

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 3H

47-103-03232-00-00

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 3H

Farm Name: SWN PRODUCTION COMPAN

U.S. WELL NUMBER: 47-103-03232-00-00

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

API Number: <u>47-103-03232</u>

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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: 47-103-03232

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 3H
Well Pad Name:	SWN A WTZ Pad

4710303232

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

1) Well Operator: SWN Produ	ction Co., LLC	494512924	103- Wetzel	12-Proct	681-Wileyville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: SW	/N A WTZ 3H	Well Pac	d Name: SWN	A WTZ Pa	ad
3) Farm Name/Surface Owner:	SWN Production Compa	Public Roa	ad Access: Mad	edonia Ri	dge
4) Elevation, current ground:	1337' E	levation, proposed	post-construction	on: 1342'	
5) Well Type (a) Gas x	Oil	Und	erground Storag	ge	
Other					<u></u>
(b)If Gas Shall	llow <u>x</u>	Deep			
Hor	izontal X				Dn.H
6) Existing Pad: Yes or No No		· · · · · · · · · · · · · · · · · · ·	_		4-12-18
7) Proposed Target Formation(s) Target Formation-Marcellus Up-Dip Well to t					
8) Proposed Total Vertical Depth	7386' at the	heel (LP deepest	TVD)		
9) Formation at Total Vertical D	epth: Marcellus	S			
10) Proposed Total Measured De	epth: 18,878'	18.18.			
11) Proposed Horizontal Leg Le	ngth: 11091.88	B'	<u> </u>		
12) Approximate Fresh Water St	rata Depths:	300'	. .		
13) Method to Determine Fresh	Water Depths:	The base of fresh	water at the alt	ernate min	imum depth of 300'.
14) Approximate Saltwater Dept	hs: 1364' Log	s will be run for a S	Salinity profile a	nalysis	***
15) Approximate Coal Seam Dep	oths: 1229'				
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	None that we	are aware	of.
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No	<u>x</u>	
(a) If Yes, provide Mine Info:	Name:				
, , , , ,	Depth:		RECEIVE		
	Seam:	Of	fice of Oil an	d Gas	
	Owner:		APR 3 0 201	8	

API NO. 47- 103 -

OPERATOR WELL NO. SWN A WTZ 3H
Well Pad Name: SWN A WTZ Pad

18)

CASING AND TUBING PROGRAM

4710303232

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	400'	400' 🗸	392 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	2774'	2774'	1080 sx/CTS
Production	5 1/2"	New	P-110	20#	18878'	18878' ν	lead 872sx/Tail 2705sx.Inside Intermedia
Tubing					·		
Liners							

Don H 4-12-18

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	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:	RECEIVED
Depths Set:	Office of Oil and Gas
	APR 2 0 2018

API NO. 47103	
OPERATOR WELL NO. SWN A WTZ 3H	
Well Pad-Name: SWN A WTZ Pad	
Well Pad-Name: SWN A WTZ Pad 0 3 0 3 2 3	2

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

Drill and stimulate any potential zones between and including the Benson to 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.)

Dr. 4 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 ***

25) Proposed borehole conditioning procedures:

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

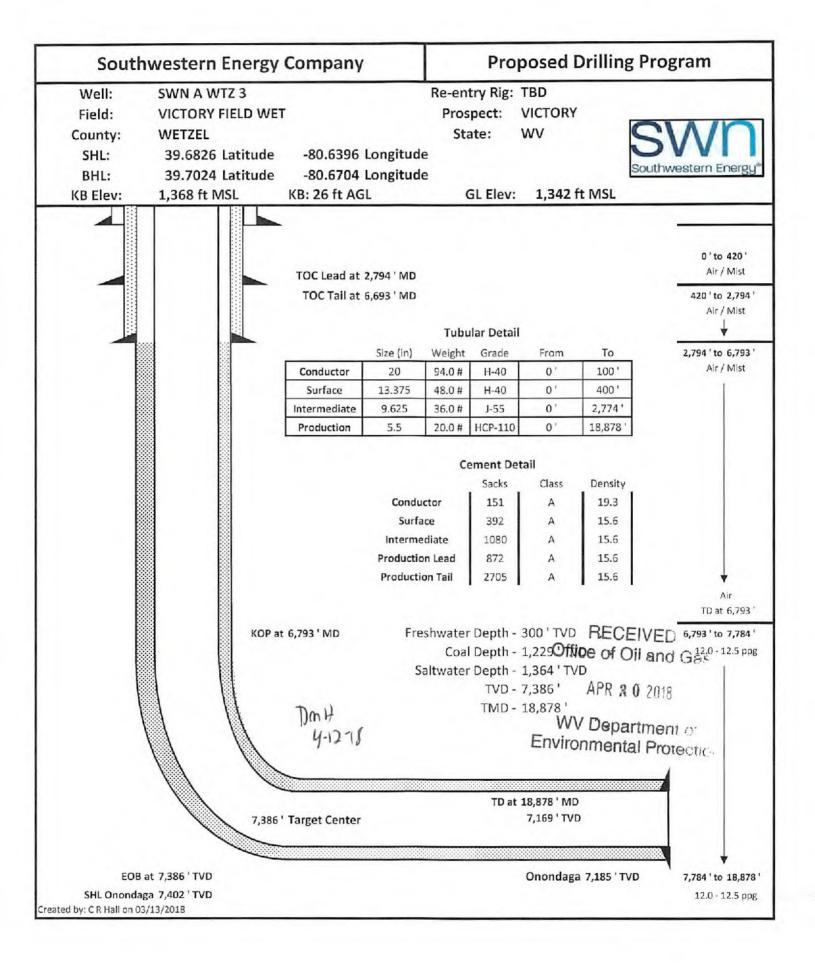
RECEIVED
Office of Oil and Gas

*Note: Attach additional sheets as needed.

APR 3 0 2018

SWN	A	WTZ	3Н

	T		SWN A WTZ 3H				T
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			
103-00426	Columbia Gas Transmission, LLC	Active	39.69902	80.667181	2131'	Maxton	1st Salt Sand, Big Dunkard
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Schlumberger	Comont	Additions
Schlintiperger	Lement	Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4
54	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
0 "	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	25322-59-4
ag	D045	antifoam	fullers earth (attapulgite)	8031-18-3
겉		1	chrystalline silica	14808-50-7
9	D201	retarder	metal oxide	propriatary
Production-Lead			sulphonated synthetic polymer	propriatary
J.	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-59-4
	DD46	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
=			sodium polynaphthalene sulfonate	9008-63-3
-	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
npo	D201	retarder	metal oxide	propriatary
4	D153	anti-settling	chrystalline silica	14808-60-7

RECEIVED Office of Oil and Gas

APR 3 0 2018

API Number 47 -	103	
Operator's	Well No.	SWN A WTZ 3H

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

4710303232

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 complete the proposed well work? Yes V
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application / 4-18-12
Underground Injection (UIC Permit Number 34-185-22102-34-059-24-15-26776-34-167-22002-34-155-22796, 34-15-22096, 34-15-22096)
Reuse (at API Number_at next anticipated well, API# will be included with the WR-34/DDMR 8/or permit addendum. Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Ardina KOP, find dell with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3A
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Arden Landfill 100/2, Apex Sanitary Landfill 05-08438, Brooke Co SWF-1013, Valley 100280
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
RECEIVED
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLITION SEMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. APR 3 0 2010 I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals inapplication 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 or imprisonmental ProteCtion.
Company Official Signature OFFICIAL SEAL
Company Official (Typed Name) Dee Southall SRITTANY R WOOD
Company Official Title Senior Regulatory Analyst 3302 Old Elkins Road Buckhanpon, WV 26201 Synthesion expires November 27,
Subscribed and sworn before me this 13th day of 18
Southany R Monday Notary Public
My commission expires 11 7 16

Form WW-9

TOTAL W W-7	Operator's W	ell No. SWN A WTZ 3
SWN Production Co., LLC		
Proposed Revegetation Treatment: Acres Disturbed 15.05	Prevegetation pH	
Lime as determined by pH test min. 2 Tons/acre or to correct to pH	7	
Fertilizer type 10-20-20		
Fertilizer amount 600 lbs/acre		
Mulch Hay/Straw 2.5 Tons/acre		
Seed Mixtures	ì	
Temporary	Perma	nent
Seed Type Ibs/acre Attachment 3B	Seed Type	lbs/acre
	<u> </u>	
Photocopied section of involved 7.5' topographic sheet.		
Plan Approved by:		
Comments:		
Title:Oil and Gas Inspector		RECEIVED

(_____) No

Yes

Field Reviewed?

