

# 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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, October 4, 2021 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 201H

47-103-03452-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: SWN A WTZ 201H

Farm Name: SWN PRODUCTION COMPA

U.S. WELL NUMBER: 47-103-03452-00-00

Horizontal 6A New Drill Date Issued: 10/4/2021

API Number:	
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# **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.

# 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, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15) 4710303452

API NO. 47-009 -

OPERATOR WELL NO. SWN A WTZ 201H
Well Pad Name: SWN A WTZ Pad

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

1) Well Operato	r: SWN P	roduction C	o., LLC	494512924	103-Wetzel	7-Proctor	681-Wileyville
,				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number	SWN A W	TZ 201H	Well Pad	Name: SWN	A WTZ Pa	d /
3) Farm Name/S	Surface Own	ner: SWN Produ	uction Compa	ny, LLC Public Roa	d Access: Mac	edonacki	dge Road
4) Elevation, cur	rrent ground	l: <u>1343'</u>	El	evation, proposed	post-construction post-constru	A./.6 1343	ED State
5) Well Type	(a) Gas	X	_ Oil	Unde	erground Storag	\$€ <sub>e,p,z,z</sub>	?1
	Other			<del></del>	····	Dental Plant of	
	(b)If Gas	Shallow	<u>x</u>	Deep		· · · · · · · · · · · · · · · · · · ·	n
		Horizontal	x				
6) Existing Pad:	Yes or No	Yes			-		
, .	•	•	• • •	ipated Thickness a VD- 7354', Target Base TV	•		Associated Pressure- 4810
8) Proposed Tot	al Vertical I	Depth: 738	4' /			٠.	
9) Formation at			Marcellus	3			
10) Proposed To	otal Measure	ed Depth:	16,706'				
11) Proposed Ho	orizontal Le	g Length:	8553.37'				
12) Approximate	e Fresh Wat	er Strata De	pths:	307'			
13) Method to D	Determine Fi	esh Water D	epths:	Salinity Calculations	from SWN A V	VTZ 3H logs	(API 47-103-03232)
14) Approximate	e Saltwater	Depths: 13	42' Logs	will be run for a sa	linity profile and	alysis	
15) Approximat	e Coal Sean	Depths: 1	246'				
16) Approximat	e Depth to F	Possible Void	d (coal mi	ine, karst, other):	None that we a	are aware	of.
17) Does Propos directly overlying				ms Yes	No	<u>x</u>	
(a) If Yes, prov	vide Mine Ir	nfo: Name:					
		Depth:	·				
		Seam:					· · · · · · · · · · · · · · · · · · ·
		Owner	r:				

WW-6B (04/15)

API NO. 47- 009

OPERATOR WELL NO. SWN A WTZ 201H

Well Pad Name: SWN A WTZ Pad

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (R)	CEMENT: Fill-up
Conductor	20"	New	J-55	94#	126'		CTS
Fresh Water	13 3/8"	New	H-40	48#	380'	2888' /	380 sx/CTS
Coal	See	Interm	Casing			Mal Prote	
Intermediate	9 5/8"	New	J/K-55	36/40#	2888'	2888' / "	1011 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	16706'	16706' <	Tail 2849sx/ 100' Inside Intermediate
Tubing							
Liners						,	

Byan Ham 5-3-21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360 /	10500 ′	Class A	1.19/5% Excess
Tubing							
Liners							

# **PACKERS**

Kind:		
Sizes:		
Depths Set:		

WW-6B (10/14) API NO. 47-009 OPERATOR WELL NO. SWN A WTZ 201H

Well Pad Name: SWN A WTZ Pad

19) Describe proposed well work, including the drilling and plugging back	of any pilot	t hole:
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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 suitace 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 a constructed deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

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

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

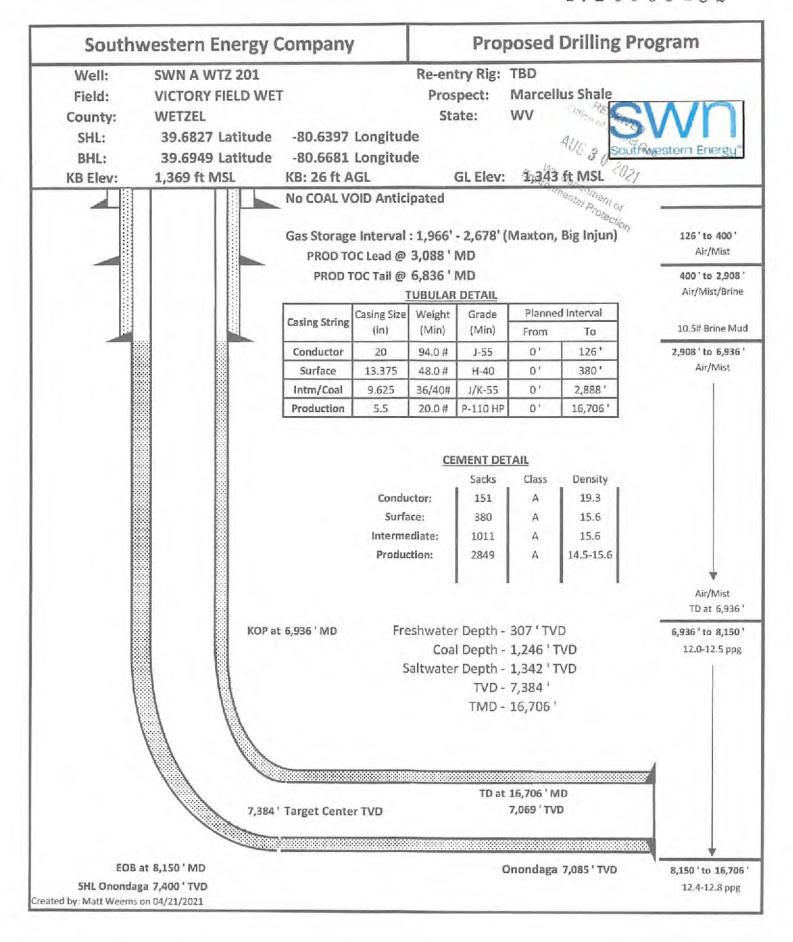
See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

			CEMENT A	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Numbe
SURFACE (FRESHWATER)	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE, TOO.	1302-78-9
	D047	FP 28L	><	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	> <	><	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
		> <	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	><	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	><	$\overline{}$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR
PRODUCTION	D255	$\supset$	$\times$	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	$\times$	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR'
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1



API Number 47 - 103 - 03452

Operator's Well No. swn A WTZ 201H

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

# FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924	
Watershed (HUC 10) Upper Ohio South	Quadrangle Wileyville	
Do you anticipate using more than 5,000 bbls of water to comp	olete the proposed well work? Yes V No	
Will a pit be used? Yes No		
If so, please describe anticipated pit waste:		
Will a synthetic liner be used in the pit? Yes	No 🗸 If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
Underground Injection (UIC Permi		)
Reuse (at API Number At the next anti Off Site Disposal (Supply form WV		)
Other (Explain recovery and solidific		
Will closed loop system be used? If so, describe: Yes-See At	Itachment 3A	
Drilling medium anticipated for this well (vertical and horizont	tal)? Air, freshwater, oil based, etc. Airdin to KOP, fluid yan water SOBM from KOP to	OT 0
-If oil based, what type? Synthetic, petroleum, etc. St		
Additives to be used in drilling medium? Attachment 3B	AUG 3 0 2000	
Drill cuttings disposal method? Leave in pit, landfill, removed	l offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be	Chvirona Pallment w	
	/F- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 10	021
Apex Sanitary Landtill Ub-U8438, Brooke Co SV	WF-1013,	
Permittee shall provide written notice to the Office of Oil and O West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at I within 24 hours of rejection and the permittee shall also discl	lose
on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations o law or regulation can lead to enforcement action.	of any term or condition of the general permit and/or other ap y examined and am familiar with the information submitted and on my inquiry of those individuals immediately response true, accurate, and complete. I am aware that there are sig	that the oplicable on this sible for
Subscribed and sworn before me this 5th day of /	1	
Subscribed and sworn before me this day of _/	April . 20 71	-
Cent Cast	Notary Public Notary	REID CROF
My commission expires 8/21/2024	State	e of West Vi Expires Au

### Attachment 3A

### **CLOSED LOOP SYSTEM**

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

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

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

### AIR DRILLING INTERVALS

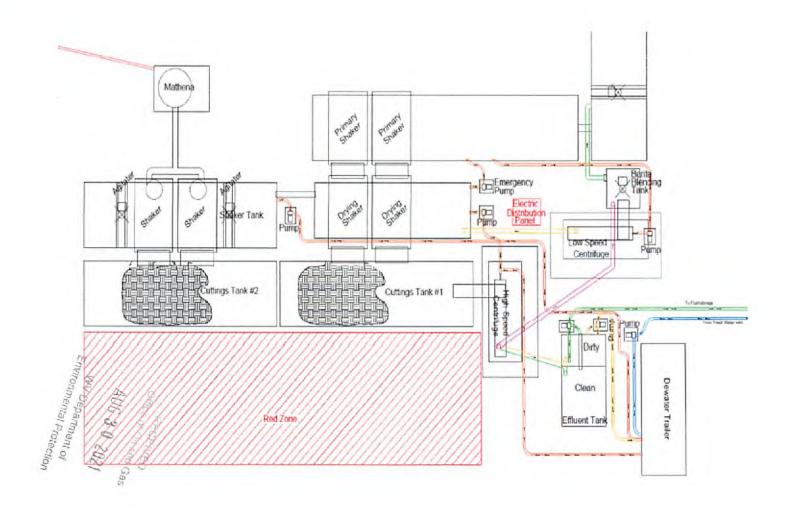
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate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

# LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

# Solids Control Layout





# **Attachment 3B**

# **Drilling Mediums**

# Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

**Intermediate/Coal (if present):** 

Air

**Production Hole:** 

Air

Synthetic Oil (Base Fluid for mud system)

**Barite** 

Calcium Chloride

Lime

**Organophilic Bentonite** 

**Primary and Secondary Emulsifiers** 

Gilsonite

Calcium Carbonate

**Friction Reducers** 

AUG 3 0 2021

WV Department of Environmental Protection

Operator's Well No. SWN A WTZ 201H

roposed Revegetation Treatment: Acres Disturbe	d 12.77	Prevegetation	рН
Lime as determined by pH test min.2 Tons/acre or to c			
Fertilizer type 10-20-20			
Fertilizer amount 600/500	lbs/acre		
Mulch_ Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Pern	nanent
Seed Type lbs/acre Attachment 3C		Seed Type	lbs/acre
attach:  Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area.  hotocopied section of involved 7.5' topographic slands approved by:	d, include dimensions (L x		nd dimensions (L x W),
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area.  hotocopied section of involved 7.5' topographic slan Approved by:	d, include dimensions (L x		nd dimensions (L x W), a
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area.  hotocopied section of involved 7.5' topographic sl	d, include dimensions (L x	W x D) of the pit, a	orfice of Orang Ga
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied creage, of the land application area.  hotocopied section of involved 7.5' topographic slan Approved by:	d, include dimensions (L x	W x D) of the pit, a	nd dimensions (L x W), a



# **WVD Seeding Specification**

OPENNIC PROPERTIES

Organic Fertilizer @ 200lbs per Acre



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	C	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 Orga	nic Mix	SWN Supplied
Organic Timothy	50%	
Organic Red or White Clover	50%	
OR		
Organic Perennial Ryegrass	50%	
Organic Red or White Clover	50%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th

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%
Redtop  Golden Tickseed  Maryland Senna Showy Tickseed  Fox Sedge Soft Rush  Woolgrass  Shows Moderate States Show 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

Pelletized Lime @ 2 Tons per Acre

# SWN A WTZ 201H

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			
103-00404	The Manufacturers Light & Heat Company	Plugged	39.684535	80.652068	1832	Maxon Sand	Pittsburgh Coal
103-03253	SWN Production Company	Active	39.682664	80.639579	25972	Marcellus	Tully Lime
103-03251	SWN Production Company	Active	39.682639	80.639593	25776	Marcellus	Tully Lime
103-03233	SWN Production Company	Active	39.682614	80.639608	21117	Marcellus	Tully Lime
103-03232	SWN Production Company	Active	39.682589	80.639622	18878	Marcellus	Tully Lime



# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

RECEIVED
Office of Oil and Gas



AUG 3 0 2021

WV Department of Environmental Protection

SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

Office of Oil and Gas

API NO. 47-XXX-XXXXX

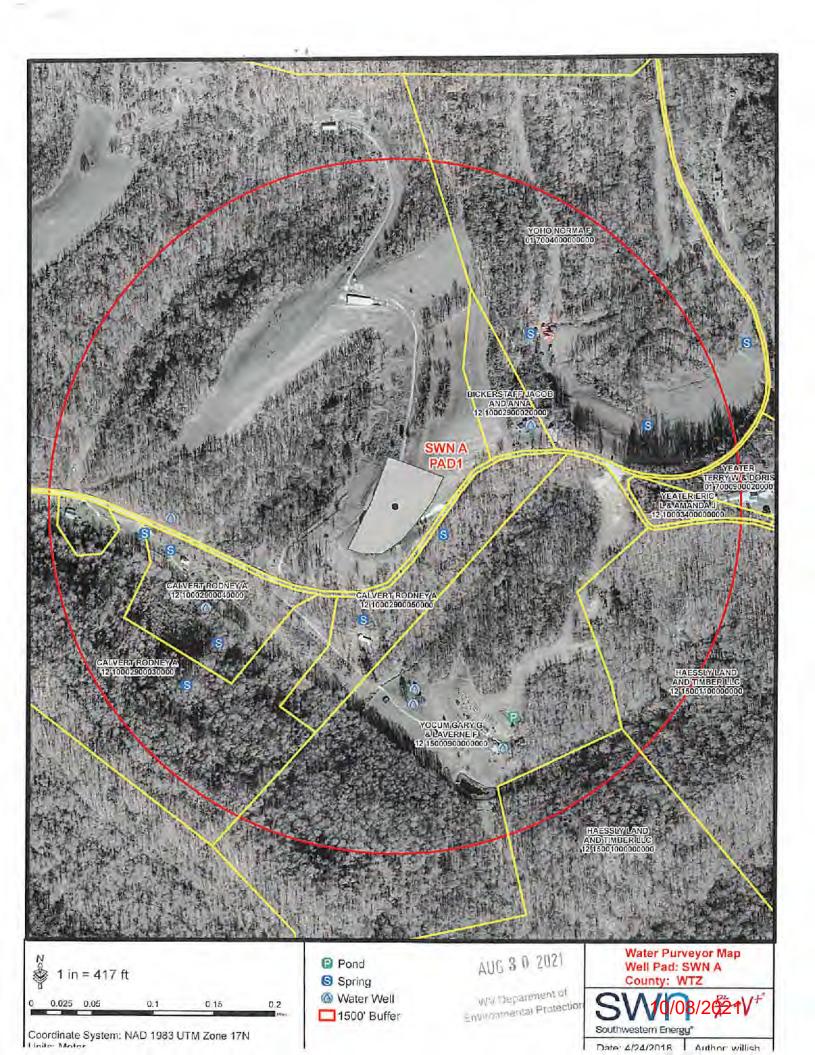
AUG 3 0 2021

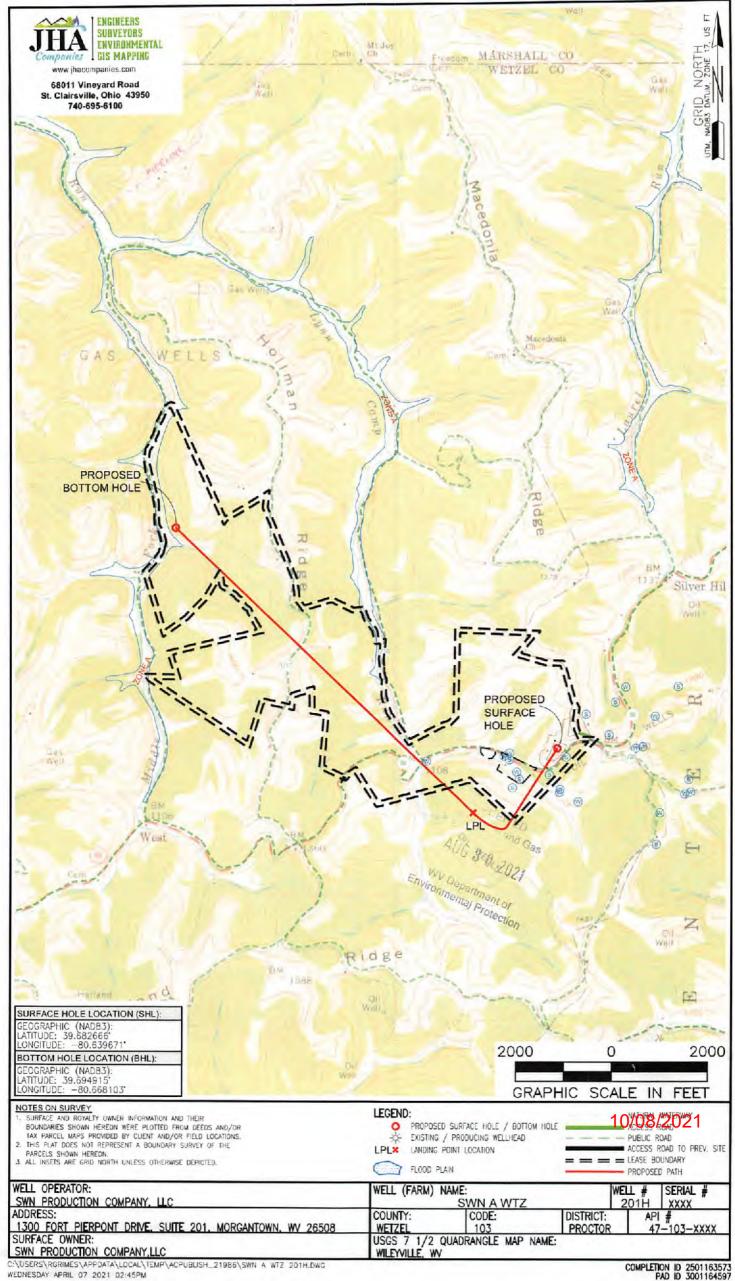
WELL NAME: SWN A WTZ 201H

PROCTOR DISTRICT

WETZEL COUNTY, WEST VIRGINIA

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





	WELL BORE TABLE FOR SURFACE/ROYALTY OW	NERS
TRACT	SURFACE OWNER (5) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY LLC (5) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	CALVERT RODNEY A	12 10 29.3
3	DREYER JOSEPH C	12-15-8
4	HAESSLY LAND AND TIMBER LLC	12-15-6
5	HAESSEY LAND AND TIMBER LUC	12-10-33
6	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PROCTOR CREEK ROAD (COUNTY HIGHWAY 89)
7	HAESSLY HARDWOOD LUMBER CO	12-10-32
8	SWN PRODUCTION COMPANY LLC	12-10-27
9	SWN PRODUCTION COMPANY ILC	12-10-26
10	RITCHEA ROBERT C & JAMES L	12-10-22
11	BICHMOND CASSIDI PAIGE	12-10-21
12	HAESSLY HARDWOOD LUMBER CO	12-10-23
13	RICHMOND CASSIDI PAIGE	12-10-13
14	HUGGINS MICHAELA & PATRICK W	12-9-23
15	SHUŁUGA ANDREW D & ANDREA M	12-9-15

	ADJOINING OWNERS TABLE	
IRACT	SURFACE OWNER	TAX PARCE
A	5WN PRODUCTION COMPANY	17-10-29.2
В	YOHO NORMA F	1-7-40
C	CALVERT RODNEY A	12-10-29 8
D	HUTCHISON MARGARET A	12-15-9
E	HAESSLY LAND AND TIMBER LLC	12-15-10
E	LEMASTERS DOLLY G EST	12-15-19
G	HAESSLY LAND AND TIMBER LLC	12-15-7
н	HAESSLY LAND AND TIMBER LLC	12-15-5
1.	HAESSLY LAND AND TIMBER LLC	12-15-4
1	HUGGINS JOSEPH DEAN	12-10-31
K	HUGGINS JOSEPH DEAN	12-10-25
t	RITCHEA WILLIAMD & SHIRLEYE	12-14-9
M	GODDARD WAYNEL	12-9-46
AL	WOODSTUFF JOYCE K	12-9-44
N	GODDARD WAYNEL	12-9-33
0	GODDARD WAYNEL	12-9-22
P	SHULUGA ANDREW D & ANDREA M	12-9-14
Q	SHULIGA ANDREW D & ANDREA M	12 9 13
R	SHULUGA ANDREW & & ANDREA M	12-9-8
5	SHULUGA ANDREW D & ANDREA M	12-9-9
T	MASSARI MARK	12-4-38
U	SHULUGA ANDREW D & ANDREA M	12-10-1
V	SHULUGA ANDREW D. &, ANDREA M	12-10-9.1
W	MILLTREE PROPERTIES LLC	12-10-9
X	SWN PRODUCTION COMPANY LLC	12-10-10
2	SWN PRODUCTION COMPANYLLC	12 10 14
AA	SWN PRODUCTION COMPANY LLC	12-10-15
AB	YOHO DARREN ETAL	12-10-16
AC	YOHO DARREN ETAL	12-10-18
AD	DURIG CORY & DAVID	1-7-2
AE	CALVERT RODNEY A	12-10-29.4
AF	CALVERT RODNEY A	12 10 29.1
AG	HAESSLY LAND AND TIMBER ILC	12-10-20
AH	SWN PRODUCTION COMPANY LLC	12-10-28

REVISIONS:	COMPANY: SWN Production Company LLC Prod		10/08/2021 SWN R* V+® induction Company™	
	OPERATOR'S WELL #: 47-103	SWN A		DATE: 04-07-2021 API NO: 47-103-XXXXX DRAWN BY:R, GRIMES
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO:2016-519 WELL LOCATION PLAT
				COMPLETION ID 25011635 PAD ID 30011645

WW-6A1 (5/13)

Operator's Well No.	SWN A WTZ 201H
Operator 2 Men 140.	

# 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 Exhibit

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition 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

• County Floodplain Coordinator

Finifon My Department in no Wayang Hides, replaces, or Oil and Gas permit in no Wayang Hides, or Oil and Gas permit in no Wayang Hides, or Oil and Gas permit in no Wayang Hides, or Oil and 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:	KOZL
Its:	Sr. Landman

Page 1 of \_\_\_

RECEIVED Office of Oil and Gas

AUG 3 0 2021

# **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 WTZ 201H

Wetzel County, West Virginia

#	ТМР	LESSOR	LESSEE	ROYALTY	BK/PG
1	12-10-29	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company	12.50%	18A/25
			Eagon and Robinson		39A/249
			Elva Robinson and Mary Ellen Davis		43A/440
			Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr.		44A/92
			Charles E. Reed and Kathryn C. Reed		51A/241
			Carl Perkins		55A/54
			Perkins Oil & Gas, Inc.		84A/9
			Stone Energy Corporation		126A/958
			Chesapéake Appalachia, L.L.C.		158A/564
			SWN Production Company, LLC		167A/9
2	12-10-29.3	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company	12.50%	18A/25
			Eagon and Robinson		39A/249
			Elva Robinson and Mary Ellen Davis		43A/440
			Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr.		44A/92
			Charles E. Reed and Kathryn C. Reed		51A/241
			Carl Perkins		55A/54
			Perkins Oil & Gas, Inc.		84A/9
			Stone Energy Corporation		126A/958
			Chesapeake Appalachia, L.L.C.		158A/564
			SWN Production Company, LLC		167A/9

AUG 30 2021 Environmental Protection

	Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator OSWN AND 201H  Wetzel County Wast Virginia						
3	12-15-8	Jospeh C. Dreyer, a single man	Antero Resources Corporation	17.00%	178A/385		
			SWN Production Company, LLC		248A/897		
4	12-15-6	H. L. Calvert	J.H. Ferrell	12.50%	33A/272		
			Frank W. Hineline and Bertha Hineline		34A/67		
			Clyde Gillispie and Thelma Gillispie		34A/68		
			Chester Lemon and Nella Lemon		34A/69		
			W. L. Smith, Jr.		34A/67		
			Winnie Miller		34A/32		
			Orcal C. Baker		34A/39		
			H. L. Calvert		35A/274		
			J. W. Tobin		34A/74		
			Mrs. Paul Stillings		36A/15		
			Mrs. Paul Stillings		36A/14		
			Mrs. Paul Stillings		37A/112		
			Oliver Calvert		33A/488		
			E.R. Busch		35A/158		
			W. Frank Jones		34A/33		
			H.L. Calvert		35A/285		
Ī			E.R. Busch		34A/70		
			W.H. Miller		35A/149		
			W.H. Miller		35A/187		
			W.H. Miller		35A/198		

