company	The Manufacturers Light and Heat Company		40A/468
		Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
		Columbia Gas Transmission Corporation	SWN Production Company, LLC		188A/278

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, SWN A WTZ 5H

12-10-28 F.C. Emch and Thelma Emch, his wife; Jerald Wetael County, Mant Nettlers Light and Heat Company

and Mildred Yocum, his wife; Iva M. Gray and Bud Gray, her husband; Ocia Williams and Hobert Williams,

her husband; Arlie Young and Virgil Young, her

husband; Ica Harlan and Elmer Harlan, her husband

(Albert Benedetti; Virginia Lee Dailey; Yvonne

Goschinski; Lucille Mitchell; Kathy Noffsinger; Wayne

Young; David Young; Austin Young; Judy Thompson;

Darlene Braun; B. Kenneth Richmond; Edward G.

Strope; Roger S. Strope; Charles B. Strope; Gary W.

Strope; Daniel K. Strope; Carla Sue Strahl; Judith Greer;

Mary Francis Leaver Gray; Richard Dean Gray;

Ellsworth Harlan; Terry Lynn Harlan; Mary Ellen Harlan;

Charlene Herchick; John E. Harlan; Richard Dean

Harlan; Starla J. Power; Tim Harlan; Patricia Ann

Toharchick; Nancy Jane Terman; Hobert Edward

Williams; Norma June Williams; Robert R. Taylor II;

Terry Lee Taylor; Bradley Randall Taylor; Ray Francis

McIntire; Unknown Heirs or Assigns of Mildred Cook

Yocum Miller; Terry McIntire; Pamela Hartzler; Carol

Anderson Bordner: Dale F. MCIntire: Jackie McIntire:

Bradley F. Dement; Resource Minerals Headwater I, LP)

Manufacturers Light and Heat Company **Columbia Gas Transmission Corporation** Columbia Natural Resources, LLC

Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.

263/164

84A/129

402/446

Office of Off and Gas

WW Department of

Envirohmental Protection

epartment of **ZECĖĮVED 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 **SWN A WTZ 5H** Wetzel CorSWN Production Company, LLC Chesapeake Appalachia, L.L.C. **SWN Production Company, LLC Columbia Gas Transmission Corporation** 5 12-10-16 T. J. Yoho and Etheel Yoho, his wife The Manufacturers Light and Heat Company 12.50% (Bradley Yoho; Clayton Yoho; Darren Yoho; Donna Yoho; Jeffrey J. Yoho; Kevin Yoho; Carol A. Derrow; Janet S. Hinerman; Sharon Hinerman; Kimela Ann Matthews; Nancy G. Metheny; Nancy Nonemaker; Linda Buckey: Yolanda Meade; Della D. Hairston; Darlene Ahalt; Dallas O. Moledor; Dalvin D. Horton; Deborah D. Yoho Showalter; Berneda Ward; Chalmer Yocum; Virginia Carol Riffle; Lindsey Noel Yocum; Thomas Leon Yocum; James E. Yocum; Paul Franklin Yocum: Tammy Kay Beohm: Joseph lee Watkins: John Noel Gallagher; Lisa Bowen; Charlene D. Wildman; Susan Darlene Moore; Teresa Lynn Lemley; Shirley Fitzsimmons; Brent Alan Snider; Bryan Glen Snider; Julie Dawn Snider: Scott Eric Snider: Quentin Yocum: Jack Hammers; Paul Hammers; Wesbanco Bank of Wheeling, Trustee under Trust Agreement of Twila Whipkey dated August 25, 1999; Toni Jo Mason; Erica Mason; O. E. Burge et al, Trustees of the O. E. Burge Trust and the Sarah L. Burge Trust)

Columbia Gas Transmission Corporation

Columbia Natural Resources, LLC

Chesapeake Appalachia, L.L.C.

SWN Production Company, LLC

263/164

84A/129

402/446

157A/540

Manufacturers Light and Heat Company

Columbia Gas Transmission Corporation

Columbia Natural Resources, LLC

Chesapeake Appalachia, L.L.C.

EXHIBIT	"A"
-/(111011	

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. SWN A WTZ 5H

SWN A WTZ 5H

Worked County Micros Micros Picks Light and Heat Company

12.50%

12.50%

6

Environmental Protection WV Department of

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 huband (Albert L. Benedetti; Yvonne Goschinski; Lucille Mitchell; Wayne Young; David Young; Austin Young; Judy Thompson: Darlene Braun: B. Kenneth Richmond: Edward G. Strope; Roger S. Strope; Charles B. Strope;

Gary W. Strope; Daniel K. Strope; Carla Sue Strahl; Judith Greer; Zane Gray; Richard Dean Gray; Virginia Harlan; Mary Ellen Harlan; Charlene Herchick; John E. Harlan; Starla J. Power; Tim Harlan; Patricia Ann Toharchick; Nancy Jane Terman; Hobert Edward Williams; Norma June Williams; Robert R. Taylor, II; Terry Lee Taylor; Bradley Randall Taylor; Gary Yocum and Lavern Yocum (life tenants) and Cris Yocum (remainderman); Ray Francis McIntire; Pamela Hartzler; Carol R. Anderson Bordner; Dale F. McIntire;

Manufacturers Light and Heat Company
Columbia Gas Transmission Corporation
Columbia Natural Resources, LLC
Chesapeake Appalachia, L.L.C.

Bradley F. Dement)

Columbia Gas Transmission Corporation	263/164
Columbia Natural Resources, LLC	84A/129
Chesapeake Appalachia, L.L.C.	402/446
SWN Production Company, LLC	157A/540

8	Attached 12-10-9	Ray C. Herman, single and Dail A. Herman, singletzel Co (Rose Mary Herman; Bula Burton; Virginia Amos; Ruby Sylvester; Charles George Hunter; Faye Young; Ray Herman, JR.; Sharla Chapman; Faye Sturgis; Fern Jones Franklin B. Baker, III; Charles Herman Baker; Francis R. Goddard; Ronald Goddard; Brenda Lee Powell; Wayne	VN A WTZ 5H प्रामुख, Mक्रिक्ति शिष्ट्यांगचेन S Light and Heat Company	Company, L.L 12.50%	Office of Oil and Gas Pyst APR's 0 2018 WV Department of Environmental Protection
		Edward Goddard, JR.; David Allen Goddard)			
		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
9	12-10-2	Bula Burton, a widow	Chesapeake Appalachia, LLC	12.50%	92A/647
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Rose Mary Herman, a widow	Chesapeake Appalachia, LLC	12.50%	92A/638
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Ruby Sylvester, a widow	Chesapeake Appalachia, LLC	12.50%	92A/641
		(Bonita Sylvester Wilcox Lucas)			
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2		Chesapeake Appalachia, LLC	12.50%	92A/644
		(Unknown Heirs and Assigns of Virginia M. Amos)			
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Charles George Hunter, a married man dealing in his	Chesapeake Appalachia, LLC	12.50%	92A/632
		sole and separate property			
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Faye Young, a married woman dealing in her sole and	Chesapeake Appalachia, LLC	12.50%	92A/635
		separate property			