WV Department of Environmental Protection

APR 3 0 2018

Attachment 3A

Drilling Mediums

Synthetic Oil

Brine

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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Office of Oil and Gas

APR 3 0 2018



WVD Seeding Specification

ORGANIC PROPERTIES



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

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES

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

Seed Mixture: SWN Production Organ	nic Mix	SWN Supplied	=
Organic Timothy	50%		tio
Organic Red or White Clover	50%	98	90 0
OR		G	o tito
Organic Perennial Ryegrass	50%	E 5	mel Pre
Organic Red or White Clover	50%	N B	o 2 tal
Apply @ 100lbs per acre April 16th- Oct. 14th		Apply @ 200	Olbs per age

Pelletized Line @ 2 Ton

WETLANDS	(delineated as	jurisdictional wetlands)
Sond Mixture	Motland Miv	CIAINI Cumplica

Organic Fertilizer @ 200lbs per Acre

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

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

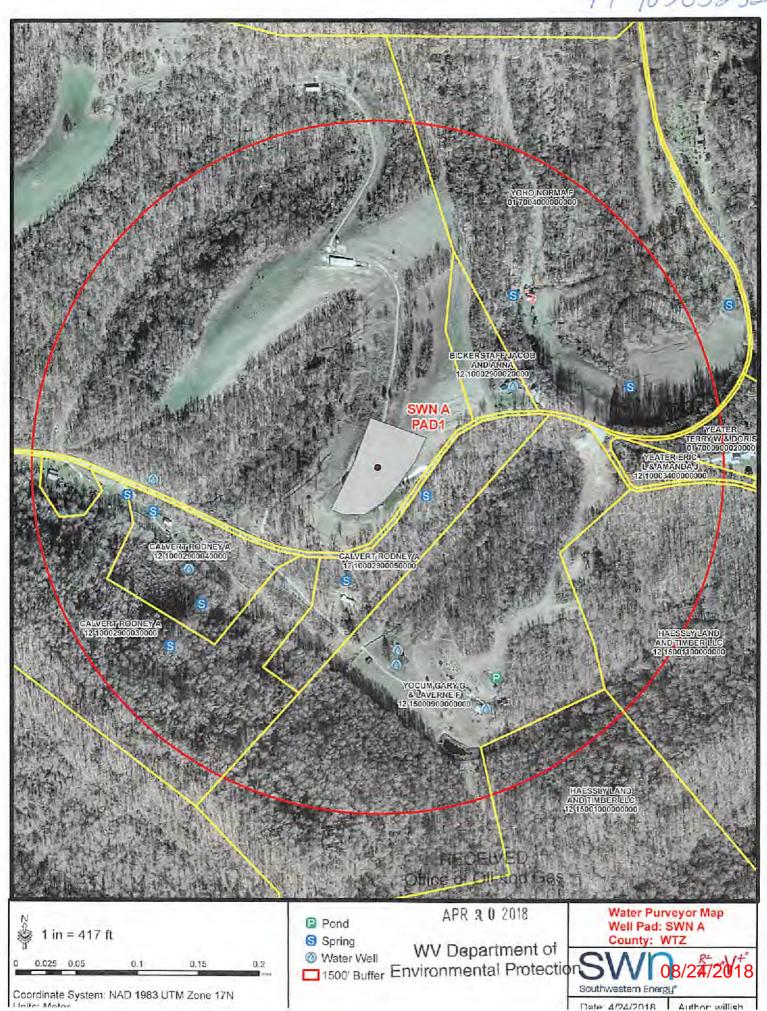


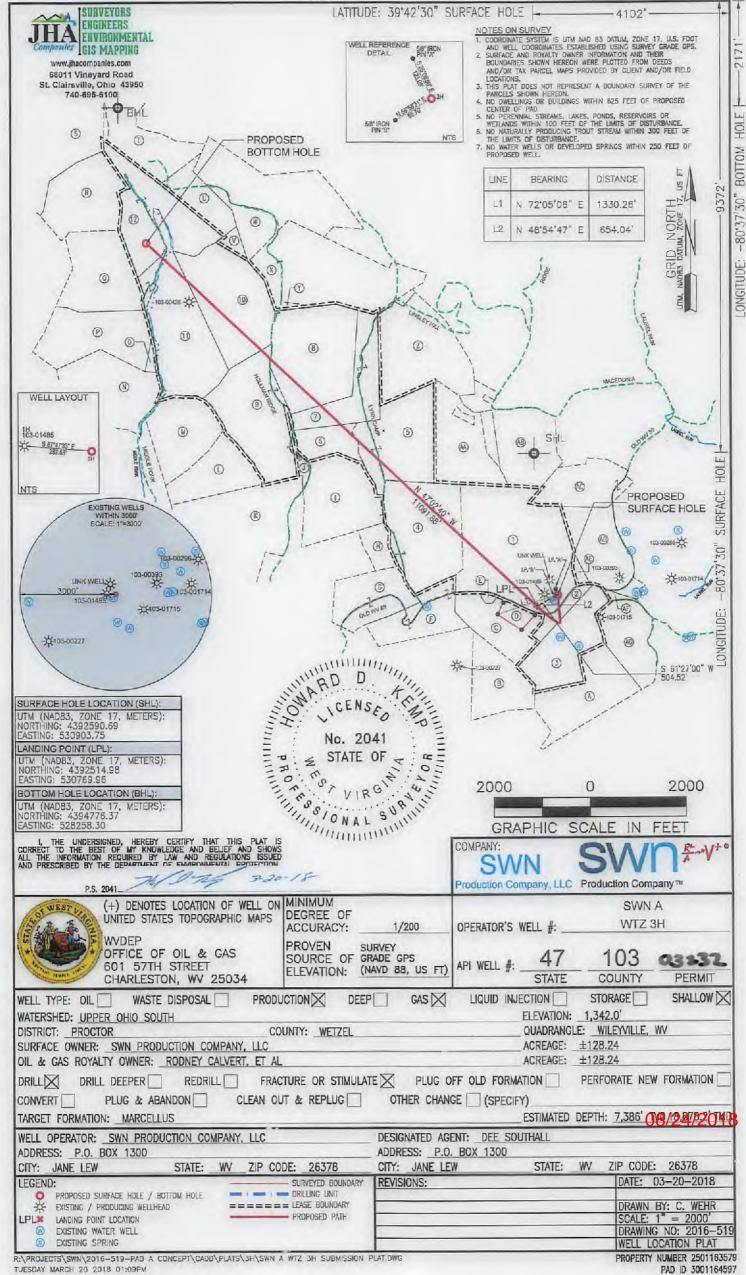
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: SWN A WTZ 3H
Wileyville QUAD
Proctor DISTRICT
Wetzel COUNTY, WEST VIRGINIA

WCZCI GG	OIT I	, WEOI WIIK	
Submitted by:			
Dee Southall	Date:	3/8/2018	
Senior Regulatory Title: Analyst	SWN P	roduction Co., LLC	
Approved by:	_ Date:	4-1218	
Title: Dil + Ger Inspector	-	, , , , , ,	
Approved by:			
	Date:		
Title:	-		RECEIVED Office of Off and Gas
SWN PRODUCTION COMPANY,	LLC – CC	ONFIDENTIAL	APR 3 0 2018
			WV Department of Environmental Protection

47 10303232





LATITUDE: 39'42'30" BOTTOM HOLE 12755'

	WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
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 (LIFE ESTATE); CHRIS B. YOCUM (REMIOANDERMAN)	12-15-9		
4	SWN PRODUCTION COMPANY, LLC	12-10-28		
5	SWN PRODUCTION COMPANY, LLC	12-10-15		
6	SWN PRODUCTION COMPANY, LLC	12-10-14		
7	SWN PRODUCTION COMPANY, LLC	12-10-10		
8	MILLTREE PROPERTIES, LLC	12-10-9		
9	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-13		
10	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UDER DATE OF JANUARY 8, 2013	12-10-10		
11	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UDER DATE OF JANUARY 8, 2013	12-9-15		
12	MARK MASSARI	12-4-38		

RACT	ADJOINING OWNERS TABLE	TAX PARCEL
A	SURFACE OWNER HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-10
	JOSEPH C. DREYER	12-15-10
В		
C	RODNEY A. CALVERT	12-10-29.3
D	RODNEY A. CALVERT	12-10-29.4
E	RODNEY CALVERT & ET AL	12-10-29.1
F	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-33
G	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-32
Н	SWN PRODUCTION COMPANY, LLC	12-10-27
1	ROBERT C. RITCHEA & JAMES L. RITCHEA	12-10-22
٦	ROBERT A, ROGERS & SUSAN J. ROGERS, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-21
K	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-23
L	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-20
М	MICHAEL ALLEN HUGGINS, PATRICK WANE HUGGINS &: JOSEPH DEAN HUGGINS	12-9-23
N	WAYNE L CODDARD	12-9-22
0	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-14
Р	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-13
Q	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-B
R	JAMES L. BITHELL, FATHER & CHRISTOPHER P. BITHELL, SON, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-37
5	JAMES L. BITHELL, FATHER & CHRISTOPHER P. BITHELL, SON, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-26
Ť	CLAUDIA MECKEL-JONAS; ROBERT MECKEL; & ASTRID MECKEL-HAUPT, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-27
U	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
٧	ROY L. WALTER, JR. & CHRIS WALTER, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-5-29
W	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
×	ROBERT A. STOUT & SHERI L. STOUT, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-3
Y	ROBERT A. STOUT & SHERI L. STOUT, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-2
Z	SWN PRODUCTION COMPANY, LLC	12-10-11
AA	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-16
AB	DARREN YOHO; KEYIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-18
AC	CORY DURIG & DAVID DURIG	01-07-2
AD	NORMA F. YOHO	01-07-40
AE	JACOB BICKERSTAFF & ANNA BICKERSTAFF, HUSBAND AND WIFE	12-10-29.2
AF	ERIC L. YEATER & AMANDA J. YEATER, HUSBAND AND WIFE	12-10-34
AG	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-11

08/24/2018

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

WW-6A1 (5/13)

Oı	perator's	Well No.	SWN A WTZ 3H

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached Exhibit

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Office of Oil and Gas

APR 3 0 2018

WV Department of Environmental Protection

Acknowledgement of Possible Permitting/Approval

In Addition to the Office of Oil and Gas

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

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

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

Well Operator: SWN Production Company, LLC.

By: Caleb Weaver - Senior Landman

Page 1 of _____

EXHIBII "A"	HIBIT "A	11
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Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator SWN A NORTH WTZ 3H

		SWN A	NORTH WTZ 3H		Щ Ž
#	TMP	LESSOR	LESSEE	ROYALTY	≥BK7PG
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	12.50%	Office of STAPR 3
		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	EX I to and made a part of the State of West Virginia Oil and	HIBIT "A" Gas Permit Form, WW-6A1 By SWN Production Perkins Oil and Gas, Inc., a West Virginia Corporation Stone Energy Corporation, a Delaware corporation Chesapeake Appalachia, LLC,, and Statoil USA Onshore Properties, Inc. SWN Production Company, LLC	Operator
		SWN A Carl D. Perkins and Dorothy Louise Perkins, his Warrel Co	Perkins Oil and Gas, Inc., a Westlyirginia 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
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)	12.50% Hope Natural Gas Company	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	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

	Attached	EX d to and made a part of the State of West Virginia Oil and SWN A Katherine A. Henry and Harry R. Cronin, Jr. Wetzel Co	HIBIT "A" I Gas Permit Form, WW-6A1, by SWN Production Co NORTH WTZ 3H	RESEIVED	APPS 0 2018 Department of
		Katherine A. Henry and Harry R. Cronin, Jr. Wetzel Co	Charles E. Reed and Kathryn C. Reed, husband and wife	Offic	51 2 /2 6
		Kathryn C. Reed, a widow and unmarried	Carl Perkins		55A/쥺
		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"

		EX	HIBIT "A"			
	Attached	d to and made a part of the State of West Virginia Oil and SWN A	I Gas Permit Form, WW-6A1, by SWN Production NORTH WTZ 3H	Company, Ll	ä	of ction
4	12-10-28	F.C. Emch and Thelma Emch, his wife; Jerald \(\forall \) end 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)	The Manufacturers Light and Heat Company	12.50%	PECEIVED Office of Oil and Give of Oil and Give of Oil and Give oil	WV Department of Environmental Protection
		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	

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator SWN A NORTH WTZ 3H

Chesapeake Appalachia, L.L.C. Columbia Gas Transmission Corporation SWN Production Company, LLC SWN Production Company, LLC 12-10-15 Iva Gray and Bud Gray, her husband; Jerald Yocum and Mildred Yocum, his wife; Alta Pyles, widow; Ocia Williams and Hobert Williams, her husband; Ica Harlan and Elmer Harlan, her husband; Arlie Young and V. A. Young, her husband; Lelah McIntire and Troy McIntire, her 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;	
12-10-15 Iva Gray and Bud Gray, her husband; Jerald Yocum and Mildred Yocum, his wife; Alta Pyles, widow; Ocia Williams and Hobert Williams, her husband; Ica Harlan and Elmer Harlan, her husband; Arlie Young and V. A. Young, her husband; Lelah McIntire and Troy McIntire, her 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	157A/540 φ
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	υ 188Α/278
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; Bradley F. Dement)	APR 3 0 2018 BECEIVED Office of Oil and Gas APR 3 0 2018 PR 3 0 2018 Protection
Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.	263/164 84A/129 402/446

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EXH	IBH	"A	

	Attached		NORTH WTZ 3H	Company, LLC,	Operator Se
		Chesapeake Appalachia, L.L.C. Wetzel Co	OLSWN Production Company, LLC		157 A 154 © 800 700 1 00 1
1	2-10-14	Chesapeake Appalachia, L.L.C. (Stone Hill Minerals Holdings, LLC)	Chesapeake Appalachia, L.L.C.	15.00%	30 2 artm
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		PR 3 Co
1	12-10-10	Chesapeake Appalachia, L.L.C. (Stone Hill Minerals Holdings, LLC)	Chesapeake Appalachia, L.L.C.	15.00%	Offige Vec 66 Of
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		167A/9
-	12-10-9	Ray C. Herman, single and Dail A. Herman, single (Rose Mary Herman; Bula Burton; Roger Amos; Bonita Sylvester Wilcox Lucas; Charles George Hunter; Faye Young; Ray Herman, JR.; Sharla Chapman; Faye Sturgis; Feryn L. Jones; Franklin B. Baker, III; Charles Herman Baker; Francis R. Goddard; Ronald Goddard; Wayne L. Goddard)	The Manufacturers Light and Heat Company	12.50%	45A/314 Ш
		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
1	12-10-13	Austin Miller and Artie Miller, his wife, and Lloyd Stewart, single (LL&B Investment Holdings, LLC; Reources Minerals Headwater I, LP)	The Manufacturers Light and Heat Company	12.50%	45A/472
		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

EXHIBIT "A"

