

west virginia department of environmental protection

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

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

Friday, August 19, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for VERNON JOHNSON WTZ 601H 47-103-03521-00-00

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: VERNON JOHNSON WTZ 60 Farm Name: VERNON S JOHNSON ESTAT U.S. WELL NUMBER: 47-103-03521-00-00 Horizontal 6A New Drill Date Issued: 8/19/2022

Promoting a healthy environment.

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
- 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:

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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.

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08/26/2022

4710303521 API NO. 47-009

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

WW-6B	
(04/15)	

DEPAF	RTMENT OF E			WEST VIRGINI		DIL AND GAS
		WELL W	VORK PI	ERMIT APPLICA	ATION	
1) Well Operate	or: SWN Pro	duction C	o., LLC	494512924	103-Wetzel	3-Clay 438-Littleton
i) iii operat				Operator ID	County	District Quadrangle
2) Operator's V	Vell Number:	/ernon Jol	hnson W	TZ 601H Well P	ad Name: Vern	on Johnson WTZ /
3) Farm Name/	Surface Owner	Vernon S	S. Johnson	Estate Public Ro	oad Access: Ric	e Ridge Road
4) Elevation, cu	urrent ground:	1432'	Е	levation, propose	d post-construct	ion: 1432' 🖌
	(a) Gas X		Oil		derground Stora	
	Other					
	(b)If Gas S	hallow	x	Deep		
	H	lorizontal	x			
6) Existing Pad	I: Yes or No \underline{Y}	es			-	
				vipated Thickness		Pressure(s): I Thickness- 49', Associated Pressure- 5013
8) Proposed To						4
9) Formation at		and the second se	Marcellus	s /		
10) Proposed T			30549'	1		
11) Proposed H			21687.61	1' /		
12) Approxima	te Fresh Water	Strata De	pths:	440'		
13) Method to	Determine Free	sh Water I	Depths:	Salinity Profile and Ne	earby Logs on Verno	on Johnson WTZ 10H API 47-103-027
				ity profile analysis	s and Nearby Lo	ogs
15) Approxima	ite Coal Seam I	Depths: 1	277'			
16) Approxima	te Depth to Po	ssible Voi	d (coal m	ine, karst, other):	None that we	are aware of. 📈
17) Does Propo directly overlyi				ms Yes	No	o x
(a) If Yes, pro	ovide Mine Info	o: Name				C
		Depth	:			RECEIVED Office of Gil and Gas
		Seam:	-			JUL 1 4 2022
		Seam:				JUL 1 4 2022

Owner:

WV Department of Environmental Protection



API NO. 47- 009 -

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	540'	540'	655 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	0'	2600' 🦯	1608 sx/CTS
Intermediate	9 5/8"	New	J/K-55	40#	2600'	3177' 🖊	
Production	6"	New	P-110	24.5#	0'	5000'	
Production	5 1/2"	New	P-110 HP	20#	5000'	30549'	Tail 5981sx/ 100' Inside Intermediate

Temate L. Leyold 7-7-22

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

PACKERS

Office of Gil and Gas
JUL 1 4 2022

Environment

Page 08/26/2022

WW-6B (10/14)

4710303521

API NO. 47- 009 -

OPERATOR WELL NO. Vernan Jahnson WTZ 60111 Well Pad Name: Vernan Johnson 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.)

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- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.4

22) Area to be disturbed for well pad only, less access road (acres): 5.9

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

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JUL 1 4 2022

WV Department of Environmental Protection



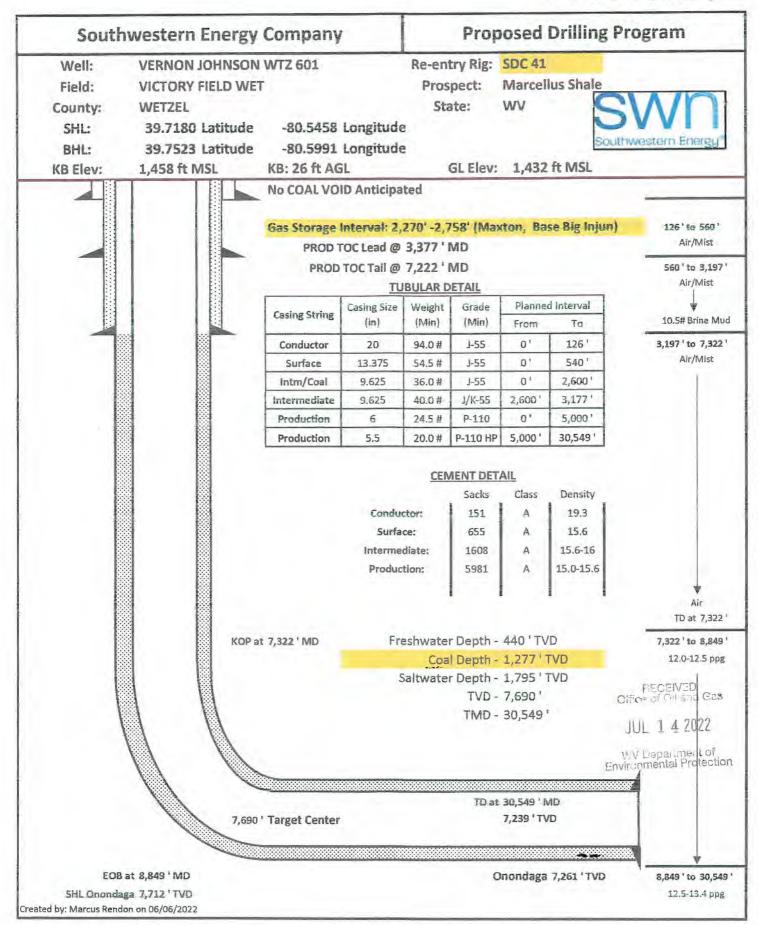
*Note: Attach additional sheets as needed.

			CEMENT A	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	\times	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\times	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	\bowtie	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	\ge	\succ	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	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
	\ge	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	\mathbf{X}	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
1.1.1.1	\ge	\ge	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	\ge	\times	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
PRODUCTION	D255	\times	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	> <	>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	\ge	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	> <	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\ge	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

20 NO. 3

JUL 1 4 2022

NV Department of Environmental Protection



08/26/2022

WW-9
(4/16)

API Number 47 - 103

Operator's Well No, Vernon Johnson WTZ 601H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924	
Watershed (HUC 10)_West Virginia Fork Fish Creek Quadrangle Littleton	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No
Will a pit be used? Yes No 🖌	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No 🖌 If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	4
Underground Injection (UIC Permit Number_ Various Approved Facilities)
Reuse (at API Number_At the next anticplated well Off Site Disposal (Supply form WW-9 for disposal location))
 Other (Explain recovery and solidification on site 	
Ves. See Attachment 3A	
Will closed loop system be used? If so, describe: Yes- See Attachment 3A	The second s
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Arduite Kor	י, fluid deil with SOBM from אמיי גם דע
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL01	18781, Wetzel County 1021
Apex Sanitary Landill Ub-U8438, Brooke Co SWF-1013,	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitte where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general perm law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the inform application form and all attachments thereto and that, based on my inquiry of those individuals imm obtaining the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Brittany Woody Company Official Title Senior Regulatory Analyst	ion. I understand that the it and/or other applicable mation submitted on this nediately responsible for
Subscribed and sworn before me this 1st day of Jone , 20 22	
Ril Cuf	REID CROFT Notary Public Official Seal State of West Virginia
My commission expires <u>E/21/2024</u>	My Comm. Expires Aug 21, 2024 47 Sparrow Lane Morgantown WY 26508



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.

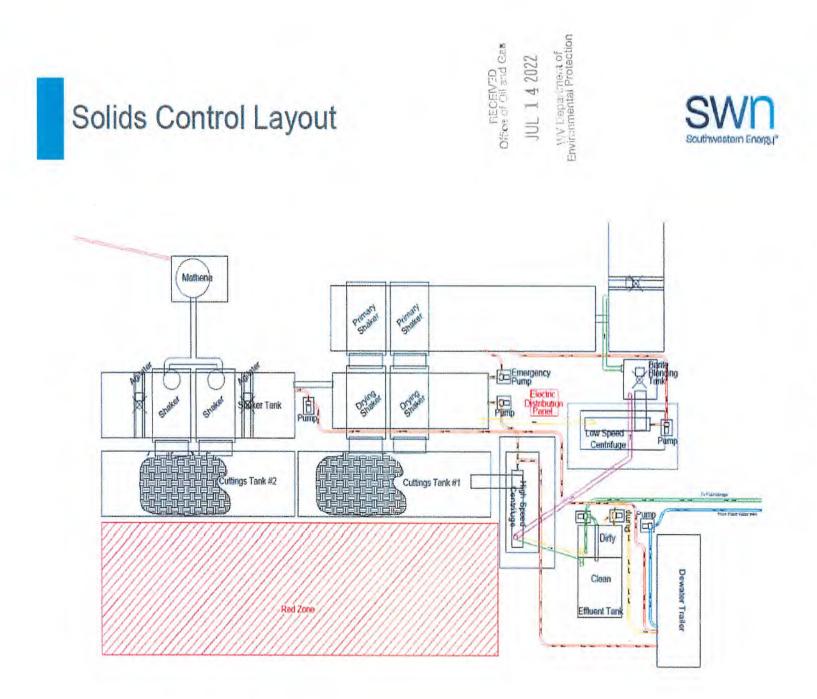
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WV Department of Environmental Protection

08/26/2022





EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

Attachment 3B

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

RECEIVED Offer of Cill and Cas

JUL 1 4 2022

WV Department of Environmental Protection

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Operator's Well No. Vernon Johnson WTZ 601H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturb	ed <u>8.4</u>	Prevegetation pH	I
Lime as determined by pH test min.2 Tons/acre or to	correct to pH _5.9		
Fertilizer type <u>10-20-20</u>			
Fertilizer amount 600/500	lbs/acre		
MulchHay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre Attachment 3C		Seed Type	lbs/acre
	<u></u> <u></u>		
	or land application (unles	s engineered plans includ	ling this info have been
provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic	ed, include dimensions (L	s engineered plans includ , x W x D) of the pit, and	
provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic	ed, include dimensions (L sheet.	, x \overline{W} x D) of the pit, and	
provided). If water from the pit will be land applic acreage, of the land application area.	ed, include dimensions (L sheet.	, x \overline{W} x D) of the pit, and	dimensions (L x W), and
provided). If water from the pit will be land applie acreage, of the land application area. Photocopied section of involved 7.5' topographic Plan Approved by:	ed, include dimensions (L sheet.	, x \overline{W} x D) of the pit, and	dimensions (L x W), and
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 Title:
 Oil & Gas Inspector
 JUL 1 4 2022