EXHIBIT "A"

	Attached	to and made a part of the State of West Virginia Oil and SV	XHIBIT "A" I Gas Permit Form, WW-6A1, by SWN Production (VN A WTZ 5H ^{OI} SWN Production Company, LLC	Company, L.L.C	REOFIVED of Officers of Offic
9	12-10-2	Francis R. Goddard	Chesapeake Appalachia, LLC	12.50%	161A/209
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Wayne L. Goddard, a/k/a Wayne Goddard	Chesapeake Appalachia, LLC	12.50%	101A/212
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Ronald L. Goddard, a/k/a Ronald Goddard	Chesapeake Appalachia, LLC	12.50%	101A/188
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Faye L. Sturgis	Chesapeake Appalachia, LLC	12.50%	100A/990
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Chalres H. Baker	Chesapeake Appalachia, LLC	12.50%	100A/987
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Feryn L. Jones	Chesapeake Appalachia, LLC	12.50%	100A/984
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Franklin B. Baker, III, a single man	Chesapeake Appalachia, LLC	12.50%	101A/643
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Sharla Chapman, a married woman dealing in her sole	Chesapeake Appalachia, LLC	12.50%	102A/32
		and separate property			
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
9	12-10-2	Ray C. Herman, Jr., a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	12.50%	102A/1
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
10	12-10-1.1	Otis Simmons and Pearl Simmons, his wife; Harold S. Simmons and Roxie Simmons, his wife; Roxie Newman and Archie Newman, her husband (Robert L. Newman; Roxie Simmons; Everett Simmons		12.50%	39A/498

Manufacturers Light and Heat Company

Columbia Gas Transmission Corporation

263/164

	Attached	to and made a part of the State of West Virginia Oil and SW	KHIBIT "A" Gas Permit Form, WW-6A1, by SWN Production N A WTZ 5H 中央	Company, L.	RECEIVED Mice of Offand Gas 1020/104/141	WV Department of Environmental Protection
11	12-10-1	Otis Simmons and Pearl Simmons, his wife; Harold S. Simmons and Roxie Simmons, his wife; Roxie Newman and Archie Newman, her husband (Robert L. Newman; Roxie Simmons; Everett Simmons)	The Manufacturers Light and Heat Company	12.50%	39A/498	En
		Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		263/164 84A/129 402/446 176A/747	
12	12-4-38	Emmit Burge and Sarah L. Burge, his wife (Emmit Burge and Sarah Burge, trustees of the Onward E. Burge and Sarah L. Burge Trust) Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	86A/202	
12	12-4-38	Mark Massari, a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	99A/16 157A/540	_
13	12-4-26	Vivian Dillon, a married woman dealing in her sole and separate property		12.50%	84A/401	_
		Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		402/446 157A/540	



4710303233

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

March 14, 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 WTZ 5H in Wetzel County, West Virginia, Drilling under 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 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

APR 3 0 2018

WV Department of Environmental Protection

R2 wV+°

4710303233

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

bulache

Date of Notice Certification:		API No. 4	API No. 47- 103 -		
	-ttm-h		Operator's	Well No. SWN	A WTZ 5H
			Well Pad	Name: SWNA	WTZ Pad
Notice has l	been given:				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has pro-	vided the red	quired parties v	vith the Notice Forms listed
	tract of land as follows:				
State:	West Virginia	UTM NAD 83	Easting:	530904.97	
County:	103- Wetzel	OTM NAD 83	Northing:	4392593.48	
District:	Proctor	Public Road Acc	ess:	Macedonia Ridge	
Quadrangle:	Wileyville	Generally used fa	arm name:	SWN A	
Watershed:	Upper Ohio South				
information r of giving the requirements Virginia Cod	ed the owners of the surface descri- equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	ection sixteen of this article; (i urvey pursuant to subsection of of this article were waived in tender proof of and certify to t	i) that the re(a), sectionwriting by	quirement was ten of this arti the surface ov	deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		his Notice C	Certification	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUII SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or ☐ NO PLAT SURV	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUI	BLIC NOTICE				☐ RECEIVED

Required Attachments:

■ 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 receive the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The approach 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.

WV Department of Environmental Protection

RECEIVED

WW-6AC (1/12)

Certification of Notice is hereby given:

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

P.O. Box 1300 Well Operator: SWN Production Co., LLC Address: Jane Lew, WV 26378 Dee Southall By: Facsimile: 304-884-1690 Senior Regulatory Analyst Its: 304-884-1610 Email: Dee_Southall@swn.com Telephone: State of West Virginia Subscribed and sworn before me this NOTARY SEAL H WOODY 2 Old Elkins Road Buckbanann, V/V 26201 Notary Public My commission expires November 27, 2022 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

APR 3 0 2018

WW-6A NOTICE OF APPLICATION NOTARIZED W/ANY ATTACHMENTS

TOPOGRAPHIC MAP WITH LABELED SURROUNDING WATER WELLS

CERTIFIED MAIL RECEIPTS FOR WW-6A

API NO. 47- 103

OPERATOR WELL NO. SWN A WTZ 5H

Well Pad Name: SWN A WTZ Pad

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

Notice Time Requirement: notice shall be provided r	to later than the filing date of permit application.
Date of Notice: The Date Permit Application Notice of:	1- 1-1
	E OF APPROVAL FOR THE TION OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code §	22-6A-10(b)
□ PERSONAL ☑ REGISTERED □ SERVICE MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
oil and gas leasehold being developed by the proposed widescribed in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placem impoundment or pit as described in section nine of this at have a water well, spring or water supply source located provide water for consumption by humans or domestic ar proposed well work activity is to take place. (c)(1) If more subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant provision of this article to the contrary, notice to a lien had Code R. § 35-8-5.7.a requires, in part, that the operator is water purveyor or surface owner subject to notice and water	d to be located; (2) The owners of record of the surface tract or tracts overlying the ell work, if the surface tract is to be used for roads or other land disturbance as ted pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or tract or tracts overlying the oil and gas leasehold being developed by the proposed tent, construction, enlargement, alteration, repair, removal or abandonment of any ricicle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to mimals; and (6) The operator of any natural gas storage field within which the tenth three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any older is not notice to a landowner, unless the lien holder is the landowner. W. Va. shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any ster testing as provided in section 15 of this rule.
☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: SWN Production Company, LLC	Name: CNX Gas Company, LLC
Address: PO Box 672625	Address: 1000 Consol Energy Drive
Houston, TX 77267	Canonsburg, PA 15317
Name:	☐ COAL OPERATOR
Address:	Name:
- attended an automotive of the attended	Address:
SURFACE OWNER(s) (Road and/or Other Disturbation	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
Nama	Name: None
Name:	Address:
Address:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	LIVEDRATOR OF ANTINATORAL GAS STORAGE FIELD
	Name: DECEIVED
Name:Address:	