	Attache		NORTH WTZ 3H	Company, LLC,	G G
10 12-10-10		Otis Simmons and Pearl Simmons, his wife; H참 영호 Co Simmons and Roxie Simmons, his wife; Roxie Newman and Archie Newman, her husband (Robert L. Newman; Lana May Giles; Everett Simmons)	12.50%	RECEIVED 1918 OF SULL SULL SULL SULL SULL SULL SULL SUL	
		Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		26
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		8 4 129
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		176A/747
		Columbia Gas Transmission Corporation	SWN Production Company, LLC		188A/278
11	12-9-15	Otis Simmons and Pearl Simmons, husband and wife; Harold Simmons and Roxie Simmons, husband and wife; and Archie Newman and Roxie Newman, husband and wife (Robert L. Newman; Lana May Giles; Everett Simmons)	The Manufacturers Light and Heat Company	12.50%	39A/499
		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
		Columbia Gas Transmission Corporation	SWN Production Company, LLC		188A/278
12	12-4-38	Emmit Burge and Sarah L. Burge, his wife (Onward E. Burge, Sarah L. Burge and Stephen W. Burge, Trustees of the Onward E. Burge Trust, dated June 21, 2010; Sarah L. Burge, Onward E. Burge and Stephen W. Burge, Trustees of the Sarah L. Burge Trust, dated June 21, 2010)	Chesapeake Appalachia, L.L.C.	12.50%	86A/202

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator SWN A NORTH WTZ 3H

		Chesapeake Appalachia, L.L.C. Wet	zel Cot SWN Production Company, LLC		157A/	/540	
12 12-4-38	Mark Massari, a married man dealing in his sole a separate property	nd Chesapeake Appalachia, L.L.C.	12.50%	99A/16			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		1579A/	/540	_
					RECEIVED Office of Oil and	APR 3 0 2018	



47 103 03232

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 4710303232

RE: SWN's proposed New Well: SWN A WTZ 3H 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

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APR 3 0 2018

WV Department of Environmental Protection

R2 20 V+°

4710303232 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

	11 3	a carrie		
Date of Notic	ee Certification: 4/27/(8		API No. 4	7- 103 -
	11-1-		Operator's	s Well No. SWN A WTZ 3H
			Well Pad I	Name: SWN A WTZ Pad
Notice has l	oeen given:			
Pursuant to th	e provisions in West Virginia Code § 22-6A,	the Operator has pro	vided the red	quired parties with the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia	UTM NAD 83	Easting:	530903.75
County:	103- Wetzel	UTMINAD 83	Northing:	4392590.69
District:	Proctor	Public Road Ac	cess:	Macedonia Ridge
Quadrangle:	Wileyville	Generally used	farm name:	SWN A
Watanakadı	Hansa Ohia Cauth			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Opthat the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	perator has attached proof to this Notice Certification and parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
2. NOTICE OF ENTRY FOR PLAT SURV	/EY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION		☐ RECEIVED
■ 5. PUBLIC NOTICE		☐ RECEIVED
■ 6. NOTICE OF APPLICATION	RECE Office of C	NEEECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

4710303232

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.

Well Operator: SWN Production Co., LLC

By:

Dee Southall

Its: Telephone: Senior Regulatory Analyst

NOTARY SEAL

BRITTANY R WOODY 3302 Old Elkins Rend Buckhamnon, WV 25201

304-884-1610

Address:

P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 30

304-884-1690

Email:

Dee_Southall@swn.com

Subscribed and sworn before me this

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas

APR 3 0 2018

WW-6A (9-13) API NO. 47- 103 OPERATOR WELL NO. SWN A WTZ 3H
Well Pad Name: SWN A WTZ Pad

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

Not	ice Time Requireme	nt: notice shall	be provide	ed no l	ater thai	n the filing	date of per	mit applica	tion.							
	e of Notice: ice of:	Date Permit	Application	on File	ed:											
INOU	PERMIT FOR ANY WELL WORK	· 	CERTIFIC CONSTRU				OR THE	OR PIT		47	1	0	3	0	3	2 3
Deli	very method pursua	nt to West Vi	rginia Cod	le § 22	-6A-10	(b)										
	PERSONAL SERVICE	REGISTE MAIL	RED				LIVERY TI			1						
the soil addescript ad	ment control plan requisurface of the tract on vand gas leasehold being tribed in the erosion and rator or lessee, in the every ecoal seams; (4) The compared work, if the surface trace to a water well, spring out of the work activity ection (b) of this section of the sheriff requires on the section of this article to the R. § 35-8-5.7.a require purveyor or surface of	which the well is developed by a developed in section water supply a developed by humans y is to take place on hold interest red to be maint the contrary, no dires, in part, the owner subject to	s or is proportion plan sulfilliand on which do for the plan in nine of this source location. (c) (1) If it is in the land ained pursuatice to a lieut the operation notice and	osed to d well should be with the face tracement is artice anim more that the sant to	be loca work, if d pursuant well product or trant, t, constru- le; (5) A hin one t als; and nan three applican section e er is not ll also pr testing a	ted; (2) The the surface int to subset oposed to be cts overlying uction, enlar in surface thousand fire (6) The ope tenants in the may serve eight, article notice to a provided the Vas provided	e owners of r tract is to be etion (c), sect e drilled is lo g the oil and rgement, alte owner or wal we hundred for erator of any common or of the docume one, chapter landowner, u Vell Site Safe in section 15	ecord of the used for roation seven of cated [sic] is gas leaseho eration, repairer purveyor eet of the cer natural gas so ther co-own ints required releven-a of inless the lies by Plan ("W of this rule	surface ads or or of this art is known is the inguir, remowho is the inter of the interior interior in the	tract of ther landicle; (3 in to be a development of a known the well field with the rest of the control of the	r tradid did a did	ets of isturing control of the application of the a	banco al overline in by the present poplicion i ich ti ich ti bed in bed	ying to e as wher, one of art to s used in the ling a wear to s we will be a will be a wear to s we will be a wear	or sed by die to	
☑ SI Nan	Application Notice [URFACE OWNER(s) ne: SWN Production Compa)	ce □E&S	S Plan	Notice	☑ COAL Name: _CI	lat Notice OWNER OF X Gas Compan 1000 Consol Er	R LESSEE		to: WV Viron	D	35 -				tion
Hous Nan	ress: PO Box 672625 ton, TX 77267 ne:					Canonsburg COAL Name:	PA 15317 OPERATOR	₹						700		uor
Nan Add Nan	URFACE OWNER(s) ne: lress: ne:				e)	SURFA AND/OR Name: N	CE OWNE WATER PU	R OF WAT JRVEYOR	ER WE	ELL						
Add ——Sl Nan	Iress:URFACE OWNER(s) ne: Iress:) (Impoundmer	nts or Pits)			Name: Address:	TOR OF A					AGE	FIE	LD		
						*Please a	tach additio	nal forms if	necess	ary						

47 103 03232

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

API NO. 47- 103

OPERATOR WELL NO. SWN A WTZ 3H

Well Pad Name: SWN A WTZ Pad

Notice is hereby given:

471030323

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 measure. In the submission of a plan identifying sufficient measure. employed during well site construction, drilling and operations to protect the waters of the station will granted shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall be particled by 2, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the thinking of paragraph wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47- 103 OPERATOR WELL NO. SWN A WTZ 3H

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 RECEIVED authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

WV Department of Environmental Protection

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

API NO. 47-103 - 03 Z 3 Z

OPERATOR WELL NO. SWN A WTZ 3H

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.

RECEIVED

Office of Oil and Gas

APR 3 0 2018

API NO. 47- 103

OPERATOR WELL NO. SWNAWTZ3H

Well Pad Name: SWN A WTZ Pad

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.