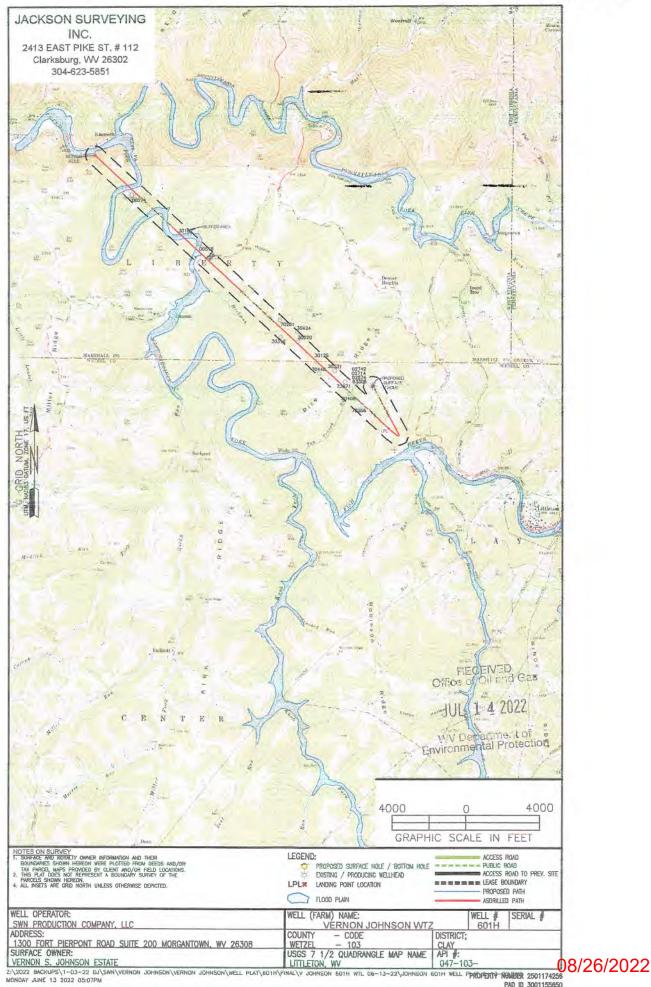
 Title:
 Date:
 7-7-22

 WV Departmental Protection

 Field Reviewed?
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08/26/2022

Southwestern Energy*	W	/D Seeding	Specification	R2-noV
	ed contact Lyndsi Eddy Flippo office S	70-996-4271 cell 501-26		or delivery)
NON-ORGANIC PROPERTIES			ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied		Seed Mixture: SWN Production Organic Mix	SWN Supplied
Drchardgrass	40%		Organic Timothy	50%
Timothy	15%		Organic Red or White Clover	50%
Annual Ryegrass	15%		OR	
Brown Top Millet	5%		Organic Perennial Ryegrass	50%
Red Top	5%		Organic Red or White Clover	50%
Medium Red Clover		l legumes are	Apply @ 100lbs per ser	
White Clover	5% innocu	lated at 5x normal	Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per acre Oct. 15th- April 15th
Birdsfoot Trefoil	5%	rate	April 2011 Oct. 2411	Oct. 15th- April 15th
Rough Bluegrass	5%		Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre
Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs Oct. 15th- April 2 50lbs per acre of W	15th PLUS		
	Solds per acre of w	inter wheat	WETLANDS (delineated as jurisdiction	
SOILAMENDMENTS			Seed Mixture: Wetland Mix	SWN Supplied
10-20-20 Fertilizer	*Apply @ 500lb	Contraction of the second s		20%
Pelletized Lime	Apply @ 2 Ton			20%
	*unless otherwise dictate	d by soil test results		20%
Seeding Calculation Information:				10% 355 - 555
1452' of 30' ROW/LOD is One Acre				20% 20% 20% 20% 10% 10% 5% 5%
871' of 50' ROW/LOD is One Acre				5%
622' of 70' ROW/LOD is One Acre				5% 0
				5%
Synopsis:		Carlor and States	Fox Sedge	2.5%
Every 622 linear feet in a 70' ROW/LOD,			Soft Rush	2.5%
bags of fertilizer and (80) 50lb bags of Li	me (2x seed in winter months +	50lb Winter		2.5%
Wheat/ac).			Swamp Verbena	2.5%
Special Considerations:			Apply @ 25lbs per acre	Apply @ 50lbs per acre
Landowner Special Considerations including guidance that is not given here. Discuss the beginning of the project to allow time for sp	se requirements with SWN supervi	the second se	April 16th- Oct. 14th NO FERTILIZER OR LIME INSI	Oct. 15th- April 15th DE WETLAND LIMITS



PAD ID 3001155650

Vernon Johnson WTZ 601H

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••••	API F	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
732	256	Unknown	Unknown	***	***	Unknown	Unknown	
304	108	Unknown	Unknown	***	***	3,310	Gordon	· · ·
732	271	Unknown	Unknown	***	***	Unknown	Unknown	· · · · · · · · · · · · · · · · · · ·
305	531	Unknown	Unknown	***	***	Unknown	Unknown	· ·
304	146	Unknown	Unknown	***	***	3,148	Gordon	· · · · · · · · · · · · · · · · · · ·
301	125	Unknown	Unknown	***	***	3,126	Gordon	
303	320	Unknown	Unknown	***	***	Unknown	Unknown	
303	319	Unknown	Unknown	***	***	3,229 ₁	Gordon	
304	424	Unknown	Unknown	***	***	Unknown	Unknown	· ·
702	261	Unknown	Unknown	***	***	Unknown	Unknown	
051	19-P	Unknown	Unknown	***	***	2,046	Unknown	
301	182	Unknown	Unknown	***	***	Unknown	Unknown	
027	74-P	Unknown	Unknown	***	***	2,053	Unknown	

iviv Department of ion FECENED Gas JUL 1 4 2022

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: Vernon Johnson WTZ 601H Littleton QUAD **Clay DISTRICT** WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Inttany Moody

Date: 5/31/2022

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: Terret 1. Storold Date: 7-7-22

Title:

Title:

Approved by:

Name:_____

Date:

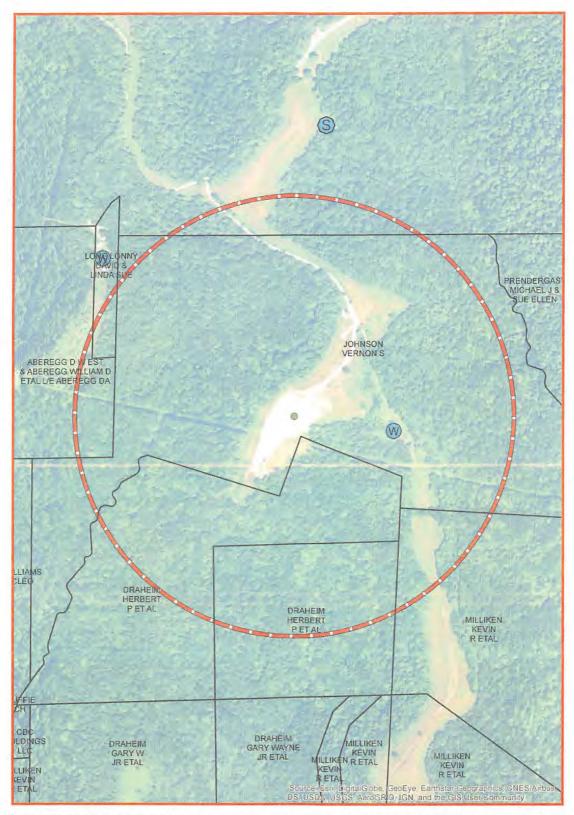
JUL 1 4 2022

RECEIVED Office of Oil and Cas

WV Department of Environmental Protection

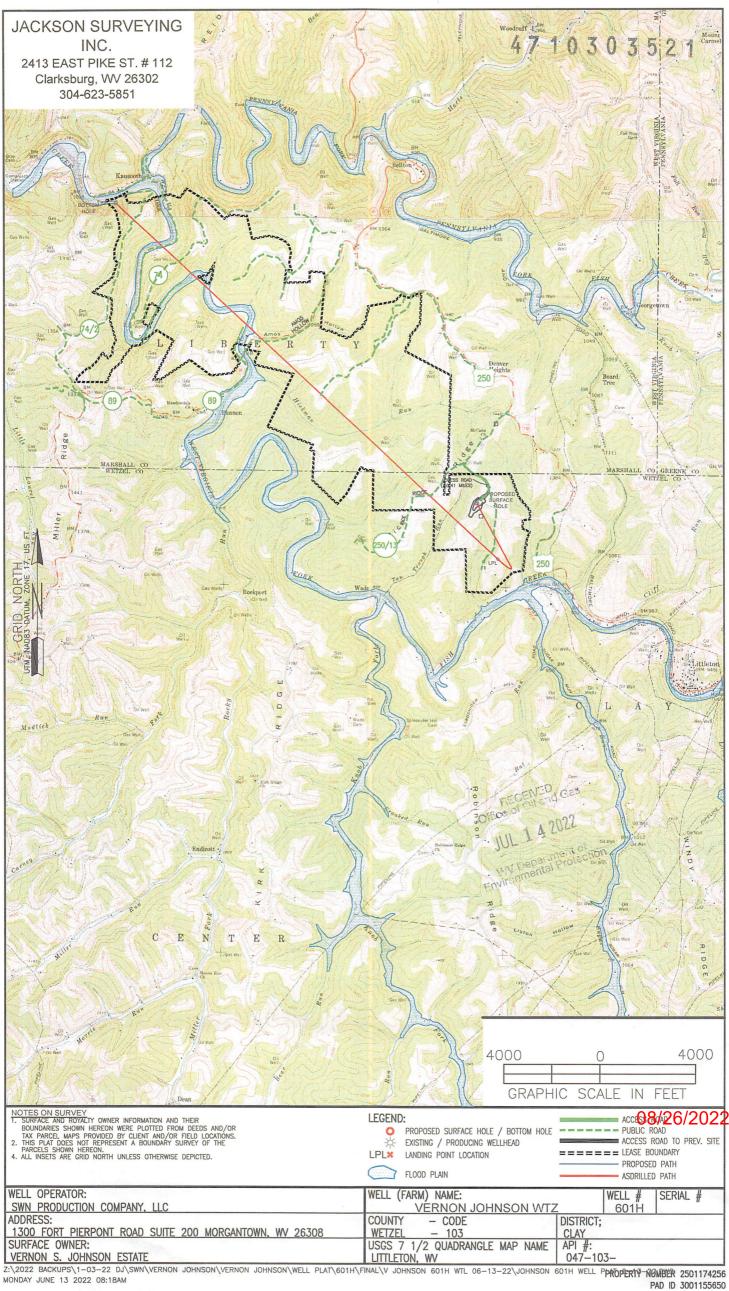
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