47 103 03233

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

APR 3 0 2018

WW-6A (8-13) API NO, 47- 103 OPERATOR WELL NO. SWN A WTZ 5H
Well Pad Name: SWN A WTZ Pad

47 1 0 3 0 3 2 3 3

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 water Dshall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing prooffing this frequency contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (c) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling Mile 200 arths entropy felate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Epopla finding if any ploy the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-103 - 03233
OPERATOR WELL NO. SWN A WTZ 5H
Well Pad Name: SWN A WTZ 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 prepare ments as to the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil and Gas

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

APR **3 0** 2018

WV Department of

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

API NO. 47- 103 - 03233
OPERATOR WELL NO. SWN A WTZ 5H
Well Pad Name: SWN A WTZ Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

APR 3 0 2018

WW-6A (8-13)

API NO. 47-103 OPERATOR WELL NO. SWN A WTZ 5H
Well Pad Name: SWN A WTZ Pad
4 1 0 3 0 3 2 3 3

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1614

Email: Dee_Southall@swn.com

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhanhon, WV 25201
My commission expires November 27, 2022

Subscribed and sworn before me this 13th day of MOUCH 2018

Notary Public

My Commission Expires

RECEIVED
Office of Oil and Gas

APR 3 0 2018

STATE OF WEST VIRGINIA 47 1 0 3 0 3 2 3 3 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time	Requirement:	Notice shall be prov	ided at	least SEVEN (7) da	ays but no more tha	n FORTY-FIVE (45) days prior to
entry Date of Noti	ce: 10/18/2017	Date of Plan	nned F	ntry: 10/25/2017		
Delivery me	thod pursuant	to West Virginia Co	ode § 2	2-6A-10a		
☐ PERSO	NAL =	REGISTERED		METHOD OF DE	LIVERY THAT RE	OUIRES A
SERVIO	CE	MAIL		RECEIPT OR SIG		
but no more to beneath such owner of mir and Sedimen Secretary, when able the su	than forty-five d tract that has fil tract to that has fil terals underlying t Control Manua tich statement sl rface owner to co	duct any plat surveys lays prior to such ent led a declaration pur- g such tract in the co- al and the statutes an hall include contact in obtain copies from the	s requir try to: (suant to unty ta d rules informa	ed pursuant to this a 1) The surface owner o section thirty-six, a x records. The notion related to oil and ga ation, including the	rticle. Such notice ser of such tract; (2) article six, chapter to shall include a state sexuloration and page 15.	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal scams wenty-two of this code; and (3) any atement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is her	eby provided to	0:				A
■ SURFA	CE OWNER(s)			■ COA	L OWNER OR LE	SSEE
Name: Troy Si	denstricker and Lisa Si	denstricker			IX Gas Company, LLC	3322
	03 Proctor Circle Road			the state of the s	1000 Consol Energy Drive	
New Martinsville, \				Canonsburg,		
Name:					100 D. 27 D.C	 -
Address:			1	■ MIN	ERAL OWNER(s)	
				Name: Ru	th Ann Calvert	
Name:			_	Address:	12666 Shortline Hwy. Apt :	#3
Address:	-		-	Pine Grove, V		
			-	*please attac	ch additional forms if ne	cessary
Pursuant to V	ereby given: Vest Virginia Co on the tract of la wv	ode § 22-6A-10(a), n and as follows:	otice is		ne undersigned well	operator is planning entry to conduct
County:	Wetzel			Public Road		RL 89
District:	Proctor			Watershed:		Fish Creek
Quadrangle:	Wileyville			Generally use	ed farm name:	SWN A WTZ Pad
may be obtain Charleston, V	ned from the Sec VV 25304 (304-	nd Sediment Control cretary, at the WV D -926-0450). Copies by visiting <u>www.dep.</u>	of such	ent of Environments documents or addit	al Protection headquional information r	il and gas expl Pation and Tollo ction uarters decated at 60 157 th Street Seas elated to horizontal drilling may be
Notice is be	and the state of					APR 3 0 2018
Well Operato	reby given by			***		
TI OH OUGIAN	1. SWN PRODUCT	TON COMPANY, LLC		Address:	PO BOX 1300	WV Department of
The second of th	201 201 1015				Intim t must tent moone.	
Telephone: Email:	304-884-1610	vn.com or britteny_woody@s		Facsimile:	JANE LEW, WV 26378	Environmental Protection

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

Notice Time R	equirement:	Notice shall be prov	ided at least S	SEVEN (7) da	ys but no more than	n FORTY-FIVE (45) days prior to
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Delivery meth	od pursuant	to West Virginia Co	ode § 22-6A-	10a		
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Notice is herel		0:		1440		
	E OWNER(s)			☐ COA	L OWNER OR LE	SSEE
Name:				Name:		
				Address:		
Name:			-	7.7		
Address:			-	I MINI	ERAL OWNER(s)	
				Name: Car	la E Rabel	
Name:			_	Address:	ia E Rabel 810 Weizel Tyler Ridge Ro	ad
Address:			-	New Martinsvi	lle, WV 26155	
			-	*please attac	h additional forms if neo	cessary
Notice is here	eby given:					
		de § 22-6A-10(a), n	otice is hereb	y given that th	e undersigned well	operator is planning entry to conduct
a plat survey or	the tract of la	and as follows:				of annual and annual
75 TO 10 TO				Approx. Latit	ude & Longitude:	39.684757, -80.640554
				Public Road A	Access:	Rt. 89
District:	Proctor			Watershed:		Fish Creek
Quadrangle: 1	Nileyville		_	Generally use	d farm name:	SWN A WTZ Pad
Charleston, WV	7 25304 (304	cretary, at the WV D	epartment of of such docu	Environmenta ments or addit	l Protection headquional information re	il and gas exploration and production parters, located at 607-57 th Street, SE, elated of the first of the street
Notice is here	hy given be					APR 3 0 2018
Well Operator:		: TON COMPANY, LLC		Add	Constitute	Unit of a war.
Telephone:	304-884-1610	ION COMPANY, LLC	_	Address:	PO BOX 1300 JANE LEW, WV 26378	WV Department of
Email:	-	vn.com or brittany_woody@s	wn.com	Facsimile:	STATE LEVY, WY 203/8	Environmental Protection
		,0		** ** * * * * * * * * * * * * * * * *		CHAIROHHIGHTALL
Oil and Gas I	Privacy Noti	ce.				