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A, by SWM Production Company, LLC, Operator SWN A WTZ 201H

Wetzel County, West Virginia

			H. L. Calvert	34A/39 35A/274
			Winnie Miller Orcal C. Baker	34A/32
			W. L. Smith, Jr.	34A/67
			Chester Lemon and Nella Lemon	34A/69
ł			Clyde Gillispie and Thelma Gillispie	34A/68
Ì			Frank W. Hineline and Bertha Hineline	34A/67
5	12-10-33	H. L. Calvert	J.H. Ferrell 12.509	
			SWN Production Company, LLC	157A/540
			Chesapeake Appalachia, L.L.C.	158A/564
			Stone Energy Corporation	126A/958
			Perkins Oil & Gas Inc.	84A/9
1			Carl Perkins	55A/54
ì			Charles E. Reed and Kathryn C. Reed	51A/241
			Harry R. Cronin, Jr.	
			Andrew L. Henry, Charles E. Reed and	44A/92
l			Elva Robinson and Mary Ellen Davis	43A/440
l			G.F. Eagon and John H. Robinson	39A/115
ŀ			Paul Stillings	39A/107
ł			Orval C. Baker and Paul Stillings	37A/155
			Paul Stillings	37A/112
1			Orval C. Baker and Paul V. Stillings	37A/54
			Orval C. Baker	36A/483
			Orval C. Baker and Paul Stillings	36A/431
			Paul V. Stillings	36A/429
1			Wade H. Miller	36A/350
			E SCALL	

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 WTZ 201H

Wetzel County, West Virginia

J. W. Tobin	34A/74
Mrs. Paul Stillings	36A/15
Mrs. Paul Stillings	36A/14
Mrs. Paul Stillings	37A/112
Oliver Calvert	33A/488
E.R. Busch	35A/158
W. Frank Jones	<b>34A/3</b> 3
H.L. Calvert	35A/285
E.R. Busch	34A/70
W.H. Miller	35A/149
W.H. Miller	35A/187
W.H. Miller	35A/198
Wade H. Miller	36A/350
Paul V. Stillings	36A/429
Orval C. Baker and Paul Stillings	36A/431
Orval C. Baker	36A/483
Orval C. Baker and Paul V. Stillings	37A/54
Paul Stillings	37A/112
Orval C. Baker and Paul Stillings	37A/155
Paul Stillings	39A/107
G.F. Eagon and John H. Robinson	39A/115
Elva Robinson and Mary Ellen Davis	43A/440
Andrew L. Henry, Charles E. Reed and	44A/92
Harry R. Cronin, Jr.	

# 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 WTZ 201H
Wetzel County, West Virginia

			Charles E. Reed and Kathryn C. Reed Carl Perkins Perkins Oil & Gas Inc. Stone Energy Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	AUG 30 2 mregao vv	51A/241 55A/54 55A/54 84A/9 126A/958 158A/564 157A/540
6	Proctor Creek Road	West Virginia Department of Transportation, Division of	Chesapeake Appalachia, L.L.C.	15.00%	144A/555
	(County Highway 89)	Highways	SWN Production Company, LLC		157A/540
7	12-10-32	H. L. Calvert	J.H. Ferrell	12.50%	33A/272
			Frank W. Hineline and Bertha Hineline		34A/67
l			Clyde Gillispie and Thelma Gillispie		34A/68
			Chester Lemon and Nella Lemon		34A/69
			W. L. Smith, Jr.		34A/67
i			Winnie Miller		34A/32
			Orcal C. Baker		34A/39
			H. L. Calvert		35A/274
			J. W. Tobin		34A/74
			Mrs. Paul Stillings		36A/15
			Mrs. Paul Stillings		36A/14
			Mrs. Paul Stillings		37A/112
			Oliver Calvert		33A/488

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, GO Perafor SWN A WTZ 201H

Wetzel County, West Virginia

	4-	
E.R. Busch	<b>5</b>	3ŠA/158
W. Frank Jones		34A/33
H.L. Calvert		35A/285
E.R. Busch		34A/70
W.H. Miller		35A/149
W.H. Miller		35A/187
W.H. Miller		35A/198
Wade H. Miller		36A/350
Paul V. Stillings		36A/429
Orval C. Baker and Paul Stillings		36A/431
Orval C. Baker		36A/483
Orval C. Baker and Paul V. Stilling	gs .	37A/54
Paul Stillings		37A/112
Orval C. Baker and Paul Stillings		37A/155
Paul Stillings		39A/107
G.F. Eagon and John H. Robinson		39A/115
Elva Robinson and Mary Ellen Da	vis	43A/440
Andrew L. Henry, Charles E. Reed	i and	44A/92
Harry R. Cronin, Jr.		
Charles E. Reed and Kathryn C. R	eed	51A/241
Carl Perkins		55A/54
Perkins Oil & Gas Inc.		84A/9
Stone Energy Corporation		126A/958
Chesapeake Appalachia, L.L.C.		158A/564
SWN Production Company, LLC		157A/540

	Attach	EXHIBIT "A"  ed to and made a part of the State of West Virginia Oil and Gas Permit Form,  SWN A WTZ 201H  Wetzel County, West Virginia		ECEIVED of	6 3 0 2021 Department of
8	12-10-27	Raymond D. Harlan and Alice Harlan, his wife	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation	12.50%	52A/269 263/164
			Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		90A/242 157A/540
		Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	99A/498 167A/9
9	12-10-26	F. C. Emch and Thelma M. Emch, his wife; Jerald Yocum and Mildred Yocum, his wife; Iva M. Gray and Bud Gray, her	The Manufacturer's Light and Heat Company	12.50%	47A/48
		husband; Ocia Williams and Hobert Williams, her husband; Arlie	Columbia Gas Transmission Corporation		263/164
		Young and Virgil Young, her husband; Ica Harlan and Elmer Harlan, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		90A/242 157A/540
10	12-10-22	James J. Postelwait, widower; William Postelwait, widower; Jane Calvert, widow; K. W. Calvert and Grace E. Calvert, his wife;	The Manufacturer's Light and Heat Company	12.50%	45A/255
		Dorothy Higgins Waryck and Arthur L. Waryck, her husband;	Columbia Gas Transmission Corporation		263/164
		Edan Carney and Carl Carney, her husband; Ella Postlethwait,	Chesapeake Appalachia, L.L.C.		90A/242
		widow	SWN Production Company, LLC		157A/540
		Shirl W. Higgins & Doris J. Higgins, husband and wife	SWN Production Company, LLC	18.00%	188A/119
		Delmas W. Higgins, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	188A/124
		Shirley Lee Higgins, a widow	SWN Production Company, LLC	18.00%	188A/132

# **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 WTZ 201H

	Attacho	<b>EXHIBIT "A"</b> ed to and made a part of the State of West Virginia Oil and Gas Permit Form, SWN A WTZ 201H Wetzel County, West Virgini	, ,	perator	RECEIVED Gas Mind Gas AVG 3 0 2021
		Jerry Higgins & Denise E. Higgins, husband and wife	SWN Production Company, LLC	18.00%	189A/750
		H. Dean Higgins & Karen L. Higgins, husband and wife	SWN Production Company, LLC	18.00%	189A/763
		Clyde R. Higgins & Jana D. Higgins, husband and wife	SWN Production Company, LLC	18.00%	190A/291
		Cynthia A. Davidson & James O. Davidson, wife and husband	SWN Production Company, LLC	18.00%	190A/600
		Betty L. Bryner, a married woman dealing in her sole and separate property	TH Exploration, LLC SWN Production Company, LLC	18.00%	200A/377 227A/42
11	12-10-21	Austin Miller and Artie Miller, his wife; and Lloyd Stewart, single	The Manufacturer's Light and Heat Company	12.50%	45A/472
			Columbia Gas Transmission Corporation		263/164
			Chesapeake Appalachia, L.L.C.		90A/242
			SWN Production Company, LLC		157A/540
12	12-10-23	Ella Postlethwait, widow	The Manufacturer's Light and Heat Company	12.50%	45A/231
			Columbia Gas Transmission Corporation		263/164
			Chesapeake Appalachia, L.L.C.		90A/242
			SWN Production Company, LLC		157A/540

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, Operation SWN A WTZ 201H

Wetzel County, West Virginia

13	12-10-13	Austin Miller and Artie Miller, his wife; and Lloyd Stewart, single	The Manufacturer's Light and Heat Company	12.50%	45A/472
			Columbia Gas Transmission Corporation		263/164
			Chesapeake Appalachia, L.L.C.		90A/242
			SWN Production Company, LLC		157A/540
14	12-9-23	Willard C. Herman, single	The Manufacturer's Light and Heat Company	12.50%	45A/459
			Columbia Gas Transmission Corporation		263/164
			Chesapeake Appalachia, L.L.C.		90A/242
			SWN Production Company, LLC		157A/540
15	12-9-15	Otis Simmons and Pearl Simmons, his wife; Harold Simmons and Roxie Simmons, his wife; Roxie Newman and Archie Newman,	The Manufacturer's Light and Heat Company	12.50%	39A/499
		her husband	Columbia Gas Transmission Corporation		263/164
			Chesapeake Appalachia, L.L.C.		90A/242
			SWN Production Company, LLC		157A/540

WV Department of Providention



SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

August 19, 2021

Mr. Charles Brewer WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304

RE: SWN's proposed New Well: SWN A WTZ 201H in Wetzel County, West Virginia, Drilling under Middle Fork Road, Hollman Ridge Road and Proctor Creek Road.

Dear Mr Brewer:

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 and Proctor Creek Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Bradley Wilson Senior Landman

SWN Production Company, LLC

AUG 3 0 2021

WV Department of Environmental Protection

The Right People doing the Right Things,

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+®

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

Date of Notic	ce Certification:		API No. 4	7- 463	03452
2 202 (0 1, 00)	1		Operator's	Well No.	SWN A WTZ 201H
	, , , , , , , , , , , , , , , , , , ,		Well Pad I		WN A WTZ Pad
Notice has l	peen given;				
Pursuant to th	ne provisions in West Virginia Code § 22-6A, t	he Operator has pro	ovided the rec	quired part	ies with the Notice Forms listed
below for the	tract of land as follows:				
State:	West Virginia	UTM NAD 83	Easting:	530899.49	
County:	103-Wetzel	UTM NAD 03	Northing:	4392599.21	1
District:	Proctor	Public Road Ac	cess:	Macedonia	Ridge Road
Quadrangle:	Wileyville	Generally used	farm name:	SWNA	
Watershed:	Upper Ohio South				
	West Virginia Code § 22-6A-7(b), every per				
prescribed by	the secretary, shall be verified and shall conta	in the following inf	formation: (1	<ol><li>A certification</li></ol>	reation from the operator that (i)
it has provid	ed the owners of the surface described in sul	edivisions (1), (2)	and (4), subs	section (b)	, section ten of this article, the

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 ed parties with the following:	OOG OFFICE USE
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	ONLY  RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURV	VEY of D 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) RECEIVED Office of Oil and Gas	
■ 4. NOTICE OF PLANNED OPERATION		☐ RECEIVED
■ 5. PUBLIC NOTICE	AUG 3 0 2021	☐ RECEIVED
6. NOTICE OF APPLICATION	WV Department of Environmental Protection	RECEIVED

## Required Attachments:

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

# Certification of Notice is hereby given:

THEREFORE, I Brittany Woody , 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: **Brittany Woody** 

Its: Senior Regulatory Analyst

Telephone: 304-884-1610 P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 304-884-1690

Email: Brittany\_Woody@swn.com

NOTARY SEAL REID CROFT Notary Public Official Seal State of West Virginia My Comm. Expires Aug 21, 2024

Sparrow Lane Morgantown WV 26508

Subscribed and sworn before me this 5th day of April, 707

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

AUG 3 0 2021

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- 103 - 03452 OPERATOR WELL NO. SWN A WTZ 201H Well Pad Name: SWN A WTZ Pad