08/26/2022

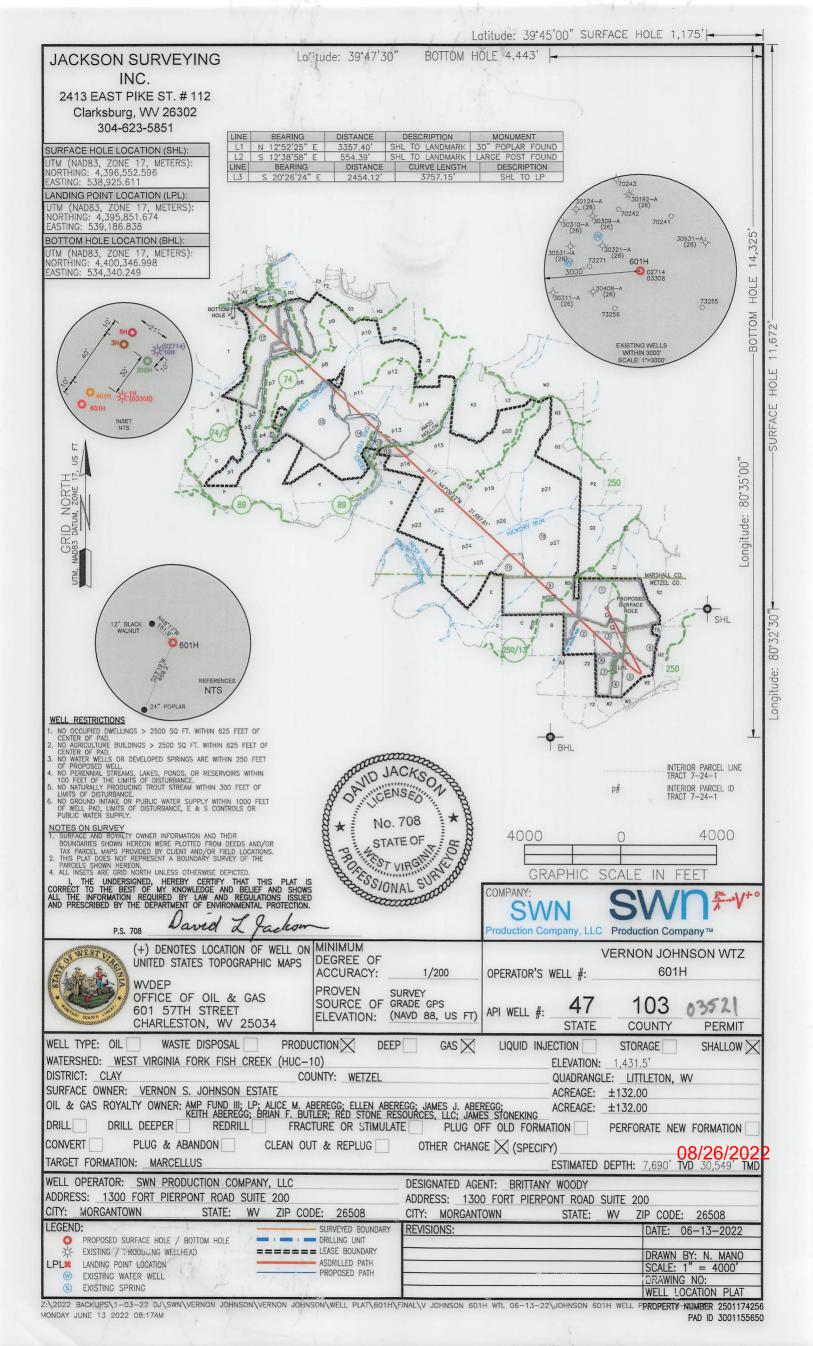


The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

Water Purveyo	r Map	Con Harris	Well Pad: Vernon Johns	son WTZ Pad	County: WETZEL	
Map by: speart NAD 1983 BLM Zone 17N ftUS	Date: 10/12/2017	O	Vernon Johns 39.718029, -8	on WTZ Coo 0.545754	rdinates;	§ 1
0	250 500	1,000	1,500	2,000 Feet		08/26/2022



PAD ID 3001155650



JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCE
	JOHNSON VERNON SEST (S)/ AMP FUND III; LP; ALICE M. ABEREGG;	
	ELLEN ABEREGG; JAMES J. ABEREGG; KEITH ABEREGG, BRIAN F. BUTLER;	
1	RED STONE RESOURCES, LLC; JAMES STONEKING (R)	3-1-1
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	DRAHEIM HERBERT P ET AL (S)	3-1-6
3	DRAHEIM HERBERT P ETAL (S)	3-1-5
4	MILLIKEN KEVIN R ETAL (S)	3-1-4
5	MILLIKEN KEVIN R ETAL (S)	3-1-13
6	MILLIKEN KEVIN R ETAL (S)	3-1-12
7	MILLIKEN KEVIN R ETAL (S)	3-1-11
8	DRAHEIM GARY WAYNE JR ETAL (S)	3-1-10
9	ABEREGG D W EST & ABEREGG WILLIAM D ETAL L/E ABEREGG DA (S)	1-3-2
10	W VA WILDLIFE RESOURCES SECTION (S)	7-24-1
	JOHN R. ISIMINGER; LAWRENCE W. MCCLELLAND; MICHAEL CLAY	
11	WADE(S)	7-24-6
12	PETER VELLEKOOP & LINDA VELLEKOOP (S)	7-26-6.1
13	GEDEON DANIEL D ET UX (S)	7-26-6
14	YOCUM JOSEPH LEE & MICHAEL D (S)	7-26-9
15	CONSOLIDATED GAS SUPPLY CORP (S)	7-26-8
16	FROMHART BRAD ET UX - LIFE (S)	7-20-41
17	GRIBBEN M PEGGY REVOCABLE LIVING TRUST (S)	7-19-28

ADJOINING OWNERS TABLE							
RACT	SURFACE OWNER	TAX PARCEL					
A	MCGUFFIE ARCH	1-6-5					
В	WILLIAMS JOHN EDWARD	1-3-9					
С	WILLIAMS LONNIE L	1-3-7					
D	SEIDLER EARL DALE & NETTIE	1-2-6.1					
E	WILLIAMS KATHERINE E TRUST	1-3-1					
F	VELLEKOOP PETER B ET UX - TOD	7-27-13					
G	VELLEKOOP PETER B ET UX - TOD	7-27-11					
Н	VELLEKOOP PETER B ET UX - TOD	7-27-10.1					
1	VELLEKOOP PETER B ET UX - TOD	7-27-6.2					
J	STIPETICH SUSAN F & FRANK R	7-27-4.2					
K	YOCUM JOSEPH LEE & MICHAEL D	7-27-4					
L	BUZZARD COLIN R	7-26-3					
M	HUNDRED RESOURCES IN C	7-26-11					
N	BUTLER JOHN M & LISA A	7-26-11.1					
0	HORNER DELORSE A	7-26-10					
P	WADE EDWARD E JR	7-27-2					
Q	MORGAN JAMES E - LIFE	7-26-14					
R	ROMACK VICTOR A	7-19-38					
S		7-19-30					
	HORNER DELORSE A - LIFE						
T U	GRIBBEN M PEGGY REVOCABLE LIVING TRUST	7-19-29					
	ZELIC NICK ET UX	7-19-27					
V	HORNER DELORSE A - LIFE	7-19-26					
W	CHURCH OF CHRIST TRUSTEES	7-19-25					
X	COLLINS BRIAN & PAMELA J	7-19-24					
Y	COLUNS BRIAN & PAMELA J	7-19-23.1					
Z	COLLINS BRIAN & PAMELA J	7-19-23.2					
A2	DRUSCHEL JAMES F & JAMIE ANN ET AL	7-19-23					
B2	CUMPSTON GAIL	7-19-20					
C2	UNDERDONK ALAN	7-16-25.1					
D2	FROMHART BRAD ET UX - LIFE	7-20-1					
E2	BURGE JUDITH A & VIRGINIA L BAILEY ET AL	7-20-6					
F2	GEHO ANNIE LEST	7-20-11					
G2	BURLEY AMMON ET UX	7-20-12					
H2	BURLEY AMMON	7-20-18					
12	BURLEY AMMON A	7-20-24					
J2	BURLEY AMMON A	7-20-37					
K2	GRESHAW JASON M & MARY L	7-25-2					
12	BROWN ANDREW C III	7-25-6					
M2	HARRINGTON CLYDE F	7-25-7					
N2	W VA DEPT OF COMMERCE DIV OF NATURAL RESOURCES	7-25-9					
02	CONAWAY THOMAS EARL JR & CAROLYN K STOWE	7-25-12					
P2	CONAWAY THOMAS E	7-23-1					
Q2	PRENDERGAST MICHAELJ & SUELLEN LEMLEY	7-23-26					
R2	LONG LONNY DAVID & LINDA SUE	1-3-2.1					
S2	PRENDERGAST MICHAELJ & SUE ELLEN	3-1-2					
T2	WV MINERALS INC	3-1-3					
U2	MCDIFFITT WILBERT(WEBB)H TRUST	3-1-35					
V2	GORBY GREGORY A & CYNTHIA D	3-1-14					
W2	WAYNE CARMINT REALTY	3-1-18					
X2	WAYNE CARMINT REALTY LLC	3-1-19					
Y2	WAYNE CARMINT REALTY LLC	3-1-20					
Z2	DRAHEIM GARY W JR ETAL	3-1-20					
A3	CBC HOLDINGS LLC	3-1-8.1					

				08/26/2022
REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Corr	npany™
	OPERATOR'S WELL #:	VERNON JOHNSON WTZ 601H	API #: 047-103-	DATE: 06-13-2022 DRAWN BY: N. MANO
	DISTRICT: CLAY	COUNTY: WETZEL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

Z:\2022 BACKUPS\1-03-22 DJ\SWN\VERNON JOHNSON\VERNON JOHNSON\WELL PLAT\601H\FINAL\V JOHNSON 601H WTL 06-13-22\JOHNSON 601H WELL PLAT 6-13-22.DWG MONDAY JUNE 13 2022 08:18AM

4 7 1 0 3 0 3 5 2 1 Operator's Well No. Vernon Johnson WTZ 601H

WW-6A1 (5/13)

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 –

- 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	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Exhibit "A"

*Co-tenancy utilization - 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:	ROZI
Its:	Senior Landman

