

# west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary <u>www.dep.wv.gov</u>

Tuesday, July 28, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit approval for CONSTANCE TAYLOR WTZ 401H 47-103-03360-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: CONSTANCE TAYLOR WTZ 4
Farm Name: CONSTANCE A. TAYLOR

U.S. WELL NUMBER: 47-103-03360-00-00

Horizontal 6A New Drill Date Issued: 7/28/2020

API Number:	

# **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

# **CONDITIONS**

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
  (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
  activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

# **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)

API NO. 47-103 - 4710303360

OPERATOR WELL NO. Constance Toylor WITZ 401H
Well Pad Name: Constance Taylor WITZ

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

1) Well Operat	or: SWN	oroduction (	Co., LLC	494512924	103-Wetzel	7-Proctor 68	31-Wileyville
•				Operator ID	County	District Q	uadrangle
2) Operator's V	Vell Numbe	r: Constance	Taylor W	TZ 401H Well Pac	l Name: Cons	stance Taylor	WTZ
3) Farm Name/	Surface Ow	ner: Consta	ance A. T	aylor Public Roa	d Access: Br	ock Ridge Roa	ıd
4) Elevation, cu	urrent groun	d: <u>1430'</u>	E	levation, proposed	post-construct	ion: 1430'	
5) Well Type	(a) Gas	x	_ Oil _	Unde	erground Stora	ige	
	Other						
	(b)If Gas	Shallow	<u>x</u>	Deep			
		Horizontal	×	****	<i>T</i> 2	MH 6/22/20	
<ol><li>6) Existing Pad</li></ol>	: Yes or No	Yes				1141 6/22/20	
· •	_	` ''		pipated Thickness a		` '	
raiget Formation-	- warceilus, up-u	p well to the North	i, rarget rop i	TVD- 7394', Target Base T\	/U- /440', Anticipat	ed Trickness- 46°. As	SOCIATED Pressure- 4836
8) Proposed To	tal Vertical						
9) Formation at	Total Verti	cal Depth:	Marcellus	3			**************************************
10) Proposed T	otal Measur	ed Depth:	22236'				
11) Proposed H	orizontal Lo	eg Length:	14031.55	5'			DECEMEN
12) Approximat	te Fresh Wa	ter Strata De	pths:	365'			Office of Oil and G
13) Method to I	Determine F	resh Water I	Denths:	Logs on Pad			JUN <b>2 4</b> 2020
•			~	ty Profile Analysis			WV Department o
15) Approximat	te Coal Sear	n Depths: 1	382'				LIMIOHHEMALI 1016(
·		`		ine, karst, other):	None that we	are aware of.	
				_			
l 7) Does Propos directly overlyir				ns Yes	No	X	
moony overlyn	ng or adjace	nt to an activ	o mino.	103	110		
(a) If Yes, prov	vide Mine I			·			
		Depth	:		<del>*</del>		
		Seam:					
		Owner	<b></b>				

WW-6B (04/15) APINO. 47-103 4710303360

OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	470'	470'	362 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2900'	2900'	826 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	22336'	22336'	Tell 3787sx/ 1007 inside Intermediate
Tubing							
Liners							

DMH 6/22/20

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (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	
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing							
Liners							

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<u>PACKERS</u>	

Kind:	
Sizes:	
Depths Set:	

WW-6B (10/14) APINO. 47- 43710303360

OPERATOR WELL NO. Constance Teylor WTZ 401H

Well Pad Name: Constance Taylor WTZ

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

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

DMH 5-19-20

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): 18.72
- 22) Area to be disturbed for well pad only, less access road (acres): 8.99
- 23) Describe centralizer placement for each casing string:

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

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

See Attachment \*\*\*

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WV Department of Environmental Protection

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.

<sup>\*</sup>Note: Attach additional sheets as needed.

4710303360

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE	$\sim$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
(FRESHWATER)	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
PROTECTION 3° b	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	$\times$	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	X	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	$\supset$	X	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	X	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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#### **Proposed Drilling Program** Southwestern Energy Company Well: **CONSTANCE TAYLOR WTZ 401** Re-entry Rig: TBD Field: VICTORY FIELD WET Prospect: Marcellus Shale County: WETZEL State: SHL: 39.6545 Latitude -80.6793 Longitude BHL: 39.6762 Latitude -80.7241 Longitude KB Elev: 1.452 ft MSL KB: 21.8 ft AGL GL Elev: 1,430 ft MSL 126' to 490' Air/Mist PROD TOC Lead @ 2,950 ' MD PROD TOC Tail @ 7,114 ' MD 490 'to 2,920 ' Air/Mist **TUBULAR DETAIL** Planned Interval Casing Size Weight Grade Casing String (in) (Min) (Min) From To 94.0# Conductor 20 J-55 01 126 2,920 'to 7,114' Air/Mist 470 Surface 13.375 54.4# J-55 0' 9.625 36.0# 0 2.900 Int/Coal J-55 Production 5.5 20.0# P-110 HP 0' 22,319 CEMENT DETAIL Sacks Class Density Conductor: 151 A 19.3 Surface: 362 A 15.6 Intermediate: 826 15.6 A Production: 3803 A 15.6 TD at 7,114 ' Freshwater Depth - 365 'TVD KOP at 7,114 'MD 7,114 to 8,144 Coal Depth - 1,382 'TVD 12.5-13.5 ppg Saltwater Depth - 1,467 TVD RECEIVED Office of Oil and Gas TVD - 7,425 ' JUN 2 4 2020 TMD - 22,319 1 WV Department of Environmental Protection TD at 22,319 'MD 7,053 'TVD 7,425 ' Target Center EOB at 8,144 'MD EOB at 7,425 'TVD Onondaga 7,068 TVD 8.144 to 22,319 12.5-13.5 ppg SHL Onondaga 7,440 'TVD Created by: C R Hall on 05/04/2020

#### Southwestern Energy Company **Proposed Drilling Program CONSTANCE TAYLOR WTZ 401** Re-entry Rig: TBD Well: Prospect: Field: VICTORY FIELD WET Marcellus Shale County: WETZEL State: SHL: 39.6545 Latitude -80.6793 Longitude BHL: 39.6762 Latitude -80.7241 Longitude KB: 26 ft AGL 1,430 ft MSL KB Elev: 1,456 ft MSL GL Elev: 126 'to 490' Air/Mist PROD TOC Lead @ 2,950 ' MD PROD TOC Tall @ 7,115 ' MID 490 to 2,920 Air/Mist TUBULAR DETAIL Weight Grade Planned Interval Casing Size Casing String (Min) (Min) (in) From To 94.0 # 01 Conductor 20 J-55 126 2,920 to 7,115 Air/Mist Surface 13.375 54.4# J-55 01 470 Int/Coal 9.625 36.0# J-55 0 2.900 Production 5.5 20.0# P-110 HP 01 22,236 CEMENT DETAIL Sacks Class Density Conductor: 151 A 19.3 Surface: 362 A 15.6 Intermediate: 826 A 15.6 Production: 3787 A 15.6 TD at 7.115 ' Freshwater Depth - 365 'TVD KOP at 7,115 ' MD 7,115 'to 8,157' Coal Depth - 1,382 'TVD 12.5-13.5 ppg Saltwater Depth - 1,467 'TVD Office of Oil and Gas TVD - 7,425 ' TMD - 22,236 ' JUN 2 4 2020 WV Department of Environmental Protection DMH 6/22/20 TD at 22,236 ' MD 7,425 ' Target Center 7,053 'TVD 8,157 'MD EOB at 7.425 'TVD 8,157 'to 22,236 ' 12.5-13.5 ppg ated by: C R Hall on 06/12/2020

Constance Taylor WTZ 401H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-103-03149	SWN PRODUCTION COMPANY, LLC	ACTIVE	39.654652	-80.679254	7416	MARCELLUS	Burket, Tully
47-103-03150	SWN PRODUCTION COMPANY, LLC	ACTIVE	39.654526	-80.679223	7432	MARCELLUS	Burket, Tully

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WW Department of Environmental Protection

WW-9 (4/16)

API Number 47 -	103	3
Operator's	s Well	No. Constance Taylor WTZ 401H

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

	SAL & RECLAMATION PLAN	
Operator Name SWN Production Co., LLC	OP Code 494512924	
Watershed (HUC 10) Upper Ohio South	Quadrangle Wileyville	
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes No V	e the proposed well work? Yes 🗸 No 📗	_
If so, please describe anticipated pit waste:		
0.00.000	No If so, what ml.?	Don't
Proposed Disposal Method For Treated Pit Wastes:		5-18-26
Land Application	Verious Approved Facilities	3
Underground Injection (UIC Permit N  Reuse (at API Number At the next anticpia		
Off Site Disposal (Supply form WW-9  Other (Explain recovery and solidification	for disposal location)	
Will closed loop system be used? If so, describe: Yes- See Attack	hment 3A	
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. Air drill to KOP, Aud drill with SOBM	from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medium? Attachment 3B		
Drill cuttings disposal method? Leave in pit, landfill, removed of	fsite, etc. landfill	
-If left in pit and plan to solidify what medium will be us		
-Landfill or offsite name/permit number? Meadowfill SWF-16 Apex Sanitary Landfill Ub-U8438, Brooke Co SVVF	032. Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel C	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	of any load of drill cuttings or associated waste reject	o disclose
I certify that I understand and agree to the terms and corn on August 1, 2005, by the Office of Oil and Gas of the West Virging provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action.  1 certify under penalty of law that I have personally explication form and all attachments thereto and that, based obtaining the information, I believe that the information is true penalties for submitting false information, including the possibility.  Company Official Signature	inia Department of Environmental Protection. I under iny term or condition of the general permit and/or of examined and am familiar with the information sub- on my inquiry of those individuals immediately re- e, accurate, and complete. I am aware that there	rstand that the ther applicable mitted on this esponsible for are significant SEAL R
Company Official (Typed Name) Brittany Woody	SWN Production Company, 179 Innovation Dr. Jane Lew, W	LLC
Company Official Title Senior Regulatory Analyst	222222	RECEIVED
18.		Office of Oil and Gas
Subscribed and sworn before me this 15t day of 1	lay , 20 20	JUN 2 4 2020
_ Gessica L. Van Hild	Notary Public En	M/ Department of vironmental Protection
My commission expires 1-20-20		

tion Treatment: Acres Disturbed _18	8.72	Prevegetation	рН
ermined by pH test min.2 Tons/acre or to correct			
ype 10-20-20			
amount 600/500	lbs/acre		
lay/Straw	_Tons/acre		
	Seed Mixtures		
Temporary		Per	manent
lbs/acre		Seed Type	lbs/acre
	_		
	-		
cation, pit and proposed area for land from the pit will be land applied, inc application area.			
from the pit will be land applied, inc application area. n of involved 7.5' topographic sheet.	clude dimensions (I	L x W x D) of the pit, a	and dimensions (L x W), and
from the pit will be land applied, inc application area.  n of involved 7.5' topographic sheet.	clude dimensions (I		and dimensions (L x W), and
from the pit will be land applied, inc application area. n of involved 7.5' topographic sheet.	clude dimensions (l	L x W x D) of the pit, a	and dimensions (L x W), and
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from the pit will be land applied, incapplication area.  n of involved 7.5' topographic sheet.	clude dimensions (l	L x W x D) of the pit, a	RECEIVED Office of Oil and Gas
from the pit will be land applied, incapplication area.  n of involved 7.5' topographic sheet.	clude dimensions (l	L x W x D) of the pit, a	RECEIVED Office of Oil and Gas JUN 2 4 2020
from the pit will be land applied, incapplication area.  n of involved 7.5' topographic sheet.	clude dimensions (l	L x W x D) of the pit, a	and

### 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 remove additional low gravity solids before being reused or transferred to onsite storage.

# LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

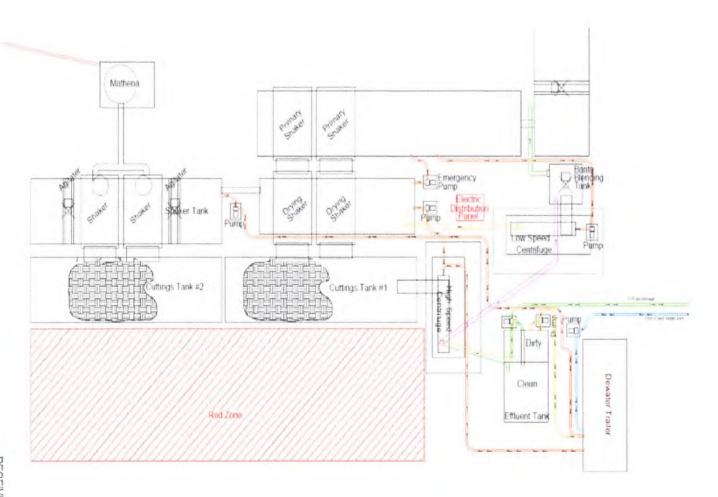
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

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# Solids Control Layout





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# **Attachment 3B**

# **Drilling Mediums**

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

Air

Freshwater (if needed based on conditions)

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

Air

Brine (In Gas Storage areas)

**Organophilic Bentonite** 

# **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** 

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Attachment 3C



# **WVD Seeding Specification**



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)

IOI	NO	DEA	NIIC	DDO	PERTI	EC
	W-U	AUA	I WILL	PINU	PERM	Ear

eed Mixture: ROW Mix					SWN Supplied
Orchardgrass Timothy Annual Ryegrass Brown Top Millet Red Top Medium Red Clover White Clover Birdsfoot Trefoil Rough Bluegrass	RECEIVED Office of Oil and Gas	JUN 2 4 2020	WV Decartment of Environmental Profection	40% 15% 15% 5% 5% 5% 5% 5%	All legumes are innoculated at 5x normal rate
Apply @ 1 April 16					Apply @ 2001bs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat

# SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
	*unless otherwise dictated by soil test results

## Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

## Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

#### Special Considerations:

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

# ORGANIC PROPERTIES

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

# WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre
April 16th- Oct. 14th	Oct, 15th- April 15th
NO EEPTILIZED OF L	IME INSIDE WETLAND LIMITS