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

Notice Time I	Requirement:	Notice shall be prov	ided at least S	EVEN (7) da	ays but no more than	n FORTY-FIVE (45) days prior to
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Notice is here	by provided to):				
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	and the second s					
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Address:			-	II MIN	ERAL OWNER(s)	
Name			-		nnie Jean Rowland	
Address			-		535 Briarcliff Court	
11001003.			-		ille, WV 26155 ch additional forms if ne	
a plat survey of State:		de § 22-6A-10(a), n and as follows:		y given that th		operator is planning entry to conduct
County:	Wetzel			Public Road .		Rt. 89
District:	Proctor			Watershed:		Fish Creek
Quadrangle:	Wileyville			Generally use	ed farm name:	SWN A WTZ Pad
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Well Operator	: SWN PRODUCT			Address:	PO BOX 1300	
Telephone:	304-884-1610			100000000000000000000000000000000000000	JANE LEW, WV 26378	WV Department of
Email:	dee_southall@sw	n.com or britlany_woody@s	wn.com	Facsimile:		Environmental Protection
Oil and Gas	Privacy Noti	ce:				Elivilorimo

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

entry		The second second second	vided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
Date of Notice	10/18/2017	Date of Plan	nned Entry: 10/25/2017
Delivery meth	od pursuant	to West Virginia Co	ode § 22-6A-10a
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SERVICE	3	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more the beneath such to commer of mine and Sediment (Secretary, which enable the surface).	ce tract to conc an forty-five d ract that has fil rals underlying Control Manua ch statement sl ace owner to c	duct any plat surveys lays prior to such ent led a declaration pur- g such tract in the co al and the statutes an hall include contact in obtain copies from the	Prior to filing a permit application, the operator shall provide notice of planned entry is required pursuant to this article. Such notice shall be provided at least seven days try to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams resuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any bunty tax records. The notice shall include a statement that copies of the state Erosion and rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.
Notice is here		0:	man and the second
	E OWNER(s)		☐ COAL OWNER OR LESSEE
Name:			Name:Address:
			Address:
Name:			
Address:			MINERAL OWNER(s)
Name:			Address 426 Hook Street
Address:			Bridgeville, PA 15017
			*please attach additional forms if necessary
Notice is been	eby given:		
Pursuant to We a plat survey of State: County:	n the tract of la wv Wetzel	and as follows:	Public Road Access: Rt. 89
Pursuant to We a plat survey o State: County: District:	n the tract of la WV Wetzel Proder	and as follows:	Approx. Latitude & Longitude: 39.684757,-80.640554 Public Road Access: Rt. 89 Watershed: Fish Creek
Pursuant to We a plat survey o State: County: District:	n the tract of la wv Wetzel	and as follows:	Approx. Latitude & Longitude: 39.684757,-80.640554 Public Road Access: Rt. 89
Pursuant to We a plat survey of State: County: District: Quadrangle: Copies of the smay be obtained from	n the tract of la WV Wetzel Proctor Wileyville tate Erosion ar ad from the Sec V 25304 (304- the Secretary E	and as follows: and Sediment Control cretary, at the WV D -926-0450). Copies by visiting www.dep	Approx. Latitude & Longitude: 39.684757,-80.640554 Public Road Access: Rt. 89 Watershed: Fish Creek
Pursuant to We a plat survey of State: County: District: Quadrangle: Copies of the smay be obtained from Notice is here	n the tract of la WV Wetzel Proctor Wileyville tate Erosion ar ad from the Sec V 25304 (304- the Secretary be	and as follows: and Sediment Control cretary, at the WV D -926-0450). Copies by visiting www.dep	Approx. Latitude & Longitude: Public Road Access: Watershed: Generally used farm name: I Manual and the statutes and rules related to oil and gas exploration and production pepartment of Environmental Protection headquarters. Fixed of 60 137 Street, St., of such documents or additional information related to horizontal drilling may be a town gov/oil-and-gas/pages/default.aspx. APR 3 0 2018
Pursuant to We a plat survey of State: County: District: Quadrangle: Copies of the smay be obtained from State from Notice is here Well Operator:	n the tract of la WV Wetzel Proctor Wileyville tate Erosion ar ad from the Sec V 25304 (304- the Secretary be	and as follows: and Sediment Control cretary, at the WV D -926-0450). Copies by visiting www.dep	Approx. Latitude & Longitude: 39.684757, 80.640554 Public Road Access: Rt. 89 Watershed: Fish Creek Generally used farm name: SWNA WIZ Pad I Manual and the statutes and rules related to oil and gas exploration and production Department of Environmental Protection headquarters. Secret of 60 17 Absect SES of such documents or additional information related to horizontal drilling may be a wy.gov/oil-and-gas/pages/default.aspx. Address: PO BOX 1300 W/V Department of
Pursuant to We a plat survey of State: County: District: Quadrangle: Copies of the smay be obtained from Obtained from Notice is here	n the tract of la WV Wetzel Proctor Wileyville tate Erosion ar ad from the Sec V 25304 (304- the Secretary be	and as follows: and Sediment Control cretary, at the WV D -926-0450). Copies by visiting www.dep	Approx. Latitude & Longitude: Public Road Access: Watershed: Generally used farm name: Manual and the statutes and rules related to oil and gas exploration and production pepartment of Environmental Protection headquarters (Second 2013 A Second 2013 Consumers or additional information related to horizontal drilling may be powy.gov/oil-and-gas/pages/default.aspx. APR 3 0 2018

Oil and Gas Privacy Notice:

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

riotice rinte	Requirement:	Notice shall be prov	ided at least SEVEN (7) d	ays but no more th	an FORTY-FIVE (45) days prior to
Chiry	ce: 10/18/2017		ned Entry: 10/25/2017		
200000000000000000000000000000000000000		Date of Figi	med Entry. 10202011		
Delivery met	thod pursuant	to West Virginia Co	ode § 22-6A-10a		
☐ PERSON	NAL 🔳	REGISTERED	☐ METHOD OF DE	I IVEDV TILATE	POLITIFIC A
SERVIC		MAIL	RECEIPT OR SIG	MATINE CONTE	EQUIRES A
but no more the beneath such owner of min- and Sediment Secretary, wh enable the sur	han forty-five d tract that has fil erals underlying Control Manua ich statement sh face owner to o	lays prior to such ent led a declaration purs g such tract in the con al and the statutes and hall include contact in obtain copies from the	ry to: (1) The surface own suant to section thirty-six, unty tax records. The notion trules related to oil and ganglement on including the programment of the section to the section of th	article. Such notice er of such tract; (2) article six, chapter ce shall include a si	or shall provide notice of planned entry 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 page on the Secretary's web site, to
	eby provided to	0:			
	CE OWNER(s)			L OWNER OR LE	
Name:			Name: _		
Address:			Address:		
Name:			-		
Address:			■ MIN	ERAL OWNER(s)	
_			Name: Na	ancy G Metheny	
Name:				3948 N. Park Ave	
Address			Warren, OH	44481	
			"plcase atta	ch additional forms if no	ecessary
Notice is her	reby given:				
Pursuant to W a plat survey of State: County:	est Virginia Co on the tract of la wv Wetzel	and as follows.	Approx. Latin	tude & Longitude:	39.684757, -80.640554 Rt. 89
Pursuant to W a plat survey of State: County: District:	est Virginia Co on the tract of la wv Wetzel Proctor	inu as follows.	Approx. Lati Public Road Watershed:	tude & Longitude: Access:	39.684757, -80.640554
Pursuant to W	est Virginia Co on the tract of la wv Wetzel Proctor	and as follows.	Approx. Lati Public Road Watershed:	tude & Longitude:	39.684757, -80.640554 Rt. 89
Pursuant to W a plat survey of State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, W obtained from Notice is her Well Operator.	est Virginia Co on the tract of la wv Wetzel Proctor Wileyville state Erosion and ed from the Sec V 25304 (304- the Secretary by reby given by: SWN PRODUCTI	ad Sediment Control eretary, at the WV De 926-0450). Copies of y visiting www.dep.	Approx. Lating Public Road Watershed: Generally use Manual and the statutes an engineering of Engineering and the statutes are statuted as the statutes and the statutes are statuted as the statuted as the statutes are statuted as the statutes are statuted as the statuted as the statutes are statuted as the statutes are statuted as the statuted as the statuted as the statutes are statuted a	tude & Longitude: Access: ed farm name: ad rules related to o	39.684757, -80.640554 Rt. 89 Fish Creek SWN A WTZ Pad iil and gas exploration and production warters, located at 601 57 Street, SE as related to horizontal drilling may be APR 3 0 2018
Pursuant to W a plat survey of State: County: District: Quadrangle: Copies of the s may be obtaine Charleston, W obtained from	est Virginia Co on the tract of la wv Wetzel Procter Wileyville state Erosion an ed from the Sec V 25304 (304- the Secretary by eby given by: SWN PRODUCTI 304-884-1610	ad Sediment Control pretary, at the WV De 1926-0450). Copies of y visiting www.dep.	Approx. Lating Public Road Watershed: Generally use Manual and the statutes an epartment of Environments of such documents or additional wv.gov/oil-and-gas/pages/	tude & Longitude: Access: ed farm name: ad rules related to o al Protection headq tional information r default.aspx.	39.684757, -80.640554 Rt. 89 Fish Creek SWN A WIZ Pad iil and gas exploit for a did profile tion warters, located at 601 57 Street SB as related to horizontal drilling may be APR 3 0 2018 WV Department of