OFFICENCE CES

JUL 1 4 2022

WV Department of Environmental Protection

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

#	тмр	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
1	3-1-1	Alice Driver, f/k/a Alice LeBoda, a single woman	Chesapeake Appalachia, L.L.C.	12.50%	94A/461	0.0000%
					157A/540	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	94A/464	4
		Ellen Vannatter, a single woman Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	157A/540	
		Carol Staley, f/k/a Carol Butler, a married woman	Chesapeake Appalachia, L.L.C.	12.50%	94A/467	-
		dealing in her sole and separate property	- and the state of			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		James Joseph Aberegg, a/k/a Joseph Aberegg, a	Chesapeake Appalachia, L.L.C.	12.50%	94A/476	
		single man Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		James Denzil Stoneking, a married man dealing in	Chesapeake Appalachia, L.L.C.	12.50%	94A/470	
		his sole and separate property				
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	157A/540 94A/473	4 1
		Keith Aberegg, a married man dealing in his sole and separate property	Chesapeake Appalachía, L.L.C.	12.50%	94A/473	
-		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
2	3-1-6	Allan Karl Draheim, a married man dealing in his	Chesapeake Appalachia, L.L.C.	12.50%	91A/107	0.0000%
		sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
1.1		Timothy Neil Draheim, a single man	Chesapeake Appalachia, L.L.C.	12.50%	91A/110	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Steven Mark Draheim, a married man dealing in his	Chesapeake Appalachia, L.L.C.	12.50%	90A/686	1 1
		sole and separate property				
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	10.502	157A/540	
		Gary Wayne Draheim, Sr., a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	90A/680	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Edward Michael Draheim, a married man dealing in	Chesapeake Appalachia, L.L.C.	12,50%	90A/689	1
		his sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		William Lester Draheim, a married man dealing in	Chesapeake Appalachia, L.L.C.	12,50%	90A/683	1 1
		his sole and separate property				
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	4 1
		Louis David Williams, Jr., a married man dealing in his sole and separate property	Chesapeaké Appalachia, L.L.C.	12.50%	90A/496	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Louis David Williams, III, a married man dealing in	Chesapeake Appalachia, L.L.C.	12.50%	91A/113	1
		his sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
1		Vernon Sterling Johnson, a single man	Chesapeake Appalachia, L.L.C.	12.50%	90A/579	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Gerald Edward Dean, a single man	Chesapeake Appalachia, L.L.C.	12.50%	91A/104	1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
3	3-1-5	Allan Kari Draheim, a married man dealing in his	Chesapeake Appalachia, L.L.C.	12.50%	91A/107	0.0000%
1		sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Timothy Nell Draheim, a single man	Chesapeake Appalachia, L.L.C.	12.50%	91A/110	1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Steven Mark Draheim, a married man dealing in his	Chesapeake Appalachia, L.L.C.	12,50%	90A/686	1
		sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Gary Wayne Draheim, Sr., a married man dealing in	Chesapeake Appalachia, L.L.C.	12,50%	90A/680	APARTICS
		his sole and separate property				Office of The CENT
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	4
		Edward Michael Draheim, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	90A/689	JUL 1 4 2022
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	JUL I S LOLL
		William Lester Draheim, a married man dealing in	Chesapeake Appalachia, L.L.C.	12.50%	90A/683	WW Denaliment
		his sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	WV Departments Environmental Prote
		Louis David Williams, Jr., a married man dealing in	Chesapeake Appalachia, L.L.C.	12.50%	90A/496	
		his sole and separate property				
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Louis David Williams, III, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12,50%	91A/113	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Vernon Sterling Johnson, a single man	Chesapeake Appalachia, L.L.C.	12.50%	90A/579	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Gerald Edward Dean, a single man	Chesapeake Appalachia, L.L.C.	12,50%	91A/104	
	2 a b	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	10 933385
4	3-1-4	Royalty Owners Beth Ann Barnhart, a married woman dealing in her	N/A Chesapeake Appalachia, L.L.C.	N/A 12,50%	N/A	10.8333%
		sole and separate property	Simappeore appalacitia, L.L.C.	12,5076	109A/31	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Bryan L. Gorby and Melanie C. Gorby, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100A/271	08/26/2022

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

			tzel County, West Virginia	471	03	03521	
#	ТМР	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC	
		George B. Vieweg IV	SWN Production Company, L.L.C.	17.50%	186A/495		
		Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia		12.50%	104A/383		
		Gorby, his wife			1574/540		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	17.50%	157A/540 186A/503		
		Gwendolyn J. Vieweg James A. Campell and Tinamarie Campbell, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	128A/646		
		Tames A. Campen and Titlamane Campbell, his wife		1,00,0	120/0/0/10		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Jennifer Dvorak, married dealing in her sole and	SWN Production Company, LLC	15.00%	204A/929		
		separate property Richard Paul Murphy, by his attorney-in-fact Jo Ann W. Murphy and Jo Ann W. Murphy, his wife	Chesapeake Appalachia, L.L.C.	17.00%	128A/654		
					4574/540		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	157A/540 100A/484		
		John Allan Moore a/k/a John A. Moore and Marcia W. Moore, his wife	Chesapeake Appalachia, L.L.C.	12.50%	100/0404		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		John K. Campbell, Jr., a single man	Chesapeake Appalachia, L.L.C.	17.00%	130A/38		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Kevin R. Milliken, a married man dealing in his sole	Chesapeake Appalachia, L.L.C.	12.50%	109A/120		
		and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Lance Everett Rhodes	SWN Production Company, LLC	17.50%	186A/509		
		Lawrence T. Goodin, Douglas E. Goodin and Carol E.	SWN Production Company, LLC	15.00%	212A/835		
		Goodin, Trustees of the Helen G. Dewell Trust dated May 1, 1990					
		Lois J. Bellaire a/k/a Lois Bellaire, a widow Mark A. Kraus a/k/a Mark Albert Kraus, a single	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	185A/17 128A/553		
		man man Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	1.00%	157A/540		
		Melissa Campbell	SWN Production Compoany, LLC	17.00%	186A/505		
		Merle Donna Wright a/k/a Merle Oates a/k/a Merle Donna Oates and Norman L. Wright, her husband	SWN Production Company, LLC	14.00%	184A/407		
		Patrice Strachan, married dealing in her sole and separate property	SWN Production Company, LLC	15.00%	204A/925		
		Patricia Ann McCann a/k/a Patty McCann, a/k/a Patricia A. McCann, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	127A/367		
		Chesapeake Appalachia, L.L.C. Robert A. Petitte, Jr. a/k/a Robert Petitte, Jr. and	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	157A/540 100A/858		
		Anita F. Petitte, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	157A/540		
		Ronald T. Frederickson and Jeanette Frederickson,	Chesapeake Appalachia, L.L.C.	17.00%	127A/372		
		his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Suzanne Rexroad, a married woman daling in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/29		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Silvia Phillips a/k/a Sylvia Phillips, a widow	Chesapeake Appalachia, L.L.C.	17.00%	134A/3		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Terri Barrow, a married woman dealing in her sole	SWN Production Company, LLC	15.00%	204A/776		
			SWN Production Company, LLC	17.50%	186A/507		
5	3-1-13	Susan Vieweg, his wife Cindy D. Adams and Randy G. Adams, her husband	Chesapeake Appalachia, LLC	12.50%	99A/435	0.0000%	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties		120A/109		
		Cheapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540		
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC	47	158A/801		
		Beth Ann Barnhart, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	15.00%	108A/789		
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties		120A/109	RECEIVE	-D
		Cheapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	FIECEIVE Office of Cilla	end C
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		158A/801		
		Bryan L. Gorby and Melanie C. Gorby, his wife	Chesapeake Appalachia, LLC	12.50%	100A/259	JUL 1 4 2	2022
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties		120A/109	WW Denaitm	nent o
			SWN Production Company, LLC		157A/540	ttv Depaitm Envir≎nmental P	Protec
		Cheapeake Appalachia, L.L.C.	CM/M Droduction Community		158A/801		
		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC	40 500/	1044/077		
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia		12.50%	104A/377		
		Statoil USA Onshore Properties Inc.		12.50%	104A/377 120A/109		
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife	Chesapeake Appalachia, LLC	12.50%			
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, LLC Statoil USA Onshore Properties	12.50%	120A/109		
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthia Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Milliken, a married man dealing in his sole and	Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC	12.50%	120A/109 157A/540		
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthla Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Miliken, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC		120A/109 157A/540 158A/801 108A/568	08/26/202	02
		Statoil USA Onshore Properties Inc. Gregory A. Gorby, a/k/a Gregory Gorby and Cynthla Gorby, his wife Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. Kevin Miliken, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC Statoil USA Onshore Properties SWN Production Company, LLC SWN Production Company, LLC		120A/109 157A/540 158A/801	08/26/202	22

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

	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Suzanne Rexroad, a married woman dealing in her	Chesapeake Appalachia, LLC	15.00%	108A/791	
T.		sole and separate property	Constant and the second second			
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties		117A/886	
		Cheapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
_		Statoil USA Onshore Properties Inc.	SWN Production Company, LLC	11/2	158A/801	7.5540%
	3-1-12	Royalty Owners	N/A	N/A 17.00%	N/A 277A/88	7.3540%
		Kevin R. Milliken, a married man dealing in his sole and separate property Beth Ann Barnhart, a married woman dealing in her	SWN Production Company, LLC SWN Production Company, LLC	17.00%	277A/83	
		sole and separate property Suzanne Rexroad, a married woman dealing in her	SWN Production Company, LLC	17,00%	Pending	
		sole and separate property Ruth Ann Gianni a/k/a Ruth Kelly, and Robert	SWN Production Company, LLC	17.00%	268A/47	
		Gianni, her husband Daniel P. Kelly, married dealing in his sole and	SWN Production Company, LLC	17.00%	268A/32	
		separate property Bernard V. Kelly, Jr. a/k/a Bernard Kelly, and Cheryl	SWN Production Company, LLC	17.00%	269A/565	
- 11		L. Kelly Charles William Baier, widower	SWN Production Company, LLC	17.00%	268A/69	1 1
		Dona L. Smith, widow	SWN Production Company, LLC	17.00%	264A/158	1
		Clarita V. Bash, widow	SWN Production Company, LLC	17.00%	264A/190	
		Dennis M. Connelly and Cathy L. Connelly, his wife	SWN Production Company, LLC	17.00%	264A/523	1
		Timothy Allan Connelly and Lori A. W. Connelly, his	SWN Production Company, LLC	17.00%	264A/529	
		wife Margaret Daugherty, a widow	SWN Production Company, LLC	17.00%	269A/576	
		Donald K. Mason, widower	SWN Production Company, LLC	17.00%	268A/37	1 1
		Varena A. Hollingshead, single	SWN Production Company, LLC	17.00%	267A/472	1 1
		Michael A. Daugherty, a/k/a Michael Albert Daugherty, a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	17.00%	144A/87	
		separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Raymond B. Daugherty and Rheda N. Daugherty, his		17.00%	264A/195	
		wife Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her	SWN Production Company, LLC	17.00%	265A/938	
		husband Laura L. Borick, f/k/a Laura Lee Stocks, married	SWN Production Company, LLC	17.00%	265A/390	
		dealing in her sole and separate property Mary P. Christy, F/k/a Mary P. Morris, F/k/a/ Mary	SWN Production Company, LLC	17.00%	267A/445	
		Stocks, married dealing in her sole and separate property	Switt Production Company, LCC	17.00%	2074/440	
		Patrick T. Stocks, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	265A/396	
		Michelle LeCroy, f/k/a Michelle L. Dolin, and James R. LeCroy, her husband	SWN Production Company, LLC	17.00%	265A/428	
		Julie Stocks f/k/a Julie Marie Handy	SWN Production Company, LLC	17.00%	265A/412	
		Mary Snead, a/k/a Mary Louise Snead, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	265A/434	
		Martha A. Frank and Ronald J. Frank, her husband	SWN Production Company, LLC	17.00%	264A/535	
		Robert W. Milliken and Sandra Milliken, his wife	SWN Production Company, LLC	17.00%	264A/137	
		Tracy Lee Howard and Mary Kathryn Howard, his wife	SWN Production Company, LLC	17.00%	270A/442	
			SWN Production Company, LLC	17.00%	278A/170	
		Debra Ann Piktel, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	277A/537	
		John Allan Moore, a/k/a John A. Moore, married dealing in his sole and separate property	SWN Production Company, LLC	18.00%	283A/423	
		Eric J. Moore, single	SWN Production Company, LLC	17.00%	277A/526	
		Bryan L. Gorby, married dealing in his sole and	SWN Production Company, LLC	17.00%	277A/93	ETOTIVED
		separate property Cindy Adams, married dealing in her sole and	SWN Production Company, LLC	17.00%	277A/98	Cf2es of Clark Co
		separate property Gregory A. Gorby, married dealing in his sole and	SWN Production Company, LLC	17.00%	278A/182	JUL 1 4 2022
		separate property Joseph M. Martini, single	SWN Production Company, LLC	17.00%	278A/187	
		Richard M. Martini, single	SWN Production Company, LLC	17.00%	277A/909	ttv Depaiment of Environmental Protect
			SWN Production Company, LLC	17.00%	283A/845	Environmental Protect
		and separate property	0101 P. J. J. C			
		Dorothy A. Baier, widow Kathleen M. Ciorra, married dealing in her sole and	SWN Production Company, LLC SWN Production Company, LLC	17.00%	285A/733 284A/419	
		separate property Betty Jean Stanley Connelly, widow	SWN Production Company, LLC	17.00%	284A/431	
		Joanne Lynn Schricker, married dealing in her sole	SWN Production Company, LLC	17.00%	284A/431 284A/413	
		and separate property				
		Laura Jean Mason, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/425	08/26/2022
		Alice Ann Wise, single	SWN Production Company, LLC	17.00%	266A/6	