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

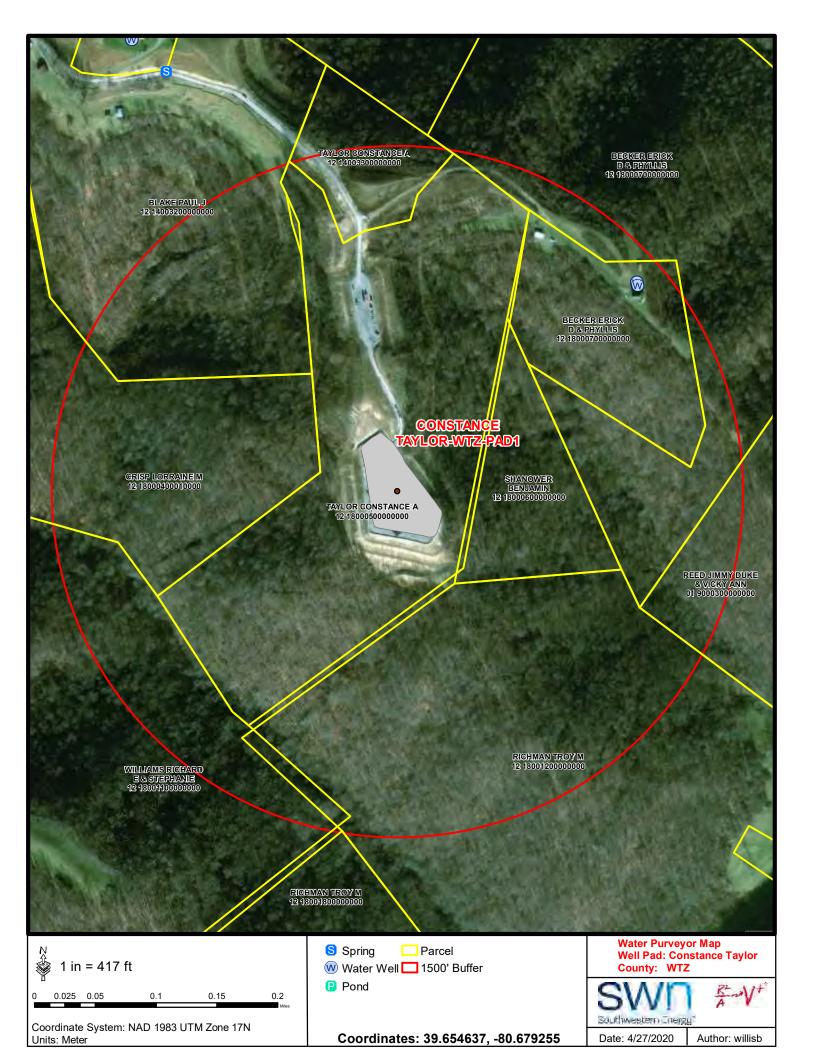


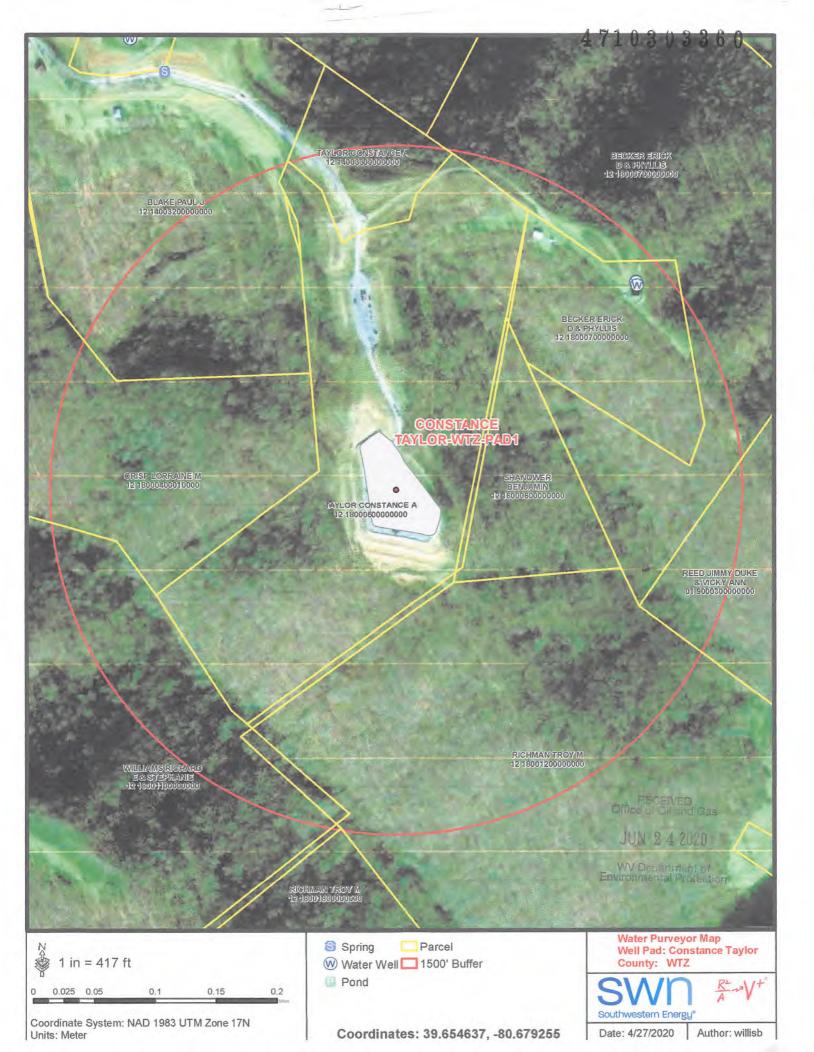
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

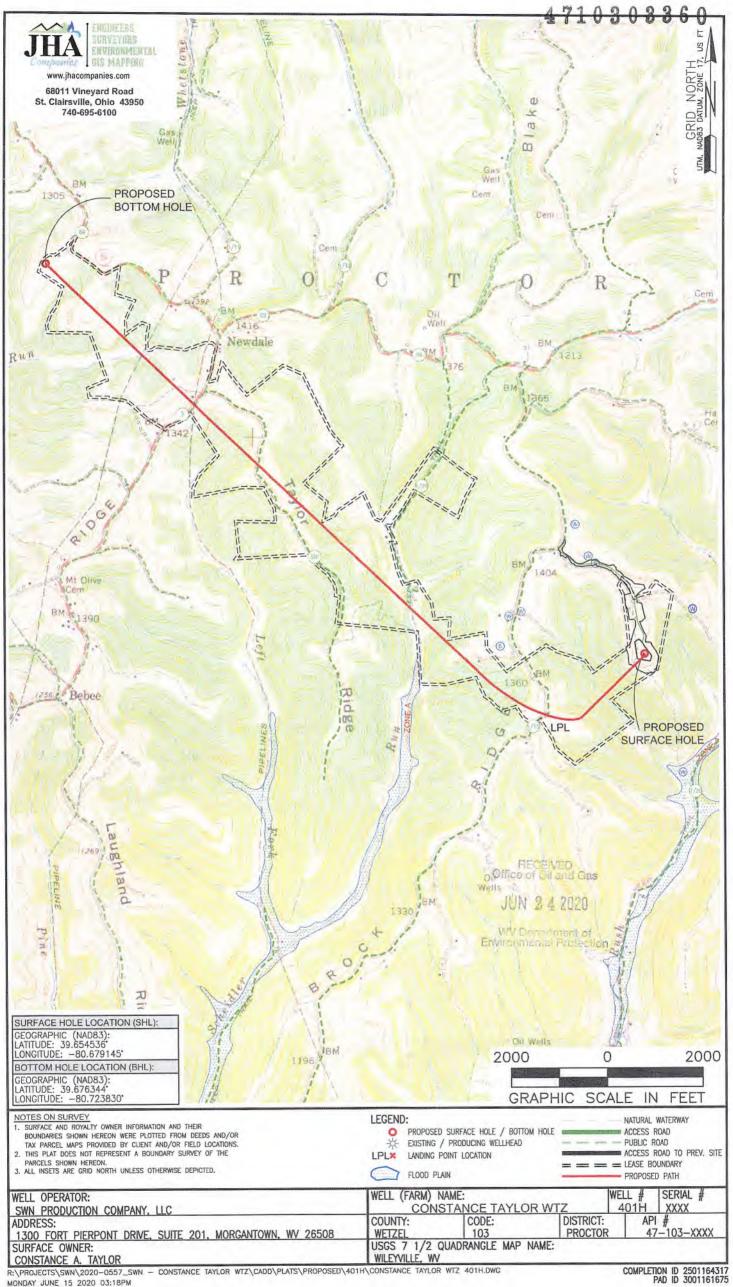
API NO. 47-XXX-XXXXX
WELL NAME: Constance Taylor WTZ 401H
Wileyville QUAD
Proctor DISTRICT
WETZEL COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>4/28/2020</u>	RECEIVED Office of Oil and Gas
Title: Senior Regulatory Analyst	SWN Production Co., LLC	JUN 2 4 2020
Approved by:		WV Department of Environmental Protection
Name:	Date: 5-18-20	
Title: 11 + Ges Inspector	-	
Approved by:		
Name:	Date:	
Title:	-	

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL









	WELL BORE TABLE FOR SURFACE/ROYALTY OWNER	RS
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEI
1	CONSTANCE A. TAYLOR (5)/(R)	12-18-05.0
TRACT	SURFACE OWNER	TAX PARCEI
2	TYLER C. BLAKE	12-18-11.0
3	TYLER C. BLAKE	12-18-10.0
4	WANDA HUGGINS	12-18-01.0
5	BUSTER TERRY BLAKE	12-14-30.0
6	MICHAEL DAVID MCABEE	12-14-29.0
7	HARRY E. & MICHAEL MCABEE	12-14-28.0
8	HARRY E. & MICHAEL MCABEE	12-14-19.0
9	HARRY E. MCABEE, DAVID MICHAEL, & GARY SPEECE JR.	12-14-18.0
10	KEVIN R. & JAMES L. MOLYNEAUX	12-13-49.0
11	MARY C. & ROBERT JOHN OLSON	12-14-17.0
12	MARY C. & ROBERT JOHN OLSON	12-13-42.0
13	MARY C. & ROBERT JOHN OLSON	12-13-41.0
14	MARY C. & ROBERT JOHN OLSON	12-13-27.0
15	DWAYNE FRED GODDARD	12-13-16.4
16	CAROL MARTIN	12-13-15.4
17	JEREMY S. GODDARD	12-13-15.3
18	WAYNE EDWARD & MARY ANN GODDARD	12-13-15.0

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
A	ERICK D. & PHYLLIS BECKER	12-18-07.0
В	BENJAMIN SHANOWER	12-18-07.1
C	BENJAMIN SHANOWER	12-18-06.0
D	TIMOTHY N. WELLS	12-18-12.0
E	TIMOTHY N. WELLS	12-18-18.0
F	R.W. & VIOLA STRICKLINE	12-18-23.0
G	TYLER C. BLAKE	12-18-17.0
H	DAVID R. CALDERWOOD	12-18-09.0
1	COASTAL FOREST RESOURCE CO.	12-18-08.0
1	HARRY E. & MICHAEL MCABEE	12-17-26.0
K	BUSTER & BARBARA A. BLAKE	12-17-13.0
L	BUSTER & BARBARA A. BLAKE	12-14-36.0
M	CATHERINE MCDOWELL	12-13-69.0
N	KEVIN R. & JAMES L. MOLYNEAUX	12-13-67.0
0	RANDY T. JEFFERS	12-13-66.0
P	BRENT A. BLAKE	12-13-48.0
Q	MARY C. & ROBERT JOHN BLAKE	12-13-41.2
R	ROBERT L. & RHONDA E. BLAKE	12-13-41.1
5	ROBERT L. & RHONDA E. BLAKE	12-13-41.4
T	JAMES K. GODDARD	12-13-39.2
U	CONNIE S. BURROUGH	12-13-38.0
V	CONNIE S. BURROUGH	12-13-37.0
W	TODD E. GODDARD	12-13-26.0
X	TODD E. GODDARD	12-13-15.5
Y	TODD E. GODDARD	12-13-15.7
Z	ROBERT A. & JACQUELINE GODDARD	12-13-15.1
AA	CLYDE V. & LISA K. STILLION	12-13-09.0
AB	JOSEPH HOHMAN	12-13-71.0
AC	DWAYNE FREDERICK GODDARD	12-13-16.0
AD	SWN PRODUCTION COMPANY, LLC	12-13-16.3
AE	UNKNOWN OWNER	12-13-29.0
AF	JAMES S. TAYLOR	12-13-28.0
AG	JAMES S. TAYLOR	12-13-31.0
AH	KOREY L. & VICKI S. KANN	12-14-10.0
Al	BUSTER BLAKE	12-14-12.1
AJ	GARY E. SPEECE JR.	12-14-20.0
AK	JAMES H. FOGG	12-14-21.2
AL	KIP MARTIN & SANDRA K. BLAKE	12-14-31.0
AM	KIP MARTIN & SANDRA K. BLAKE	12-18-04.1
AN	DAVID F. & ROSANNE POSTLETHWAIT	12-18-03.0
AO	WANDA JARRELL	12-18-02.0
AP	BRENT PAUL BLAKE, ETAL; L/E PAUL J. BLAKE	12-14-32.3
AQ	CONSTANCE A. TAYLOR	12-14-33.0

REVISIONS:	COMPANY:	SWN Production Company, LLC		SWN A V + ° Production Company ™
	OPERATOR'S WELL #: 47-	CONSTANCE	TAYLOR WTZ 1H	DATE: 06-15-2020 API NO: 47-103-XXXXX DRAWN BY:R. GRIMES
	DISTRICT: PROCTOR	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO:2020-557 WELL LOCATION PLAT
	pour)		J. J	COMPLETION ID 25011643 PAD ID 30011616

WW-6A1 (5/13)

Operator's Well No. Taylor WTZ 401H

# 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:

Number Cuentar Lasser etc. Grantes Lasses etc. Pavelty D.			
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Be	Grantor, Lessor, etc. Grantee, Lessee, etc.	etc. Royalty	Book/Page

See Exhibit "A"

At least 7 minerals owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

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

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

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

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

Well Operator:	SWN Production Company, LLC.	
By:	Brandi Williams	
Its:	Staff Landman	

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
Constance Taylor WTZ 401H
Wetzel County, West Virginia

			county, vvest vagana				
Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC	
1	12-18-5	Tammy Kemnetz, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	130A/70 <del>6</del>	0.00%	•
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Debra Keesee, a married woman dealing in her sole	Chesapeake Appalachia, LLC	17,00%	132A/456		
		and separate property  Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Joan Sauro, A/K/A Joany Sauro, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	153A/480		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Leonard Dunham, A/K/A Leonard Sidney Dunham, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	130A/951		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Harold H. Blake And Donna M. Blake, H/W	Haddad And Brooks, Inc.	12.50%	79A/452	İ	/
		Haddad And Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	I\	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
2	12-18-11	Kenneth Eugene VanDyne and Vicky A. VanDyne, as JTWROS	SWN Production Company, LLC	17.00%	239A/336	0.00%	
		Terry Lee VanDyne and Sandy VanDyne, his wife	SWN Production Company, LLC	17.00%	239A/332		
		Kenneth Vandyne, Aka Kenneth Eugene Vandyne And Vicky A. Vandyne, Aka Vicky Ann Vandyne, husband and wife	Antero Resources Corporation	18.00%	173A/679		
		Antero Resources Corporation	SWN Production Company, LLC		240A/51		
		West Virginia Department of Transportation	SWN Production Company, LLC	20.00%	SEE ATTACHED	V	/
3	12-18-10	Jolene Henderson, a married woman dealing in her sole and separate property	TH Exploration, LLC	18.000%	210A/193	0.00%	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	· ·	
4	12-18-1	Elizabeth P. Orner, A Widow	Chesapeake Appalachia, LLC	17.00%	154A/463	0.00%	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	/	/
		Piney Holdings Inc., A Florida Corporation	SWN Production Company	20.00%	197A/210	——-Y	
5	12-14-30	Blake Donna M A/K/A Donna Mae Blake A Widow	Chesapeake Appalachia LLC	17.00%	125A/653 157A/540	0.00%	
		Chesapeake Appalachia, LLC Blake Violet A Widow	SWN Production Company, LLC  Chesapeake Appalachia LLC	18.00%	126A/954		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	20.0070	157A/540		
		Blake Buster Terry And Barbara A Blake his wife	Chesapeake Appalachia LLC	18.00%	131A/139		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
-		Paul J. Blake, A/K/A Paul Blake, A Widower (Life Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest)	Chesapeake Appalachia LLC	18.00%	139A/243		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Blake Donna M A/K/A Donna Mae Blake A Widow	Chesapeake Appalachia LLC	17.00%	125A/648		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Blake Violet Widow	Chesapeake Appalachia LLC	18.00%	126A/950		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	40.000	157A/540		
		Blake Buster Terry And Barbara A Blake	Chesapeake Appalachia LLC	18.00%	131A/134 157A/540		
		Chesapeake Appalachia, LLC  Paul J. Blake, A/K/A Paul Blake, A Widower (Life	SWN Production Company, LLC		12/A/240	RECAIN Office of Cal	VED and
		Estate Interest), Brent Paul Blake, A/K/A Brent P. Blake, a single man, Bruce Scott Blake, A/K/A Bruce S. Blake, a married man dealing in his sole and separate property And Kip Martin Blake, A/K/A Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest)	Chesapeake Appalachia LLC	18.00%	138A/943	JUN 24	202
			Charles de la company		157A /F 40	WV Depand Environment	1701
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
Constance Taylor WTZ 401H
Wetzel County, West Virginia