Oil and Gas Privacy Notice:

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

Notice Time	Requirement:	Notice shall be prov	rided at	least SEVEN (7) da	eys but no more that	n FORTY-FIVE (45) days prior to
Date of Notice	o 10/18/2017	Data of Pla	nned F	ntry: 10/25/2017		
Date of Noth	e. Torrenzorr	Date of Fia	nned E	ntry: 10/25/2017	_	
Delivery met	hod pursuant	to West Virginia C	ode § 2	2-6A-10a		
☐ PERSO	NAL 🔳	REGISTERED	П	METHOD OF DE	IVEDV TUAT DI	POLIDES V
SERVIC		MAIL		RECEIPT OR SIG		
but no more the beneath such owner of min and Sediment Secretary, when able the sur	ace tract to come han forty-five of tract that has fil erals underlying Control Manua ich statement sin face owner to come face owner to come to come to to come to come to to come to to come to to come to to come to to come to to come to to to come to to come to to come to to come to to come to to come to to to come to to to come to to to to to to to to to to	auct any plat survey, lays prior to such en- led a declaration pur- g such tract in the co- al and the statutes an hall include contact obtain copies from the	s require try to: (suant to ounty tax id rules informa	ed pursuant to this a 1) The surface owne section thirty-six, a records. The notic related to oil and ga tion, including the a	rticle. Such notice or of such tract; (2) article six, chapter to be shall include a standard s exploration and n	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
	eby provided t	0:				
	CE OWNER(s)			LI COA	L OWNER OR LE	SSEE
Name:			_	Name:		
Address:			-	Address:		
Name:			-	-		
Address:			-	■ MINI	ERAL OWNER(s)	
				Name: Vio		
Name:					HC 74 Box 66	
Address:				Alma, WV 26		
			-	*please attac	h additional forms if ne	cessary
Notice is her Pursuant to W a plat survey of State: County:	est Virginia Co on the tract of la	de § 22-6A-10(a), n and as follows:			ude & Longitude:	l operator is planning entry to conduct 39.584757, -80.540554 Rt. 89
District:				Watershed:	Tooss.	Fish Creek
Quadrangle:	Wileyville			Generally use	d farm name:	SWN A WTZ Pad
may be obtain Charleston, W obtained from	V 25304 (304- the Secretary b	eretary, at the WV D 926-0450). Copies by visiting <u>www.dep</u>	epartme of such	and the statutes an ent of Environmenta documents or addit //oil-and-gas/pages/	d rules related to oi il Protection headqui ional information re lefault.aspx.	RECEIVED and production and production production sarters, loaned so of Sacra spassed at the horizontal drilling may be APR 3 0 2018
Telephone:		ION COMPANY, LLC		Address:	PO BOX 1300	WV Department of
Email:	304-884-1610	222222600		P 11	JANE LEW, WV 26378	Environmental Protection
	nee_southan@sw	in.com or brittany_woody@s	wn.com	Facsimile:		

Oil and Gas Privacy Notice:

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

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

Date of Noti	Requirement: ce: 03/08/2018		t least TEN (10) days prior to filing a rmit Application Filed:	permit application.
Delivery me	thod pursuant	to West Virginia Code §	22-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVE	ERY	RETURN RECEIPT REC	QUESTED	
receipt requed drilling a hore of this subsection mand if available and if available	sted or hand del izontal well: Petion as of the day be waived in the facsimile nu	ivery, give the surface ow rovided, That notice given ate the notice was provided writing by the surface ow mber and electronic mail a	ner notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includdress of the operator and the operator	an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	reby provided oduction Company, LL	to the SURFACE OV	VNER(s): Name:	
Address: POI			Address:	
Houston, TX 772			riddi coo.	
State:	West Virginia		Eastings	
County: District:	Wetzel Proctor		UTM NAD 83 Easting: Northing: Public Road Access:	530,904.97 4,392,593.48 Macedonia Ridge
County: District: Quadrangle:	Proctor Wileyville, WV		Northing:	4,392,593.48
County: District: Quadrangle: Watershed:	Proctor	p	Public Road Access:	4,392,593.48 Macedonia Ridge
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electroizontal drilling	c: Code § 22-6A-16(b), this onic mail address of the may be obtained from the	Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	4,392,593.48 Macedonia Ridge
County: District: Quadrangle: Watershed: This Notice Pursuant to sacsimile nur related to hor located at 601	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia (mber and electroizontal drilling) 1 57th Street, SE	e: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters,
County: District: Quadrangle: Watershed: This Notice Pursuant to value facsimile nur related to hou located at 6000	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electroizontal drilling	E: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrizontal drilling 1 57th Street, SE reby given by r: SWN Production	E: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hoo located at 601 Notice is he Well Operato Address:	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia Comber and electrizontal drilling 1 57th Street, SE reby given by r: SWN Production	e: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (: n Company, LLC	Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hoo located at 601 Notice is he Well Operato Address:	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia (mber and electroizontal drilling 1 57th Street, SE reby given by r: SWN Production PO Box 1300,	e: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (: n Company, LLC	Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel PO Box 1300, 179 Innovation Drive
County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hot located at 601 Notice is he Well Operato	Proctor Wileyville, WV Upper Ohio South Shall Include West Virginia (mber and electrizontal drilling I 57th Street, SE reby given by r: SWN Production PO Box 1300, Jane Lew, WV	c: Code § 22-6A-16(b), this onic mail address of the may be obtained from the Charleston, WV 25304 (c): In Company, LLC IT9 Innovation Drive	Public Road Access: Generally used farm name: notice shall include the name, addroperator and the operator's authorized Secretary, at the WV Department of 304-926-0450) or by visiting www.de	4,392,593.48 Macedonia Ridge SWN A WTZ ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel PO Box 1300, 179 Innovation Drive Jane Lew, WW 26378