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

Dat	ice Time Requirement: notice shall be of Notice: Date Permit A ice of:	be provided no later t	han the filing date of permit app	lication.
<b>V</b>			PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Del	ivery method pursuant to West Virg	ginia Code § 22-6A-	10(b)	
	PERSONAL REGISTER SERVICE MAIL		HOD OF DELIVERY THAT RE EIPT OR SIGNATURE CONFIR	
regines sedi the sedi adescono operation more well imperation provents and provents are concerned to the sediment of the sedim	ificate of approval for the construction of stered mail or by any method of deliveryment control plan required by section so surface of the tract on which the well is and gas leasehold being developed by the tribed in the erosion and sediment control erosion and sediment control erosion seams; (4) The owners of record work, if the surface tract is to be used to oundment or pit as described in section to a water well, spring or water supply so wide water for consumption by humans of cost well work activity is to take place section (b) of this section hold interests and of the sheriff required to be maintain vision of this article to the contrary, notice R, § 35-8-5.7.a requires, in part, that are purveyor or surface owner subject to	y that requires a receip even of this article, and or is proposed to be lo ee proposed well work, ol plan submitted purs and on which the well of the surface tract or for the placement, con nine of this article; (5) ource located within or or domestic animals; a . (c)(1) If more than the in the lands, the applicated pursuant to section ce to a lien holder is not the operator shall also	tor signature confirmation, copies of the well plat to each of the following the well plat to each of the following the well plat to each of the following the well proposed to be drilled is located [si tracts overlying the oil and gas least struction, enlargement, alteration, of Any surface owner or water purvent thousand five hundred feet of the end (6) The operator of any natural gree tenants in common or other contains may serve the documents require eight, article one, chapter elevent of notice to a landowner, unless the provide the Well Site Safety Plan (	of the application, the erosion and ing persons: (1) The owners of record of the surface tract or tracts overlying the roads or other land disturbance as in of this article; (3) The coal owner, itely is known to be underlain by one or chold being developed by the proposed epair, removal or abandonment of any yor who is known to the applicant to center of the well pad which is used to as storage field within which the owners of interests described in the a of this code. (2) Notwithstanding any lien holder is the landowner. W. Va. "WSSP") to the surface owner and any
	Application Notice  WSSP Notice	E ☑ E&S Plan Notic		185
	URFACE OWNER(s) ne: SWN Production Company, LLC	/	☑ COAL OWNER OR LESSE  Name: CNX Gas Company, LLC Attn:	Casev Saunders AUG 3 0 121
	ress: PO Box 672625		Address: 1000 Consol Energy Drive	Caspy Saurices
	ton, TX 77267		Canonsburg, PA 15317	WV Department of
Nan			COAL OPERATOR	Environmental Protection
Auc	ress:			
m ci	URFACE OWNER(s) (Road and/or C	Mar Disturbance)	Address:	
			SURFACE OWNER OF WA	ATED WELL
Add	ne:		AND/OR WATER PURVEYO	
Aud	11400.		Name: See Attachment 13A	Art(a)
Nan	ie.	_		
	ress:		Address:	
Aud	1633.		TOPERATOR OF ANY NAT	TURAL GAS STORAGE FIELD
T \$1	URFACE OWNER(s) (Impoundments	or Pite)		
			Name:	
Add	ress:		Address:	
· Luc			*Please attach additional forms	s if necessary
				AND A STATE OF THE

API NO. 47-103 - 03452 OPERATOR WELL NO. SWNAWIZ 2011

Well Pad Name SWN A WTZ Pod

Notice is hereby given:

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

### This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

# Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-103 - 03452 OPERATOR WELL NO. SWN A WTZ 201H Well Pad Name: SWN A WTZ Pad

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

## Water Well Testing:

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

## Water Testing Laboratories:

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

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

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

## Written Comment:

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

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

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.

WV Department of

API NO. 47- 103 - 03457
OPERATOR WELL NO. SWN AWTZ 201H
Well Pad Name: SWN AWTZ 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

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

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

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

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

API NO. 47-163 - 03452
OPERATOR WELL NO. SWN A WTZ 201H
Well Pad Name: SWN A WTZ Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

Address: P.O. Box 1300 Jane Lew, WV 26378

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

REID CROFT
Notary Public Official Seal
State of West Virginia
My Comm. Expires Aug 21, 2024
47 Sparrow Lane Morgantown WV 26508

Subscribed and sworn before me this 5 day of April, 200

Notary Public

My Commission Expires\_

4505/15/8

OWNERNAME	ADDRESS	CITY/STATE/ZIP	WATERSOUCES
YEATER TERRY W & DORIS	1592 Mi Birde Ridge Rd.	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



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

entry  Date of Notice	•		nned Entry: 3/9/20214
Delivery met	hod pursuant	to West Virginia C	ode § 22-6A-10a
☐ PERSON	NAL I	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC	E	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, white enable the surfa-	nce tract to connan forty-five of tract that has fierals underlying Control Manusich statement stace owner to control of the c	duct any plat survey, lays prior to such en- led a declaration pur g such tract in the co al and the statutes an hall include contact obtain copies from the	Prior to filing a permit application, the operator shall provide notice of planned entres required pursuant to this article. Such notice shall be provided at least seven days try to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any unty tax records. The notice shall include a statement that copies of the state Eros d rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.
	eby provided t		
	E OWNER(s)		COAL OWNER OR LESSEE
	duction Company, L	LC	Name: CNX Gas Company, LLC Attn: Casey Saunders
Address: PO B			Address: 1000 Consol Energy Drive
Houston, TX 77267			Canonsburg, PA 15317
Name: Address:			MINERAL OWNER(s)
			Name: Franklin Thomas Barrett
Name:			Address: 595 W. New York Ave
Address:			Sebring, CH 44672
			*please attach additional forms if necessary
Notice is her Pursuant to We a plat survey o State: County:	est Virginia Co	ode § 22-6A-10(a), n and as follows:	otice is hereby given that the undersigned well operator is planning entry to condu  Approx. Latitude & Longitude: 39.684757, -80.640554  Public Road Access: Macedonia Ridge
District:	Proclor		Public Road Access: Macedonia Ridge Watershed: Upper Ohio South
	Wileyville		Generally used farm name: SWN A WIZ Ped
may be obtaine Charleston, W obtained from	ed from the Sec V 25304 (304- the Secretary h	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	Manual and the statutes and rules related to oil and/gas exploration and production epartment of Environmental Protection headquarters, located at 601 57th Street, SE of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .
may be obtained Charleston, Windows obtained from Notice is here	ed from the Sec V 25304 (304- the Secretary be eby given by	cretary, 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
may be obtaine Charleston, W obtained from	ed from the Sec V 25304 (304- the Secretary be eby given by	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmental Protection headquarters, located at 60b 57th Street, SE of such documents or additional information related to horizontal drilling may be

#### Oil and Gas Privacy Notice:

Operator Well No. SWN A WTZ Pad

WW-6A3 (1/12)

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

Notice Time Rentry	lequirement:	Notice shall be prov	rided at least SEVEN (7) de	iys but no more tha	n FORTY-FIVE (45) days prior to
Date of Notice	: 3/2/2021	Date of Plan	nned Entry: 3/9/2021		
Delivery meth	od pursuant	to West Virginia C	ode § 22-6A-10a		
☐ PERSON	ΔΤ.	REGISTERED	☐ METHOD OF DE	IVERY THAT RE	COLURES A
SERVICE		MAIL		NATURE CONFIR	
on to the surface but no more that beneath such to owner of miner and Sediment C Secretary, whice enable the surface	se tract to conc an forty-five d act that has fil rals underlying Control Manua ch statement sl ace owner to o	duct any plat surveys ays prior to such end ed a declaration pur- g such tract in the co all and the statutes an hall include contact btain copies from the	s required pursuant to this a try to: (1) The surface owns suant to section thirty-six, a unty tax records. The notic d rules related to oil and ga information, including the	rticle. Such notice so or of such tract; (2) article six, chapter to se shall include a state s exploration and p	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is herel		o:	П		
☐ SURFACE				L OWNER OR LE	
Name:			Name:		
Address:			Address:		
Name:			4		AEGENED COSE
Address:			■ MIN	ERAL OWNER(s)	SECENTED GAL
				ncy G Metheny	Office of Off and SOSI
Name:			Address:	3948 N. Park Ave	Other of Sac.
Address:			Warren, OH		NIL 3
a plat survey or	st Virginia Co		otice is hereby given that the		operator is planning entry to conduct
	Wetzel		Public Road	ude & Longitude:	39.684757, -80.640554 Macedonia Ridge
	Proctor		Watershed:	TCCC55.	Upper Chio South
	Vileyville		10,700,700,000,000	ed farm name:	SWN A WTZ Pad
may be obtained Charleston, WV obtained from the Notice is here Well Operator:	d from the Sec 7 25304 (304- he Secretary b by given by	eretary, at the WV D 926-0450). Copics y visiting <u>www.dep</u>	epartment of Environmenta	al Protection headquional information re	l and gas exploration and production parters, located at 601 57 <sup>th</sup> Street, SE, elated to horizontal drilling may be
Telephone:	304-884-1510			JANE LEW, WV 26378	
Email:	dee_southall@sw	n.com or brittany_woody@s	wn.com Facsimile:		

#### Oil and Gas Privacy Notice:

### Operator Well No. SWN A WTZ Pad

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

entry Date of Notic		4.00	ned Entry: 3/9/2021
Delivery met	hod pursuant t	to West Virginia C	le § 22-6A-10a
☐ PERSON		REGISTERED MAIL	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
Pursuant to W on to the surfa but no more to beneath such owner of min- and Sediment Secretary, when able the sur	Vest Virginia Co ace tract to cond han forty-five de tract that has fil erals underlying Control Manua ich statement sh face owner to o	ide § 22-6A-10(a), I fuct any plat survey ays prior to such en- ed a declaration pur such tract in the co- all and the statutes ar- nall include contact btain copies from the	for to filing a permit application, the operator shall provide notice of planned entry required pursuant to this article. Such notice shall be provided at least seven days to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams and to section thirty-six, article six, chapter twenty-two of this code; and (3) any any tax records. The notice shall include a statement that copies of the state Erosio rules related to oil and gas exploration and production may be obtained from the formation, including the address for a web page on the Secretary's web site, to
	eby provided to CE OWNER(s)	);	☐ COAL OWNER OR LESSEE
	on on the state of		Name:
Address:			Address:
Name:			MINERAL OWNER(s)  Name: Sharon Zeppernick  Address: 626 W. Virginia Avenus  Sebring, OH 44672
Address:			MINERAL OWNER(s)
Name:			Name: Sharon Zeppernick
Address:			Address: 626 W. Virginia Avenus  Sebring, OH 44672
			// // // // // // // // // // // // //
a plat survey o State:	on the tract of la	de § 22-6A-10(a), n nd as follows:	*please attach additional forms if necessary  *please attach additio
County: District:	Wetzel		Public Road Access: Macedonia Ridge
Quadrangle:	Proctor Wileyville		Watershed: Upper Ohio South
Quadrangie.	vviieyviile.		Generally used farm name: SWN A WTZ Pad
nay be obtain Charleston, W obtained from Notice is her Well Operator	ed from the Sec V 25304 (304- the Secretary by eby given by:	retary, at the WV D 926-0450). Copies y visiting <u>www.dep</u>	Manual and the statutes and rules related to oil and gas exploration and production partment of Environmental Protection headquarters, located at 601 57th Street, SE, such documents or additional information related to horizontal drilling may be v.gov/oil-and-gas/pages/default.aspx.  Address: PO BOX 1300
	make a market a market		JANE LEW, WV 26378
Felephone: Email:	304-884-1610		MANELEW, WV 20378