ict#	Tax Parcel	Lessor	Lessée	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
6	12-14-29	David Hugh Skinner, Sr. Family Trust, By Wesbanco Bank, Inc., Acting As Trustee	Chesapeake Appalachia, LLC.	17.00%	140A/839	0.00%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	16.00%	103A/320	
		BRC Working Interest Company LLC	Chesapeake Appalachia, LLC		103A/470	
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.		120A/109	
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		158A/801	
7	12-14-28	Furbee David a single man	Chesapeake Appalachia LLC	12.50%	98A/784	0.00%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Marga Furbee A Widow	Chesapeake Appalachia LLC	12.50%	100A/88	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Hall Laura & Robert H Hall her husband	Chesapeake Appalachia LLC	12.50%	99A/456	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Kutis Deborah A/K/A Deborah Kutis Miller A Married Woman	Chesapeake Appalachia LLC	12.50%	99A/654	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
	,,,,,	Brooks Joann a single woman	Chesapeake Appalachia LLC	12.50%	99A/657	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		White Susan a single woman	Chesapeake Appalachia LLC	12.50%	100A/107	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Mckinney Jeffrey S And Tamara M his wife	Chesapeake Appalachia LLC	12.50%	100A/210	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Mckinney Sharon A a single woman	Chesapeake Appalachia LLC	12.50%	100A/207	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
	<del></del>	Love Karen L a single woman	Chesapeake Appalachia LLC	12.50%	100A/493	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Slaten Mark Alan	Chesapeake Appalachia LLC	12.50%	100A/566	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Slaten Steven W a single man	Chesapeake Appalachia LLC	12.50%	100A/630	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Wojcik Barbara A And David S her husband	Chesapeake Appalachia LLC	12.50%	101A/321	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Machleit Donna Lee a single woman	Chesapeake Appalachia LLC	12.50%	101A/57	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	ν.
	12-14-19	Marga Furbee, A Widow	Chesapeake Appalachia, L.L.C.	12.50%	99A/19	0.00%
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		David Furbee, a single man	Chesapeake Appalachia, L.L.C.	12.50%	99A/73	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Laura Hall And Robert H. Hall, her husband	Chesapeake Appalachia, L.L.C.	12.50%	99A/453	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Sharon A. Mckinney, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	100A/253	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Jeffrey S. Mckinney And Tamara M. Mckinney, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/256	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Germany Properties, LTD.	SWN Production Company, LLC	18.00%	205A/192	
		John D. Gourley	SWN Production Company, LLC	18.00%	203A/18	
		Steven W. Slaten, a single man	Chesapeake Appalachia, L.L.C.	12.50%	100A/579	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Mark Alan Slaten, a single man	Chesapeake Appalachia, L.L.C.	12.50%	100A/582	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Karen L. Love, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	100A/623	Office of
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		Barbara A. Wojcik And David S. Wojcik, her husband	Chesapeake Appalachia, L.L.C.	12.50%	101A/63	JUN

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
Constance Taylor WTZ 401H
Wetzel County, West Virginia

Tract#	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	interest Not Leased by SWN Production Company, LLC	
		Donna Lee Machleit, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	101A/66		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Joann Brooks, A/K/A Ioanne Brooks, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	103A/565		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
_		Susan White, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	103A/623		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Deborah Kutis Miller, A/K/A Deborah Kutis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	104A/653		,
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	V	
9	12-14-18	Faith leleen Blake, A Widow	Chesapeake Appalachia, L.L.C.	17.00%	113A/497	0.00%	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Kenneth Franklin Blake, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	114A/430		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Ruth E. Blake, A Widow	Chesapeake Appalachia, L.L.C.	17.00%	113A/501		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Opal M. Blake, A Widow	Antero Resources Appalachia Corporation	20.00%	155A/134		/
		Antero Resources Appalachia Corporation	SWN Production Company, LLC		168A/332	1	
10	12-13-49	Marga Furbee, A Widow	Chesapeake Appalachia, L.L.C.	12,50%	98A/193	0.00%	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	100000	157A/540		
		David Furbee, a single man	Chesapeake Appalachia, L.L.C.	12.50%	98A/196		
		Chesapeake Appalachia, LLC	5WN Production Company, LLC	12.50%	157A/540		
		Susan White, a single woman Chesapeake Appalachia, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	99A/76 157A/540		1.50
		Joann Brooks, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	98A/735		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Deborah Kutis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12,50%	98A/73B		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		LA.
		Laura Hall And Robert H. Hall, her husband	Chesapeake Appalachia, L.L.C.	12.50%	99A/459		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Karen L. Love, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	100A/614		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Mark Alan Slaten, a single man	Chesapeake Appalachia, L.L.C.	12.50%	100A/702		410
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Steven W. Slaten, a single man	Chesapeake Appalachia, L.L.C.	12.50%	100A/713		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Barbara A. Wojcik And David S. Wojcik, her husband	Chesapeake Appalachia, L.L.C.	12,50%	102A/498		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Donna Lee Machleit, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	102A/495 157A/540		
		Chesapeake Appalachia, LLC  Jeffrey S. Mckinney, A/K/A Jeffrey Mckinney And Tamara M. Mckinney, his wife	SWN Production Company, LLC  Chesapeake Appalachia, L.L.C.	12,50%	100A/879		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		
		Sharon A. Mckinney, A/K/A Sharon Mckinney Ertle, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	100A/840		
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540		/
		Recon Resources, LLC, D/B/A Recon Royalties	SWN Production Company, LLC	18.00%	182A/875	N	
11	12-14-17	* Royalty Owner	n/a	n/a	n/n	13.3333%	RECERTS
-		Karen Banse, a single woman	SWN Production Company, LLC	17.00%	203A/172	Onto	PECEIVED e of Cilcand o
		Zoanne Hulsey, a single woman	SWN Production Company, LLC	17.00%	204A/607	-11.1	
		Nancy Closson, a single woman	SWN Production Company, LLC	17.00%	204A/648	JU	V 2 4 2021
		James P. Exter, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	204A/617	_ WV	Deportment e Nental Protet

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 Constance Taylor WTZ 401H

Wetzel County, West Virginia

		Wetzer	County, West Virginia			
Tract#	Tax Parcel	Lessor.	lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
		Barbara Green, A Married Woman, Dealing In Her Sole And Separate Property	SWN Production Company, LLC	17.00%	204A/652	
*****		Jerrilyn Wilson, A Married Woman, Dealing In Her Sole And Separate Property	SWN Production Company, LLC	17.00%	205A/829	
		William Charles Schnepple	Antero Resources Corporation	15.00%	187A/855	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	~
12	12-13-42	Nancy Holmstrom And Gerald Holmstrom, Wife and husband	Antero Resources Corporation	18.00%	172A/133	0.0000%
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Joan Lawrence, a single woman	Antero Resources Corporation	18.00%	172A/135	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Charles V. Manker Revocable Living Trust, By Charles V. Manker, Trustee	Antero Resources Corporation	18.00%	201A/887	
		Antero Resources Corporation	EQT		231A/22	
		Antero Resources Corporation  EQT	SWN Production Company, LLC		231A/22 240A/54	
		Rohn Jean Martin, F/K/A Rohn Jean Blair Bowers,	SANIA FLORECTION COMPANY, ELC		24VPV 34	
		F/K/A Rohn Jean Blair, F/K/A Rohn Jean Bowers, A Widow	Antero Resources Corporation	18.00%	172A/149	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	***************************************
		Dale Ann Badowski. A Widow	Antero Resources Corporation	18.00%	172A/127	
		Antero Resources Corporation	EQT		231A/22	
	·····	EQT	SWN Production Company, LLC		240A/54	
		Gregory Cooper, Aka Gregory T. Cooper, a married man dealing in his sole and separate property	Antero Resources Corporation	18.00%	172A/131	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Gerald Cooper, Aka Gerald H. Cooper, a single man	Antero Resources Corporation	18.00%	172A/129	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Robert N. Lohr and Martha Lohr, his wife	SWN Production Company, LLC	16.00%	239A/340	
		Melissa Painter, married dealing in her sole and separate property	SWN Production Company, LLC	18.00%	239A/349	
		Elizabeth Hartle, married dealing in her sole and separate property	SWN Production Company, LLC	18.00%	239A/357	
		Bruce E. Bailey, married dealing in his sole and separate property	SWN Production Company, LLC	18.00%	239A/353	\
13	12-13-41	Melissa Painter, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	201A/47	0.00%
		Elizabeth Hartle, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	203A/197	
		Bruce E. Bailey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	204A/637	
		Joan V. Lawrence, a single woman	TH Exploration, LLC	18.00%	200A/439	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
		Charles V. Manks, acting as Trustee for the Charles V. Manker Revocable Living Trust, an Ohio Trust	TH Exploration, LLC	18.00%	211A/856	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
		Dale Ann Badowski, Widow	TH Exploration, LLC	18.00%	200A/441	
			SWN Production Company, LLC		240A/485	
		TH Exploration, LLC	,,			
		TH Exploration, LLC  Gregory T. Cooper, a married man dealing in his sole and separate property	TH Exploration, LLC	18.00%	200A/427	Offic JU

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

Constance Taylor WTZ 401H Wetzel County, West Virginia

#	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Interest Not Leased by SWN Production Company, LLC
		Nancy S. Holmstrom and Gerald M. Holmstrom, wife and husband	TH Exploration, LLC	18.00%	238A/806	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
		Rohn Jean Martin f/k/a Rohn Jean Blair f/k/a Rohn Jean Blair Bowers f/k/a Rohn J. Bowers, widow	TH Exploration, LLC	18.00%	238A/808	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
		Gerald H. Cooper, a single man	TH Exploration, LLC	18.00%	238A/812	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
		Robert Neil Lohr, widower	TH Exploration, LLC	18.00%	238A/810	
		TH Exploration, LLC	SWN Production Company, LLC		240A/485	
	12-13-27	Robert N. Lohr and Martha Lohr, his wife	SWN Production Company, LLC	16,00%	239A/340	0.0000%
		Nancy Holmstrom And Gerald M. Holmstrom	Antero Respources Corporation	18.00%	209A/657	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Joan Lawrence	Antero Respources Corporation	18.00%	209A/872	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Charles V. Manker Revocable Living Trust, By Charles V. Manker, Trustee	Antero Respources Corporation	18.00%	201A/884	
		Antero Resources Corporation	EQT		231A/2Z	
		EQT	SWN Production Company, LLC		240A/54	
		Rohn Jean Martin, A Widow	Antero Respources Corporation	13.00%	171A/119	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Dale Ann Badowski, A Widow	Antero Respources Corporation	18.00%	171A/112	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Gregory T. Cooper, a married man dealing in his sole and separate property	Antero Respources Corporation	18.00%	171A/490	
		Antero Resources Corporation	EQT		231A/22	
		€ΩΤ	SWN Production Company, LLC		240A/54	
		Gerald H. Cooper, A Married Man Dealinh In His Sole And Separate Property	Antero Respources Corporation	18.00%	171A/488	
		Antero Resources Corporation	EQT		231A/22	
		EQT	5WN Production Company, LLC		240A/54	
		Melissa Painter, F/K/A Melissa Jan Bailey, And Shaun Painter, Wife And Husband	Antero Respources Corporation	18.00%	195A/729	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Elizabeth A. Hartle And Matthew R. Hartle, Wife And Husband	Antero Respources Corporation	18.00%	197A/370	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
		Bruce Edward Bailey, Jr., A/K/A Bruce Bailey	Antero Respources Corporation	18.00%	197A/784	
		Antero Resources Corporation	EQT		231A/22	
		EQT	SWN Production Company, LLC		240A/54	
	12-13-16.4	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	157A/646	0.00%
	12-13-15.4	Bounty Minerals, LLC	SWN Production Company, LLC	20.00%	239A/485	0.00%
-	12-13-15.3	Jeremy S. Goddard And Erin P. Goddard, husband	Antero Resources Corporation	20.00%	177A/498	0.00%
		and wife Antero Resources Corporation	EQT		231A/22	
_		EQT	5WN Production Company, LLC		240A/54	
	12-13-15	Mary Ann Goddard, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	239A/676	0.00% F



Tract No.	
Sale	
DOH Lease No.	OGOOD 8-0605

# THE STATE OF WEST VIRGINIA OIL AND GAS LEASE NO SURFACE USE (3 YEAR PAID-UP LEASE)

This Oil and Gas Lease (this "Lease") is effective as of the 19th day of May 2020 (the "Effective Date"), by and between the WEST VIRGINIA Department of Transportation, Division of Highways, whose address is 1900 Kanawha Blvd., East, Building 5, Room 820, Charleston, WV 25305-0430, party of the first part, hereinafter designated as LESSOR, and SWN Production Company, LLC, a Texas Limited Liability Company whose address is 10000 Energy Drive, Spring, TX 77389-4954 party of the second part, hereinafter designated as LESSEE.

UNDER AND PURSUANT TO THE PROVISIONS OF THE CONSTITUTION AND LAWS OF THE STATE OF WEST VIRGINIA RELATING TO LEASING PUBLIC LANDS BELONGING TO THE STATE OF WEST VIRGINIA, WITNESSETH:

Dollars (\$5,000.00) per acre paid at closing to Lessor, the royalties to be paid, and the covenants, obligations, stipulations and conditions to be observed and performed as herein set forth, Lessor does hereby demise, lease and let unto the Lessee the following described tracts of land for the sole purpose and with the exclusive right of exploring, drilling, completing, operating for, producing, collecting, and transporting for sale and/or processing all oil, condensate (i.e., the light hydrocarbon liquid fraction that condenses from the produced gas stream at atmospheric or surface pipeline pressure and temperature and is separated at or near the well head by the well operator – See W. Va. Code of State Rules § 35-8-11.1.a), and natural gas produced and/or acquired from within or underlying the Leased Premises (the "Granted Minerals"), situated in Proctor District, Wetzel County, West Virginia, and being more particularly described as follows:

1.39 acres, more or less, situated in <u>Proctor</u> District, <u>Wetzel</u> County WV, said lands being acquired by Lessor through various deeds, acts of the State of Virginia or the State of West Virginia, or by historic legislation throughout time identified and being all oil and gas interest of Lessor owned in or under the lands and rights of way for County Road 1/15, Brock Ridge Road, as further identified on Exhibit A attached hereto, herein referred to as the "Premises," whether actually more or less.

Said description being contained in Deed Book 182 Page 376.

Containing 1.39 acres, more or less (the "Leased Premises"). Lessor represents and warrants to Lessee that the West Virginia Department of Transportation, Division of Highways is the proper agency or instrumentality of the State of West Virginia to enter into this Lease for the purpose of leasing the Granted Minerals and Leased Premises to Lessee on the terms set forth herein, and that the Director of the West Virginia Department of Transportation, Division of Highways is vested with the full legal authority and is duly authorized to execute this Lease on behalf of the Lessor and the State of West Virginia.

- 2. Limitations on the Grant of Lease.
  - a. Surface Activities Prohibited. This Lease does not include,

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and specifically prohibits and excludes the right to enter upon or conduct exploration for, drilling, and production and marketing activities of any kind associated with the Granted Minerals, or any other activities by Lessee, its representatives, employees, contractors, agents, and affiliates, on the surface of the lands covered herein, if any, including, but not limited to the construction of any pits and/or pipelines or gathering lines on the Leased Premises.