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA 47 1 0 3 0 3 2 3 3 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

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

Date of Notic		nall be provided at least TEN (10) of Date Permit Application	days prior to filing Filed:	a permit application.
Delivery met	hod pursuant to West	Virginia Code § 22-6A-16(b)		
☐ HAND	■ CERTIF	IED MAIL		
DELIVE		N RECEIPT REQUESTED		
DELIVE	KI KETUK	N RECEIFT REQUESTED		
receipt reques drilling a hor of this subsec subsection mand if availab	ted or hand delivery, give zontal well: Provided, it tion as of the date the not by be waived in writing be le, facsimile number and	re the surface owner notice of its in That notice given pursuant to substice was provided to the surface over the surface owner. The notice, it electronic mail address of the open	ntent to enter upon ection (a), section to vner: <i>Provided, ho</i> f required, shall inc	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements twever, That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
Name: CNX Ga	Company II C	SURFACE OWNER(s): Nan	10.	
	Consol Energy Drive		ress:	
Canonsburg, PA			1055.	
the surface ov	est Virginia Code § 22- vner's land for the purpo	6A-16(b), notice is hereby given t se of drilling a horizontal well on t	he tract of land as f	
Pursuant to V the surface ov State: County:	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel	se of drilling a horizontal well on t UTM NA	he tract of land as f D 83 Easting: Northing:	follows: 530,904.97 4,392,593.48
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor	se of drilling a horizontal well on t UTM NA Public Ro	he tract of land as f D 83 Easting: Northing: ad Access:	Follows: 530,904.97 4,392,593.48 Macedonia Ridge
Pursuant to V the surface ov State: County:	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel	se of drilling a horizontal well on t UTM NA Public Ro	he tract of land as f D 83 Easting: Northing:	follows: 530,904.97 4,392,593.48
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 aber and electronic mail izontal drilling may be of	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department	Follows: 530,904.97 4,392,593.48 Macedonia Ridge
Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershiel number of the pursuant to Notice at 601 Notice is he	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 aber and electronic mail izontal drilling may be of 57th Street, SE, Charlest reby given by:	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the one, WV 25304 (304-926-0450) or	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershiel number of the pursuant to Notice at 601 Notice is he	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 piber and electronic mail izontal drilling may be of 57th Street, SE, Charlest	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the obtained from the Secretary, at the obtained from the Secretary at the obtained from the obtained from the Secretary at	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershiel number of the pursuant to Notice at 601 Notice is he	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 aber and electronic mail izontal drilling may be of 57th Street, SE, Charlest reby given by:	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the ton, WV 25304 (304-926-0450) or the control of the obtained from the Secretary at the ton, WV 25304 (304-926-0450) or the control of the co	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department by visiting www.deced	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershie nurrelated to hor located at 601 Notice is he Well Operato Address:	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 aber and electronic mail izontal drilling may be of 57th Street, SE, Charlest reby given by: SWN Production Company	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the ton, WV 25304 (304-926-0450) or the control of the obtained from the Secretary at the ton, WV 25304 (304-926-0450) or the control of the co	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department by visiting www.deced	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wather surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershie number of the county of the	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 iber and electronic mail izontal drilling may be of 57th Street, SE, Charlest reby given by: SWN Production Company PO Box 1300, 179 Innovation	2-6A-16(b), this notice shall included address of the operator and the obtained from the Secretary, at the ton, WV 25304 (304-926-0450) or the control of the obtained from the Secretary at the ton, WV 25304 (304-926-0450) or the control of the co	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department by visiting www.d	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx. Steve Teel PO Box 1300, 179 Innovation Drive
Pursuant to Wathe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershie nurrelated to hor located at 601 Notice is he Well Operato Address:	Vest Virginia Code § 22- vner's land for the purpo West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 2 nber and electronic mail izontal drilling may be of 57 th Street, SE, Charlest reby given by: ": SWN Production Company PO Box 1300, 179 Innovati Jane Lew, WV 26378	2-6A-16(b), this notice shall include address of the operator and the obtained from the Secretary, at the obtained from the Secretary, at the on, WV 25304 (304-926-0450) or the obtained from the Secretary at the on Drive Address	he tract of land as for Easting: D 83 Easting: Northing: ad Access: used farm name: ude the name, addoperator's authorize WV Department by visiting www.d	follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ dress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx. dress: Steve Teel PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the course of business or as needed to comply with statutory or regulatory requirements, including Freedom of propagation of the processor of the processor of the propagation of the processor of the proc

Operator Well No. SWNAWIZ 5H 47 10 3 0 3 2 3 3

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

Date of Noti		ided no later than the filing date of perm mit Application Filed:	it application.
Delivery me	thod pursuant to West Virginia Co	ode § 22-6A-16(c)	
■ CERT	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receip the planned required to b drilling of a damages to the (d) The notice of notice.	t requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas op ses required by this section shall be greby provided to the SURFACE O	the surface owner whose land will be used this subsection shall include: (1) A cop in ten of this article to a surface owner which distributes and compensation agreem derations to the extent the damages are congiven to the surface owner at the address where the surface owner are the surface owner at the address where the surface owner are the surface owner at the address owner are the surface owner at the surface owner at the address owner are the surface owner at the surface owne	olication, an operator shall, by certified mail for the drilling of a horizontal well notice of by of this code section; (2) The information ose land will be used in conjunction with the ent containing an offer of compensation for impensable under article six-b of this chapter. listed in the records of the sheriff at the time
	is listed in the records of the sheriff	at the time of notice):	
Which have not been produced in			
Name: SWN P	oduction Company, LLC	Name:	
Name: SWN Pr Address: PO Houston, TX 772 Notice is her	ox 672625 67 eby given:	Address:	
Name: SWN Production on State:	ox 672625 67 eby given: Vest Virginia Code § 22-6A-16(c), n	Address: notice is hereby given that the undersigne roose of drilling a horizontal well on the LITM NAD 83. Easting:	tract of land as follows: 530,904.97
Name: SWN Proceed Address: POT Houston, TX 772 Notice is her Pursuant to Voperation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Wetzel	Address: notice is hereby given that the undersigne rpose of drilling a horizontal well on the UTM NAD 83 Easting: Northing	tract of land as follows: 530,904.97 : 4,392,593.48
Name: SWN Properties of the Pursuant to Voperation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Wetzel Proctor	Address: notice is hereby given that the undersigne rpose of drilling a horizontal well on the UTM NAD 83 Easting: Northing Public Road Access:	tract of land as follows: 530,904.97 4,392,593.48 Macedonia Ridge
Name: SWN Properties of the Name: SWN Properties of the Name of th	eby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Wetzel	Address: notice is hereby given that the undersigne rpose of drilling a horizontal well on the UTM NAD 83 Easting: Northing	tract of land as follows: 530,904.97 4,392,593.48 Macedonia Ridge
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Name: SWN Processing Polymers	eby given: Vest Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the related to horizontal drilling may be located at 601 57 th Street, SE, Fault.aspx.	Address: notice is hereby given that the undersigne rpose of drilling a horizontal well on the UTM NAD 83 Public Road Access: Generally used farm name this notice shall include: (1)A copy of the to a surface owner whose land will be and compensation agreement containing extent the damages are compensable use obtained from the Secretary, at the W Charleston, WV 25304 (304-926-045)	ract of land as follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ s code section; (2) The information required an offer of compensation for damages to the inder article six-b of this chapter. Additional V Department of Environmental Protection (0) or by visiting www.dep.wv.gov/oil-and-