#### Oil and Gas Privacy Notice:

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

Not		equirement:	Notice shall be prov	vided at least SEVEN (7) days but no more than FORTY-FI	VE (45) days prior to
Dat	e of Notice	3/2/2021	Date of Plan	nned Entry: 3/9/2021	
Deli	ivery meth	od pursuant i	to West Virginia C	Code § 22-6A-10a	
П	PERSON	AT.	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A	
	SERVICE		MAIL	RECEIPT OR SIGNATURE CONFIRMATION	
on to but; bene own and Secretary	o the surface no more that eath such tra- eer of miner Sediment Cretary, whice the surface	te tract to cond an forty-five d act that has fil als underlying Control Manual th statement slace owner to o	duct any plat surveys ays prior to such en- ed a declaration pur g such tract in the co- all and the statutes an nall include contact obtain copies from the	Prior to filing a permit application, the operator shall provide as required pursuant to this article. Such notice shall be providently to: (1) The surface owner of such tract; (2) to any owner of resuant to section thirty-six, article six, chapter twenty-two of county tax records. The notice shall include a statement that count rules related to oil and gas exploration and production may information, including the address for a web page on the Seche secretary.	led at least seven days or lessee of coal seams this code; and (3) any opies of the state Erosion be obtained from the
		y provided to	0:	COAL OWNER OR LEGGER	
		E OWNER(s)		COAL OWNER OR LESSEE	
Nan	1e:			Name:	
Add	ress:			Address:	
Nan	18:				
Add	ress:			MINERAL OWNER(s)	
Nan	ne:			Address: 16795 Beverly Drive	
Add	ress:			North Benton, OH 4449	
_				*please attach additional forms if necessary	
Purs a pla State Cou Dist	tuant to West survey on the survey of the su	the tract of la NV Netzel Proctor	ode § 22-6A-10(a), n and as follows:	Watershed: Upper Ohlo South	10554
Qua	drangle: v	Vileyville		Generally used farm name: SWN A WTZ Pad	
may Char obta Not Wel	be obtained rleston, WV ined from the ice is here I Operator:	d from the Sec 25304 (304- he Secretary b by given by	eretary, at the WV E 4926-0450). Copies by visiting <u>www.dep</u>	of Manual and the statutes and rules related to oil and gas explored to the properties of such documents or additional information related to horiz	d at 601 57th Street, SE,
	phone:	304-884-1610		JANE LEW, WV 26378	
Ema	il:	dee_southall@sw	n.com or brittany_woody@s	swn.com Facsimile:	

Oil and Gas Privacy Notice:

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

Notice Tim entry	e Requirement:	Notice shall be prov	vided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to	
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Delivery m	ethod pursuant	to West Virginia C	ode § 22-6A-10a	
☐ PERSO	ONAL III	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A	
SERVI	CE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION	_
on to the sur but no more beneath suc owner of mi and Sedimer Secretary, we enable the s	rface tract to con- than forty-five of the tract that has fi- inerals underlying to Control Manuschich statement st urface owner to con-	duct any plat survey, lays prior to such end led a declaration puring such tract in the coal and the statutes and hall include contact betain copies from the	Prior to filing a permit application, the operator shall provide notice of planned enters required pursuant to this article. Such notice shall be provided at least seven day try to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seam suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any ownty tax records. The notice shall include a statement that copies of the state Eros and rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.	s ion
_	reby provided t		COAL OWNER ON LEGGER	
	CE OWNER(s)		LI COAL OWNER OR LESSEE	
Name:			Name:	
Address: _			Address:	
Name:				
Address:			MINERAL OWNER(s)	
			Name: Krystal K. Camp	
Name:			Address: 9365 Pricetown Road V	
Address: _			Borlin Center, OH 44401	
			*please attach additional forms if necessary	
Pursuant to a plat survey	on the tract of la		notice is hereby given that the undersigned well operator is planning entry to condu	ıct
	Wetzel		Approx. Latitude & Longitude: 39.684757, -80.640554	
County:	Wetzel		Public Road Access: Macedonia Ridge	
State: County: District: Ouadrangle:	Wetzel Proctor		Public Road Access:  Watershed:  Upper Ohio South  Upper Ohio South	
County: District: Quadrangle:	Wetzel Proctor Wileyville		Public Road Access:  Watershed:  Generally used farm name:  Macedonia Ridge Upper Ohio South SWN A WTZ Pad  Gas	
County: District: Quadrangle: Copies of th may be obta Charleston,	Proctor Wileyville e state Erosion arined from the Sec WV 25304 (304	nd Sediment Control cretary, at the WV D -926-0450). Copies	Public Road Access:  Watershed:  Upper Ohio South  Upper Ohio South	n 3,
County: District: Quadrangle: Copies of th may be obta Charleston, obtained from	Wetzel Proctor Wileyville e state Erosion arined from the Sec WV 25304 (304 m the Secretary by	nd Sediment Control cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production per such documents or additional information related to horizontal drilling may be	n 3,
County: District: Quadrangle: Copies of th may be obta Charleston, obtained from	Wetzel Proctor Wileyville  e state Erosion are ined from the Security 1304 (304 m) the Secretary because given by	nd Sediment Control cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production per such documents or additional information related to horizontal drilling may be	n 3,
County: District: Quadrangle: Copies of th may be obta Charleston, obtained from	Wetzel Proctor Wileyville  e state Erosion are ined from the Security 1304 (304 m) the Secretary because given by	nd Sediment Control cretary, at the WV E -926-0450). Copies by visiting <u>www.dep</u>	Public Road Access:  Watershed:  Generally used farm name:  Manual and the statutes and rules related to oil and gas exploration and production production because of such documents or additional information related to horizontal drilling may be a wv.gov/oil-and-gas/pages/default.aspx.	n 3,

#### Oil and Gas Privacy Notice:

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

Date of Notice: 3420021  Date of Planned Entry: 2540021  Delivery method pursuant to West Virginia Code § 22-6A-10a  PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION  Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entre on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-Five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner of such tract; (2) to any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosia and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s)  Name: Address:  Address:  Mineral Mineral Owner(s)  Name: Address:  Address:  Mineral Owner(s)  Name: Address:  Mineral Owner(s)  Name: Address:  Address:  Address:  Address:  Mineral Owner(s)  Name: Address:  Address:  Mineral Owner(s)  Name: Address:  Address:  Mineral Owner(s)  Name: Address:  Mineral Owner(s)  Name: Address:  Address:  Mineral Owner(s)  Name: Address:  Mineral Owner(s)  Mineral Owner(s)  Mineral Owner(s)  Mi		Requirement:	Notice shall be prov	rided at least SEVEN (7)	lays but no more tha	in FORTY-FIVE (45) days prior to
PERSONAL   REGISTERED   METHOD OF DELIVERY THAT REQUIRES A   SERVICE   MAIL   RECEIPT OR SIGNATURE CONFIRMATION	Date of Notic	e: 3/2/2021	Date of Plan	aned Entry: 3/9/2021		
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entre on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-free days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosi and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s)  Name:  Address:  Addres	Delivery met	hod pursuant	to West Virginia C	ode § 22-6A-10a		
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entro on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filled a declaration pursuant to section thirty-risk, article sk, chapter twent-woof this ode; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosi and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:    SURFACE OWNER(s)	☐ PERSON	NAL I	REGISTERED	☐ METHOD OF D	ELIVERY THAT R	EQUIRES A
on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:    SURFACE OWNER(s)	SERVIC	E	MAIL			
Surface Owner(s)    COAL Owner Or Lessee	on to the surfa but no more the beneath such owner of mine and Sediment Secretary, wh enable the sur	ace tract to come han forty-five de tract that has file erals underlying Control Manua ich statement si- face owner to come	duct any plat surveys lays prior to such enti- led a declaration pur- g such tract in the co- al and the statutes an hall include contact in obtain copies from the	s required pursuant to this try to: (1) The surface own suant to section thirty-six, unty tax records. The not d rules related to oil and g information, including the	article. Such notice ner of such tract; (2) article six, chapter ice shall include a st as exploration and p	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the
Name: Address: Addres			0:	П со	AL OWNER OR LE	GSSER
Address:    Name:   Address:   MINERAL OWNER(s)						
Address:    Name:	The state of the s			Address		
Address:    Name:	Name:					
Name:	Address:			■ MD	NERAL OWNER(s)	0.4
Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  WV Approx. Latitude & Longitude:  Public Road Access:  Macedenia Ridge  UppenObjo Scluth,  Quadrangle:  Welzel Public Road Access:  Welzel Public Road Access:  Macedenia Ridge UppenObjo Scluth,  Generally used farm name:  SWN A WTZ Past  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Notice is hereby given by:  Well Operator:  SWN PRODUCTION COMPANY, LLC Address:  PO BOX 1300  JANE LEW, WV 26378				Name:	elfrey L. Fish	
Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:   W  Approx. Latitude & Longitude:   Public Road Access:   Macedonia Ridge   District:   Proctor   Quadrangle:   Wileyelle   Generally used farm name:   Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting   www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Notice is hereby given by:  Well Operator:   SWN PRODUCTION COMPANY, LLC   Address:  PO BOX 13D0  JANE LEW, WV 26378	Name:			Address		J
Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  WV  Approx. Latitude & Longitude:  Public Road Access:  Macedonia Ridge  Upper Ohjo South  Ouadrangle:  Wileyville  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Notice is hereby given by:  Well Operator:  SWN PRODUCTION COMPANY, LLC  Address:  PO BOX 1300  JANE LEW, WV 26378	Address:			North Bento		
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:   WV				*please att	ach additional forms if no	ecessary
Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Notice is hereby given by:  Well Operator: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Telephone: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">gas/pages/default.aspx</a> .  Address: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">po BOX 1300</a> Telephone: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">JANE LEW, WV 26378</a> Empire Telephone: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">JANE LEW, WV 26378</a>	Pursuant to W a plat survey of State; County; District;	est Virginia Co on the tract of la wv Wetzel Proctor		Approx. Lat Public Road Watershed:	itude & Longitude: Access:	39.684757, -80.646554  Macedonia Ridge  Upper Ohjo South
Get adducting award to this award to the same and the same are a same as a same a same as a same as a same as a same a same a same a same a same a	may be obtain Charleston, W obtained from Notice is her Well Operator	the Secretary by seeby given by supercolour 304-884-1610	oretary, at the WV D -926-0450). Copies by visiting <u>www.dep.</u> : ION COMPANY, LLC	epartment of Environmen of such documents or add .wv.gov/oil-and-gas/pages Address:	tal Protection headq itional information r /default.aspx. PO BOX 1300 JANE LEW, WV 26378	il and gas exploration and production uarters, located at 601 57 <sup>th</sup> Street, SE, related to horizontal drilling may be
dee_southall@swn.com or brittany_woody@swn.com FacsImile:	Lanan.	dee_southall@sv	n.com or brittany_woody@s	wn.com Facsimile		

Oil and Gas Privacy Notice:

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

entry		Date of Plan	ned Entry: 3/9/2021
Delivery meth	od pursuant i	to West Virginia C	ode § 22-6A-10a
☐ PERSON	IAL I	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE	17	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more the beneath such to owner of mine and Sediment (Secretary, which enable the surface).	ce tract to cond an forty-five d ract that has fil rals underlying Control Manua ch statement sl face owner to o	duct any plat surveys ays prior to such en- led a declaration pur- g such tract in the co- al and the statutes an hall include contact obtain copies from the	rior to filing a permit application, the operator shall provide notice of planned entry required pursuant to this article. Such notice shall be provided at least seven days ry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any anty tax records. The notice shall include a statement that copies of the state Erosion d rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.
Notice is here		0:	
☐ SURFAC	E OWNER(s)		COAL OWNER OR LESSEE
Name:			Name:
			Address:
Name:			
Address:			■ MINERAL OWNER(s)
			Name: Carrow, LLC
Name:			Address: 535 Briardiff Court
Address:			New Martinsville, WV 26155
			*please attach additional forms if necessary
a plat survey o State:	est Virginia Co n the tract of la wv Wetzel	ode § 22-6A-10(a), n and as follows:	Western de
Quadrangle:	Wileyville		Generally used farm name: SWNAWTZ Pad
may be obtained Charleston, W' obtained from  Notice is here Well Operator:	ed from the Sec V 25304 (304- the Secretary b eby given by	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	Manual and the statutes and rules related to oil and gas exploration and production 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.  Address: PO BOX 1300
Telephone:	304-884-1610		JANE LEW, WV 26378
Email:	dee_scuthall@sv	vn.com or brittany_woody@s	wn.com Facsimile;