- b. No Storage. Lessee may not use the Leased Premises, or any part thereof, for gas, oil, hydrocarbons, or brine storage purposes.
- c. Use of Surface or Subsurface Water. Lessee shall not use the surface waters or the groundwaters located within the Leased Premises.
- d. Reserved Rights of Lessor. Lessor reserves all rights not granted in this Lease, and specifically excepts herefrom all minerals other than the Granted Minerals including, by way of example and not limitation, geothermal energy, salt, brine, coal and coalbed methane.
- 3. Facilities Development. All development and production activities and facilities shall be constructed on adjoining and/or other lands, but not the Leased Premises.
- Term. This Lease shall remain in force for a term of Three (3) years from the date hereof ("Primary Term"), and as long thereafter as Granted Minerals are produced from the Leased Premises or on acreage pooled therewith, or drilling operations are continued as hereinafter provided. If, at the expiration of the Primary Term of this Lease, Granted Minerals are not being produced on the Leased Premises or on acreage pooled therewith, but Lessee is then engaged in drilling or re-working operations thereon, then this Lease shall continue in force for so long as operations are being continuously prosecuted on the Leased Premises or on acreage pooled therewith ("Operations"). Operations shall be considered to be continuously prosecuted if not more than one hundred twenty (120) consecutive days shall elapse between the completion or abandonment of one well and the beginning of operations for the drilling of a subsequent well. If after discovery of Granted Minerals on the Leased Premises or on acreage pooled therewith, the production thereof should cease from any cause after the Primary Term, this Lease shall not terminate if Lessee commences additional drilling or re-working operations within one hundred twenty (120) days from date of cessation of production or from date of completion of a dry hole. If Granted Minerals shall be discovered and produced as a result of such operations at or after the expiration of the Primary Term of this Lease, this Lease shall continue in force so long as Granted Minerals are produced from the Leased Premises or on acreage pooled therewith.
- 5. Unitization. Lessee may voluntarily pool, consolidate, or unitize portions of the Leased Premises as to hydrocarbon bearing geologic formations in order to constitute a unit for the purpose of exploring for and producing Granted Minerals. Said unit may not exceed Six Hundred Forty (640) acres and shall be comprised of lands contiguous to the Leased Premises and/or in the vicinity of the Leased Premises; provided that said unit may be altered, amended, reformed repooled or changed in any way, with the prior written consent of Lessor, to include lands contiguous to the Leased Premises and/or in the vicinity of the Leased Premises and to include no more than a total of One Thousand, Two Hundred and Eighty (1,280) acres (more or less), as permitted by the West Virginia Department of Environmental Protection.
  - a. Lessor's Consent. Lessor's written consent to alter, reform or re-pool the unit shall not be unreasonably withheld.
  - b. Declaration of Pooling. Lessee shall provide Lessor with a copy of

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any Declaration of Pooling and Unitization or similar document that includes any portion of the Leased Premises, including any amendments thereto, within thirty (30) days after approval of any such declaration or amendment by the West Virginia Department of Environmental Protection.

Pugh Clause - Horizontal and Vertical. As to any acreage of the Leased Premises which is not included within any properly constituted and publicly recorded production unit at the expiration of the Primary Term, as extended hereunder, this Lease shall automatically terminate, and be of no further force or effect. Further, and to the extent Lessee has established production in paying quantities beyond the expiration of the Primary Term on the Leased Premises, or lands pooled therewith, the Lease shall terminate, on a production unit-byproduction unit basis, as to all depths, horizons and zones lying at least One Hundred feet (100') below the deepest producing horizon on the Leased Premises or any lands pooled therewith determined by reference to the deepest producing horizon in each respective production unit. Thereafter, this Lease shall continue in full force and effect for all depths, horizons and zones lying above the depth of One Hundred feet (100') below the deepest producing formation of a particular production unit as to all acreage located within that particular production unit. Upon the drilling and completion of a well within a production unit containing at least a portion of the Leased Premises, Lessee shall file a declaration of pooling and unitization within a reasonable time in the records of the Office of the Clerk of the County Commission of the county in which the applicable Granted Minerals are situated.

# 7. Royalty.

- a. Delivery and Payment. Lessee shall deliver or cause to be delivered to the Lessor, or its successors, nominees, agents, or assigns, at no cost to Lessor, a royalty equal to Twenty Percent (20%) or One-Fifth of Eight Eighths (1/5 of 8/8ths) of the Gross Proceeds realized by Lessee, and any Affiliate of Lessee, from the sale of the Granted Minerals, produced and sold from the Leased Premises.
  - i. Gross Proceeds. Gross Proceeds means the total monies and other consideration received by or accruing to Lessee, and any Affiliate of Lessee, for the sale, transfer, and/or any other disposition of the Granted Minerals as defined in paragraph 1 of this Lease, and/or any other marketable by-products, including condensate. produced from the Leased Premises. Gross Proceeds shall be calculated based on the total gross volume of the Granted Minerals produced and sold, as measured and reported in accordance with paragraph 10 of this Lease, exclusive of any and all production and post-production costs and severance taxes or other taxes of any nature.
  - ii. Affiliate of Lessee. Affiliate of Lessee means any person, corporation, firm, or other entity in which Lessee, or any parent company, subsidiary or affiliate of Lessee, owns an interest of Five Percent (5%) or more, whether by stock ownership or otherwise, or over which Lessee, or any parent company or affiliate of Lessee exercises any degree of control, directly or indirectly, by ownership, interlocking directorate, or in any other manner; and any corporation, firm or other entity which owns any interest in Lessee, whether by stock ownership or otherwise, or which exercises any degree of control, directly or indirectly, over Lessee, by stock ownership, interlocking directorate, or in any other manner.
- b. Due Dates of Royalty. Lessee shall pay Lessor all royalties

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that may become due under this Lease within one hundred twenty (120) days after the first day of the month following the month during which any well commences production into a pipeline for sale of such production. Thereafter, all royalties shall be paid to Lessor on or before the last day of the third month following the month of production or within Ninety (90) days after the first day of the month following, whichever is longer.

- c. Interest Payable on Past Due Royalty or Other Payments. Any royalties due and payable under this Lease that are not paid to Lessor on or before the Due Date as set forth in this Lease shall accrue interest at the Prime Interest Rate from the Due Date until paid-in-full.
- d. Prime Interest Rate. For the purpose of the immediately preceding section c of this paragraph 7, the Prime Interest Rate shall be the highest prime interest rate published in the Money Rates section of the eastern edition of the Wall Street Journal (WSJ) on the date such interest shall begin to accrue or, if the WSJ is not published on the date such interest shall begin to accrue, the Prime Interest Rate shall be the highest prime interest rate published in the WSJ on the nearest-preceding date on which the WSJ is published. In the event prime interest rates as published in the WSJ are not available, due to either the nonexistence of the WSJ or the WSJ's failure to publish any prime interest rates, then the Prime Interest Rate as provided herein shall be the highest prime interest rate published by a National Bank selected by Lessor, in any case not to exceed the maximum rate permitted by law.
- e. Termination for Non-Payment of Royalty. If any royalty is not paid on or before the applicable Due Date as set forth in this Lease, Lessor will provide Lessee written notice of nonpayment of royalty in accordance with paragraph 32 of this Lease. If Lessee fails to pay to Lessor all royalties and interest actually due and owing to Lessor within Thirty (30) days after Lessee's receipt of such notice, Lessor may terminate this Lease upon consideration of its own interests and will not be required to consider the effect of such termination on Lessee.
- f. Production, Transportation, & Post-Production Costs. Neither Lessee, nor any Affiliate of Lessee, may reduce Lessor's royalty for any market enhancement or post-production expense, including, by way of example and not limitation, pipelines, surface facilities, telemetry, gathering, dehydration, transportation, fractionation, compression, manufacturing, processing, treating, or marketing of the Granted Minerals, as measured and reported in accordance with paragraph 10 of this Lease, or any severance or other taxes of any nature paid on the production thereof.
- 8. Method of Payment. All rents, royalties, bonuses, or other payments accruing and/or owing from Lessee to Lessor under this Lease shall be made or tendered in the following manner:
  - a. By certified or cashier check delivered in accordance with paragraph 32 of this Lease, or
  - b. By direct deposit or wire transfer to the credit of Lessor as provided in writing by Lessor to Lessee in writing by a separate instrument delivered contemporaneously with this Lease.
- 9. Information, Lessor's Right to Audit, Metering Production. Upon written notice and request, Lessee, and any Affiliate of Lessee, shall furnish to Lessor,

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within ten (10) business days after receipt of said notice copies of title opinions covering the Leased Premises; copies of filings made by Lessee with the Department of Environmental Protection related to the Leased Premises; copies of daily drilling reports, gauge tickets, sales receipts, division orders, or amounts of gross production; copies of all gas contracts or any other agreements pursuant to which Lessee will sell, use, transfer, process, or dispose of the Granted Minerals produced from the Leased Premises; and any contracts, agreements, books, records and other information related to the sale, transfer, and/or any other disposition of any Granted Minerals as measured and reported in accordance with paragraph 10 of this Lease; Provided, however, that any and all documentation that is subject to a confidentiality clause or similar provision that limits distribution of the subject documentation to third parties shall be made available to Lessor, or Lessor's duly designated agent or representative, without redaction, for personal inspection during regular business hours at a site to be designated by Lessee within the State of West Virginia, pursuant to a valid non-disclosure agreement. Lessor shall, on an annual basis, have the right to audit the all of the aforementioned documents, books, accounts, contracts, records, and data of Lessee, and any Affiliate of Lessee, pertaining to the development, production, sale, transfer, and/or other disposition of the Granted Minerals as measured and reported in accordance with paragraph 10 of this Lease. Lessee shall meter gas deriving from the Leased Premises at the wellhead in accordance with West Virginia law.

- 10. Quarterly Royalty Statement, Annual Report. Lessee shall furnish to Lessor the following information no less frequently than once per calendar quarter, either on the check stub of a royalty payment or on an attachment to or enclosure with a royalty payment:
  - a. The lease, property, or well names and the well identification numbers on which royalties are being paid;
  - b. The month and year during which the sales occurred for which payment is being made;
  - c. The total production from the well or wells of the volume of oil expressed as the number of barrels, the amount of natural gas expressed in thousand cubic feet (MCF), the volume of condensate expressed as the number of barrels, and any other Granted Minerals;
  - d. The total monies and other consideration received by or accruing to Lessee, and any Affiliate of Lessee, per barrel of oil, per barrel of condensate, and per MCF of natural gas; and
  - e. The name, address, and telephone number of a contact person where the Lessor may obtain information about royalty payments made by the Lessee, and any Affiliate of Lessee, hereunder.

Further, beginning on the first anniversary of the Effective Date of this Lease, and each succeeding anniversary date, unless otherwise requested by Lessor, Lessee shall provide to Lessor a detailed report stating the total production volumes and all monies and other consideration received by or accruing to Lessee, and any Affiliate of Lessee, in the same manner as set forth in subsections c, d, and e of this paragraph.

11. Shut-In Royalty. If a well has been completed capable of production in paying quantities and has been temporarily shut-in for lack of a market, Lessee shall pay Lessor annually, on or before Ninety (90) days of such shut-in event, the sum of One Hundred (\$100.00) Dollars per acre for the first year, and Two Hundred Fifty Dollars (\$250.00) per acre for the year thereafter on the ensuing anniversary. In no event may Lessee maintain this Lease by payment of shut-in royalty beyond a continuous two-year period, and this Lease shall terminate automatically on the first day following the second anniversary date of initial shut-in. Additionally, in no event may Lessee maintain this Lease by payment of shut-in royalty beyond a cumulative three-year period during which all production of Granted Minerals was shut-in, and

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this Lease shall terminate automatically on the first day following the date that all production of Granted Minerals has been shut in for a cumulative period of Thirty-Six (36) months.

- 12. Notice of Intent to Drill and Complete. Lessee shall supply Lessor prior written notice of Lessee's intention to drill at least fourteen (14) calendar days prior to the spudding in of a well associated with producing the Granted Minerals. Lessee shall also supply Lessor with a copy of Lessor's completion report of such well or wells within thirty calendar (30) days of completion.
- Diligence, Duty to Drill Offset Wells. Lessee shall conduct its drilling operations hereunder utilizing best industry practices in existence at the time of such drilling, and shall otherwise conduct its operations in a good and workmanlike manner as a reasonably prudent operator would under the same or similar circumstances until all drilling and producing operations are completed, or until such time as the final well is plugged and abandoned. Additionally, if Granted Minerals are discovered on or in the Leased Premises, Lessee shall further develop and produce the Leased Premises as a reasonable and prudent operator would, and shall exercise all due diligence in drilling additional well(s) as may be necessary to fully develop the Leased Premises. Lessee shall protect the Granted Minerals in and under the Leased Premises from drainage by wells on adjoining or nearby tracts or leases, including those held by Lessee or any Affiliate of Lessee. Neither the rentals, royalties, nor any other consideration set forth under this Lease shall relieve Lessee of its obligation to reasonably develop and produce the Leased Premises and to reasonably protect the Granted Minerals in and under the Leased Premises from drainage or other damage.
- Waste Prohibited, Damage. Lessee shall not commit, or cause to be committed, waste, damage, or pollution to the Leased Premises. Lessee shall take all reasonable steps to prevent its operations from causing or contributing to soil erosion, or to the injury of terraces, grades, embankments, other soil, or structures on the Leased Premises. Lessee shall not pollute the surface or subterranean waters of the Leased Premises, any reservoirs, springs, streams, irrigation ditches, stock ponds, or other wells on the Leased Premises. Lessee shall not decrease the fertility of the soil, damaging any crops, grasses, timber, or pastures on the Leased Premises, and shall not harm or injure any animals, fish, or livestock on or in the Leased Premises, or damage any buildings, roads, structures, or other improvements on the Leased Premises. Lessee shall preserve the Leased Premises, and upon the termination of this Lease, promptly surrender and return the Leased Premises to the Lessor in the same condition, or substantially similar condition, as the Leased Premises were in prior to Lessee taking possession of the Leased Premises. Lessee shall compensate Lessor, its successors or assigns, for damages caused by Lessee to any being or thing which is the subject of this provision.
- 15. Well Plugging. Before abandoning any well associated with this Lease, Lessee shall securely plug and abandon such well or wells in accordance with the rules and regulations of the West Virginia Department of Environmental Protection and the laws of the State of West Virginia, and any other governmental agency having jurisdiction.
- 16. Record Management. The Lessee shall keep an accurate account of all drilling operations, including but not limited to the following: a log of each well drilled, duly sworn to by the contractor or driller; original gas sales contracts with amendments; gas balancing agreements and schedules; information concerning litigation, settlement agreements, or other agreements relating to sales and pricing of the Granted Minerals.
- 17. Ratification. No instrument executed by Lessor shall be effective to constitute a ratification, renewal, extension or amendment of this Lease unless such

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instrument is clearly titled to indicate its purpose and intent.