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 Active exists. Our office will appropriately secure your personal information. If you have any questions about our use or your office information DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

APR 3 0 2018

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF PIL AND GAS 3 3 NOTICE OF PLANNED OPERATION

Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)		
■ CERT	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receip the planned required to be drilling of a damages to t (d) The notice of notice.	t requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas on the surface by this section shall be greater than the provided to the SURFACE O	the surface owner whose land this subsection shall incluse the ten of this article to a surface distributed use and compensional to the extent the dis- given to the surface owner at the ten owner at the ten own	d will be used for de: (1) A copy ace owner whose sation agreemer amages are com	cation, an operator shall, by certified mail 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 at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Marie Service	ss listed in the records of the sheriff	at the time of notice): Name:		
Name: CNX G	is Company, LLG			
Name: CNX G Address: 100			S:	
Address: 100 Canonsburg, PA Notice is he Pursuant to	Consol Energy Drive 15317 Peby given: Vest Virginia Code § 22-6A-16(c), r	Addres	he undersigned	well operator has developed a planned
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation on State:	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia	Addres	he undersigned all well on the tra	ct of land as follows: 530,904.97
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County:	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia Wetzel	Addres notice is hereby given that to rpose of drilling a horizonta UTM NAD 8	he undersigned al well on the tra 3 Easting: Northing:	act of land as follows: 530,904.97 4,392,593.48
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia	Addres notice is hereby given that to rpose of drilling a horizonta UTM NAD 8 Public Road	he undersigned all well on the tra Easting: Northing:	ct of land as follows: 530,904.97
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County:	reby given: Vest Virginia Code § 22-6A-16(c), reby surface owner's land for the pure west Virginia Wetzel Proctor	Addres notice is hereby given that to rpose of drilling a horizonta UTM NAD 8 Public Road	he undersigned al well on the tra 3 Easting: Northing:	act of land as follows: 530,904.97 4,392,593.48 Macedonia Ridge
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to vote be provide horizontal watershed information	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pure west Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: West Virginia Code § 22-6A-16(c), r ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be, located at 601 57th Street, SE,	Address notice is hereby given that the repose of drilling a horizonta of the UTM NAD and Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are one obtained from the Secretary of the control of the secretary of the control of the secretary of the control of the secretary of the s	he undersigned all well on the trace Easting: Northing: Access: ed farm name: Acopy of this elland will be understand arm papersable undersy, at the WV	act of land as follows: 530,904.97 4,392,593.48 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
Address: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to vote horizontal wasurface affect information headquarters gas/pages/de	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pure west Virginia Wetzel Proctor Wileyille, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(c), r ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be, located at 601 57th Street, SE, fault.aspx.	Address notice is hereby given that the prose of drilling a horizonta UTM NAD 8 Public Road Generally use this notice shall include: (I to a surface owner whose and compensation agreement extent the damages are contained from the Secret Charleston, WV 25304	he undersigned all well on the traces as Easting: Northing: Access: ed farm name: Acopy of this e land will be unt containing arompensable und tary, at the WV (304-926-0450)	act of land as follows: 530,904.97 4,392,593.48 Macedonia Ridge SWN A WTZ code section; (2) The information required used in conjunction with the drilling of a noffer 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: 100 Canonsburg, PA Notice is he Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to voto be provide horizontal wasurface affectinformation headquarters	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pure west Virginia Wetzel Proctor Wileyille, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(c), r ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be, located at 601 57th Street, SE, fault.aspx.	Address notice is hereby given that the repose of drilling a horizonta of the UTM NAD and Generally use this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are one obtained from the Secretary of the control of the secretary of the control of the secretary of the control of the secretary of the s	he undersigned all well on the trace Easting: Northing: Access: ed farm name: Acopy of this elland will be understand arm papersable undersy, at the WV	act of land as follows: 530,904.97 4,392,593.48 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 ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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 Acturements, Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

APR 3 0 2018



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 26, 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 WTZ 5H

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

Dary L. Clayton

Central Office Oil &Gas Coordinator

RECEIVED Office of Oil and Gas

APR 3 0 2018

WV Department of Environmental Protection

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

Product Name Product Use Chemical Name	
The state of the s	CAS Number
Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies) Biocide Acetic Acid	64-19-7
Peroxyacetic Acid	79-21-0
Mathanal	67-56-1
GYPTRON T-390 (Champion Technologies) Scale Inhibitor Nonylphenol Ethoxylate	Proprietary
Glutaraldehyde	
Contamon American Company of Children	111-30-8
Biocide Biocide 16-Alkyldimethyl, Chlorides	68424-85-1
Ethanol	64-17-5
Culanos	04-17-3
Bactron K-219 (Champion Technologies) Blocide Methanol	67-56-1
Quaternary Ammonium Compounds, Benzyl-C12-	68424-85-1
16-Alkyldimethyl, Chlorides	00424-03-1
EC6486A (Nalco Champion) Scale Inhibitor Amine Triphosphate	Proprietary
Ethylene Glycol	107-21-1
WFRA-2000 (u.s. well services) Anionic Friction Reducer Hydrotreated light distillate (petroleum)	64742-47-8
Propenoic acid, polymer with propenamide	9003-06 9
Ethylene glycol	107-21 1
Cinnamaldehyde	104-55 2
AI-303 (U.S. Well Services) Mixture Butyl cellosolive	111-76 2
Formic acid	64-18 6
Polyether	Proprietary
Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (u.s. well services) Breaker Ammonium persulfate	7727-54-0
OPTI-FLEX (u.s. well services) Viscosifying Agent Distillates, petroleum, hydrotreated light	64742-47-8
Methanol	67-56-1
Oxyalkylated fatty acid	68951-67-7
Fatty acids	61790-12-3
Econo-Cl200 (sww weil services) Corrosion Inhibitor Modified thiourea polymer	68527-49-1
Water	7732-18-5
Hydrochloric acid	7647-01-0
Potassium acetate Formaldehyde	127-08-2 50-00-0
Acetic Acid	
Ecopol-FEAC (SWN Well Services) Iron Control Citric Acid	64-19-7 77-92-9
Water	7732-18-5
Hudrochloria Acid	7647-01-0
HCL (SWN Well Services) Hydrocholic Acid Water	7732-18-5
ELOIET DDD 1120V	Proprietary
	64674-47-8
Ethylene Glycol	107-21-1
FLOUET DROOM LOD WHITE HE STATE OF THE STATE	68213-24-1
	Proprietary
Water	7732-18-5
FR-76 (Halliburgon) Friction Reducer Hydrotreated light petroleum distillate	64742-47-8
Inorganic Salt	Proprietary
HAI-150E (Halliburton) Corrosion Inhibitor No hazardous substance	N/A
	Proprietary
1 Dr. 2111 O-12 (ustobros) FUCUCU KEGREST	64742-47-8
	Proprietary
I P-65 MC (Heliburga) Scale inhibitor Organic phosphonate	
G 405 (Alexandrea) Scale (All)(D)(D)	12125-02-9