#### Oil and Gas Privacy Notice:

Operator Well No. SWN A WTZ Fad

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

Notice Time	Requirement:	Notice shall be prov	ided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
Date of Notic	e: 3/2/2021	Date of Plan	nned Entry: 3/9/2021
Delivery met	hod pursuant	to West Virginia C	nde § 22-6A-10a
☐ PERSON	NAL I	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC	E	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surfa- but no more the beneath such owner of mind and Sediment Secretary, when able the sur-	nce tract to cond than forty-five detract that has file erals underlying Control Manuatich statement sl face owner to o	fuct any plat surveys ays prior to such en- ed a declaration pur- g such tract in the co- all and the statutes an hall include contact btain copies from the	Prior to filing a permit application, the operator shall provide notice of planned entry is required pursuant to this article. Such notice shall be provided at least seven days ary to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any unty tax records. The notice shall include a statement that copies of the state Erosion d rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to e secretary.
	eby provided to	0:	
	E OWNER(s)		Name:
Name:			
Address:			Address:
Name:			~ CHO. 3 () 2021
AJJane			III MINERAL OWNER(s)
			Name: Rodney A. Calvert Environment of
Name:			Address: 13998 Proctor Creek Road
Address:			New Martinsville, VVV 26155
			*please attach additional forms if necessary
Notice is her Pursuant to W a plat survey of State: County: District:		de § 22-6A-10(a), n nd as follows:	Approx. Latitude & Longitude: Public Road Access: Watershed:  Approx. Latitude & Longitude:  Observator is planning entry to conduct  39,584757, -80,640554  Macedonia Ridge  Upper Ohio South
Quadrangle:	Wileyville		Generally used farm name: SWN A WTZ Pad
may be obtain Charleston, W obtained from	ed from the Sec V 25304 (304- the Secretary b eby given by:	retary, at the WV D 926-0450). Copies y visiting <u>www.dep</u>	Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .  Address: PO BOX 1300
Telephone:		DIN ODMITANT, LLC	
Email:	304-884-1610	590 3200 420 4 4 5 5 5 5 5	JANE LEW, WV 26378
Jinan.	dee_southall@sw	n.com or brittany_woody@s	wn.com Facsimile:

#### Oil and Gas Privacy Notice:

Operator Well No. SWN A WTZ Pad

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

Notice Time	Requirement:	Notice shall be prov	vided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
Date of Noti	ce: 3/2/2021	Date of Plan	nned Entry: 3/9/2021
Delivery me	thod pursuant	to West Virginia Co	Code § 22-6A-10a
☐ PERSO	NAL I	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC	E	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surf but no more the beneath such owner of mir and Sedimen Secretary, when able the su	ace tract to con han forty-five of tract that has fi erals underlyin t Control Manu tich statement serface owner to o	duct any plat surveys days prior to such ent led a declaration puring such tract in the coal and the statutes an hall include contact in the abtain copies from the	Prior to filing a permit application, the operator shall provide notice of planned entry is required pursuant to this article. Such notice shall be provided at least seven days stry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams resuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any ounty tax records. The notice shall include a statement that copies of the state Erosion and rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to the secretary.
	eby provided t		
	CE OWNER(s)		COAL OWNER OR LESSEE
Name:			Name:
Address:			Address:
Name:			
Address:			MINERAL OWNER(s)
			Name: Ammon A. Burley
Name:			
Addiess. —			Cameron, WV 26033  *please attach additional forms if necessary
Notice is he Pursuant to W a plat survey State: County: District: Quadrangle:	est Virginia Co	ode § 22-6A-10(a), nand as follows:	Approx. Latitude & Longitude:  Public Road Access: Watershed: Generally used farm name:  Approx. Latitude & Longitude:  SWNAWTZ Pad  Approx. Latitude & Longitude:  Approx. Latitude & Lon
may be obtair Charleston, W obtained from	reby given by SWN PRODUCT 304-884-1610	cretary, at the WV D -926-0450). Copies on y visiting <u>www.dep.</u>	Manual and the statutes and rules related to oil and gas exploration and production Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, of such documents or additional information related to horizontal drilling may be be bown gov/oil-and-gas/pages/default.aspx.  Address: PO BOX 1300  JANE LEW, WV 26378  Facsimile:

#### Oil and Gas Privacy Notice:

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

Notice Time entry	Requirement:	Notice shall be prov	rided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to
Date of Notic	ce: 3/2/2021	Date of Plan	nned Entry: 3/9/2021
Delivery met	hod pursuant	to West Virginia C	ode § 22-6A-10a
☐ PERSO	NAL 🔳	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC	Œ	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surf but no more to beneath such owner of min and Sediment Secretary, whenable the sur	ace tract to conc han forty-five d tract that has fil erals underlying Control Manua ich statement si face owner to co	duct any plat surveys lays prior to such end led a declaration pur g such tract in the co all and the statutes an hall include contact obtain copies from the	Prior to filing a permit application, the operator shall provide notice of planned entry is required pursuant to this article. Such notice shall be provided at least seven days try to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams suant to section thirty-six, article six, chapter twenty-two of this code; and (3) any unty tax records. The notice shall include a statement that copies of the state Erosion d rules related to oil and gas exploration and production may be obtained from the information, including the address for a web page on the Secretary's web site, to be secretary.
	eby provided t CE OWNER(s)	o:	☐ COAL OWNER OR LESSEE
			Name:Address:
Address:			■ MINERAL OWNER(s)
Name:			
Address:			Louisville, OH 44641
	7		*please attach additional forms if necessary
Notice is he Pursuant to W a plat survey of State: County: District: Quadrangle:	Wetzel	ode § 22-6A-10(a), n and as follows:	Approx. Latitude & Longitude: Public Road Access: Watershed: Generally used farm name:  Office is hereby given that the undersigned well operator is planning entry to conduct  Approx. Latitude & Longitude: 39.684757, 80.640554 3 0  Macedonia Ridge Upper Ohlo South  SWN A WTZ Pad  SWN A WTZ Pad
may be obtain Charleston, W obtained from	ed from the Sec V 25304 (304- the Secretary b reby given by SWN PRODUCT 304-884-1610	cretary, at the WV D -926-0450). Copics by visiting <u>www.dep.</u>	Manual and the statutes and rules related to oil and gas exploration and production epartment of Environmental Protection headquarters, located at 601 57th Street, SE, of such documents or additional information related to horizontal drilling may be <a href="https://www.gov/oil-and-gas/pages/default.aspx">www.gov/oil-and-gas/pages/default.aspx</a> .  Address: PO BOX 1300  JANE LEW, WV 26378
rinan.	dee_southall@sw	vn.com or entiany_woody@s	wn.com raosinine.
00 10	distribute and the		

Oil and Gas Privacy Notice:

WW-6A4 (1/12)

Operator Well No. SWN A WTZ 201H

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

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

Date of Notic			least TEN (10) days prior to Fings mit Application Filed:	permit application.
Delivery met	hod pursuant to Wo	est Virginia Code § 2	2-6A-16(b)	
☐ HAND	■ CER	TIFIED MAIL		
DELIVE		URN RECEIPT REQ	UESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delivery zontal well: <i>Provide</i> tion as of the date the y be waived in writile, facsimile number	, give the surface owner ed. That notice given provided ng by the surface own	er notice of its intent to enter upon to pursuant to subsection (a), section to to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includes of the operator and the operator	an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	duction Company, LLC	HE SURFACE OV	Name:	
Address: POB			Address:	
Houston, TX 7726	07			
	est Virginia Code §			well operator has an intent to enter upon
Pursuant to W the surface ov State: County: District: Quadrangle:	Vest Virginia Code § Vest Virginia Code § Vest Virginia West Virginia Wetzel Proctor Wileyville, WV		is hereby given that the undersigned rizontal well on the tract of land as for the undersigned of land as for the undersigne	
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Oil and Gas Privacy Notice:

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

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

Notice Time Date of Notic	Requirement: Notice shall be pr e: 03/18/2021	ovided at least TEN (10) days prior to filing a Date Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MA	me	
DELIVE	RY KETUKN KECE	IPT REQUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delivery, give the sur zontal well: <i>Provided</i> . That notition as of the date the notice was by be waived in writing by the sur	st ten days prior to filing a permit application reface owner notice of its intent to enter upon to be given pursuant to subsection (a), section to provided to the surface owner: <i>Provided</i> , how reface owner. The notice, if required, shall include mail address of the operator and the operator	he surface owner's land for the purpose of en of this article satisfies the requirements vever, That the notice requirements of this lude the name, address, telephone number,
	Company, LLC, ATTN: Casey Saunders	Name:	
	Consol Energy Drive	Address:	
Canonsburg, PA			
State: County: District:	West Virginia Wetzel Proctor	ling a horizontal well on the tract of land as for the strain of land as for the land as for t	530,899.494 4,392,599.206 Macedonia Ridge
Quadrangle:	Wileyville, WV	Generally used farm name:	SWN A WTZ
Watershed:	Upper Ohio South		AUG D. Hod Gas
Pursuant to V facsimile nun related to hor	ber and electronic mail address zontal drilling may be obtained	(b), this notice shall include the name, adds of the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
Notice is he	reby given by:		
	: SWN Production Company, LLC	Authorized Representative:	Justin Booth
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 28508
Telephone:	304-884-1675	Telephone:	304-884-1675
Email:	Justin_Booth@swn.com	Email:	Justin_Booth@swn.com
Facsimile:	304-884-1691	Facsimile:	304-884-1691
	V	, C.	200 J C 10 J C 10 C

#### Oil and Gas Privacy Notice:

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

	e Requirement: notice ice: 03/18/2021		later than the filing oplication Filed:	daye of permit	application.
Delivery m	ethod pursuant to Wes	t Virginia Code § 2	22-6A-16(c)	1	
■ CERT	IFIED MAIL	П	HAND		
- C.	JRN RECEIPT REQUE	STED	DELIVERY		
return receipthe planned required to be drilling of a damages to (d) The notion of notice.  Notice is he	ot requested or hand deli- operation. The notice be provided by subsection thorizontal well; and (3) the surface affected by of ces required by this sections.	very, give the surfarequired by this sum on (b), section ten of B) A proposed surfation and gas operation shall be given to URFACE OWNER	ce owner whose land absection shall include this article to a surface use and compens as to the extent the date the surface owner and the surface owner an	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	ess listed in the records of Production Company, LLC	of the sheriff at the t	ime of notice): Name:		
Address: PO			Address		
Houston, TX 77			1134,50		
operation o State: County: District:	west Virginia Wetzel Proctor	nd for the purpose o	T drilling a horizonta  UTM NAD 8  Public Road	Easting: Northing:	act of land as follows: 530,899,494 4,392,599,206 Macedonia Ridge
Quadrangle:	Wileyville, WV		Generally use	ed farm name:	SWN A WTZ
Watershed:	Upper Ohio South				
Pursuant to to be provide horizontal wasurface affe information	ded by W. Va. Code § vell; and (3) A proposed cted by oil and gas ope related to horizontal dis, located at 601 57th 6	22-6A-10(b) to a s surface use and co- rations to the exten- filling may be obtain	surface owner whose impensation agreement the damages are co- lined from the Secret	e land will be un nt containing ar ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-december-19">www.dep.wv.gov/oil-and-december-19</a>
Well Operat	OF: SWN Production Compan	v. LLC	Address:	1300 Fort Pierpont I	Dr. Suite 201
Telephone:	304-884-1575			Morgantown, WV 26	
Email:	Justin_Booth@SWN.com		Facsimile:	304-884-1691	1000.
The Office of					telephone number, as part of our regulatory ies 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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## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Delivery me	thod pursuant to West Virginia C	ode § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ 11AND		
	RN RECEIPT REQUESTED	DELIVERY		
return receip the planned required to b drilling of a damages to ti (d) The notic of notice.	t requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas of	ne surface owner whose land this subsection shall inclu in ten of this article to a surface use and compen- perations to the extent the di given to the surface owner.	I will be used for de: (1) A copy face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt 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 address	ss listed in the records of the sheriff	at the time of notice):		
	as Company, LLC ATTN: Casey Saunders	Name:		
Address 1000	Consol Energy Drive	Addres	8:	
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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.

AUG 3 0 2021

Office of Oil and Gas

Environment of Promision



### 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 10, 2021

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

> Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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

Subject: DOH Permit for the SWN A Pad, Wetzel County

SWN A WTZ 201H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0223 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 89 SLS MP 14.37.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE 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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

RECEIVED
Office of Oil and Gas

AUG 3 0 202

Gary K. Clayton, P.E.