- 18. Compliance with Applicable Law. This Lease shall be subject to the Constitution and laws of the State of West Virginia and the rules and regulations of the West Virginia Division of Natural Resources and the West Virginia Department of Environmental Protection now or hereafter in force, all of which are made a part and condition of this Lease; provided, that no regulation made after the execution of this Lease affecting either the length of the term hereof, the rate of royalty, or payment hereunder, or the assignment hereof, shall operate to alter the terms and conditions of this Lease. Lessee agrees to comply in all material respects with the laws, rules and regulations of the State of West Virginia and the United States of America.
- 19. Insurance. A company licensed by the West Virginia Insurance Commission to do business in the state of West Virginia shall underwrite all policies required by this Lease. Lessee, and/or any person or entity acting on Lessee's behalf under this Lease, shall maintain with one or more such licensed insurance carriers at all times during which this Lease remains in force and effect sufficient workers compensation and employer's liability insurance, commercial general liability and umbrella liability insurance, business auto and umbrella liability insurance, and environmental liability insurance in the amount of at least Twenty-Five Million Dollars (\$25,000,000.00), combined single limit, identifying Lessor as an additional insured (except for workers compensation and employer's liability), and shall be primary coverage for Lessor. Said policy or policies, declaration pages and certificates of insurance thereof shall be delivered to Lessor upon commencement of the Lease, and upon each renewal of said insurance policy. The insurance policies required under this paragraph 19 shall name Lessor as an additional insured, except for workers compensation and employer's liability with regard to the Leased Premises, and shall reflect that the insurer has waived any right of subrogation against the Lessor.
- 20. Bonding. Within Thirty (30) days after the Effective Date of this Lease, Lessee shall post a surety bond in favor of Lessor in the amount of Two Hundred Thousand Dollars (\$200,000.00) to secure the payment of all sums due and the performance of all obligations arising under this Lease. Thereafter, Lessee shall provide to Lessor within sixty (60) days from the Effective Date of this Lease a true copy of this surety bond, which shall specifically identify the Parties to this Lease and all DOH Lease Numbers, as set forth on page 1 of this Lease, that are secured by said surety bond.
- Assignment. The rights and estate of Lessee (or any permitted assignee or transferee of Lessee) hereunder may not be assigned or otherwise transferred, in whole or in part, without the prior written consent of Lessor, which consent shall not be unreasonably withheld. In the event Lessee proposes to assign or transfer this Lease, the Lessee shall give Lessor written notice of its intent to assign or transfer its interest in the Lease, which notice shall specify the type of assignment or transfer contemplated, the identity and contact information of the proposed assignee or transferee, and the timeframe of the proposed assignment or transfer ("Transfer Notice"). Upon delivery of a Transfer Notice to the Lessor, Lessor shall have Fifteen (15) days to either: (a) consent to the proposed assignment or transfer by delivering written its consent to Lessee; or (b) in its reasonable discretion, withhold its consent to the proposed assignment or transfer by delivering written notice to Lessee that it is withholding its consent and specifying the reasons therefor. In the event that Lessor fails to respond to a Transfer Notice within the fifteen-day period specified in the immediately preceding sentence, Lessor shall be deemed for all purposes under the law to have approved the assignment or transfer outlined in the Transfer Notice, and to have consented to such assignment or transfer in the same manner as if it would have delivered its written consent to Lessee.

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- 22. Default. The occurrence of any of the following shall be deemed a default of this Lease:
  - a. Failure of Lessee to timely pay Lessor any amounts required under this Lease in accordance with paragraph 7.
  - b. If any creditor of Lessee, its agents, and/or assigns, takes any action to execute on, garnish, or attach the Lessee's assets located on or accessing the Leased Premises. This provision shall not impair Lessee's ability to mortgage its interests in the Granted Minerals or the Leased Premises.
  - c. Failure of Lessee to obtain any requisite "prior written consent" as set forth within this Lease.
  - d. Failure of Lessee to maintain insurance in the type and amount as set forth within this Lease.
  - Shut-in of Lease exceeding the periods set forth in paragraph 11 of this Lease.
- 23. Notice of Default or Breach. If Lessor considers that Lessee has failed to comply with its obligations under this Lease, whether express and implied, Lessor shall notify Lessee in writing, setting out in what respects Lessee has breached this Lease. Lessee shall then have Thirty (30) days after receipt of said notice to cure all alleged breaches asserted by Lessor or, if it is not practical to cure such alleged breaches within thirty (30) days, then Lessee shall have Thirty (30) days to commence curing the alleged breach and diligently and continuously pursue to completion such cure. If Lessee, having received such written notice of breach of Lease, shall thereafter fail or refuse to satisfy in the timeframes set forth in the immediately preceding sentence, or respond in a meaningful fashion to Lessor's notice, this Lease shall automatically cease and terminate. Upon such termination, Lessee agrees to (a) immediately and unconditionally surrender possession of the Leased Premises, or of the portion of the Leased Premises included in such notice of breach, and (b) plug and abandon any producing or non-producing well(s).
- 24. Remedies for Default or Breach. The Lessor shall be entitled to recover from the Lessee any and all royalties, charges, or claims of every kind and nature due and owing and/or arising out of this Lease, upon failure to comply with the provisions of this Lease and to take immediate possession of the Leased Premises. If Lessor institutes proceedings to clear title or take possession of the Leased Premises, Lessor shall be entitled to recover from Lessee its attorney fees and costs, investigation costs, any expert fees, and any other costs or expenses related to such proceedings.
- of this Lease if, and only if, Lessee is not then in default of any obligations under this Lease and upon payment of all liabilities then accrued and due. Such surrender must be evidenced by written notice delivered to Lessor Thirty (30) days prior to the effective date of surrender. Lessee shall deliver to Lessor a release or releases in recordable form approved by Lessor, and Lessee shall release the applicable portion of this Lease upon expiration. Lessee may not release any portion of this Lease included in a pool or unit as long as Operations are being conducted on such pool or unit. Any partial release must describe all depths and horizons in and under the Leased Premises so released.

# No Warranty of Title.

a. Lessor makes no representation of title or ownership, either express or implied, and further makes no warranty as to the actual or

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potential presence of Granted Minerals. Lessee represents it has performed all necessary due diligence regarding the title or ownership of the Granted Minerals and agrees to be bound by the quantum of acreage as set forth in the Legal Description above.

- b. Lessee shall notify Lessor of any adverse claim to the Leased Premises affecting title to all or a portion of the rights to develop the Granted Minerals, and Lessor may, with the approval of the Attorney General, enter into an escrow arrangement for future rents and royalties accruing to such disputed portion of the Leased Premises under terms and conditions that the Attorney General feels proper to safeguard the rights and interest of the State of West Virginia.
- c. If an adverse claimant files suit against the State of West Virginia or against Lessee claiming title to all or a portion of the Granted Minerals, or if the Lessee, after receiving notice of an adverse claim, institutes litigation in a court of competent jurisdiction to adjudicate the validity of the claim, the rents and royalties accruing to the litigated portion shall be placed in an escrow account until such time as the ownership of the disputed interest is determined by a court of competent jurisdiction.
- d. If a court of competent jurisdiction determines that Lessor does not have title to all or part of the Granted Minerals in the Leased Premises, the rentals, royalties, and bonus thereafter accruing from any part as to which this Lease covers less than the full interest in such Granted Minerals, shall thereafter be paid only in the proportion which the interest therein, if any, covered by this Lease bears to the whole and undivided fee simple estate therein. Any sums of money paid pursuant to this Lease are not reimbursable to Lessee.
- 27. Indemnity. Unless caused by the negligence of Lessor, or any agent, servant, or employee of Lessor, Lessee shall defend, indemnify, protect and hold harmless Lessor and Lessor's heirs, successors, representatives, agents and/or assigns from and against any and all claims, demands, causes of action, liability, loss, damage or expense of any and every kind and nature, including without limitation costs, expenses, and attorneys' fees, for injury (including death), or damage to persons or property (including environmental damage to the surface, waterways, or subsurface estates of any person, firm, corporation, or other entity) arising out of, incidental to, or resulting from (i) the operations or activities of Lessee or Lessee's servants, agents, employees, guests, licensees, invitees or independent contractors on or in the Leased Premises; (ii) the exercise of any right granted under this Lease, and/or; (iii) any obligation imposed under this Lease. Any successor in interest of any rights of Lessee in this Lease shall likewise be obligated to defend and indemnify Lessor and Lessor's heirs, successors, representatives, agents and assigns in the same manner as the original Lessee.
- 28. Limitations on Drilling. From and after the Effective Date of this Lease, Lessee shall not commence construction of any new well pad that is intended to produce the Granted Minerals from the Leased Premises if such well pad would be located within Five Hundred feet (500') of any outside boundary of the tracts comprising the Leased Premises measured linearly from any point along said tract boundary to the midpoint of the secondary containment berm of a particular well pad. Lessor and Lessee agree that the limitation on pad construction and/or location set forth in this paragraph 28 is intended to reduce any long-term, substantial interference with the public's use of the surface of the Leased Premises as it exists on the date of the Lease. Further, if Lessor determines in its reasonable discretion after conducting a proper investigation that the drilling activities of Lessee related to the production of Granted Minerals from the Leased Premises have created a long-term, substantial interference with the public's use of the surface of the Leased Premises as aforesaid, then Lessor shall have the right to seek from Lessee additional measures or controls to mitigate such long-term, substantial impairment

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WV Department of Environmental Protection caused by Lessee's said drilling activities.

- 29. Force Majeure. If Lessee is prevented from complying with its obligations under this Lease, express or implied (except payment of money), due to scarcity of or inability to obtain or use equipment or material or by operations of Force Majeure, or any federal or state law, or any order, rule or regulation, then, while so prevented, Lessee's obligation to comply with such this Lease shall be temporarily suspended, and Lessee shall not be liable in damages; and this Lease shall be extended only so long as Lessee is prevented by any such cause from conducting Operations on or in the Leased Premises; provided, in no event shall Lessee's performance be suspended as a result of Force Majeure, federal or state law, or any rule or regulation for a period in excess of two (2) consecutive years. As used herein, the term "Force Majeure" shall mean acts of god such as flood, fire, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by other cause(s) not within Lessee's control, but shall specifically exclude scarcity, cost, or inability to obtain or use equipment, contracts, personnel, water, or other material(s).
- 30. Further Assurances. Each of the parties hereto shall, and shall cause its respective affiliates to, from time to time at the request of the other party, without any additional consideration, furnish the other party such further information or assurances, execute and deliver such additional documents, instruments and conveyances, and take such other actions and do such other things, as may be reasonably necessary in the opinion of counsel to the requesting party to carry out the provisions of this Lease. In the event that Lessor is not the proper agency or instrumentality of the State of West Virginia to enter into this Lease, as stated in paragraph 1 herein, Lessor shall cause all of the proper agencies or instrumentalities of the State of West Virginia, without any additional consideration, to join in this Lease, as Lessor, upon the same terms provided herein.
- 31. Governing Law. This Lease shall be governed by the laws of the State of West Virginia and any dispute arising out of this Lease shall be resolved in a West Virginia court of law having jurisdiction thereof.
- 32. Notices and Payments. All notices and payments which are permitted or required under this Lease shall be in writing and shall be deemed valid and received if delivered personally; by registered or certified mail, return receipt requested; or by special carrier (such as Federal Express or UPS), with signature required, to the Lessor and/or the Lessee to the following addresses, unless otherwise agreed by the parties in a signed writing:
  - a. To Lessor:
     West Virginia Department of Transportation
     Division of Highways
     1900 Kanawha Blvd., East, Building 5, Room 820
     Charleston WV 25305-0430

b. To Lessee: SWN Production Company, LLC 10000 Energy Drive Spring TX 77389-4954

33. Successors in Interest. The terms, conditions, covenants, ons, considerations or requirements of this Lease shall extend to and be on the parties hereto, their heirs, successors, executors, administrators, of whom shall be jointly and severally liable.

Sility. Should any one or more of the provisions in this Lease nined to be void or invalid, in whole or in part, the remainder

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WV Department or Environmental Protection of this Lease shall remain in full force and effect.

35. Counterparts. This Lease may be executed in any number of counterparts, and by different parties in separate counterparts, all of which shall be identical. Each such counterpart shall be deemed to be an original instrument, but all such counterparts together shall constitute but one instrument.

IN WITNESS WHEREOF, the parties hereunto subscribed their signatures on the day and year first above written.

Remainder of this page is intentionally blank.

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JUN 2 4 2020

WV Department of Environmental Protection WEST VIRGINIA Department of Transportation, Division of Highways

ATTEST:

By: Jumy Wriston, P.E.

Deputy Secretary of Transportation

Deputy Commissioner of Highways

## ACKNOWLEDGEMENT FOR WEST VIRGINIA Department of Transportation, Division of Highways

State of West Virginia,

County of Kanawha

Personally, appeared before me, the undersigned Notary Public, within and for said County and State, appeared Jimmy Wriston, P.E., who acknowledged himself to be the Deputy Secretary and Deputy Commissioner of the West Virginia Department of Transportation, Division of Highways and that he/she as such Deputy Secretary and Deputy Commissioner of the West Virginia Department of Transportation, Division of Highways, being authorized to do so, executed foregoing instrument for the purpose therein contained by signing the name of the corporation by himself as the Deputy Secretary and Deputy Commissioner of the West Virginia Department of Transportation, Division of Highways.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

IN WITNESS WHEREOF, I have hereunto set my hand and Notary Seal on this \_\_\_\_\_ day of \_\_\_\_\_\_, 2020.

My Commission Expires: August 29, 2023

(SEAL)

OFFICIAL SEAL - NOTARY PUBLIC
STATE OF WEST VIRGINIA
Virginia L. Dravenstoll
Department of irasportation/Disson of Highways
1900 Kanawha Blvd, East
Building 5 Room 109
Charleston, WV 23305.
My Commission Expires August 29, 2023

Notary Public

APPROVED AS TO FORM THIS DAY JUNE JOS ATTORNEY RIGHT OF WAY DIVISION

WEST VIRGINIA DEPARTMENT
OF TRANSPORTATION

B DIVISION OF HIGHWAYS

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Profession

SWN Production Company, LLC

By: Paul M. Bacho

Title: Land Manager

BTR BDW

ATTEST:

#### CORPORATE ACKNOWLEDGMENT

STATE OF TEXAS, COUNTY OF HARRIS,

On this, the day of May, 2020, before me, the undersigned officer, personally appeared Paul M. Bacho, who acknowledged himself to be the Land Manager of SWN Production Company LLC, a Texas Limited Liability Company, and that he as such Land Manager, being authorized to do so, executed foregoing instrument for the purpose therein contained by signing the name of the corporation by himself as Land Manager IN WITNESS WHEREOF, I hereunto set my hand and official seal.