Notary Public. State of West Virginia BRITTANY R WOODY 3002 Old Elkins Road Buckhannon, WV 28201 commission excites November 27, 2022

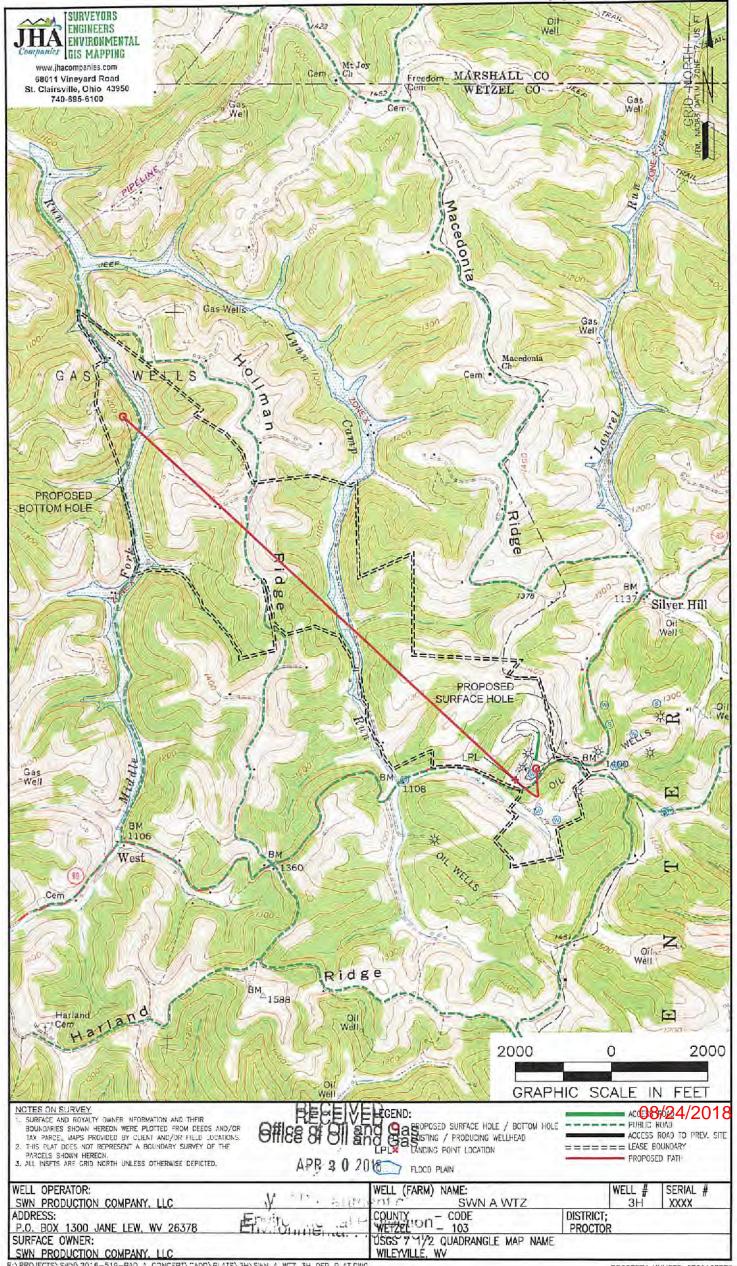
Subscribed and sworn before me this 13th day of 1100 and 3018

Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

APR 3 0 2018



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

Notice Time E	Requirement:	Notice shall be prov	ided at least	SEVEN (7) da	ays but no more the	an FORTY-FIVE (45)	days prior to
entry Date of Notice	10/18/2017	Date of Plan	ned Entry:	10/25/2017			
Delivery meth	od pursuant t	to West Virginia Co	ode § 22-6A-	-10a			
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Notice is herel	by provided to):					4.
■ SURFACE	E OWNER(s)			■ COA	L OWNER OR LI	ESSEE	
Name: Troy Sider					X Gas Company, LLC		
Address: 14303					1000 Consol Energy Driv	e	
New Martinsville, WV				Canonsburg,	PA 15317		
Address:				■ MIN	EDAT ONDERO		
71dd1033.			-		ERAL OWNER(s))	
Name:		1.0	-		th Ann Calvert 12866 Shortline Hwy. Apr	. #2	
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Charleston, WV	d from the Sec 7 25304 (304-	d Sediment Control cretary, at the WV D 926-0450). Copies y visiting <u>www.dep.</u>	epartment of of such docu	Environmenta ments or addit	al Protection heado	oil and ga s uxil(reil)/(a Located of 601 related to horizontal diff	Street, SE,
Notice is here	hy given be					APR 2 0 20	18
Well Operator:	7	ON COMPANY, LLC		Address:	200.00	110	
Telephone:	304-884-1610	ON COMPART, LLC		Address:	PO BOX 1300	WV Departme	ent of
Email:		n.com or brittany_woody@s	wn.com	Facsimile:	JANE LEW, WV 2037	hvironmental Pr	otection
		7					

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA 47 1 0 3 0 3 2 3 2

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

Notice Time	Requirement:	Notice shall be provi	ded at	least SEVEN (7) da	ays but no more tha	n FORTY-FIVE (45) days prior to
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Notice is her	eby provided t	0:				
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	Proctor			_ Watershed:		Fish Creek
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Charleston, Woobtained from	VV 25304 (304- the Secretary b	eretary, at the WV Dec- 926-0450). Copies of y visiting <u>www.dep.</u>	partme of such	ent of Environmenta documents or addit	al Protection headquional information re	il and gas exploration and production parters, locate GE 60/ E7 Street, SE, element de la company de
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Well Operato	1	ION COMPANY, LLC		Address:	PO BOX 1300	***
Telephone: Email:	304-884-1510			_	JANE LEW, WV 25378	- opartificini
eman:	dee_southall@sw	n.com or brittany_woody@sw	m.com	Facsimile:	E	nvironmental Protection
Oil and Gas	Privacy Noti	ce:				- Na Frotection

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

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

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Code § 22-6A-10(a), notice is	hereby given that the un	ndersigned well	l operator is planning entry to conduct
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	D 111 D 11		39.684757, -80.640554 Rt. 89
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Secretary, at the WV Departm	ent of Environmental Pro documents or additional	otection headqu Linformation re	il and gas exploration and production narters, located at 601 57 th Street, SE, elated to horizontal drilling may be
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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.

WV Department of Environmental Protection

STATE OF WEST VIRGINIA 47 10 3 0 3 2 3 2

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

	Requirement:	Notice shall be prov	ided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
entry Date of Noti	ice: 10/18/2017	Date of Plan	nned Entry: 10/25/2017
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			July 22-07-104
L PERSO		REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIO	CE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
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Notice is her	eby provided to	0:	
☐ SURFA	CE OWNER(s)		☐ COAL OWNER OR LESSEE
Name:			
Address:			Address:
Name:			
Address:			_ MINERAL OWNER(s)
Vame:			
Address.			Address: 426 Hook Street
			#please attach additional forms if necessary
Pursuant to V	on the tract of la	and as follows:	Public Road Access: Rt. 89
Quadrangle:	Proctor		
Quadrangie.	Wileyville		Generally used farm name: SWNAWTZ Pad
		nd Sediment Control	Manual and the statutes and rules related to oil and gas exploration and production
Charleston, Voltained from	VV 25304 (304- n the Secretary b	eretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmental Protection headquarters, located at 601 57 th Street, SE, of such documents or additional information related to horizontal drilling may be www.gov/oil-and-gas/pages/default.aspx .
hay be obtain Charleston, V obtained from Notice is he	NV 25304 (304- n the Secretary bereby given by	eretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be wv.gov/oil-and-gas/pages/default.aspx .
Thay be obtain Charleston, Voltained from Notice is he Well Operato	VV 25304 (304- n the Secretary b creby given by STE SWN PRODUCT	eretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to havizantal drilling may be
hay be obtain Charleston, V obtained from Notice is he	VV 25304 (304- n the Secretary b creby given by SWN PRODUCT 304-884-1610	eretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmental Protection headquarters, located at 601 57 th Street, SE, of such documents or additional information related to horizontal drilling may be www.gov/oil-and-gas/pages/default.aspx . Address: FO BOX 1300 JANE LEW, WV 26378

The Office of Oil and Gas processes your personal information, such as name, address and telephone hunder, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third partice of the process of the partice of the particle of the particle