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

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*	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Margaret McFarland Glaser, married dealing in her	SWN Production Company, LLC	17.00%	285A/784	
		sole and separate property Jeanne Strasser Geusz, married dealing in her sole	SWN Production Company, LLC	17.00%	281A/477	1
		and separate property Molly Strasser, single	SWN Production Company, LLC	17.00%	282A/537	4
		Robin Strasser, single	SWN Production Company, LLC	17,00%	282A/543	1
		Mark Edward Strasser	SWN Production Company, LLC	12.50%	281A/508	
		Kevin L. Strasser, single	SWN Production Company, LLC	17,00%	281A/489	
		Nancy Strasser Lehnhart, single	SWN Production Company, LLC	17.00%	283A/417 282A/480	
		Timothy J. Strasser, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	2024/480	
		Nicholas D. Strasser, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	281A/514	
		Mary Ann Strasser, widow Frank A. Farrell, married dealing in his sole and	SWN Production Company, LLC SWN Production Company, LLC	17.00%	282A/525 285A/761	
		separate property Bernard J. Farrell, single	SWN Production Company, LLC	17.00%	284A/443	4
		Marcus E. Farrell, a married man dealing in his sole	SWN Production Company, LLC	17.00%	284A/443	
	0	and separate property			1.200	
		Nancy Osborn, widow	SWN Production Company, LLC	17.00%	281A/439	4
		Varena J. Farrell Kessel, single	5WN Production Company, LLC	17.00%	285A/772	4
		Stephen D. Thompson, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	Pending	
		Nancy J. Thompson, widow	SWN Production Company, LLC	17.00%	283A/833	
		Catherine B. DiFlorio, married dealing in her sole	SWN Production Company, LLC	17.00%	283A/400	
		and separate property Debra L. Phillips, single	SWN Production Company, LLC	17.00%	279A/633	
		Timothy J. Frederick and Pamela B. Frederick, a	SWN Production Company, LLC	17.00%	280A/364	
		married couple	SWN Production Company, LLC	17.00%	281A/483	
		Harold R. Byrd, single Christopher S. Byrd, single	SWN Production Company, LLC SWN Production Company, LLC	17.00%	281A/483 282A/469	
		Cathy L. Sneed, married dealing in her sole and	SWN Production Company, LLC	17.00%	281A/495	
		separate property				
	3-1-11	Royalty Owners	N/A	N/A	N/A	7.3000%
		Kevin Milliken, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	261A/594	
		Robert A. Petitte, Jr., married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	261A/829	
		Debra Piktel, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	261A/600	
		Eric J. Moore, single	SWN Production Company, LLC	17,00%	267A/441	
		Bryan L. Gorby, married dealing in his sole and separate property	SWN Production Company, LLC	17,00%	263A/831	
		Cindy Adams, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	261A/598	
1		Gregory Gorby, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	261A/596	
		Michael A. Daugherty, a/k/a Michael Albert Daugherty, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	17,00%	144A/83	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Raymond B. Daugherty and Rheda N. Daugherty, his wife	SWN Production Company, LLC	17.00%	263A/315	
			SMAI Develution Company 11C		0CEA /020	
		Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her husband	SWN Production Company, LLC	17.00%	265A/938	CONTRACTOR .
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and	SWN Production Company, LLC	17.00%	265A/428	Cry RECENTD
		husband				
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband	SWN Production Company, LLC	17,00%	265A/428	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate	SWN Production Company, LLC SWN Production Company, LLC	17,00%	265A/428 265A/412	
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00%	265A/428 265A/412 265A/434	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/434 267A/446	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/434 265A/434 265A/446 265A/396	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and <u>separate property</u> Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/434 267A/446 265A/396 265A/390	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/412 265A/414 265A/4146 265A/396 265A/390 265A/390 264A/137 264A/535	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/412 265A/434 267A/446 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/412 265A/414 265A/4146 265A/396 265A/390 265A/390 264A/137 264A/535	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/412 265A/434 267A/446 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and separate property Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, hls wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/434 265A/434 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6 Pending	JUL 1 4 202
		husband Michelle LeCroy, f/k/a Michelle Lee Dolin, and James R. LeCroy, her husband Julie Stocks, f/k/a Julie Marie Handy, single Mary Snead, a/k/a Mary Louise Snead married dealing in her sole and spearate property Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary Stocks, married dealing in her sole and separate property Patrick T. Stocks, married dealing in his sole and <u>separate property</u> Laura L. Borick, f/k/a Laura Lee Stocks, married dealing in her sole and separate property Robert W. Milliken and Sandra Milliken, his wife Martha A. Frank and Ronald J. Frank, her husband Kathleen E. Daugherty, widow Alice Ann Wise, single John D. Wise, married dealing in his sole and <u>separate property</u> Varena A. Hollingshead, single	SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00% 17.00%	265A/428 265A/412 265A/412 265A/434 265A/346 265A/396 265A/390 265A/390 264A/137 264A/535 269A/610 266A/6 Pending 267A/472	JUL 1 4 202

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Vernon Johnson WTZ 601H Wetzel County, West Virginia

	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
-			SWN Production Company, LLC	17.00%	261A/99	
		wife Beth Ann Barnhart, a married woman dealing in her	SWN Production Company, LLC	17.00%	Pending	1
		sole and separate property		17.00%	D - diam	- 1
		Suzanne Rexroad, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	Pending	
			SWN Production Company, LLC	18.00%	283A/423	1
		The second se	SWN Production Company, LLC	17.00%	Pending	4
				17.00%	285A/193	
		and separate property	Switt Plotaction company, eec		and a sec	
		Thomas Summers Daugherty, married dealing in her	SWN Production Company, LLC	17.00%	Pending	1
		sole and separate property Mary Louise Gault aka Mary Lou Gault, single	SWN Production Company, LLC	17.00%	279A/639	
			SWN Production Company, LLC	17.00%	286A/514	1
		wife Benjamin F. Farrell, a single man	SWN Production Company, LLC	17.00%	283A/839	4
			SWN Production Company, LLC	17.00%	284A/443	1
			SWN Production Company, LLC	17.00%	285A/784	
		sole and separate property			_	-
		Jeanne Strasser Geusz, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	281A/477	
			SWN Production Company, LLC	17.00%	282A/537	1
			SWN Production Company, LLC	17.00%	282A/543	1
		Mark Edward Strasser	SWN Production Company, LLC	12.50%	281A/508	1
11/		Kevin L. Strasser, single	SWN Production Company, LLC	17.00%	281A/489	1
-W		Nancy Strasser Lehnhart, single	SWN Production Company, LLC	17.00%	283A/417	4
			SWN Production Company, LLC	17.00%	282A/480	
		separate property Nicholas D. Strasser, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	281A/514	
			SWN Production Company, LLC	17,00%	282A/525	1
		Frank A. Farrell, married dealing in his sole and	SWN Production Company, LLC	17.00%	285A/761	1
		separate property Marcus E. Farrell, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	284A/437	
			SWN Production Company, LLC	17,00%	281A/439	1 1
			SWN Production Company, LLC	17.00%	285A/772	1 1
		Kathleen M. Ciorra, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/419	
			SWN Production Company, LLC	17.00%	284A/431	
		Joanne Lynn Schricker, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/413	1 1
		Laura Jean Mason, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/425	1
		and separate property	SWN Production Company, LLC	17.00%	Pending	
		Clifford J. Thompson, Jr., married dealing in his sole and separate property Nancy I. Thompson, widow		17.00%	283A/845	FECEWER
			SWN Production Company, LLC SWN Production Company, LLC	17.00%	283A/833 283A/400	
		and separate property				
			SWN Production Company, LLC	17.00%	285A/733	JUL 1 4 20
			SWN Production Company, LLC	17.00%	263A/489	
		Thomas C. Wise, married dealing in his sole and separate property	SWN Production Company, LLC	17.00%	Pending	Environmental Pro
		Cathy L. Sneed, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	281A/495	Envirenmental Pro
			SWN Production Company, LLC	17.00%	282A/469	
			SWN Production Company, LLC	17.00%	281A/483	-
		Timothy J. Frederick and Pamela B. Frederick, a married couple	SWN Production Company, LLC	17.00%	280A/364	
			SWN Production Company, LLC	17.00%	277A/909	1
1		Joseph M. Martini, single	SWN Production Company, LLC	17.00%	278A/187	· · · · · · · · · · · · · · · · · · ·
	3-1-10		N/A	N/A	N/A	21.5412%
			SWN Production Company, LLC	17.00%	263A/305	
		Santonas, widow Alice Ann Wise, single	SWN Production Company, LLC	17.00%	266A/6	4
			SWN Production Company, LLC SWN Production Company, LLC	17.00%	266A/6 264A/216	4
		separate property	SWN Production Company, LLC	17.00%		
		Construction of the constr	SWN Production Company, LLC SWN Production Company, LLC	17.00%	263A/300 265A/402	4
		husband	SWN Production Company, LLC SWN Production Company, LLC	17.00%	265A/402 269A/565	4
		L. Kelly, his wife			1	
			SWN Production Company, LLC	17.00%	279A/705	
			SWN Production Company, LLC	17.00%	284A/170	
		Cathy L. Sneed, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	281A/495	08/26/2022
		Church of Christ Coschocton		17.00%	282A/520	4