WV Department of

Regional Maintenance Engineer

Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

#### Attachment VI Frac Additives

Chemical del ye	INTERNATION CONTROLS	CAS Number 107-21 1
Register Device   Register   Regi	o (U.S. Well Services)	104-55 2
Formic acid Polyacher Polyacher Polyacher Record K-198 (Champion Technologies) Record CD00 (SWN Well Services) Record CD00 (SWN We		111-76 2
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Fernio CI200 (SWN Well Services)  Corrosion Inhibitor  First adds  First an Reducer  First Adds  First an Reducer  First an Reducer  First an Reducer  First an First an Reducer  First and First adds  First an First an Reducer  First and First and First adds  First an Reducer  First and First and First adds  First an First an Reducer  First and First and First and First adds  First an First an First an First and First a	11 (4111)	54-19-7
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Oxyllylated fatty acid Fatty acids Nodiff of thickness polymer Vater Individual cold Petasisium acetate Farmaldehylae Coopol-FEAC (SWN Well Services) Firction Reducer FDP-5176-15 (Halliburton) Friction Reducer FOR-5176-16 (Halliburton) Friction Reducer FOR-5176-16 (Halliburton) Friction Reducer FOR-5176-16 (Halliburton) Friction Reducer FOR-5176-16 (Halliburton) FOR-5176-16	-CI200 (SWN Well Services)	67-56-1
Modified thickness polymen   Water   Fide		68951-67-7
Water   Hydrochloric acid   Petassium acetate   Formaldehyde   Petassium acetate   Formaldehyde   Petassium acetate   Petass		61790-12-3
England   Potestium acetate   Potestium acet		68527-49-1
Patasium acetate Formuladelyde  EcopoFrEAC (SWN Well Services)  Friction Reducer FDP-3176-15 (Halliburton)  Friction Reducer Flore (FDP-3176-15 (Halliburton))  Friction Reduc		7732-18-5
Formaldehyde		7647-01-0
Composition   Comment		127-08-2
Ciric Acid Vater  PDP-\$1276-15 [Halliburton)		50-00-0
PP-S1276-15 (Halliburton) Friction Reducer Polyacylate Polyacylated Polya	ol-FEAC (SWN Well Services)	64-19-7
Polyacylate		77-92-9
Hydrotreated light petroleum distillate  LOJET DR900 LPP (SWN Well Services) Friction Reducer Distillates (petroleum) hydrotreated light Color of the Strylene Glycol Alcoholo, C12-16, Exceptioned propoxylated Fatty Alcoholo, C12-16, Exceptioned propoxylated Fatty Alcohology and Strylene Proprietary  Fatty Alcohology & Proprietary  Friction Reducer Proprietary  Methanol Integrals Salt  Methanol Nonylphenol Ethoxylate  All-150E [Halliburton) Corrodion Inhibitor Nonylphenol Ethoxylate  Friction Reducer Proprietary  Proprietary  Proprietary  Friction Reducer Proprietary  Friction Reducer Proprietary  Friction Reducer Proprietary  Proprietary  Friction Reducer Proprietary  Friction Reducer Proprietary  Friction Reducer Proprietary  Proprietary  Friction Reducer Proprietary  Fricti		7732-18-5
Distillates (petroleum) hydrotreated light   Ethylene Glycol   Ethylene Ethylene Glycol   Ethylene G	1176-15 (Halliburton)	Proprietary
Ethylene Glycol Alcehols, C12-16, Exceylated propoxylated Fatty Richols ethoxylated Water  R-76 (Halliburton) Friction Reducer R-76 (Halliburton) Friction Reducer Proprietary R-76 (Halliburton) Friction Reducer Proprietary R-76 (Halliburton) Friction Reducer Proprietary Methanel Nonwylaten Reducer R-76 (Halliburton) Friction Reducer R-76 (Halliburton) Corrosion Inhibitor Corrosion Inhibitor Reducer R-76 (Halliburton) Scale Inhibitor Department Salts Reducer Proprietary R-76 (Halliburton) Scale Inhibitor Department Salts Reducer Proprietary Resolute 930 Friction Reducer Reducer Reducer Resolute 930 Friction Reducer Reducer Reducer Reducer Resolute 953 Friction Reducer Re		64742-47-8
Alcehols, C12-15, Exceylated propoxylated Fatry Alcohols ethoxylated Water  (LOIST DRP 130X (SWN Wall Services) Friction Reducer Friction Redu	T DR900 LPP (SWN Well Services)	54674-47-8
Fatty Alcohols ethoxylated Water   Water   Water   Proprietary   Water   Proprietary		107-21-1
Water   Water   Proprietary		58213-24-1
Proprietary		Proprietary
Friction Reducer   Hydrotreated light petroleum distillate   Incrganic Salt		7732-18-5
Incrganic Salt  Methanol Nonyhpenol Ethoxylate  AI-150E (Halliburton) Corrosion Inhibitor No hazardous substance  Hydrocholic Acid Hydrocholic Acid Water  P-65 MC (Halliburton) Scale Inhibitor Organic phosphonate Ammonium Chloride Persolic Services) Water  PHT-FLEX (U.S. Well Services) Viscosifying Agent Detailes, perfoleum, hydrotreated light Detailes, perfoleum,		Proprietary
SYPTRON T-390 (Champion Technologies) Scale Inhibitor Methanol Nonyiphenol Ethoxylate  HAI-150E (Halliburton) Corrosion Inhibitor No hazardous substance  (CL (SWN Well Services) Hydrocholic Acid Water  P-65 MC (Halliburton) Scale Inhibitor Organic phosphonate Ammonium Chloride PTI-FLEX (U.S. Well Services) Viscosifying Agent Distillates, petroleum, hydrotreated light Plexilick 930 Friction Reducer Open Acid Disthanolamide Alcohols, C12-15, Exoxylated Oele Acid Disthanolamide Ammonium Chloride Ammonium Chloride Alcohols, C12-16, Exoxylated Oele Acid Disthanolamide Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide N,N-bis (2-hydroxyethyl) oleamide Cleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Oele Acid Diethanolamide N,N-bis (2-hydroxyethyl) oleamide Cleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Office of Cilian NFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propencia acid, polymer with propenamide Ammonium Chloride Open Cleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Cilian NFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propencia acid, polymer with propenamide Alcohols, C12-16, Exoxylated Water Office of Cilian Ammonium Chloride Open Cale Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Cilian Ammonium Chloride Open Cale Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Cilian Ammonium Chloride Ammonium Chloride Open Cale Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Cilian Ammonium Chloride Open Cale Acid Diethanolamide Open Cale Acid Diethanolamide Ammonium Chloride Open Cale Acid Diethanolamide	(Halliburton)	54742-47-8
Nonylphenol Ethoxylate   Nonylphenol Ethoxylphenol Ethoxylate   Nonylphenol Ethoxylphenol Ethoxylp		Proprietary
Alt   150E (Halliburton)   Corrosion Inhibitor   No hazardous substance	RON T-390 (Champion Technologies)	67-56-1
Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride  Petroleum Distillate Ammonium Chloride  Petroleum Distillate Sodium Chloride  Petroleum Distillate Sodium Chloride  Ammonium Chloride  Petroleum Distillate Sodium Chloride  Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride  Ammonium Chloride Ammonium Chloride  Ammonium Chloride  Ammonium Chloride  Ammonium Chloride  Alcohols, C12-16, Exceylated O ele Acid Diethanolamide Ammonium Chloride  Ammonium Chloride  Ammonium Chloride  N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Sodium Chloride Olete Acid Diethanolamide Ammonium Chloride  N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Sodium Chloride Olete Acid Diethanolamide Alcohols, C12-16, Exceylated Water  Office of Chiefe  Alcohols, C12-16, Exceylated Water  Office of Chiefe Office of Chiefe Ammonium Chloride Olete Acid Diethanolamide Alcohols, C12-16, Exceylated Water  Office of Chiefe Office of Chiefe Office of Chiefe Office of Chiefe Olete Acid Diethanolamide Ammonium Chloride Office of Chiefe		Proprietary
Water P-65 MC (Halliburton) Scale Inhibitor Organic phosphonate Ammonium Chloride  PPTI-FLEX (U.S. Well Services) Viscosifying Agent Distillates, petroleum, hydrotreated light Priction Reducer Copolymer of 2-propenamide Hydrotreated Distillate Sodium Chloride Alcohols, C12-15, Excyylated O ele Acid Diethanolamide Ammonium Chloride Petroleum Distillate Sodium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride Petroleum Distillate Sodium Chloride Ammonium Chloride Oleic Acid Diethanolamide Ammonium Chloride Oleic Acid Diethanolamide Ammonium Chloride Oleic Acid Diethanolamide Oleic Acid Diethanolamide Alcohols, C12-16, Excaylated Vater Office of Chica Acid Diethanolamide Alcohols, C12-16, Excaylated Vater Office of Chica Acid Diethanolamide Oleic Acid Diethanolamide Oleic Acid Diethanolamide Oleic Acid Diethanolamide Office of Chica Acid Diethanolamide Office Offic	50E (Halliburton)	N/A
P-65 MC (Halliburton) Scale Inhibitor Organic phosphonate Ammonium Chloride  DPTI-FLEX (U.S. Well Services) Viscosifying Agent Distillates, petroleum, hydrotreated light  Plexslick 930 Friction Reducer Copolymer of 2-propenamide Hydrotreated Distillate Sodium Chloride Alcohols, C12-16, Excxylated O eic Acid Diethanolamide Ammonium Chloride Plexslick 953 Friction Reducer Petroleum Distillate Sodium Chloride Ammonium Chloride Ammonium Chloride Petroleum Distillate Sodium Chloride Ammonium Chloride Olici Acid Diethanolamide Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide Olici Acid Diethanolamide Olici Acid Diethanolamide Olici Acid Diethanolamide Alcohols, C12-16, Excxylated Olici Acid Diethanolamide Olici Olic	SWN Well Services)	7647-01-0
Ammonium Chloride  PPII-FLEX (U.S. Well Services)  Viscosifying Agent  Distillates, petroleum, hydrotreated light  Copolymer of 2-propenamide Hydrotreated Distillate Sodium Chloride Alcohols, C12-15, Excxylated O ele Acid Diethanolamide Ammonium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride  Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Sodium Chloride Ammonium Chloride Olexslick 953  Friction Reducer Petroleum Distillate Sodium Chloride N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  Office of Chilan  VFRA-2000 (U.S. Well Services)  Anionic Friction Reducer Propencio acid, polymer with propenamide  Propencio acid, polymer with propenamide Olex Alcohols, Classes Diethylenetriamine penta (methylene phosphonic acid) Diethylenetriamine penta (methylene phosphonic acid)  Plexalid 555 NM Scale Inhibitor Diethylenetriamine penta (methylene phosphonic acid) Oleic Acid Diethnolamide Terrakis (hydroxymethyl) phosphonium sulphate Ammonium chloride ((NH4)C) Environmental Professional de Terrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate graups  DD-2950 Friction Reducer Hydrotreated light petroleum distillate		7732-18-5
Distillates, petroleum, hydrotreated light  Plexslick 930 Friction Reducer Copolymer of 2-propenamide Hydrotreated Distillate Sodium Chloride Alcohols, C12-15, Exoxylated O etc Acid Diethanolamide Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride Olec Acid Diethanolamide Ammonium Chloride Olec Acid Diethanolamide Ammonium Chloride Olec Acid Diethanolamide Alcohols, C12-16, Exoxylated Vater  Office of Chloride VERA-2000 (U.S. Well Services) Anionic Friction Reducer Propencia caid, polymer with propenamide Olec Acid Diethanolamide Distillate (petroleum) Propencia caid, polymer with propenamide Distillates (petroleum) Petroleum Distillate (petroleum) Propencia caid, polymer with propenamide Olec Acid Diethanolamide Olec Acid Diethanolamide Olec Acid Diethanolamide Olec Ammonium Chloride Olec Ammonium Chloride Olec Ammonium Chloride Olec Acid Diethanolamide Olec Olec Acid Diethanolamide Olec Olec Olec Olec Olec Olec Olec Olec	MC (Hall burton)	Proprietary
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Hydrotreated Distillate Sodium Chloride Alcohols, C12-15, Excyylated O eic Acid Diethanolamide Ammonium Chloride Oleic Acid Diethanolamide Ammonium Chloride Oleic Acid Diethanolamide Office of Chican Office of Chica	FLEX (U.S. Well Services)	64742-47-8
Sodium Chloride   Alcohols, C12-15, Exceptated   Cele Acid Distribution   Cele Acid Distributi	ick 930	Proprietary
Alcohols, C12-16, Exoxylated Oeic Acid Diethanolamide Ammonium Chloride  Petroleum Distillate Sodium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  VFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propenoic acid, polymer with propenamide Oleic Acid Diethanolamide Oleic Acid Diethanolamide Oleic Acid Diethanolamide Office of Office		54742-47-8
Oeic Acid Diethanolamide Ammonium Chloride  Petroleum Distillate Sodium Chloride  Ammonium Chloride  Ammonium Chloride  Ammonium Chloride  N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate  Ammonium Chloride  N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate  Ammonium Chloride  Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated  Water  Office of Office  VFRA-2000 (U.S. Well Services)  Anionic Friction Reducer  Propenoic acid, polymer with propenamide  Alcohols, C12-16, Exoxylated  Water  Office of Office of Office  Oleic Acid Diethanolamide  Propenoic acid, polymer with propenamide  All G 3 () ()  Pesslick 922  no data available  Copolymer of 2-propenaminde  Distillates (petroleum), hydotreated light Ammonium chloride ((NH4]CI) Environmental Propenoic acid polymer containing carboxylate phosphonate and sulfonate  arrylic acid terpolymer containing carboxylate phosphonate and sulfonate  groups  D-2950  Friction Reducer  Hydrotreated light petroleum distillate		7647-14-5
Ammonium Chloride Petroleum Distillate Sodium Chloride Ammonium Chloride Ammonium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide Petroleum Distillate Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Vater VFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propencio acid, polymer with propenamide Petroleum (Metroleum) Pe		68551-12-2
Plexslick 953 Friction Reducer Petroleum Distillate Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Olica		93-83-4
Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide N,N-bis (2-hydroxyethyl) pleamide N,N-bis (2-hydroxyethyl) pleamide N,N-bis (2-hydroxyethyl) pleamide Nexslick 957 Friction Reducer Petroleum Distillate Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water NFRA-2000 (U.S. Well Services) Anionic Friction Reducer Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Nexslick 922 No data available Openoic acid, polymer with propenamide Nexslick 922 No data available Openoic acid, polymer with propenamide Openoic acid, polymer with propenamide Openoic acid, polymer of 2-propenamide Nexslick 922 No data available Openoic acid, polymer of 2-propenamide Openoic acid, polymer of 2-propenamide Openoic acid, polymer penta (methylene phosphonic acid) No data available Openoic Acid Openoic (NH4)(CI) Openoic acid (NH4)(C		12125-02-9
Ammonium Chloride N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Office of Olivan WFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propenoic acid, polymer with propenamide Pexaid 655 NM Scale Inhibitor Diethylenetriamine penta (methylene phosphonic acid) Plexilick 922 no data available Opolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride (NH4)Cl) Environmental Polici Acid Diethnolam de Folcide PSSOA Biocidal product Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups D-2950 Friction Reducer Hydrotreated light petroleum distillate	ick 953	54742-47-8
N,N-bis (2-hydroxyethyl) pleamide  Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water  VFRA-2000 (U.S. Well Services) Anionic Friction Reducer Propenoic acid, polymer with propenamide Propenoic acid, polymer with propenamide Oleic Acid Diethylenetriamine penta (methylene phosphonic acid) Propenoic acid, polymer of 2-propenaminde Oleic Acid Diethylenetriamine penta (methylene phosphonic acid) Propenoic acid, polymer of 2-propenaminde Oleic Acid Diethylenetriamine penta (methylene phosphonic acid) Propenoic acid, polymer of 2-propenaminde Oleic Acid Oleicholamine Olei		7647-14-5
Petroleum Distillate   Ammonium Chloride   Oleic Acid Diethanolamide   Alcahols, C12-16, Exoxylated   Office of Oleic Acid Diethanolamide   Oleic Acid Diethanolam		12125-02-9
Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water VFRA-2000 (U.S. Well Services)  Anionic Friction Reducer  Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  All G 3 (1)  lexald 655 NM Scale Infilbitor Diethylenetriamine penta (methylene phosphonic acid) lexslick 922  no data available Opolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NN4)CI) Environmental Propenamic Oleic Acid Diethnolamic Oleic Acid Diethnolamic Scale Infilbitor Oleic Acid Diethnolamic Ammonium chloride ((NN4)CI) Environmental Propenamic Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups D-2950  Friction Reducer Hydrotreated light petroleum distillate	NAME OF THE OWNER OWNER OF THE OWNER OWNE	93-83-4
Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water VATERA-2000 (U.S. Well Services)  Anionic Friction Reducer Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide  ALIG 3 (1)  lexald 655 NM Scale Inhibitor Diethylenetriamine penta (methylene phosphonic acid) lexslick 922 no data available Opolymer of 2-propenamide Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Environmental Propenamide Oleic Acid Diethnolam de  Copolymer of 12-propenamide Ammonium chloride ((NH4)CI) Environmental Propenamide Acrylic acid Diethnolam de  Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  D-2950 Friction Reducer Hydrotreated light petroleum distillate	ick 957	64742-47-8
Alcohols, C12-16, Exoxylated Water Office of O		12125-02-9
Water Office of		
Anionic Friction Reducer Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide    Propenoic acid, polymer with propenamide   A   G   S   G		68551-12-2
Propenoic acid, polymer with propenamide    Propenoic acid, polymer with propenamide   A   G   A	2020 1115 11115-1111	7/32-15-5
Scale Inhibitor   Diethylenetriamine penta (methylene phosphonic acid)     Iexslick 922   no data available   Copolymer of 2-propenaminde     Distillates (petroleum), hydotreated light   WV Department     Ammonium chloride ((NH4)CI)   Environmental Policide PSSCA   Blocidal product   Tetrakis (hydroxymethyl) phosphonium sulphate     Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate     groups     D-2950   Friction Reducer   Hydrotreated light petroleum distillate	(-2000 (U.S. Well Services)	64742-47-8
lexslick 922 no data available Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light WV Department Ammonium chloride ((NN4)CI) Environmental Proceeded ((NN4)CI) Environmental Proceeded ((NN4)CI) Environmental Proceeded ((NN4)CI) Environmental Proceeded ((NN4)CI) ((NN4)CI) Environmental Proceeded ((NN4)CI) ((	CONTRACTOR OF THE PARTY OF THE	9003-06.9
Distillates (petroleum), hydotreated light WV Department Ammonium chloride ((NH4)CI) Environmental Proceedings (Invited Proceedings of the PSSCA Biocidal product Tetrakis (hydroxymethyl) phosphonium sulphate  Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  2-2950 Friction Reducer Hydrotreated light petroleum distillate		15827-30-8
Ammonium chloride ((NH4)CI) Environmental Pr Oleic Acid Diethnolam.de  Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  2-2950 Friction Reducer Hydrotreated light petroleum distillate	IUN 222	69418-26-4
Oleic Acid Diethnolam, de  Oleic Acid Diethnolam, de  Diedde PSSCA Biocidal product Tetrakis (hydroxymethyl) phosphonium sulphate  Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  D-2950 Friction Reducer Hydrotreated light petroleum distillate		
olcide PSSOA Elocidal product Tetrakis (hydroxymethyl) phosphonium sulphate  Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  D-2950 Friction Reducer Hydrotreated light petroleum distillate		93-83-4
Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups  D-2950 Friction Reducer Hydrotreated light petroleum distillate	le PS50A	55566-30-8
groups D-2950 Friction Reducer Hydrotreated light petroleum distillate		22200-20-0
D-2950 Friction Reducer Hydrotreated light petroleum distillate		397255-50-7
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The state of the s		Proprietary
William Committee to the committee of th		
	110 77501/	69011-36-5
	G LD-7750W	67-56-1
	U 7. 4747	761-09-08/