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

Notice Time entry	Requirement:	Notice shall be prov	ided at least SEVEN (7)	days but no more tha	an FORTY-FIVE (45) days prior	to
	ice: 10/18/2017	Date of Plan	aned Entry: 10/25/2017			
Delivery me	thod pursuant	to West Virginia Co				
_						
☐ PERSO		REGISTERED		ELIVERY THAT R		
SERVI	C.B.	MAIL	RECEIPT OR SI	GNATURE CONFI	RMATION	
on to the sur- but no more beneath such bwner of mir and Sedimen Secretary, when able the su	tace tract to condition forty-five distract that has filterals underlying t Control Manualich statement slurface owner to o	ays prior to such ent ed a declaration pur- g such tract in the co and the statutes an hall include contact in btain copies from the	s required pursuant to this ry to: (1) The surface ow suant to section thirty-six unty tax records. The no d rules related to oil and information, including the	sarticle. Such notice ner of such tract; (2) , article six, chapter tice shall include a si	or shall provide notice of planned e shall be provided at least seven da to any owner or lessee of coal sea twenty-two of this code; and (3) ar tatement that copies of the state Er production may be obtained from to page on the Secretary's web site, to	nys nms ny rosion
	reby provided to	:				
	CE OWNER(s)			AL OWNER OR LE	ESSEE	
Vame:			. Name:		BECEN	
address:			Address	V		ED
Jame.			-		Office of Oil ar	nd G
Address:			. III MI	NERAL OWNER(s)		
					APR 3 0 20	10
Jame:			Address	Nancy G Metheny 3948 N. Park Ave		
Address:			Warren, O		WV Denort	
			*please at	tach additional forms if no	WV Departme	nt o
STREET STREET					vvv Departme eccssary Environmental Pro	oteci
Notice is he	reby given:	1 0 00 M D 200 D				
'ursuant to V	Vest Virginia Co	de § 22-6A-10(a), n	otice is hereby given that	the undersigned wel	ll operator is planning entry to con-	duct
tate:	on the tract of la	ind as follows:				
County:	Wetzel			titude & Longitude:		
istrict:	Proctor				Rt. 89	
uadrangle:			Watershed:		Fish Creek	
3	2000		Generally t	sed farm name:	SWN A WTZ Pad	
opies of the	VV 25304 (304-	926-0450). Copies	epartment of Environmen	ital Protection headq	oil and gas exploration and product quarters, located at 601 57 th Street, related to horizontal drilling may b	CIZ
marieston, v	the Secretary b	-				
btained from	i the Secretary b					
btained from	reby given by:		1011			
btained from Votice is he Vell Operato	reby given by:		Address:	PO BOX 1300		
btained from	reby given by: SWN PRODUCT: 304-884-1610			PO BOX 1300 JANE LEW, WV 26378	3	

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

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to

entry Date of Noti	ce: 10/18/2017	Date of Pla	nned Entry: 10/25/2017		
Delivery me	thod pursuant	to West Virginia C	ode § 22-6A-10a		
☐ PERSO		REGISTERED MAIL		DELIVERY THAT RI	
but no more of beneath such owner of min and Sediment Secretary, when able the sur	trace tract to conthan forty-five of tract that has finerals underlying t Control Manualch statement s reface owner to	duct any plat survey days prior to such en iled a declaration put g such tract in the coal and the statutes are shall include contact obtain copies from the	Prior to filing a permit is required pursuant to try to: (1) The surface resuant to section thirty-ounty tax records. The drules related to oil ar information, including	application, the operato his article. Such notice owner of such tract; (2) six, article six, chapter notice shall include a st	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal scams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the page on the sevices of well significated.
Notice is her	eby provided	to:			APR 3 0 2018
Name:	CE OWNER(s)		Nam	COAL OWNER OR LE e:ess:	Environmental D
Name:Address:				MINERAL OWNER(s)	
Name: Address:			Addr	e: Vicki Forrester ess: HC 74 Box 66 W 26320 e attach additional forms if ne	PCESSATV
Notice is he Pursuant to W a plat survey State: County: District: Quadrangle:	Vest Virginia Con the tract of l wv Wetzel Proctor	ode § 22-6A-10(a), r and as follows:	notice is hereby given the Approx. Public R Watershe	nat the undersigned well Latitude & Longitude: oad Access:	ll operator is planning entry to conduct
Charleston, W	VV 25304 (304	-926-0450). Copies	Department of Environm	nental Protection headq	il and gas exploration and production uarters, located at 601 57 th Street, SE, related to horizontal drilling may be
Notice is he Well Operator Telephone:		7: TION COMPANY, LLC	Addres		
Email:	304-884-1610 dee_southall@s	wn.com or brittany_weedy@s	swn.com Facsim	JANE LEW, WV 26378	
07. 10					

Oil and Gas Privacy Notice:

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4710303232 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-

Notice Time	Requirement: Notice shall be provided	I at least TEN (10) days prior to filing a	1 /
Date of Notic	ee: 03/08/2018 Date I	Permit Application Filed:	01110
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		EQUESTED	
receipt request drilling a hore of this subsect subsection materials and if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provide by be waived in writing by the surface of the, facsimile number and electronic main	wher notice of its intent to enter upon the pursuant to subsection (a), section to led to the surface owner: <i>Provided, how</i> when. The notice, if required, shall included address of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements vever. That the notice requirements of this tude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE C oduction Company, LLC	Name:	
Address: PO E		Address:	
Houston, TX 772		Tradition .	
County: District:	Wetzel Proctor	UTM NAD 83 Rasting: Northing: Public Road Access:	4,392,590.69 Macedonia Ridge
		Nortning:	
Quadrangle:	Wileyville, WV	Generally used farm name:	SWN A WTZ
Watershed:	Upper Ohio South	Generally used farm fiame.	O'MATTLE .
Pursuant to V facsimile nun related to hor	nber and electronic mail address of the izontal drilling may be obtained from	e operator and the operator's authorize the Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
ocated at 001			
Notice is he	reby given by:		
Notice is he	reby given by: T: SWN Production Company, LLC	Authorized Representative:	Steve Teel
Notice is he		Authorized Representative: Address:	Steve Teel PO Box 1300, 179 Innovation Drive
Notice is he Well Operato Address:	SWN Production Company, LLC	Address:	
Notice is he Well Operato Address: Felephone:	PO Box 1300, 179 Innovation Drive	Address: Telephone:	PO Box 1300, 179 Innovation Drive
Notice is he Well Operato Address: Felephone: Email:	SWN Production Company, LLC PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378	Address: Telephone: Email:	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378
Notice is he Well Operato Address: Felephone:	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 832-540-1136	Address: Telephone:	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 832-540-1136

duties. Your personal information may be disclosed to other State agencies or third parties in the hopping 2000sc 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 on your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. Environmental Protection

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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner. Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 04/17/2018 Date Permit Application Filed: Delivery method pursuant to West Virginia Code § 22-6A-16(b) ☐ HAND ■ CERTIFIED MAIL RETURN RECEIPT REQUESTED DELIVERY Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: CNX Gas Company, LLC Name: Address: 1000 Consol Energy Drive Address: Canonsburg, PA 15317 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Easting: 530,903.75 UTM NAD 83 County: Wetzel Northing: 4,392,590.69 District: Proctor Public Road Access: Macedonia Ridge Quadrangle: Wileyville, WV Generally used farm name: SWN A WTZ Watershed: Upper Ohio South This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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. Notice is hereby given by: Well Operator: SWN Production Company, LLC Authorized Representative: Steve Teel Address: Address: PO Box 1300, 179 Innovation Drive PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378 Jane Lew, WV 26378 Telephone: Telephone: 832-540-1136 832-540-1136 Email: Email: Steve Teel@swn.com Steve Teel@swn.com Facsimile: 304-884-1691 Facsimile: 304-884-1691

Oil and Gas Privacy Notice:

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WW-6A5 (1/12)