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

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Dou L, Salay, vadow WW Production Company, LIC 12.006 3204/33 Dou L, Salay, vadow WW Production Company, LIC 14.007 3204/33 Douglas R, Annold and Chanyll A, Annolk Na W, WP Production Company, LIC 14.007 3204/33 Edward K-Linkan, Yangh SVM Production Company, LIC 14.007 3204/33 Edward K-Linkan, Tampiel Anno, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 Production Company, LIC Down A, Sanay M, Sanay M, Salay B, Infer SVM Production Company, LIC 17.007 20.004/05 Garry Wayre Dokalon, J., manning doaling In hit cox SVM Production Company, LIC 18.009 Production Company, LIC 18.009 Davies R, Linkan K, Linkan K, Linkan K, Linkan K, Linkan K, Linkan K, Kin K, WM Production Company, LIC 18.009 20.004/05 Garry Wayre Dokalon, J., manning doaling In hit cox SVM Production Company, LIC 18.009 20.004/05 Davies R, Linkan K, Linkan K, Kin WM, M M, Production Company, LIC 19.009	тмр	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
First Wate: SNP Production Company, LC 11.00% 220,456 Edges R. Envig and Complex, member density, in the MP Production Company, LC 11.00% 2444/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2444/26 Inhuma Samon Daglinghim, member density in the MP Production Company, LC 11.00% 2444/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Envig and Complex, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, member density in the MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, member density in the Sim Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26 Edges R. Mark Teles, M. Mark Teles, M. Mark Teles, M. MP Production Company, LC 11.00% 2464/26		Dona L. Smith, widow	SWN Production Company, LLC	17.00%	261A/113	
Daugha X, Annual and Chary D, Annakl, Ibi anfie XMP Production Company, LLC 17.096 204.4256 Clauset MUSAINST Charge T, married dauling in Ibi Mile and approximate and approximate many difference of the second secon		Donald K. Mason, widower	SWN Production Company, LLC	17.00%	261A/93	
Daugha X, Annual and Chary D, Annakl, Ibi anfie XMP Production Company, LLC 17.096 204.4256 Clauset MUSAINST Charge T, married dauling in Ibi Mile and approximate and approximate many difference of the second secon				16.00%	282A/560	1
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Ribbard Balayter, marked dating in https://www.network.com/opers/t.LC 17.00% 255/439 Balay A, Jange D, Sugders, Jange D, Santo S, Santo M, Santo			SWN Production Company, LLC	17.00%	Pending	
Name J. Bunghama, media SWN Production Company, LLC 17.20% Pending G. Jano Sackson and Mathem Start Statuto, In-Markal Mark Poduktion Company, LLC 17.20% 2854/241 Gail Thomas For and Barkam Arne For, Ma wife NW Poduktion Company, LLC 18.00% Pending Gary Wayne Drahem, Jr., marted Galling In Na cole SWN Poduktion Company, LLC 18.00% 2864/241 Gary Wayne Drahem, Sr., marted Galling In Na cole SWN Poduktion Company, LLC 18.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder F. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder K. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/243 Barder K. Sarrow, marted Galling In Na cole and SWN Poduktion Company, LLC 17.00% 2864/245 Barder K. Sarrow, marted Galling In Na cole and SWN Produktion Company, LLC 17.00% 2864/245 Barder K. Sarow, Mareed Galling In Na cole and SWN Produktion Company, LLC </td <td></td> <td>Richard Albert Daughtery, married dealing in his</td> <td>SWN Production Company, LLC</td> <td>17.00%</td> <td>285A/193</td> <td></td>		Richard Albert Daughtery, married dealing in his	SWN Production Company, LLC	17.00%	285A/193	
C. Jam Stocken and Robert Stockton, her Hudbard WM Production Company, LLC 17 20% 284/4941 Gall Towner For and Barbart Annot for his will NM Production Company, LLC 17 20% 284/4951 Gray Waves Dahnhai, Sr., mandrid dating in his old DMP Production Company, LLC 18 20% Pending Gray Waves Dahnhai, Sr., mandrid dating in his old DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4973 Gala Barbart Stockton, unrefed dating in his old and DMP Production Company, LLC 19 20% 284/4974 Headool Exer, angle DMM Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart, angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 The accol Barbart Angle DMP Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E. Corby and Barby Luc Garby, Na wife DMM Production Company, LLC 19 20% 284/498 Davie E			SWN Production Company, LLC	17.00%	Pending	
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and agents property Surviva Dealers, S., marked dealing in Mar. Solver, M. 1999. 15.00%. 258.4757 Boulds, R., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4758 Baseder, P., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4788 Baseder, P., Harmon, marked dealing in Nar. Solver, and S. W.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Solver, S. W.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton, M., Barton, M.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton, M., Barton, M.M. Production Company, LLC 17.00%. 284.4748 Baseder, M., Basedon, M., Barton,		Gail Thomas Fox and Barbara Anne Fox, his wife	SWN Production Company, LLC	17.00%	265A/385	
Gary Wards Datakin, S., martinel dealing in his SWN Production Company, LLC 12.00% 2284/357 Bruce R., Hermon, morried dealing in his sole and segretize accessity. SWN Production Company, LLC 17.00% 2284/273 Gara Martinel dealing in his sole and segretize accessity. SWN Production Company, LLC 17.00% 2284/273 Gara Martinel dealing in his sole and SWN Production Company, LLC 17.00% 2284/273 Harold R., Boyd, single SWN Production Company, LLC 17.00% 2284/278 Harold R., Boyd, single SWN Production Company, LLC 17.00% 2284/278 Boyd, H., McConad, morried dealing in his sole and SWN Production Company, LLC 17.00% 2284/278 David W. Gordy, and Barty, Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/288 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/281 Buse E. Gordy and Earty Luc Gordy, Nu WR SWN Production Company, LLC 17.00% 2284/28			SWN Production Company, LLC	18.00%	Pending	
Bace R. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/056 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/173 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/174 Hawley F. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/174 Have S. Harmon, married dealing in hit sole and SWN Production Company, LLC 17.00% 284/178 Idealua Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 Type Jacob Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, single SWN Production Company, LLC 17.00% 284/178 David Lake Harmon, Single SWN Production Company, LLC 17.00% 284/17		Gary Wayne Draheim, Sr., married dealing in his	SWN Production Company, LLC	18.00%	263A/837	
Hawley P, Harmon, married dasling in his sole and generate program. SVN Production Company, LLC 13.00% 284/373 General Encod Dain, single SVN Production Company, LLC 13.00% 284/148 Harrol R, Boyd, Single SVN Production Company, LLC 17.00% 287/118 Bach LH, MacDonald, married dasling in her cole and SVN Production Company, LLC 17.00% 284/378 Davia Leavi Hermon, stagle SVN Production Company, LLC 17.00% 284/378 Tyler Jacob Harmon, single SVN Production Company, LLC 17.00% 284/378 Dow H, MacDonald, married dasling in his sole and SVN Production Company, LLC 17.00% 284/378 Davia Leavi Hermon, single SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00% 284/421 Andre Enratic Good Carl, A Fax, Iki wife SVN Production Company, LLC 17.00%		Bruce R. Harmon, married dealing in her sole and	SWN Production Company, LLC	17.00%	286A/506	
Gend & Biwdo Dean, angle SWN Production Company, LIC 13.00% 224/148 Fach K. Boyd, angle dashig in her sole and SWN Production Company, LIC 17.00% 281/118 Boy H. MacDonald, married dashig in her sole and SWN Production Company, LIC 17.00% 281/118 Darbu Lew H. Bronn, single SWN Production Company, LIC 17.00% 281/138 Darbu Lew H. Bronn, single SWN Production Company, LIC 17.00% 281/138 Davie L. M. Bronn, single SWN Production Company, LIC 17.00% 281/148 Davie M. Gorty and Caroll. Garby, his wife SWN Production Company, LIC 17.00% 281/1460 Davie M. Gorty and Caroll. Garby, his wife SWN Production Company, LIC 17.00% 281/1460 Mark F. Garby and Caroll. Garby, Mi wife SWN Production Company, LIC 17.00% 281/1460 Mark E. And Garby Builer n/U/a Melicsa Ann Buder, SWN Production Company, LIC 17.00% 281/1460 Mark E. And Garby Biwler n/U/a Melicsa Ann Buder, SWN Production Company, LIC 17.00% 281/1450 Jaho D. Wile, married dastig in the sole and SWN Production Company, LIC 17.00% 288/121 John D. Wile, married d		Hawley P. Harmon, married dealing in his sole and	SWN Production Company, LLC	17.00%	284A/373	
service it. Boyd, snared dating in her sole and SWN Production Company, LLC 17.00% 2217/113 Endity I. MancOoking, nameld SWN Production Company, LLC 17.00% 2287/113 Endity K. Hamoo, Imaged SWN Production Company, LLC 17.00% 2287/113 Endity K. Hamoo, Imaged SWN Production Company, LLC 17.00% 2281/483 Typic Jacobs Larous Single SWN Production Company, LLC 17.00% 2281/483 David W. Gorby, married dating in his sole and sparse for and Carol. Leady, his wife SWN Production Company, LLC 17.00% 2281/483 David W. Gorby, married dating in his sole and sparse for and Carol. Leady, his wife SWN Production Company, LLC 17.00% 2281/483 James D. Fear and Rowds L. Gorby SWN Production Company, LLC 17.00% 2281/483 James D. Fear and Rowds L. Gorby SWN Production Company, LLC 17.00% 2281/483 John M. Tameire Gorby, single SWN Production Company, LLC 17.00% 2281/483 John M. Stein, single SWN Production Company, LLC 17.00% 2281/483 John D. Mamor and Bhonds L. Gorby SWN Production Company, LLC 17.00% 2281/483 John D. Stein, single SWN Production Company, LLC 17.00% 2881/483			SWN Production Company, LLC	18.00%	264A/148	
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Kathryn Lambaugh, widow Image: Company C						
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dealing In her sole and separate property Image: Company and Company		Mary Louise Gault aka Mary Lou Gault, single	SWN Production Company, LLC	17.00%	279A/639	
Mary P. Christy, f/k/a Mary P. Morris, f/k/a Mary SWN Production Company, LLC 17.00% 267A/446 Stocks, married dealing in her sole and separate SWN Production Company, LLC 17.00% 285A/790 Marcie Jo Naber, married dealing in her sole and separate property SWN Production Company, LLC 17.00% 285A/790 Michael A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79 08/26/2			SWN Production Company, LLC	17.00%	265A/434	
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separate property Michael A. Daugherty, a/k/a Michael Albert Chesapeake Appalachia, L.L.C. 17.00% 144A/79		property	SWN Production Company, LLC	17.00%	285A/790	
Daugherty, a married man dealing in his sole and OO/20/.		separate property				08/26/2
separate property		Daugherty, a married man dealing in his sole and		27.0070		00/20/2