DANIEL TOWNSEND
Notary Public, State of Texas
Comm. Expires 05-29-2023
Notary ID 130243333
Name/Notary Public (print):

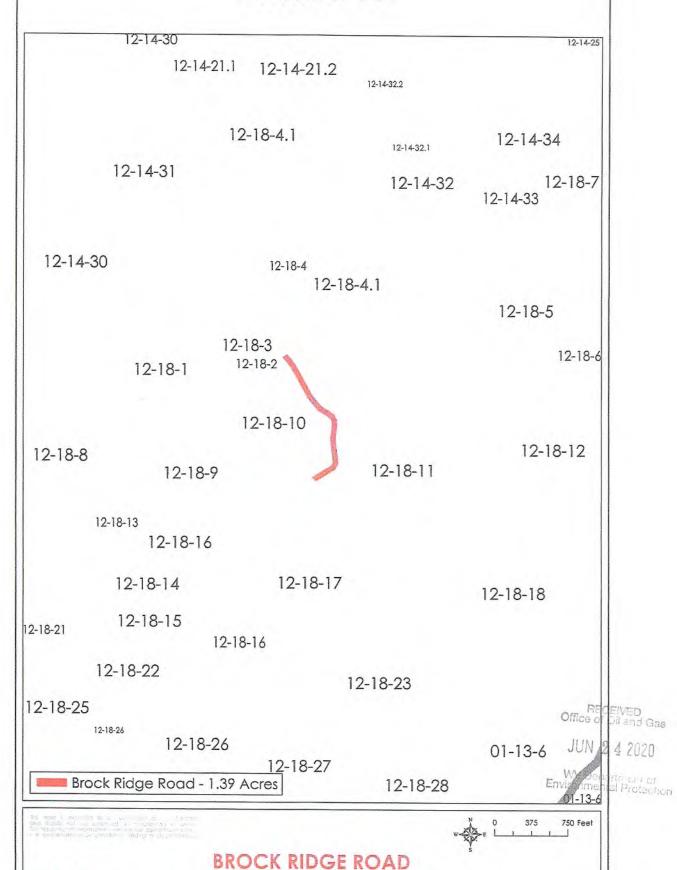
Prepared by: SWN Production Company, LLC, 10000 Energy Drive, Spring TX 77389-4954

Office of Oil and Gas

JUN 2 4 2020

WV Departs - 11.
Environmental Protec

### **EXHIBIT A**



**Proctor District** 

Wetzel County, WV

Prepared By:



SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508

Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

June 15, 2020

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

RE: SWN's proposed New Well: Constance Taylor WTZ 401H in Wetzel County, West Virginia, Drilling under Doolin Run Road, Taylor Ridge Road and Brock Ridge Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Proctor Creek Road, Doolin Run Road, Co. Rd. 1/24, Taylor Ridge Road and Brock Ridge 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,

Brandi Williams

Brandi Williams, CPL Staff Landman

SWN Production Company, LLC

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

R2 wV+°

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

Date of Notic	ce Certification: UND			7- 103 - s Well No. Constance Taylor WTZ 401H Name: Constance Taylor WTZ
Notice has l	peen given:			
	ne provisions in West Virginia Code § 22-6A, t	he Operator has pro	vided the re	quired parties with the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia	UTM NAD 83	Easting:	527525.60
County:	103-Wetzel	UTM NAD 83	Northing:	4389464.46
District:	Proctor	Public Road Ac	cess:	Brock Ridge Road
Quadrangle:	Wileyville	Generally used	farm name:	Constance Taylor WTZ
Watershed:	Upper Ohio South			

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 d parties with the following:	OOG OFFICE USE
PLEASE CHECK ALL THAT APPLY		ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	Office of Oil and Gas	☐ RECEIVED
■ 5. PUBLIC NOTICE	JUN 2 4 2020	☐ RECEIVED
■ 6. NOTICE OF APPLICATION	WV Dopan Intelligence 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.

WW-6AC (1/12)

#### 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

Senior Regulatory Analyst

Address:

1300 Fort Pierpont Dr., Suite 201

By:

Brittany Woody

ile: 3

Morgantown, WV 26508 304-884-1690

Its: Telephone:

304-884-1610

Facsimile: Email:

Brittany\_Woody@swn.com

NOTARY PUBLIC OFFICIAL SEAL JESSICA L. VANGILDER State of West Virginia My Comm. Expires Jul 20, 2020 SWN Production Company, LLC 179 Innovation Dr. Jane Lew, WV 2637

Subscribed and sworn before me this

t day of May, 20

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 departure volume and provided the privacy of the privac

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

API NO. 47- 103

OPERATOR WELL NO. Constance Taylor WTZ 401H

Well Pad Name: Constance Taylor WTZ

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

Notice Time Requirement: notice shall be provided no later than	the filing date of permit application.	
1. mbs	2/2	
Date of Notice ( Date Permit Application Filed:	Malan	
Notice of:		
2,000,000		
☑ PERMIT FOR ANY ☐ CERTIFICATE OF APPR	ROVAL FOR THE	
WELL WORK CONSTRUCTION OF A	AN IMPOUNDMENT OR PIT	
11202 11011		
Delivery method pursuant to West Virginia Code § 22-6A-10(	(b)	
☐ PERSONAL ☑ REGISTERED ☐ METHO	DD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL RECEIP	PT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery that requires a receipt or sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursuant operator or lessee, in the event the tract of land on which the well promote coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, constructing the proposed well, spring or water supply source located within one the provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section eigenvision of this article to the contrary, notice to a lien holder is not records. § 35-8-5.7.a requires, in part, that the operator shall also prowater purveyor or surface owner subject to notice and water testing a	the well plat to each of the following persons: (1) The oted; (2) The owners of record of the surface tract or tractitle surface tract is to be used for roads or other land do not to subsection (c), section seven of this article; (3) The oposed to be drilled is located [sic] is known to be understoverlying the oil and gas leasehold being developed action, enlargement, alteration, repair, removal or abandary surface owner or water purveyor who is known to thousand five hundred feet of the center of the well pact (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests det may serve the documents required upon the person desight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the landovide the Well Site Safety Plan ("WSSP") to the surface	wners of record of acts overlying the isturbance as ac coal owner, erlain by one or I by the proposed donment of any he applicant to I which is used to a which the scribed in escribed in the withstanding any lowner. W. Va.
✓ Application Notice ✓ WSSP Notice ✓ E&S Plan Notice		
-2 New year of the Control of the Co		
	COAL OWNER OR LESSEE	
Name: Constance Taylor Address: 807 Johnson Street	Name: Consolidation Coal Company Attn: Casey Saunders	
New Martinsville, WV 26155	Address: 1000 Consol Energy Drive	
	Canonsburg, PA 15317  COAL OPERATOR	No.
	·프라스 경험이 보다 보다가 되고 있어요? (C. C. C	Office of Gilland Gas
Address:		
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	JUN 2 4 2020
	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	Environmental management
A NOW YORK	Name: See Attachment 13A	Environmental in a switz
	Address:	
Address:		
V7-0-1-0	OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
	Name:	V-04-5-14-01-
	Address:	
Address:		
	*Please attach additional forms if necessary	

API NO. 47- 103 OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice ( ) Date Permit Application Filed:	1929/90	
✓ PERMIT FOR ANY ☐ CERTIFICATE OF	APPROVAL FOR THE	
WELL WORK CONSTRUCTION C	OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6	A-10(b)	
☐ PERSONAL ☑ REGISTERED ☐ ME	ETHOD OF DELIVERY THAT REQUIRES A	
	CEIPT OR SIGNATURE CONFIRMATION	
certificate of approval for the construction of an impoundment of registered mail or by any method of delivery that requires a recessediment control plan required by section seven of this article, at the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well word described in the erosion and sediment control plan submitted purpoperator or lessee, in the event the tract of land on which the well work, if the surface tract is to be used for the placement, or impoundment or pit as described in section nine of this article; thave a water well, spring or water supply source located within provide water for consumption by humans or domestic animals; proposed well work activity is to take place. (c)(1) If more than subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to seet provision of this article to the contrary, notice to a lien holder is Code R. § 35-8-5.7.a requires, in part, that the operator shall all water purveyor or surface owner subject to notice and water test	signature confirmation, copies of the application, the and the well plat to each of the following persons; (1) The cool located; (2) The owners of record of the surface tract or track, if the surface tract is to be used for roads or other land dursuant to subsection (c), section seven of this article; (3) The cool proposed to be drilled is located [sic] is known to be under tracts overlying the oil and gas leasehold being developed on struction, enlargement, alteration, repair, removal or abard (5) Any surface owner or water purveyor who is known to to one thousand five hundred feet of the center of the well part and (6) The operator of any natural gas storage field within three tenants in common or other co-owners of interests declicant may serve the documents required upon the person distinct of the control of this code. (2) Not a not notice to a landowner, unless the lien holder is the lands so provide the Well Site Safety Plan ("WSSP") to the surface	e erosion and owners of record of acts overlying the isturbance as he coal owner, derlain by one or d by the proposed adonment of any the applicant to d which is used to a which the escribed in escribed in the twithstanding any downer, W. Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan No	tice Well Plat Notice is hereby provided to:	
□ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name:	Name: Donna Blake	
Address:	Address: 418 Gilbert Avenue Follansbee, WV 26037	Donon
Name:	COAL OPERATOR	Office of On and G
1.11	Name:	JUN 2 4 2020
Address:	A. J. Lancon	JUN 2 4 2000
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:	MAN
Name:	SURFACE OWNER OF WATER WELL	Enwrottmattel i go
Address:	AND/OR WATER PURVEYOR(s)	
Name:	Name:Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS STOR.	AGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

API NO. 47- 103 OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

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

Noti	ice Time Requirer	nent: notice shall be provided no	later than the filing date of permit application.	
	e of Notice	Date Permit Application F	iled: Ulahat	
<b>V</b>	PERMIT FOR AT		OF APPROVAL FOR THE ION OF AN IMPOUNDMENT OR PIT	
Deli	very method purs	uant to West Virginia Code § 2	22-6A-10(b)	
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
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			n Notice  Well Plat Notice is hereby provided to:	
Nam	JRFACE OWNER	(s)	☑ COAL OWNER OR LESSEE Name: Joany Sauro	
	ress:		Address: 232 Rainbow Dr	
			Livingston, TX 77399	Rhosiven
Nam			COAL OPERATOR	Office of Oil and Gas
Aud	1635.		Name:Address:	
□ St	JRFACE OWNER	(s) (Road and/or Other Disturban	nce)	- + e.c.o
Nam			☐ SURFACE OWNER OF WATER WELL	Environmental Prefector
Add	ress:		AND/OR WATER PURVEYOR(s)	Environments! Protection
Nam			Name:Address:	-
			rudiuss.	_
			OPERATOR OF ANY NATURAL GAS STO	C. T. A C. S. L. C. S. C.
_		(s) (Impoundments or Pits)	Name:	
Nam	ie:		Address:	==
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Well Pad Name: Constance Taylor WTZ

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

Notice	Time Requirement	nt: notice shall be provided n	o later tha	n the filing date of permit application.	
Date o	of Notice UMAD	Date Permit Application	Filed: W	15 Jap	
	PERMIT FOR ANY WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delive	ery method pursua	nt to West Virginia Code §	22-6A-10	(b)	
-	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION	
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☑ App	plication Notice	WSSP Notice ☐E&S Pla	ın Notice	☑ Well Plat Notice is hereby provided to:	
SUR Name:	RFACE OWNER(s)			☐ COAL OWNER OR LESSEE Name: Charles Dunham III	
Addres				Address: 1012 Shore Line Dr	
				La Grange, KY 40031	
Name:				☐ COAL OPERATOR	
Addres	SS:			Name:	RECEIVED
T STID	EACE OWNED(a)	(Road and/or Other Disturba	200	Address:	Office of Chan I Car
Name:		(Koad and/of Other Disturba	nce)	☐ SURFACE OWNER OF WATER WELL	JUN 2 4 2120
				AND/OR WATER PURVEYOR(s)	
3,000		-000-00		Name:	Environment
Name:				Address:	
Addres	SS:				A CANADA
		(Impoundments or Pits)		OPERATOR OF ANY NATURAL GAS STOR Name:	
Name:				Address:	
				*Please attach additional forms if necessary	
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API NO. 47- 103 OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

	e of Notice: Date Permit Application ice of:	Filed: WalkO	
Ø		TE OF APPROVAL FOR THE TION OF AN IMPOUNDMENT OR PIT	
Deli	ivery method pursuant to West Virginia Code	§ 22-6A-10(b)	
	PERSONAL Z REGISTERED SERVICE MAIL	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
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Ø A	Application Notice WSSP Notice E&S P.	lan Notice	
Nam		☑ COAL OWNER OR LESSEE Name: Tèrry Dunham	
Add	ress:	Address: 404 University Ave	DE REGEIVED
Man		Elryia, OH 44305	Office of Gifter J Gas
Nan	ress:	COAL OPERATOR Name:	JUN 2 4 2020
1300	1033.	Address:	2 4 7 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
пѕт	URFACE OWNER(s) (Road and/or Other Disturb		Environment of
	ne:	SURFACE OWNER OF WATER WELL	Environmental fruitertor
Add	ress:	AND/OR WATER PURVEYOR(s)	
		Name:	
	ne;	Address:	
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- 45	THE LOW OWNERS CALL	OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
	URFACE OWNER(s) (Impoundments or Pits)	Name:	
Man	ne:	Address:	
Add	ress:	*Please attach additional forms if necessary	

API NO. 47- 103 OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

	e of Notice	Date Permit Applica	tion Filed: U	Majar	
<b></b>	PERMIT FOR AT			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method purs	uant to West Virginia Co	de § 22-6A-1	0(b)	
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A	
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☑ A	application Notice	☑ WSSP Notice ☑ E&	S Plan Notice	e ☑ Well Plat Notice is hereby provided to:	
	JRFACE OWNER			☑ COAL OWNER OR LESSEE Name, Janie Currier	
Nan	A STATE OF THE STA			Address: 819 Stanford Ave	_
2100	1000.		-	Elyria, OH 44035	
Nam				COAL OPERATOR	Ode RECEIVED
Add	ress:			Name:	Office of Calmin Girs
TI ST	DEACE OWNER	(s) (Road and/or Other Dis	aturban as V	Address:	- JUN 9 A som
		(s) (Road and/or Other Dis			
Add	ress:			AND/OR WATER PURVEYOR(s)	Environment (m. n.
				ivanie.	
Nan	ne:		-	Address:	_
Add	ress;		-3	OPERATOR OF ANY NATURAL GAS STO	DACE FIELD
n SI	IREACE OWNER	(s) (Impoundments or Pits	)	Name:	
		(s) (Impoundments of 1 its		Address:	
Add	ress:				
				*Please attach additional forms if necessary	

## API NO. 47-103 7-10 30336 0 OPERATOR WELL NO common ayorvization Well Pad Name: Constance Taylor WTZ

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

Notice Time Requiren	nent: nonce shall be provi	ded no later tha	the ming date of permit application.	
Date of Notice Notice of:	Date Permit Applica	tion Filed: W	<i>3</i> / <i>3</i> 0	
PERMIT FOR AN	IV CERTIE	CATE OF ADD	ROVAL FOR THE	
WELL WORK	CONSTI	RUCTION OF A	AN IMPOUNDMENT OR PIT	
Delivery method purs	uant to West Virginia C	ode § 22-6A-10	(b)	
PERSONAL	✓ REGISTERED	☐ METHO	OD OF DELIVERY THAT REQUIRES A	
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☐ Application Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:	
SURFACE OWNER	(s)		☑ COAL OWNER OR LESSEE	
	(5)		Name: Leonard Dunham	
Address:			Address 419 Edgewood Ave	
			Moundsville, WV 26041	Design
Name:			□ COAL OPERATOR	Office of Oll and Gas
Address:			Name:	
			Address:	
SURFACE OWNER	(s) (Road and/or Other Di	sturbance)		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		□ SURFACE OWNER OF WATER WELL	Environmental
Address:			AND/OR WATER PURVEYOR(s)	Environmental Protesto
			Name:	
			Address:	3
Address:				
A. A. A. A. A.			☐ OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
SURFACE OWNER	(s) (Impoundments or Pits	(	Name:	
	· · · · · · · · · · · · · · · · · · ·		Address:	
Address:				
			*Please attach additional forms if necessary	

#### **ATTACHMENT 13**

BECKER ERICK D & PHYLLIS	1615 CENTERTON RD	PITTSGROVE, NJ 08318	12 18000700000000	2

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

#### 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 www.dep. WV 24 ZOOD JUN 2 4 ZOOD

#### 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

API NO. 47-103 - OPERATOR WELL NO

OPERATOR WELL NO. Constance Taylor WTZ 401H

Well Pad Name: Constance Taylor WTZ

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:

Office of Oil and Gas

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

JUN 2 4 2020

Wy Department of Environmental Protection

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

#### Time Limits and Methods for Filing Comments.

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

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

#### Comment Requirements

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

Disclaimer: All comments received will be placed on our web site <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.

Office of Official Gas

JUN 2 4 2020

WV Devariation of Environmental Protection

4710303360

API NO. 47-103 OPERATOR WELL NO. Constance Taylor WTZ 401H
Well Pad Name: Constance Taylor WTZ

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany\_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

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.