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

	me Requirement: lotice: 04/17/2018			ater than the filing lication Filed:	date of permit	application. 1030323
Delivery	method pursuant	to West Virginia	Code § 22-	-6A-16(c)	, ,	
	RTIFIED MAIL TURN RECEIPT R	EQUESTED		IAND DELIVERY		
retum rec the plann required t drilling o damages	eipt requested or hat ed operation. The to be provided by sufficient a horizontal well; to the surface affect offices required by the	and delivery, give notice required labsection (b), sect and (3) A proposed by oil and gas	the surface by this substion ten of the osed surface operations	owner whose lan- section shall inclu- his article to a surf- e use and compen- to the extent the d	d will be used for de: (1) A copy ace owner whose sation agreement amages are comp	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
(at the add Name: CN	hereby provided to Iress listed in the re X Gas Company, LLC			e of notice): Name:		
Addrone	1000 Consol Energy Drive			Addres	s:	
Canonsburg Notice is	PA 15317 hereby given:	nde 8 22-64-16(c) notice is h		he undersigned t	well operator has developed a planued
Notice is Pursuant operation State:	, PA 15317 hereby given: to West Virginia Co			nereby given that the drilling a horizontal	nl well on the tra Easting:	well operator has developed a planned act of land as follows: 530,903.75
Notice is Pursuant operation State: County:	hereby given: o West Virginia Co on the surface owr West Virginia Wetzel			nereby given that the drilling a horizonta UTM NAD 8	al well on the tra Basting: Northing:	act of land as follows: 530,903.75 4,392,590.69
Notice is Pursuant operation State: County: District:	hereby given: o West Virginia Co on the surface owr West Virginia Wetzel Proctor			nereby given that the drilling a horizonta UTM NAD 8	al well on the tra Basting: Northing: Access:	tot of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge
Notice is Pursuant operation State: County: District: Quadrang	hereby given: o West Virginia Co on the surface owr West Virginia Wetzel Proctor Wileyville, WV			nereby given that the drilling a horizonta UTM NAD 8	al well on the tra Basting: Northing:	act of land as follows: 530,903.75 4,392,590.69
Notice is Pursuant operation State: County: District: Quadrang Watershed This Notice Pursuant to be prochorizontal surface affinformaticheadquart	hereby given: to West Virginia Co on the surface own West Virginia Wetzel Proctor le: Wileyville, WV d: Upper Ohio South ce Shall Include: to West Virginia Co vided by W. Va. G well; and (3) A pr ffected by oil and g on related to horizo ers, located at 601	ode § 22-6A-16(c) Code § 22-6A-10(o) oposed surface usus operations to ontal drilling may	e), this notice (b) to a sur- se and comp the extent to the obtained	ereby given that the drilling a horizontal UTM NAD 8 Public Road Generally us the shall include: (1) face owner whose the damages are controlled the secretary of the secretary	Al well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be unit containing an ompensable und tary, at the WV	tot of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge
Notice is Pursuant operation State: County: District: Quadrang Watershed This Noti Pursuant to be pro horizontal surface at informatic headquart gas/pages	hereby given: to West Virginia Co on the surface owr West Virginia Wetzel Proctor le: Wileyville, WV d: Upper Ohio South ce Shall Include: to West Virginia Co well; and (3) A pr fected by oil and g on related to horizo ers, located at 601 /default.aspx.	ode § 22-6A-16(c) Code § 22-6A-10(c) coposed surface us as operations to ontal drilling may 57th Street, SE,	e), this notice (b) to a sur- se and comp the extent to the obtained	ereby given that the drilling a horizontal UTM NAD 8 Public Road Generally us the shall include: (1) face owner whose the damages are conditionally to the shall include owner whose the damages are conditionally the shall include owner whose the damages are conditionally the shall include owner whose the damages are conditionally the shall be shall include on the shall include on the shall be shall include on the shall be shall include on the shall be shall b	Al well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	act of land as follows: 530,903.75 4,392,590.69 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 ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is Pursuant operation State: County: District: Quadrang Watershed This Noti Pursuant of be prohorizontal surface all informatic headquart gas/pages Well Ope	hereby given: to West Virginia Co on the surface own West Virginia Wetzel Proctor le: Wileyville, WV di: Upper Ohio South ce Shall Include: to West Virginia Co vided by W. Va. (well; and (3) A pr fected by oil and g on related to horizo ers, located at 601 /default.aspx.	ode § 22-6A-16(c) Code § 22-6A-10(c) coposed surface us as operations to ontal drilling may 57th Street, SE,	e), this notice (b) to a sur- se and comp the extent to the obtained	ereby given that the drilling a horizontal UTM NAD 8 Public Road Generally us the shall include: (1) face owner whose the damages are controlled the secretary of the secretary	Al well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	act of land as follows: 530,903.75 4,392,590.69 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 ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-nnovation Drive
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APR 3 0 2018

WV Department of Environmental Protection WW-6A5 (1/12)

STATE OF WEST VIRGINIA 47 1 0 3 0 3 2 3 2 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 2 3 2 NOTICE OF PLANNED OPERATION

Date of Noti	ce: 03/08/2018 Date Pe		. /	
Delivery me	thod pursuant to West Virginia	Code § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to tl (d) The notice of notice.	requested or hand delivery, give to operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	the surface owner whose land of this subsection shall include to the of this article to a surface sed surface use and compensate operations to the extent the dance given to the surface owner at	will be used for e: (1) A copy ce owner whose tion agreement mages are comp	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
	is listed in the records of the sherif			
And the second second second				
Name: SWN Pr	oduction Company, LLC	Name:		
Name: SWN Pr Address: PO t		Name:		
Address: PO t Houston, TX 7720	oox 672625 67 eby given:	Address:		well assesses has developed a planted
Address: POt Houston, TX 7720 Notice is her Pursuant to W operation on State: County:	oox 672625 67 eby given:	Address: notice is hereby given that the urpose of drilling a horizontal to UTM NAD 83	undersigned well on the tra Easting: Northing:	well operator has developed a planned let of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge
Address: POt Houston, TX 7720 Notice is her Pursuant to W operation on State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Wetzel	Address: notice is hereby given that the urpose of drilling a horizontal to UTM NAD 83 Public Road Address:	e undersigned well on the tra Easting: Northing: ccess:	tet of land as follows: 530,903.75 4,392,590.69
Address: PO t Houston, TX 772 Notice is her Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Wetzel Proctor	Address: notice is hereby given that the urpose of drilling a horizontal to UTM NAD 83	e undersigned well on the tra Easting: Northing: ccess:	act of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge
Address: POt Houston, TX 7720 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the public limits with the surface owner's land for the public limits with the surface owner's land for the public limits with the land of the public limits with the land land land land land land land land	Address: notice is hereby given that the urpose of drilling a horizontal way and the compose of drilling a horizontal way at the control of the control of the composition and compensation agreement the extent the damages are compositioned from the Secretar	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this a land will be us containing an inpensable und ry, at the WV	act of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge
Address: PO the Houston, TX 7724 Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Work to be provided horizontal work surface affect information releadquarters, gas/pages/def	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pure West Virginia Wetzel Proctor Wileyville, WV Upper Ohio South Shall Include: Vest Virginia Code § 22-6A-16(c), and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	Address: notice is hereby given that the urpose of drilling a horizontal way and the compensation agreement the extent the damages are combe obtained from the Secretar Charleston, WV 25304 (3)	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this a land will be us containing an inpensable und ry, at the WV	sct of land as follows: 530,903.75 4,392,590.69 Macedonia Ridge SWN A WTZ code section; (2) The information required used in conjunction with the drilling of a coffer 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-
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APR 3 0 2018

WV Department of Environmental Protection

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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 3H

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.

APR 3 0 2018

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Day K. Clayton

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

	FRAC A	DDITIVES		
Product Name	Product Use	Chemical Name	CAS Number	
		Hydrogen Peroxide 47 1	↑ 7782-84-1€	97
EC6734A (Champion Technologies)	Biocide	Acetic Acid	07782-84-3	23
		Peroxyacetic Acid	79-21-0	
		Methanol	67-56-1	
SYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary	1
		Glutaraldehyde	111-30-8	
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1	
		Ethanol	64-17-5	
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1	
		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1	
FCC40C4	C - 1 - 1 - 1 - 1 - 1	Amine Triphosphate	Proprietary	
EC6486A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1	
WEDA 2000	Animaia Patatiana Paul	Hydrotreated light distillate (petroleum)	64742-47-8	
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9	
		Ethylene glycol	107-21 1	
		Cinnamaldehyde	104-55 2	
Al 202	B. A	Butyl cellosolve	111-76 2	
Al-303 (U.S. Well Services)	Mixture	Formic acid	64-18 6	
		Polyether	Proprietary	
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1	
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0	
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8	
		Methanol	67-56-1	
		Oxyalkylated fatty acid	68951-67-7	
		Fatty acids	61790-12-3	
F 01000	0	Modified thiourea polymer	68527-49-1	
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Water	7732-18-5	
		Hydrochloric acid	7647-01-0	
		Potassium acetate	127-08-2	
		Formaldehyde	50-00-0	
		Acetic Acid	64-19-7	
Ecopol-FEAC (SWN Well Services)	Iron Control	Citric Acid	77-92-9	
		Water	7732-18-5	
HCI /gramma is a	المراجعة عادمان	Hydrochloric Acid	7647-01-0	
HCL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5	
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary	
		Distillates (petroleum) hydrotreated light	64674-47-8	
		Ethylene Glycol	107-21-1	
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Alcohols, C12-16, Exoxylated propoxylated	68213-24-1	
		Fatty Alcohols ethoxylated	Proprietary	
		Water Office of	7732-18-5	30
	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	18
ED_76 (1)=100-1-11	rriction reducer	Inorganic Salt A.D.D.	Proprietary	
FR-76 (Halliburton)		X13131		
FR-76 (Halliburton) HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	A V N/A	
		No hazardous substance Polyacylate Hydrotreated light petroleum distillate	Proprietary	†
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	Proprietary	t tion