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

4710303521

#	ТМР	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN
<i>а</i> т				15.00%	193A/115	Production Company, LLC
		Bernard J. Farrell, a single man	Antero Resources Corporation	12.00%	193A/115 272A/588	
		Antero Resources Corporation Jeanne Strasser Geusz, married dealing in her sole	SWN Production Company, LLC SWN Production Company, LLC	17.00%	272A/588 281A/477	
		and separate property	- ··			
		Melodie Rochelle, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	285A/745	
		Molly Strasser, single	SWN Production Company, LLC	17.00%	282A/537	
		Nancy Strasser Lehnhart, single	SWN Production Company, LLC	17.00%	283A/417	
		Nicholas D. Strasser, married dealing in his sole and	SWN Production Company, LLC	17.00%	281A/514	
		separate property Kevin L. Strasser, single	SWN Production Company, LLC	17.00%	281A/489	
		Timothy J. Strasser, married dealing in his sole and	SWN Production Company, LLC	17.00%	282A/480	
		separate property	Antero Resources Corporation	15.00%	190A/413	
		Frank A. Farrell Antero Resources Corporation	SWN Production Company, LLC	15.00%	272A/588	
		Marcus E. Farrell, a married man dealing in his sole	Antero Resources Corporation	15.00%	189A/427	
		and separate property				
		Antero Resources Corporation	SWN Production Company, LLC	15.00%	272A/588	
		Nancy Osborn, a single woman	Antero Resources Corporation SWN Production Company, LLC	15.00%	189A/438 272A/588	
		Antero Resources Corporation Varena J. Kessel, a married woman dealing in her	Antero Resources Corporation	15.00%	189A/322	
		sole and separate property				
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		Raymond B. Daugherty and Rheda N. Daugherty, his wife	SWN Production Company, LLC	17.00%	263A/315	
		Raymond J. Daugherty and Dianna H. Daugherty, his	SWN Production Company, LLC	17.00%	261A/835	
		wife Rex Wilburn, widower	SWN Production Company, LLC	17.00%	261A/819	
		Rex Wildum, widower Richard M. Martini, single	SWN Production Company, LLC	17.00%	201A/819 277A/909	
		Edward Franklin Estes, married dealing in his sole	SWN Production Company, LLC	17.00%	282A/570	
		and separate property				
		Robert Michael Wayne Draheim, single	SWN Production Company, LLC	18.00%	266A/1	
		Robert W. Milliken and Sandra Milliken, his wife	SWN Production Company, LLC	17.00%	264A/137	
		Roberta A. Raymond, widow	SWN Production Company, LLC	17.00%	263A/489	
		Linda Sue Horton-Ray	SWN Production Company, LLC	17.00%	285A/795	
		Roscoe Village Foundation, Inc.	SWN Production Company, LLC	17.00%	282A/475	
		Rose Ann McGillvary and Daniel R. McGillvary, her husband	SWN Production Company, LLC	17.00%	265A/944	
		Roy Howard McKinney, a married man dealing in his	SWN Production Company, LLC	17.00%	277A/144	
		sole and separate property Ruth Ann Gianni, a/k/a Ruth Kelly, and Robert	SWN Production Company, LLC	17.00%	Pending	
		Gianni, her husband	SWAI Production Common 11C	17.00%	2654/028	
		Sarah A. Lee, f/k/a Sally Stocks, and John E. Lee, her husband	Swik Production Company, LLC	17.00%	265A/938	
		Lynn Brockman Ellis, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/338	
		Steven Michael Gorby, married dealing in his sole	SWN Production Company, LLC	17.00%	263A/310	
		and separate property Thomas C. Wise, married dealing in his sole and	SWN Production Company, LLC	17.00%	Pending	
		separate property		10.00%	2624/042	
		Timothy Allan Draheim, single Timothy Allan Connelly and Lori A.W. Connelly, his	SWN Production Company, LLC SWN Production Company, LLC	18.00%	263A/842 264A/529	
		wife		27.0070	2070, 323	
		Timothy Neil Draheim, single	SWN Production Company, LLC	17.00%	263A/295	
		Tracy Lee Howard and Mary Kathryn Howard, his wife	SWN Production Company, LLC	17.00%	261A/99	
		Stephen Ford Whatley, Sr., married dealing in her	SWN Production Company, LLC	17.00%	286A/498	
		sole and separate property Thomas Leslie Kettle, Sr. widower	SWN Production Company, LLC	17.00%	282A/565	
		Robin Linn Gorby McCaskill aka Robin Lynn Gorby	SWN Production Company, LLC SWN Production Company, LLC	17.00%	282A/565 283A/429	RECEN Office of Oil
		McCaskill and John R. McCaskill, Jr., her husband				Office of Oils
		Robin Strasser, single	SWN Production Company, LLC	17.00%	282A/543	11 11 11 4
		George Steven Donaghy and Kathy Lynn Donaghy,	SWN Production Company, LLC SWN Production Company, LLC	16.00%	282A/545 283A/851	JUL 14
		his wife				MB/ Pioport
		Kathleen M. Ciorra, married dealing in her sole and separate property	SWN Production Company, LLC	17.00%	284A/419	WV Depart Environmental
		Betty Jean Stanley Connelly, widow	SWN Production Company, LLC	17.00%	284A/431	
		Joanne Lynn Schricker, married dealing in her sole	SWN Production Company, LLC	17.00%	284A/413	
		and separate property Laura Jean Mason, marrled dealing in her sole and	SWN Production Company, LLC	17.00%	284A/425	
		separate property				
		Evelyn Denise Hall, single	SWN Production Company, LLC	17.00%	282A/510	
		Anita Carol Childrers, widow	SWN Production Company, LLC	17.00%	282A/515	
		Caye Estes Everett Varena A. Hollingshead, single	SWN Production Company, LLC SWN Production Company, LLC	17.00%	282A/486 267A/472	
		Vernon Sterling Johnson, single	SWN Production Company, LLC	17.00%	267A/472 269A/588	
		William Leonard Draheim, married dealing in his	SWN Production Company, LLC	18.00%	Pending	08/26/20
		sole and separate property			_	00/20/2
		William Lester Draheim, married dealing in his sole	SWN Production Company, LLC	18.00%	264A/518	

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

#	тмр	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Karen Sue Measley, f/k/a Karen Sue Francis Hall and	SWN Production Company, LLC	16.00%	200A/1	
		Ross Edwin Measley, Jr., her husband				
		Lana B. Kuhl	SWN Production Company, LLC	12.50%	188A/482	
		Anna L. Buzzard	Chesapeake Appalachia, LLC	12.50%	90A/1	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		Mariene Kay Musgrave and Wayne T. Musgrave,	SWN Production Company, LLC	12.50%	202A/30	
		wife and husband Max Hinerman and Loretta Hinerman, his wife	SWN Production Company, LLC	16.00%	187A/687	
		Patricia Wheeler Castelli a/k/a Patricia Ann Hall	SWN Production Company, LLC	12.50%	198A/155	1
		Wheeler a/k/a Patricia Ann Hall Smith, married, dealing in sole and separate property				
		Sue Carol Anglin	SWN Production Company, LLC	16.00%	199A/943	1
		Thomas G. Hall, a married man dealing in his sole	SWN Production Company, LLC	16.00%	199A/938	1
	7.04.4	and separate peroperty	Character Accelerities 1.1.C	17.000%	732/634	0.0000%
10	7-24-1 pt. 27	Hayhurst Company, a Florida General Partnership	Chesapeake Appalachia, L.L.C.	17.000%	723/624	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	4 1
		James Edward Doull, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.500%	685/221	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Ernest N. Keller a/k/a Ernest M. Keller and Pearl H.	Chesapeake Appalachia, L.L.C.	12.50%	683/390	1
		Keller, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Robert Lee Keller and Mary Kay Keller, his wife	Chesapeake Appalachia, L.L.C.	12.50%	683/349	1
		Chesapeake Appalachia, L.L.C. Carolyn Joyce Daugherty, single	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	<u>33/110</u> 684/1	1 1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	33/110	
		Neva E. Keller, a widow	Chesapeake Appalachia, L.L.C.	12.50%	688/127	
		Chesapeake Appalachia, L.L.C. Donna J. Savage, a married woman dealing in her	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	<u>33/110</u> 684/117	1 1
		sole and separate property		11.50%	004/11/	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
11	7-24-6	Hayhurst Company, a Florida General Partnership	Chesapeake Appalachia, L.L.C.	17.00%	708/66	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	7-24-1 pt. 26	Christopher G. Adams and Frica Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/402	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Derrick H. Adams and Suzanne Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/395	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Paul Charles Adams, a single man	Chesapeake Appalachia, L.L.C.	17.00%	750/169	1 1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Bruce D. Bonar and Sandra C. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	751/608	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Lee D. Bonar and Bonnie M. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	747/270	
			,			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Charles W. Bonar and Charlotte L. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	755/109	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			SWN Production Company, L.L.C.	16.00%	951/337	
		L. Bonar, a widow	Character Angel 11 11 C			
		Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	17.00%	754/616	
			SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	33/110 751/167	
		acting as Executor and Saundra J. Bonar, a widow		17.00%	,31/10/	
		Channella Annella 11 C				
			SWN Production Company, LLC		33/110	
		William D. Bonar and Gloria A. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	746/271	RECEIVED Cffeet of Dill and Gas
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Arnell Elizabeth Bowser and Glen F. Bowser, her	Chesapeake Appalachia, L.L.C.	17.00%	778/28	JUL 1 4 2022
		husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Cornelia C. Browne, widow	SWN Production Company, LLC SWN Production Company, LLC.	16.00%	955/350	word Denaidment of
		Clyde W. Caseman and Alicia L. Caseman, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/401	WV Department of Environmental Protectio
			SWN Production Company, LLC		33/110	
		Joseph W. Caseman and Gretchen V. Caseman, his wife	Chesapeake Appalachia, L.L.C.	17.00%	747/600	
			SWN Production Company, LLC		33/110	
1			SWN Production Company, LLC	16.00%	955/243	
			Chesapeake Appalachia, L.L.C.	17.00%	749/622	
	, , , , , , , , , , , , , , , , , , ,	Robert Clark Adams and Charlotte A. Adams, his	chesopeane rippalacilla, E.E.C.			
		wife				08/26/2022
		wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	08/26/2022
		wife Chesapeake Appalachia, L.L.C. David Edwards, single		17.00%		08/26/2022