Buttony hodry

NOTARY PUBLIC OFFICIAL SEAL
JESSICA L. VANGILDER
State of West Virginia
My Comm. Expires Jul 20, 2020
SWN Production Company, LLC
179 Innovation Dr. Jane Lew, WV 26378

Subscribed and sworn before me this 1st day of May, 1010 Notary Public

My Commission Expires\_

1-20-20

Office of Oil and Gas

JUN 2 4 2020

WV Department of Environmental Protection

entry  Date of Notice		Date of Plan	ed Entry: 4/22/2020
Delivery met	hod pursuant (	to West Virginia C	e § 22-6A-10a
□ PERSON SERVIC		REGISTERED MAIL	☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, wh	ace tract to cond han forty-five d tract that has fil erals underlying Control Manua ich statement sl	duct any plat survey: ays prior to such en- ed a declaration pur g such tract in the co- il and the statutes an	or to filing a permit application, the operator shall provide notice of planned entry equired 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 ant to section thirty-six, article six, chapter twenty-two of this code; and (3) any ty tax records. The notice shall include a statement that copies of the state Erosion 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 secretary.
Notice is here	eby provided to	0:	
■ SURFAC	CE OWNER(s)		COAL OWNER OR LESSEE
Name: Constan	ce Taylor	A	Name: Consolidation Coal Company Attn: Casey Saunders
Address: 807	Johnson Street	0	Address: 1000 Consol Energy Dr
New Martinsville, W			Canonsburg, PA 15317
Name:			
Address:			MINERAL OWNER(s)
			Name: Tammy Kemnetz
The second second			Address: 3908 Riverview Drive
Address:			Wausau, WI 54403
			*please attach additional forms if necessary
			Approx. Latitude & Longitude: 39.65465, -80.679341
County:	Wetzel		Public Road Access: Brock Ridge Road
District:	Proctor		Watershed: Little Fishing Creek
Quadrangle:	Wileyville		Generally used farm name: Constance Taylor
	ed from the Se	cretary, at the WV I -926-0450). Copies	Manual and the statutes and rules related to oil and gas exploration and production partment of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, Such documents or additional information related to horizontal drilling may be N.gov/oil-and-gas/pages/default.aspx.
Charleston, W		by visiting <u>www.der</u>	
Charleston, W obtained from			JUN 2 4 2020
Charleston, Woobtained from Notice is her Well Operator	the Secretary b		Address: 1300 Fort Pierpont Dr., Suite 201
Charleston, Woobtained from	the Secretary b		JUN 2 4 2020

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.

	equirement:	Notice shall be prov	rided at least Si	EVEN (7) da	ys but no more than	n FORTY-FI	VE (45) days prior to
entry  Date of Notice:	4/15/2020	Date of Plan	nned Entry: 4	/22/2020			
Delivery metho	d pursuant t	to West Virginia Co	ode § 22-6A-1	0a			
☐ PERSONA	T.	REGISTERED	Пмете	IOD OF DEL	IVERY THAT RE	OURES A	
SERVICE	ш ш	MAIL			NATURE CONFIR	the Property and the Control of the	
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which	e tract to cond in forty-five d act that has fil als underlying ontrol Manua in statement sl	duct any plat surveys ays prior to such ent ed a declaration pur g such tract in the co	s required purs try to: (1) The s suant to section outly tax record d rules related information, in	uant to this ar surface owne n thirty-six, a ds. The notic to oil and gas	rticle. Such notice s r of such tract; (2) t rticle six, chapter t e shall include a sta s exploration and p	shall be provide to any owner owners wenty-two of the atement that control may	notice of planned entry led at least seven days or lessee of coal seams this code; and (3) any opies of the state Erosion be obtained from the retary's web site, to
Notice is hereb	y provided to	o:		1			
☐ SURFACE	OWNER(s)			COA	L OWNER OR LE	SSEE	
Name:				Name: Jan	ie Currier		
Address:				Address: 819 Stanford Ave			
				Elyria, OH 440	035		
Address:				I MINI	ERAL OWNER(s)		
			_	Name: Det			
Name:					4544 Columbia Street # 12	211	
Address:			-	Virginia Beach	n, VA 23462 h additional forms if ne	december 1	
			-	*prease attac	n additional forms if ne	cessary	
Notice is here	by given:						
		de 8 22-6A-10(a) n	notice is hereby	voiven that th	e undersioned wel	operator is pl	anning entry to conduct
a plat survey on			.01.00 10 110.00)	Strong marks	io undoibiginos iroi	oparato, is p.	and to vender
	Vest Virginia			Approx. Latit	ude & Longitude:	39.65465, -80.679	9341
County: v	Vetzel			Public Road A	Access:	Brock Ridge Road	
Contraction .	roctor			Watershed:		Little Fishing Cree	ek.
Quadrangle: w	/ileyville			Generally use	d farm name:	Constance Taylor	
may be obtained Charleston, WV	1 from the Sec 25304 (304	cretary, at the WV D	Department of I of such docum	Environmenta nents or addit	Il Protection headquional information r	uarters, locate	oration and production d at 601 57 <sup>th</sup> Street, SE, contal drilling may be
Notice is here	by given by						an and clas
Well Operator:		TION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	JUN 2 4 2020
Telephone:	304-884-1610				Morgantown, WV 26508		MAIN
Email:	Brittany_Woody@	@swn.com		Facsimile:	304-884-1690		Environmental Prot
Oil and Con P							- Otec horr

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

	Requirement:	Notice shall be prov	ided at least SEVEN (7) day	ys but no more than	FORTY	-FIVE (45) days prior to		
entry Date of Notic	e: 4/15/20	Date of Plan	ned Entry: 4/22/20					
Delivery met	hod pursuant	to West Virginia Co	ode § 22-6A-10a					
☐ PERSO	NAL I	REGISTERED	☐ METHOD OF DEL	IVERY THAT RE	QUIRES	A		
SERVIC	E	MAIL	RECEIPT OR SIGN					
on to the surfa but no more to beneath such owner of min and Sediment Secretary, when able the sur	ace tract to cond han forty-five d tract that has file erals underlying Control Manua ich statement si face owner to con	duct any plat surveys lays prior to such ent led a declaration pure g such tract in the co- al and the statutes an hall include contact in obtain copies from the	d rules related to oil and gas information, including the a	ticle. Such notice s r of such tract; (2) to tricle six, chapter to e shall include a sta s exploration and pro-	hall be pro o any own venty-two tement the roduction	ovided at least seven days ner or lessee of coal seams of this code; and (3) any at copies of the state Erosion may be obtained from the		
Notice is her	eby provided t	0:						
☐ SURFAC	CE OWNER(s)		■ COA	LOWNER OR LES	SSEE			
Name:	Vame:			Name: Terry Dunham				
Address:			Address: 404 University Ave					
Name			_	305				
				ERAL OWNER(s)				
				Name: MM- Marcellus- HBP 1, LP				
Name:			Address:	Address: PO Box 10886				
Address:			Midland, TX 79	Midland, TX 79702				
			*please attac	*please attach additional forms if necessary				
				ude & Longitude: Access:	operator 39.65465, -6 Brock Ridge Little Fishing	Road g Creek		
Copies of the may be obtain Charleston, V obtained from	state Erosion and from the Se VV 25304 (304) at the Secretary large	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	I Manual and the statutes an Department of Environmenta of such documents or addit o.wv.gov/oil-and-gas/pages/o	d rules related to oi Il Protection headquional information re	l and gas narters, local elated to h	exploration and production cated at 601 57 <sup>th</sup> Street, SE, norizontal drilling may be  Office of On Series  JUN 2 4 2020		
Email:	Brittany_Woody	@swn.com	Facsimile:	304-884-1690		Environmental in an		
	Dimenty_vvoody(	80.111.00111				Monthey St. Lindianical		

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	Requirement:	Notice shall be prov	ided at least SEVEN	(7) day	ys but no more than	FORTY	-FIVE (45) days prior to	
entry  Date of Notice	4/15/20	Date of Plan	ned Entry: 4/22/20					
Delivery meth	od pursuant	to West Virginia Co	ode § 22-6A-10a					
☐ PERSON	AT.	REGISTERED	☐ METHOD O	F DEI	IVERY THAT RE	OURES	A	
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Notice is here		0:						
SURFAC					LOWNER OR LE	SSEE		
Name:					na Blake			
Address:				Address: 418 Gilbert Avenue				
				nsbee, W	V 26037			
Name:								
Address:				MINERAL OWNER(s)				
27				Name: Yonna Blake				
				Address: 418 Gilbert Ave				
Address:				Follansbee, WV 26037				
			- Plea	*please attach additional forms if necessary				
a plat survey of State: County: District:	est Virginia Co		Approx Public I Watersl	. Latit Road A	ude & Longitude:	operator 39.65465, - Brock Ridge Little Fishing	e Road g Creek	
may be obtained Charleston, Woobtained from Notice is her Well Operator: Telephone:	ed from the Set V 25304 (304 the Secretary be eby given by	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	Department of Environ of such documents or .wv.gov/oil-and-gas/p	menta r addit pages/o	l Protection headquional information re	arters, localized to h	exploration and production cated at 601 57th Street, SE, norizontal drilling may be  Office of College 1 Cas  JUN 2 4 2020	
Email:	Brittany_Woody@	@swn.com	Facsi	mile:	304-884-1690		Environmental	
Telephone:	304-884-1610				Morgantown, WV 26508		Market	

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Notice Time Re entry	equirement:	Notice shall be prov	ided at least SEVEN (7) day	s but no more than	n FORTY-FIVE (45) days prior to			
Date of Notice:	4/15/2020	Date of Plan	nned Entry: 4/22/2020					
Delivery metho	od pursuant	to West Virginia Co	ode § 22-6A-10a					
☐ PERSONA	AL	REGISTERED	☐ METHOD OF DEL	IVERY THAT RE	EQUIRES A			
SERVICE		MAIL	RECEIPT OR SIGN	ATURE CONFIR	MATION			
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Notice is hereb			■ coar	ONAIRD OD I E	CORP			
SURFACE				COAL OWNER OR LESSEE				
Name:			Name: Joany Sauro Address: 232 Rainbow Dr					
Address:		_	Livingstone, TX 77399					
Name:			3					
Address:			■ MINE	MINERAL OWNER(s)				
				Name: Joany Sauro, A/K/A Joan Sauro				
				Address: 232 Rainbow Dr				
Address:				Livingstone, TX 77399				
			*please attacl	*please attach additional forms if necessary				
a plat survey on State:	st Virginia Co the tract of la Vest Virginia Vetzel		Approx. Latite Public Road A	ide & Longitude:	l operator is planning entry to conduct 39.65465, -80.679341 Brock Ridge Road			
	Proctor		Watershed:		Little Fishing Creek			
Quadrangle: v	Vileyville		Generally use	d farm name:	Constance Taylor			
may be obtained Charleston, WV	d from the Se 25304 (304) he Secretary l by given by	cretary, at the WV D -926-0450). Copies by visiting <u>www.dep</u>	epartment of Environmenta	l Protection headquonal information r	il and gas exploration and production uarters, located at 601 57 <sup>th</sup> Street, SE, elated to horizontal drilling may be			
Telephone:	304-884-1610			Morgantown, WV 26508				
Email:	Brittany_Woody(	@swn.com	Facsimile:	304-884-1690				
	Dimming_vvoody(	54	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	200.257.327				

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WW-6A3 (1/12)

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

Well Operator: Swn Production Company, LLC Address: 1300 Fort Pierpont Dr., Suite 201		Requirement:	Notice shall be prov	rided at least SE	EVEN (7) da	ys but no more than	FORTY-I	FIVE (45) days prior to	
PERSONAL		e: 4/15/2020	Date of Plan	nned Entry: 4/2	22/2020				
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven 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 seneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state 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, enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s) Name: Address: Surface Owner(s) N	Delivery met	hod pursuant	to West Virginia C	ode § 22-6A-10	)a				
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven 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 seneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state 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, enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s) Name: Address: Surface Owner(s) N	□ DEDSON	JAT III	PECISTEPED	П метн	OD OF DEL	IVERY THAT RE	OTHERS		
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven 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 sheneath such tract that has filled a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained fror Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, enable the surface owner to obtain copies from the secretary.  Notice is hereby provided to:  SURFACE OWNER(s)  Name:  Address:  Name:  Address:  Name:  Address:  Name:  Address:  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 cap a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to cap a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to cap a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to cap a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to cap a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby give							A Comment of the Comm		
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SURFACE OWNER(s)  Name: Address: Brock Ridge Road  District: Proctor Approx. Latitude & Longitude: Approx. Latitude & Longitude: Brock Ridge Road  District: Proctor Approx. Latitude & Longitude: Approx. Latitude & Longitude: Approx. Latitude & Longitude: Approx. Latitude & Longitude: Brock Ridge Road  District: Proctor Approx. Latitude & Longitude: Approx. Latitude & Longitude: Brock Ridge Road  Little Fishing Creek  Country: Wetzel Approx. Latitude & Longitude: Brock Ridge Road  Little Fishing Creek Country: Address: Approx. Latitude & Longitude: Brock Ridge Road  Little Fishing Creek Contance Teylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Stree  Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling ma 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: 1300 Fort Pierpont Dr., Suite 201	on to the surfabut no more the beneath such to owner of mine and Sediment Secretary, who enable the surfable that the surfable the surfable that	nce tract to condinan forty-five di tract that has filerals underlying Control Manualich statement sl face owner to control owner to control of the condinant slope the condinate slope th	duct any plat survey ays prior to such en led a declaration pur g such tract in the co all and the statutes ar hall include contact obtain copies from the	s required pursuitry to: (1) The sizuant to section ounty tax recorded rules related information, incomparison, in	unt to this ar urface owner thirty-six, as s. The notice to oil and gas	rticle. Such notice s r of such tract; (2) tricle six, chapter tr e shall include a sta s exploration and p	shall be prove to any owne wenty-two outement that roduction m	vided at least seven days or or lessee of coal seams of this code; and (3) any copies of the state Erosion hay be obtained from the	
Name:   Address:   1012 Shore Line Drive   La Grange, KY 40031	_		0:		<b>I</b> 004	. OND TO OD I TO	COPPE		
Address:    Address:   1012 Shore Line Drive									
Name: Address: Name: Robert Dunham, Jr. Address: 331 Glen Dale Heights Rd Glen Dale, WV 26038 *Please attach additional forms if necessary  **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 caplat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39-65465, 80.679341  County: Wetzel Public Road Access: Brock Ridge Road District: Proctor Watershed: Little Fishing Creek Quadrangle: Wileyville Generally used farm name: Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Stre Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling ma obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.	Name:	Name:		-					
Name: Robert Dunham, Jr.  Name: Robert Dunham, Jr.  Address: Glen Dale, W2 8038  *please attach additional forms if necessary  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 caplat survey on the tract of land as follows:  State: West Virginia Approx. Latitude & Longitude: 39.65465, -80.679341  County: Wetzel Public Road Access: Brock Ridge Road  District: Proctor Watershed: Little Fishing Creek  Quadrangle: Wileyville Generally used farm name: Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Stre Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling ma obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.	Address:			_					
Address:  Name: Robert Dunham, Jr. Address: 331 Glen Dale Heights Rd Glen Dale, W 26038 *Please attach additional forms if necessary  **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 cap plat survey on the tract of land as follows:  State:  West Virginia  Approx. Latitude & Longitude:  Public Road Access: Brock Ridge Road District: Proctor  Watershed:  Uitle Fishing Creek  Quadrangle:  Wileyville  Generally used farm name:  Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may 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> .  RECENTER  Notice is hereby given by:  Well Operator: SWN PRODUCTION COMPANY, LLC  Address: 1300 Fort Pierpont Dr., Suite 201  JUN 24 7	Name:								
Name: Address: 331 Glen Dale Heights Rd  Glen Date, WV 26038  *Please attach additional forms if necessary  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 cap lat survey on the tract of land as follows:  State: West Virginia Approx. Latitude & Longitude: 39.65465, 80.679341  County: Wetzel Public Road Access: Brock Ridge Road  District: Proctor Watershed: Little Fishing Creek  Quadrangle: Wileyville Generally used farm name: Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Stree Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.  RECEPTE Notice is hereby given by:  Well Operator: SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201  JUN 247	Address:				MINI	ERAL OWNER(s)			
Address:    Glen Dale, WV 26038   *please attach additional forms if necessary    Notice is hereby given					Name: Robert Dunham, Jr.				
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 cap plat survey on the tract of land as follows:  State: West Virginia Approx. Latitude & Longitude: 39.65465, -80.679341  County: Wetzel Public Road Access: Brock Ridge Road  District: Proctor Watershed: Little Fishing Creek  Quadrangle: Wileyville Generally used farm name: Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Stre Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may obtained from the Secretary by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.sspx">www.dep.wv.gov/oil-and-gas/pages/default.sspx</a> .  Notice is hereby given by:  Well Operator: SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201									
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Quadrangle: Wileyville Generally used farm name: Constance Taylor  Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and prod may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Stre Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling ma 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: 1300 Fort Pierpont Dr., Suite 201	Pursuant to W a plat survey of State: County:	est Virginia Co on the tract of la West Virginia Wetzel	and as follows:	A	Approx. Latit	ude & Longitude:	39.65465, -80 Brock Ridge R	.679341 Road	
may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Stre Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling material 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: 1300 Fort Pierpoint Dr., Suite 201						ed farm name:			
Well Operator: Swn Production Company, LLC Address: 1300 Fort Pierpont Dr., Suite 201	may be obtain Charleston, W obtained from	ned from the Se VV 25304 (304 the Secretary	cretary, at the WV I -926-0450). Copies by visiting <u>www.de</u>	Department of E s of such docum	Environmenta ents or addit	al Protection headq ional information r	uarters, loca	nted at 601 57th Street, SE,	
JUIV 6 4 7.1					Addroom				
Talanhana: 184 acres 1840	The state of the s		TION COMPANY, LLC		Address:			JUN 2 4 2020	
Telephone:         304-884-1610         Morgantown, WV 26508           Email:         Brittany Woody@swn.com         Facsimile:         304-884-1690         WV Depotents	and the second second second second				Facsimile			WV Decounters	
	Lillall.	Brittany_Woody	@swn.com		i acommic.	304-004-1030		Environmental Fragough	