NOTES:

- 1 THIS FLANTS FOR GRADING, STORMWATER BYSTEMS, AND EROSION AND SECUMENT CONTROL PURPOSES ONLY
- 1. PROPERTY INFORMATION SHOW! HEREON IS FROM GIS DATA PROVIDED BY SOUTHWESTERN ENERGY PRODUCTION COMPANY AND HAS NOT BEEN PIELD VERIFIED. 3. THE GONTRACTOR SHALL REFER TO DIMER PLANS WITHIN THIS SET 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 TEREON WERE ACQUIRED FROM NACS WEB SOIL SURVEY
- THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT. DATED MARCH 21, 2017 PROVIDED BY GTAILNERGY, LEG FOR FULL SQUISTABILIZATION 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 OF 2017 TO JUNE 28, 2019. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WY CIS TECHNICAL CENTER
- NO TOPSION RUMOVAL DETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE
- VEGETATIVE BUFFER TO REMAIN

 II. FILL WILL BE COMPACTED TO 85% OF STANDARD PROCTOR DENSITY (ASTM-698), FILL LIFT THICKNESS WILL HE NO GREATER THAN 12", NOTHING PROZEN 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

ENGINEER'S ESTIMATE OF	THOMAS	_
DESCRIPTION	ES HMA LED QUANTITY	UNIT
ter bitMedia ti Apria de Strok	116	UF.
AT DOMPOST IN THE BOOK	akn.	LE.
FUEN CONSTRUCTION PATRAMET RATAGGREGATE	144	E4
(LASS & DEGITEATE E NARROW UNIDER: AVMENT)	414	37
SITE RESOLARSA	7,4	AC
PROPOSED STORW CATCHIASING	9	EA
15) OPE STORM PIPE (CDC TAND 3)	1025	1,k
P (PDP STORM PIPE ACTIVITY)	400	10.
CUTLET PROTECTION	7.	6A
If PFRR, IVC 5CH (0 PFR, PAD WIDERDRAW)	1.05	- 1E
E SOLD EVE SCH 40 PIPE (CATCH BASIN DUTLET)	407	1Fr
WELL-PAID PERIMETER BERM	1,746	LF
**CATENALYES	8/	ĒÁ
FREITH TYC SURFERENCE DECEMBERS DROWN	3,616	LF
6" SOLID PYO STIR IS WERE IREACH DRAIN COLLECTION)	tea	LF
MAS THO MY TEENOH DRAIN BEDDYNG)	1,440.	TONS
INC HEAVY DUTY #467 STONE (6")	1.078	Tr.
PAU HEAVY DUTY #1.5TOPIE (14")	7.496	79
PAD STANCARD #467 STONE (4*)	2,776	79
PAG STARGARD #1 STORE (12)	1,285	259
ADDESS ROAD MERSIONE (P)	250	=34
ACCERS HOAZ # I STOKE (12)	965	cy
PAD CLASS 2 DEGTEXTLE	15 640	57
ADDÉSS ROAD CLASSU GROTEXTILE	15,300	-15Y
EARTHMORK VOLUMES OUT	97,625	- SY
EARTH/YORK VOLUMES FILL	\$4,066	ur
WELLICELARS	16	FV
GEOGRIEI (MIRAGRID SKT OR EQUIVALENT)	3340	59
CLEARING AND GRUBBING	1.8	AC

EROSION AND SEDIMENT CONTROL PLAN FOR SWN PAD A

PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA



APPROVED WVDEP OOG

21 1 8/6/2018

SWN PAD A ONLY - 6.61 ACRES

SWN A STAGING PAD ONLY - 6.15 ACRES

SWN PAD A TOTAL PROJECT - 12.77 ACRES

COORDINATES:

PAD 1 SITE ENTRANCE (EB CAN) LAT: 39,682481 LONG: -80.638975

CENTER OF PAD 1 (EB CAN) LAT: 39.682509 LONG: -80.639728

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

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

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

BICKERSTAFF, JACOB AND ANNA TMP # 12-10-0029,0002 LIMIT OF DISTURBANCE = 13.15 ACRES

DWG NO	DRAWING DESCRIPTION
C 001	COVER SHEET
C 002 - C 003	EVACUATION ROUTE / PREVAILING WINDS
C.101 - C.102	EXISTING CONDITIONS
C.201 - C.202	GRADING AND EROSION CONTROL PLANS
0.301 - G.302	RECLAMATION PLANS
GA01 - CA11	SLOPE STABILIZATION DETAILS & PROFILES
C.501 - C.523	DETAILS

	Silv	PROJEI
T 89	1 20	LCCATION MAP NOT 10 SCALE
GENERAL HIGHWAY MAP WETZEL COUNTY SCALE: 3"=1 M-LE WEST VIRGINIA	1 05/02/18 NO. DATE	REVISED PER DEPICES DESCRIPTION 2 WORKING DAYS BEFORE YOU DAY CALL TOLL FREE

800-245-4848 Miss Litility of West Virginia PREPARED FOR:

Southwestern Energy



SURVEYORS ENGINEERS A ENVIRONMENTAL IGIS MAPPING

www.jhacompanies.com

68011 VINEYARD ROAD ST. CLAIRSVILLE, OH 43950 (740) 595-5100 DH . W. .

SAN PAD A 05/03/2015 AS NOTED CONSTRUCTION PLANS SWN PAD A

LOCATED IN PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINA

COVER SHEET PLAN STATUS

C.001

PROJECT NARRATIVE PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS CRAWING SET (43 PAGE SHEET SET UATED 2018-07-17 & REVISIONS DATED 2018-08-03) AND THE GEOTECHNICAL ENGINEERING REPORT (GTA ENERGY, LLC REPORT), WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORCE / EFFECT IN DEFINING THE REQUIREMENTS FOR THE PROJECT. IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR INTERPRETATION

PROJECT CONTACTS

CPERATOR: SOUTHWESTERN ENERGY, ILC. 179 INNOVATION DRIVE JANE LEW, WV 26378 PHONE. (304) 884-1618 WWW SWN COM

PROJECT COORDINATOR

SOUTHWESTERN ENERGY, LLC OPERATIONS ANALYST VIND MOTAVOMMEN JANE LEW, WV 26378 PHONE: (304) 384-1696 EMAIL KALAB TAYLOR@SWN.COM ENGINEER JHA COMPANIES 68011 VINEYARD ROAD ST. CLAIRSVILLE, OHIO 43950 PHONE-1740\ 635-6100

LAX: 17401-449-2545 PROJECT MANAGER:

ENVIRONMENTAL:
WETCANDS ON SURFACE WATER
INFORMATION WAS DELINEATED
BY AJAY ENVIRONMENTAL CONSULTING, LLC DATE OF THE CLARY 16, 2018 AND RULY 10,

TOPOGRAPHIC INFORMATION: GROUND SURVEY DATED JANUARY 28, 2015. DATUM: HCRZ, NAD 53 WEST VIRGINA NORTH VERT, NAVO 88