- 1. THIS PLANTS FOR GRADING, STORMWATER SYSTEMS, AND EROSIDN AND SEDIMENT CONTROL PURPOSES ONLY
 2 PROPERTY INFORMATION SHOWN HEREON IS FROM GIS DATA PROVIDED BY
- SCITITIVE STERN ENERGY PRODUCTION COMPANY AND HAS NOT BEEN FIELD VERIFIED. 3. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS BET FOR OTHER PERTINENT INFORMATION IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SET FULLY DEPICTS ALL WORK ASSOCIATED WITH THIS PROJECT.
- 4 SOIL TYPE BOUNDARY, AND CHARACTERISTICS SHOWN HERE ON WURE ACQUIRED FROM NRCS WEB SOIL SURVEY.
- 5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT. DATED MARCH 21, 2017, 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, 2019. TOPOGRAPHIC MAPPING GUTSIDE 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 BUILT R TO REMAIN
- 8 FILL WILL BE COMPACTED TO 66% OF STANDARD PROCTOR DENSITY (ASTM-668). FILL LIFT THICKNESS 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	EST MATER QUANTITY	MARI
ALCOMPOST FLICT SOCK	120	-015
25 COMPOST FILTER BOCK	4,476	0.0
ROCH CONSTRUCTION ENTRANCE IN LAGSREGATE	144	- 304
CLASS & GEOTEXTILE (APPED - UNDER AYMENT)	454	IAM.
SITE RESON AREA	-73	- AC
PROPOSED STORM CATCHBASING	15	EA
THE LIGHT STURM FORE (CINC 1 AND 1)	142.5	1,6
4* FEDELATORM PIPE (0009)	60	LF.
DUTLET PROTECTION	7	EA
4" PERE PUC SCH 40 PIPE (PAD LINDERDRÁH)	1,715	13
4: SOUD PAT SON AD PIPE (CATEN BASIN OUTLE):	407	IÉ
WELL PAUTEHMETER BERM	1,745	LF
CALE VALVES	6	FA
F PERE PUC SUIL IS HERE IT CLE SECVE BENCH DRAWN	2,615	U.
(FEDUD PVC BOR IN PIPE (BENICH DHAM COLLECTION)	120	1.F
AAST HOUSE RESIDENCE DRAIN BEDD 14G).	1,440	104
PAU HEAVY DUTY MAY STONE (C')	1,070	cv
PAD III AVY DITTY & STONE (147)	2,450	I GY
PAD STANDARD NACE STORE (4")	2,710	1,5%
PAD STANDARD LI STONE (120)	6,295	- RY
ADVESSIONE WHITSTONE; 4"	299	O'T
ACCESS #DAD+I STONE (II)	065	CY
PAU GLASS 3 GEOTEKTILE	15.640	24
ACCESS ROAD OLACS 2 GEOTEXTILE	5,300	27
EANTHMORK VOLUMES GUT	57,625	ISV
EARTHMORK VOLUMES FIL.	55,005	(59
WELL CITEARS	1	14
GEOGRAPHMENDIG SET OF COLUMNENT)	1440	-54
CLEARING AND DRIVERING	th.	AC

EROSION AND SEDIMENT CONTROL PLAN FOR SWN PAD A

PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA



PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS DRAWING SET (4) PAGE SHEET SET.

FORCE / EFFECT IN DEFINING THE REQUIREMENTS FOR THE PROJECT. IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO

DATED 2018-07-17 A REVISIONS DATED 2018-08-03) AND THE GEOTECHNICAL ENGINEERING REPORT (GTA ENERGY, LLC REPORT), WHICH ARE COMPLEMENTARY AND HAVE THE SAME

IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR

CALL TOLL FREE 800-245-4848

APPROVED WVDEP OOG

3/1 8/6/2018

SWN PAD A GNLY - 5.61 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

CENTER OF PAD 1 (NAD 83) LAT: 39.582509

(NAD 83) LAT: 39,683182

CENTER OF STAGING PAD (NAD 83) LAT: 39.683770

LANDS N/F OF

DWG NO	DRAWING DESCRIPTION
C,001	COVER SHEET
G.002 - G.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
G.401 - G.411	SLOPE STABILIZATION DETAILS & PROFILES
G 501 - G 523	DETAILS

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	COVERSHEET		
G.002 - G.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		
G501 - G523	DETAILS		

	Silv	100	PROJECT
T 89			ESCATION BAD MOT TO SCALE
GENERAL HIGHWAY MAP WETZEL COUNTY	7 . 30	CA103,13 DATE:	NEWSED PER DEP COMMENT DESCRIPTION
SCALE 1"- I MILE WEST VIRGINIA			2 WORKING DAYS

LONG: -80.638975

LONG: -80.639728

STAGING PAD SITE ENTRANCE LONG: -80.637249

LONG: -80.638525

ISUBVEYORS ENGINEERS HA ENVIRONMENTAL mparier GIS MAPPING

www.jhacompanies.com

Mies Utility of West Virginia

Southwestern Energy'

SESISIEPCO.

1 17272

STATE OF

P DUBON a Due to

PREPARED FOR

58011 VINEYARD ROAD ST. CLAIRSVILLE, OH 43950 (740) 695-6100 OH NY

08/03/2018 Officere AS HOTED CONSTRUCTION PLANS

FOR SWN PAD A LOCATED IN PROCTOR DISTRICT. WETZEL CIDUNTY, WEST VIRGINIA

COVER SHEET

FINAL C.001

PROJECT CONTACTS

OPERATOR: SOUTHWESTERN ENERGY, LLC 179 INNOVATION DRIVE JANE LEW, WV 7637R PHONE: (304) 854-1618 WWW.SWN.COM

PROJECT NARRAT VE

INTERPRETATION

PROJECT COORDINATOR

KALAR TAYLOR SOUTHWESTERN ENERGY, LIC **CPERATIONS ANALYST** 179 INNOVATION DRIVE JANE LEW, WV 26378 PHENT: (304) 784-1696 EMAIL: KALAB_TAYLOR@SWN.COM

IHA COMPANIES GEG11 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 ALAY ENVIRONMENT ALCONSULTING THE DATED FEBRUARY 16, 2018 AND JULY 16,

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