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@ww.gov.

Notice shall be provi	ided at least SEVEN (7) day	s but no more than	n FORTY-FIVE (45) days prior to		
Date of Plan	nned Entry: 4/22/2020				
to West Virginia Co	ode § 22-6A-10a				
REGISTERED	☐ METHOD OF DEL	IVERY THAT RE	EOUIRES A		
MAIL	RECEIPT OR SIGN				
duct any plat surveys days prior to such entriled a declaration pursing such tract in the contact and the statutes and shall include contact in obtain copies from the	s required pursuant to this are ry to: (1) The surface owner suant to section thirty-six, are unty tax records. The notice of rules related to oil and gas information, including the ac-	of such tract; (2) ticle six, chapter to eshall include a state 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		
to:	E Const				
)		OWNER OR LE	SSEE		
Name:		Name: Leonard Dunham			
Address:		Address: 419 Edgewood Ave Moundsville, WV 26041			
		/V 26041			
	☐ MINE	☐ MINERAL OWNER(s)			
		Name:			
	Address				
	*please attach	*please attach additional forms if necessary			
ode § 22-6A-10(a), naland as follows:	Approx. Latite Public Road A Watershed:	ude & Longitude:	l operator is planning entry to conduct 39.65465, -80.679341 Brock Ridge Road Little Fishing Creek		
	Generally use	d farm name:	Constance Taylor		
ecretary, at the WV D 4-926-0450). Copies by visiting <u>www.dep</u>	Department of Environmenta of such documents or additi	Protection headq onal information r			
CTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr.,	Suite 201		
		Morgantown, WV 26508			
y@swn.com	Facsimile:	304-884-1690			
by y:	926-0450). Copies visiting www.dep	ON COMPANY, LLC  Address:	ON COMPANY, LLC Address: 1300 Fort Pierpont Dr., Morgantown, WV 2650		

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

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 Ti Date of N	me Requirement: otice: 05/01/2020	Notice shall be provided a  Date Per	t least TEN (10) days prior to filing a	permit application.
Delivery	method pursuant	to West Virginia Code § 3	22-6A-16(b)	
☐ HAN	ND I	CERTIFIED MAIL		
	IVERY	RETURN RECEIPT REC	DUESTED	
DEL	IVERT	KLI OKOV KŁCENI I KŁO	QUESTED	
receipt rec drilling a of this sub subsection	quested or hand de horizontal well: Fosection as of the do may be waived in	livery, give the surface own trovided. That notice given ate the notice was provided writing by the surface own	ner notice of its intent to enter upon the pursuant to subsection (a), section tell to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return ne surface owner's land for the purpose of n of this article satisfies the requirements vever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
Notice is	hereby provide	d to the SURFACE OV	VNER(s):	
	nstance A. Taylor		Name:	
	807 Johnson St.		Address:	
New Martins	sville, WV 26155			
			orizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	well operator has an intent to enter upon llows: 527,525.60 4,389,464.46
District:	Proctor		Public Road Access:	Brock Ridge Road
Quadrang	le: Wileyville		Generally used farm name:	Constance Taylor
Watershed	d: Upper Ohio South	V <sub>1</sub>		
This Not	ice Shall Includ	e:		
Pursuant i	to West Virginia	Code § 22-6A-16(b), this	notice shall include the name, addr	ess, telephone number, and if available,
related to	horizontal drilling	may be obtained from the	e Secretary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is	hereby given by	V:		
	rator: SWN Production		Authorized Representative:	Steve Teel
Address:	1300 Fort Pier	pont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., suite 201
	Morgantown, W	/V 26508		Morgantown, WV 26508 Office of Office Gas
Telephone	e: 832-540-1136		Telephone:	832-540-1136
Email:	Steve_Teel@s	swn.com	Email;	Steve_Teel@swn.com
Facsimile:			Facsimile	WV Depoinment of Environmental Provision
Oil and	Cas Privacy Nat	ico:		The state of the s

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

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

This Notice Pursuant to V to be provid horizontal w surface affect information	West Virginia Code led by W. Va. Code lel; and (3) A proported by oil and gas related to horizonta is, located at 601 57 fault aspx.	sed surface use and coperations to the extel drilling may be obtout Street, SE, Characteristics	ompensation agreeme int the damages are co ained from the Secret	nt containing an empensable und ary, at the WV	n offer of competer article six-b Department of or by visiting Dr., Suite 201	tion with the drilling of a insation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
This Notice Pursuant to V to be provid horizontal w surface affect information headquarters gas/pages/de Well Operate	West Virginia Code led by W. Va. Code lel; and (3) A proported by oil and gas related to horizonta is, located at 601 57 fault aspx.	sed surface use and coperations to the extel drilling may be obtout Street, SE, Characteristics	ompensation agreeme ent the damages are co ained from the Secret rleston, WV 25304	nt containing an empensable und ary, at the WV (304-926-0450)	n offer of compe der article six-b Department of or by visiting	tion with the drilling of a nesation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
Pursuant to V to be provid horizontal w surface affect information headquarters	West Virginia Code led by W. Va. Codell; and (3) A propo- cted by oil and gas related to horizonta i, located at 601 57	sed surface use and c operations to the exte I drilling may be obt	ompensation agreeme int the damages are co ained from the Secret	nt containing an empensable und ary, at the WV	n offer of compe der article six-by Department of	tion with the drilling of a nsation for damages to the of this chapter. Additional Environmental Protection www.dep.wv.gov/oil-and-
Mataurland	Shall Include:	§ 22-6A-16(c), this n	otice shall include: (1)	A copy of this	code section; (2	The information required
Quadrangle:	Willeyville Upper Ohio South	· · · · · · · · · · · · · · · · · · ·	Generally use	ed farm name:	name: Constance Taylor	
District:	Proctor	Washington with	Public Road		Brock Ridge Road	
County:	Wetzel			Northing:	4,389,464.46	
	West Virginia Code		is hereby given that the of drilling a horizonta  UTM NAD 8	well on the tra Easting:		
New Martisnville						
	ss listed in the recor- nce A. Taylor	e SURFACE OWNE ds of the sheriff at the		*		
return receip the planned required to b drilling of a damages to t	t requested or hand operation. The not e provided by subse horizontal well; an he surface affected t	delivery, give the surfice required by this section (b), section tended (3) A proposed surfice of and gas operation of the control of the con	Tace owner whose land subsection shall include of this article to a surfa face use and compens ons to the extent the da	will be used for le: (1) A copy acc owner whose ation agreemer mages are com	or the drilling of of this code see se land will be us at containing an pensable under a	tor shall, by certified mail a horizontal well notice of ction; (2) The information sed in conjunction with the offer of compensation for article six-b of this chapter ds of the sheriff at the time
	IFIED MAIL RN RECEIPT REQ	I IESTED	HAND DELIVERY			
CERT	thod pursuant to V	vest virginia Code 3	22-6A-16(c)			
	4 . 4					

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

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

April 28, 2020

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Constance Taylor Pad, Wetzel County

Constance Taylor WTZ 401H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0385 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 15/1 SLS.

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.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Environmental Protection

Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

#### Attachment VI Frac Additives

Product Name	Product Line	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
(		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-762
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
and the fact of th		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
and the second s	-75-07	Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
Econom (Malco Champion)	Jedie Illinoitoi	Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
Ecoro 4A (champion recimologics)	piociae	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
France Cland (SWN Well Forgers)	Corrosion Inhibitor	Methanol	67-56-1
Econo-Cl200 (SWN Well Services)	Corrosion inhibitor		68951-67-7
		Oxyalkylated fatty acid	61790-12-3
		Fatty acids Modified thiourea polymer	68527-49-1
		Water	
		Hydrochloric acid	7732-18-5 7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Econol-EEAC /SWN Wall Co	Iron Control		64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid Citric Acid	77-92-9
		Water	77-92-9
EDD 61176 15 /Holliku -t	Calabian Badrican		
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate Hydrotreated light petroleum distillate	Proprietary 64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate DECEMBE	64742-47-8
	CCSVCSVCSC	Petroleum Distillate Sodium Chloride RECEIVED Office of Oil and Gas	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	N,N-bis (2-hydroxyethyl) oleamide  Petroleum Distillate  JUN 2 4 2020	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide WV Detrautment of	93-83-4
		Alcohols, C12-16, Exoxylated Engineering Protection	68551-12-2
		Water	7732-15-5
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06 9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
197-197-1	Apprecia El Triesta	Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
Tolcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
A. D. C.	OF SALE CONTRACTOR	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	PARTIE N
		groups	397256-50-
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
000000		Ethoxylated alcohol	Proprietary
N. T. W. Charles	217.2	Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
	Scale Control	Methanol	67-56-1
Legend LD-7750W		WI I I I I I I I I I I I I I I I I I I	
Legend LD-7750W  MC MX 8-4743	Specialty Product	Phosphonic Acid Salt Sodium Nitrate	Proprietary 7631-99-4



800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR

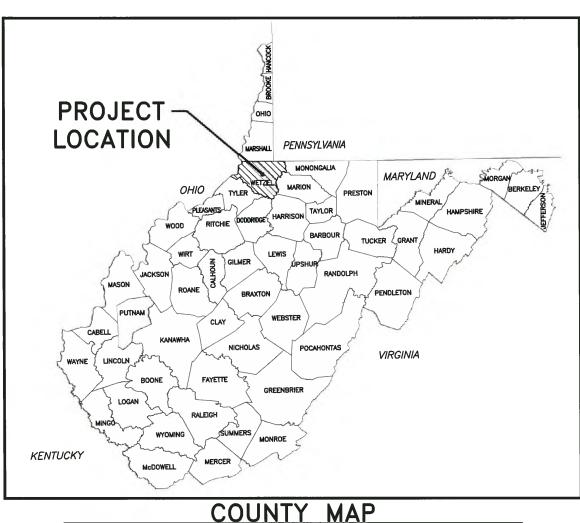
# **AS-BUILT SITE PLAN**

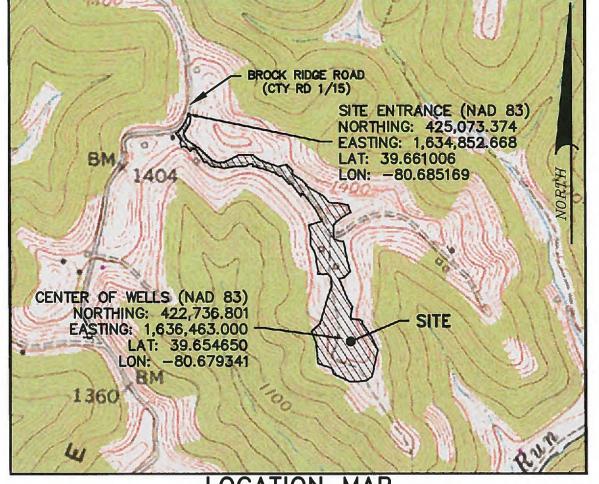
# **CONSTANCE TAYLOR WTZ PAD**

PROCTOR DISTRICT, WETZEL COUNTY, WV



1-6-2017





# Southwestern Energy®

**OPERATOR** 

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WV 26378 (832) 796-1610

**WVDEP OOG** ACCEPTED AS-BUILT

6 / 23 / 2020

#### EP2.1 . . . . . . EVACUATION ROUTE/PREVAILING WINDS EP2.2 . . . . . . EVACUATION ROUTE/PREVAILING WINDS AS3.1 . . . . . . AS-BUILT SITE PLAN AS3.2 . . . . . . AS-BUILT SITE PLAN AS3.3 . . . . . . AS-BUILT SITE PLAN CRA4.1 . . . . . . ACCESS ROAD PROFILES CRA4.2 . . . . . . PAD CROSS SECTIONS MRP5.1 . . . . . . RECLAMATION PLAN MRP5.2 . . . . . . RECLAMATION PLAN MRP5.3 . . . . . . RECLAMATION PLAN MRD6.1 . . . . . . DETAILS MRD6.2 . . . . . DETAILS MRD6.3 . . . . . . DETAILS

LIST OF DRAWINGS

TS1.1 . . . . . . COVER SHEET

### SITE DATA

TOTAL DISTURBED AREA: 18.72 ACRES ROAD DISTURBED AREA: 9.73 ACRES PAD DISTURBED ACRES: 8.99 ACRES ACCESS ROAD LENGTH: 3,250' ACCESS ROAD AVERAGE WIDTH: VARIES WELL PAD ELEVATION: 1430.20

### WELL API NUMBERS

ELL         API         CELLAR         CELLAR         CELLAR           UMBER         DIAMETER         DEPTH         MATER           5H         103-03149         8 FT         8 FT         CMP           8H         103-03150         8 FT         8 FT         CMP						
	JMBER	NUMBER	DIAMETER	DEPTH	MATERIAL	<b>z.</b>
			8 FT	8 FT	CMP	

TS1.1

**PAD** WTZ

087569006

OWG. NO.

ΒΥ:

**TAYLOR** FOR

SHEET

CONSTANCE