1. THIS PLAN IS FOR GRADING, STORMWATER SYSTEMS, AND EROSION AND SEDIMENT CONTROL PURPOSES ONLY.

2. PROPERTY INFORMATION SHOWN HEREON IS FROM GIS DATA PROVIDED BY SOUTHWESTERN ENERGY PRODUCTION COMPANY AND HAS NOT BEEN FIELD VERIFIED. 3. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION, IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SET FULLY DEPICTS ALL WORK ASSOCIATED WITH THIS PROJECT.

4. SOIL TYPE BOUNDARY, AND CHARACTERISTICS SHOWN HEREON WERE ACQUIRED FROM NRCS WEB SOIL SURVEY.

5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT, DATED MARCH 21, 2017, PROVIDED BY GTA ENERGY, LLC FOR FULL SOIL STABILIZATION TECHNIQUES TO BE IMPLEMENTED IN CONSTRUCTION OF CUT AND FILL SLOPES. 6. THE TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS

PERFORMED BY JHA COMPANIES FROM JANUARY 03, 2017 TO JUNE 28, 2018. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WV GIS TECHNICAL CENTER.

7. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE. VEGETATIVE BUFFER TO REMAIN.

8. FILL WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM-698). FILL LIFT THICKNESS WILL BE NO GREATER THAN 12", NOTHING FROZEN OR TOO WET WILL BE PLACED IN FILL AREAS. PARTICLE SIZE OF THE FILL WILL BE NO GREATER THAN 6" AND FREE OF OBJECTIONABLE MATERIAL

IS* COMPOST FILTER SOCK PA* COMPOST FILTER SOCK ROCK CONSTRUCTION ENTRANCE R-3 AGGREGATE CLASS 4 GEOTEXTRE (APRON UNDERLAYMENT) SITE RESCIL AREA PROPOSED STORM CATCHBASINS	135 4,475 144 434 7,4	LF LF CY SY
ROCK CONSTRUCTION ENTRANCE R-3 AGGREGATE CLASS 4 GEOTEXTILE (APRON UNDERLAYMENT) SITE RESCIL ARBA	144 434	CY
CLASS 4 GEOTEXTILE (APRON UNDERLAYMENT) SITE RESOIL AREA	434	
SITE RESOIL AREA		SY
(107-00-107)	7.4	
PROPOSED STORM CATCHBASINS		AD
the state of the s	5	EA
18" HDPE STORM PIPE (CDC 1 AND 3)	142.5	LF
4" HPDE STORM PIPE (CDC 2)	60	LF
OUTLET PROTECTION	7	EA
4* PERF, PVC SCH 40 PIPE (PAD UNDERDRAIN)	1,715	U
4* SOLID PVC SCH 40 PIPE (CATCH BASIN OUTLET)	407	LF
WELL PAD PERIMETER BERM	1,745	LF
d* DATE VALVES	5	EA
4" PERF. PVC SDR 35 PIPE (FILL SLOPE BENCH DRAIN)	8,615	LF
6" SOLID PVC SDR 35 PIPE (BENCH DRAIN COLLECTOR)	550	(F
AASTHO #57 (BENCH ORAIN BEDDING)	1,440	TONS
PAD HEAVY DUTY #467 STONE (6")	1,070	EX
PAD HEAVY DUTY #1 STONE (14")	2,490	CY
PAD STANDARD 4467 STONE (4")	2,770	CY
PAD STANDARD #1 STONE (12")	8,295	CY
ACCESS ROAD #467 STONE (4")	290	CY
ACCESS ROAD IM STONE (12')	965	CY
PAD CLASS 2 GEOTEXTILE	15,640	SY
ACCESS ROAD CLASS 2 GEOTEXTILE	1,300	SY
EARTHWORK VOLUMES OUT	57,625	CY
EARTHWORK VOLUMES FILL	55,065	CY
WELL CELLARS		EA
BEOGRID (MIRAGRID 5XT OR EQUIVALENT)	3440	SY

### EROSION AND SEDIMENT CONTROL PLAN **FOR**

### SWN PAD A

PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA RECENT



PROPOSED CONSTRUCTION TO BE PERFORMED IN

ACCORDANCE WITH THIS DRAWING SET (43 PAGE SHEET SET.

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

FORCE / EFFECT IN DEFINING THE REQUIREMENTS FOR THE

IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR

PROJECT, IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO

**APPROVED** WVDEP OOG

8/6/2018

SWN PAD A ONLY - 6.61 ACRES SWN A STAGING PAD ONLY - 6.16 ACRES SWN PAD A TOTAL PROJECT - 12.77 ACRES COORDINATES:

PAD 1 SITE ENTRANCE (NAD 83) LAT: 39.582481 LONG: -80.638975

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

STAGING PAD SITE ENTRANCE (NAD 83) LAT: 39.683182

CENTER OF STAGING PAD (NAD 83) LAT: 39.683770

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

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

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



LONG: -80.637249

LONG: -80.638525

STATE OF VIRGO NAL ENGINE SURVEYORS

LOCATION

REVISED PER DEP COMMENTS

DESCRIPTION

2 WORKING DAYS

BEFORE YOU DAY CALL TOLL FREE

800-245-4848

Miss Utility of West Virginia

Southwestern Energy

# 17272

DUBONIA.

P. DUBON



DATE

PREPARED FOR:

www.jhacompanies.com

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

OH + NY + 08/03/2018 AS NOTED

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

> > C.001

COVER SHEET

PLAN STATUS:

PROJECT CONTACTS OPERATOR: SOUTHWESTERN ENERGY, LLC 179 INNOVATION DRIVE JANE LEW, WV 26378 PHDNE: (304) 884-1618

WWW.SWN.COM

INTERPRETATION.

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

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

PROJECT MANAGER: JOHN DUBOWSKI

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

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