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

#	тмр	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC	
	<u> </u>	The Estate of John William Orr, Sr., by Linda O.	Chesapeake Appalachia, L.L.C.	17.00%	768/154		
		Morgan, a/k/a Linda Orr Morgan, acting as					
I		Executrix, Linda o. Morgan, a/k/a Linda Orr Morgan					
		and Gary D. Morgan, her husband, and John W. Orr,					
I		Jr., a/k/a John William Orr, Jr. and Susan J. Orr, his wife					
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
1		Susan Diane Clark Neidlinger, divorced	SWN Production Company, L.L.C.	18.00%	963/70		
		Suzanne Patrick, f/k/a Suzanne Edwards, married	SWN Production Company, L.L.C.	17.00%	964/66		
		dealing in her sole and separate property					
1		Dorothy Patterson, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	777/481		
I				17.00%	33/110		
I		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	47.00%			
		The Mary Kathryn Ray Revocable Trust, dated December 18, 1988, by Mary Kathryn Ray, acting as Trustee	Chesapeake Appalachia, L.L.C.	17.00%	750/118		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Nancy L. Rodgers, f/k/a Nancy Matthews and	Chesapeake Appalachia, L.L.C.	17.00%	748/527		
		William I. Rodgers, her husband					
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
1	1	Cliff Sligar, a married man dealing in his sole and	SWN Production Company, L.L.C.	17.00%	956/244		
ļ		separate property	SW/N Broduction Composed L.L.C.	17 004	056/249		
		David B. Sligar, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	956/248		
		George Leroy Smith and Evelyn F. Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/442		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		John Bernard Smith and Ethel Rose Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/436		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Malcolm V. Smith, Jr., a widower	Chesapeake Appalachia, L.L.C.	17.00%	777/487		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	17.00%	33/110		
		Russell Lee Smith and Marybelle Smith, his wife	Chesapeake Appaiachia, L.L.C.	17.00%	747/623		
					33/110		
		Chesapeake Appalachia, L.L.C. Donna R. Walker, a widow	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	777/475		
				17.00%	33/110		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	17.00%			
		Dorothy E. Wheeler, a widow	Chesapeake Appalachia, L.L.C.	17.00%	750/111		
			SWN Production Company, LLC		33/110		
		Mary T. Zito, f/k/a Mary T. Nesbitt, f/k/a Mary Bonar Nesbitt, a widow	Chesapeake Appalachia, L.L.C.	17.00%	764/201		
			SWN Production Company, LLC		33/110		
10	7-24-1 pt. 24	Christopher G. Adams and Frica Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/402	0.0000%	
	1		SWN Production Company, LLC		33/110		
		Derrick H. Adams and Suzanne Adams, his wife	Chesapeake Appalachia, L.L.C.	17.00%	761/395		
	ĺ	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
		Paul Charles Adams, a single man	Chesapeake Appalachia, L.L.C.	17.00%	750/169		
	1		SWN Production Company, LLC				
	1	Chesapeake Appalachia, L.L.C.			33/110		
	1	Chesapeake Appalachia, L.L.C. Bruce D. Bonar and Sandra C. Bonar, his wife	Chesapeake Appalachia, L.L.C.	17.00%	33/110 751/608		
		Bruce D. Bonar and Sandra C. Bonar, his wife		17.00%	751/608		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		751/608 33/110		
		Bruce D. Bonar and Sandra C. Bonar, his wife		17.00%	751/608		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife	SWN Production Company, LLC		751/608 33/110		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.		751/608 33/110 747/270		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	751/608 33/110 747/270 33/110 755/109		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00%	751/608 33/110 747/270 33/110 755/109 33/110		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00%	751/608 33/110 747/270 33/110 755/109		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C.	17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C.	17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616	£\r C=Y	/:ED
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110	EECEN C″c~ of Di	/ED and Ga
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C.	17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616		
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167	FECEN Created JUL 14	
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LL.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110		2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glon F. Bowser, her	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Milliar D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William C. Browser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William C. Browser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350	JUL 1 4	2022
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Arnell Elizabeth Bowser and Glen F. Bowser, her husband Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 16.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 748/401	JUL 14 Vie oeparin Environmental	2022 ment of Protec
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a Single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife Chesapeake Appalachia, L.L.C. Joseph W. Caseman and Gretchen V. Caseman, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C.	17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 746/271 33/110 778/28 33/110 955/350 748/401 33/110	JUL 1 4	2022 ment of Protect
		Bruce D. Bonar and Sandra C. Bonar, his wife Chesapeake Appalachia, L.L.C. Lee D. Bonar and Bonnie M. Bonar, his wife Chesapeake Appalachia, L.L.C. Charles W. Bonar and Charlotte L. Bonar, his wife Chesapeake Appalachia, L.L.C. Brian Harris Bonar, Power of Attorney for Katherine L. Bonar, a widow Ronald E. Bonar, a Single man Chesapeake Appalachia, L.L.C. The Estate of Richard L. Bonar, by Saundra J. Bonar, acting as Executor and Saundra J. Bonar, a widow Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. William D. Bonar and Gloria A. Bonar, his wife Chesapeake Appalachia, L.L.C. Cornelia C. Browne, widow Clyde W. Caseman and Alicia L. Caseman, his wife Chesapeake Appalachia, L.L.C. Joseph W. Caseman and Gretchen V. Caseman, his wife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC.	17.00% 17.00% 16.00% 17.00% 17.00% 17.00% 17.00% 17.00%	751/608 33/110 747/270 33/110 755/109 33/110 951/337 754/616 33/110 751/167 33/110 778/28 33/110 955/350 748/401 33/110	JUL 14 Vie oeparin Environmental	2022 ment of Protect

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

#						Interest Not Leased by SWN
#	тмр	LESSOR	LESSEE	ROYALTY	BK/PG	Production Company, LLC
	1	Patricia Austin Meyer, married dealing in her sole	SWN Production Company, L.L.C.	17.00%	957/589	
		and separate property The Estate of John William Orr, Sr., by Linda O.	Chesapeake Appalachia, L.L.C.	17.00%	768/154	
		Morgan, a/k/a Linda Orr Morgan, acting as				
		Executrix, Linda o. Morgan, a/k/a Linda Orr Morgan				
		and Gary D. Morgan, her husband, and John W. Orr, Jr., a/k/a John William Orr, Jr. and Susan J. Orr, his				
	1	wife			33/110	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC SWN Production Company, L.L.C.	18.00%	963/70	4
		Susan Diane Clark Neidlinger, divorced Suzanne Patrick, f/k/a Suzanne Edwards, married	SWN Production Company, L.L.C. SWN Production Company, L.L.C.	17.00%	964/66	1
		dealing in her sole and separate property				
		Dorothy Patterson, a single woman	Chesapeake Appalachia, L.L.C.	17.00%	777/481	1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	17.00%	33/110	
		The Mary Kathryn Ray Revocable Trust, dated December 18, 1988, by Mary Kathryn Ray, acting as	Chesapeake Appalachia, L.L.C.	17.00%	750/118	
		Trustee Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Nancy L. Rodgers, f/k/a Nancy Matthews and	Chesapeake Appalachia, L.L.C.	17.00%	748/527	1
		William I. Rodgers, her husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Cliff Sligar, a married man dealing in his sole and	SWN Production Company, LLC	17.00%	956/244	1
		separate property				4
		David B. Sligar, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	17.00%	956/248	
		George Leroy Smith and Evelyn F. Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/442]
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	J
		John Bernard Smith and Ethel Rose Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	748/436	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Malcolm V. Smith, Jr., a widower	Chesapeake Appalachia, L.L.C.	17.00%	777/487	1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	J
		Russell Lee Smith and Marybelle Smith, his wife	Chesapeake Appalachia, L.L.C.	17.00%	747/623]
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Donna R. Walker, a widow	Chesapeake Appalachia, L.L.C.	17.00%	777/475	1
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	J I
		Dorothy E. Wheeler, a widow	Chesapeake Appalachia, L.L.C.	17.00%	750/111	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	4
		Mary T. Zito, f/k/a Mary T. Nesbitt, f/k/a Mary Bonar Nesbitt, a widow	Chesapeake Appalachia, L.L.C.	17.00%	764/201	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
	7-24-1 pt. 22	Christopher Claude Baughman, a/k/a Christopher C.	TH Exploration, LLC	18.00%	879/320	0.0000%
	1	Baughman, a married man dealing in his sole and				
		separate property	SWN Production Company, LLC and Statoil USA		41/299	
		separate property TH Exploration, LLC	SWN Production Company, LLC and Statoil USA Onshore Properties Inc.		41/299	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G.		18.00%	41/299 876/183	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property	Onshore Properties Inc. TH Exploration, LLC	18.00%	876/183	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA	18.00%		
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property	Onshore Properties Inc. TH Exploration, LLC	18.00%	876/183	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA		876/183 41/299	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299 878/292 41/299	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA		876/183 41/299 878/292	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings,	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299 878/292 41/299	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA SWN Production Company, LLC and Statoil USA	18.00%	876/183 41/299 878/292 41/299	RECE
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299 878/292 41/299 874/321 41/299	Fiece Office of O
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA SWN Production Company, LLC and Statoil USA	18.00%	876/183 41/299 878/292 41/299 874/321	
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299 878/292 41/299 874/321 41/299	RECE Office of O JUL 14
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC	18.00%	876/183 41/299 878/292 41/299 874/321 41/299	JUL 1 4
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299	JUL 1 4
		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC	18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71	
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		separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC	18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299	JUL 1 4
10	7-24-1 pt. 16	separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings, Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin, Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC TH Exploration, LLC	18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43	JUL 1 4
10	7-24-1 pt. 16	separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband and wife	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. The Manufacturers Light and Heat Company	18.00% 18.00% 18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43 41/299 360/239	JUL 1 4 WV Depar Environmenta
D	7-24-1 pt. 16	separate property TH Exploration, LLC Nelson G. Baughman, III, a/k/a Nelson G. Baughman, a married man dealing in his sole and separate property TH Exploration, LLC Voncile W. Baughman, a widow TH Exploration, LLC Harry Reid Cummings and Joyce M. Cummings, a/k/a Joyce Marie Cummings, Trustees of the Harry Reid Cummings and Joyce M. Cummings Living Trust TH Exploration, LLC Sarah C. McLaughlin, a/k/a Sarah Cummings McLaughlin and John W. McLaughlin, Co-Trustees of the Sarah C. McLaughlin Revocable Trust TH Exploration, LLC Dorothy Sullivan, a/k/a Dorothy E. Sullivan, a/k/a Dorothy Elizabeth Sullivan, a widow; appearing herein by and through James Rein Sullivan, her Agent and Attorney-in-Fact by Durable Power of Attorney dated April 27th 1998, and unrecorded in Marshall County, West Virginia TH Exploration, LLC Harold Koontz and Margaret G. Koontz, husband and wife	Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC SWN Production Company, LLC and Statoil USA Onshore Properties Inc. TH Exploration, LLC	18.00% 18.00% 18.00%	876/183 41/299 878/292 41/299 874/321 41/299 873/71 41/299 876/43	JUL 14 WV Depar Environmenta

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
10	7-24-1 pt. 13	Richard E. Walker and Roberta Walker; Mary Hoge Lea and Warren J. Lea; Richard E. Walker, as Executor of the Estate of Edward C. Walker; for the Heirs at Law of Isaac Hoge	The Manufacturers Light and Heat Company	12,50%	363/195	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		662/322 33/110	
14	7-26-9	I. D. Franklin and Bessie J. Franklin, his wife	The Manufacturers Light and Heat Company	12.50%	209/168	0.0000%
		Union Gas & Oil Corporation The Preston Oil Company	The Preston Oil Company The Manufacturers Light and Heat Company		2/136 2/225	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C.		642/281 662/322	
		Chesapeake Appalachia, L.L.C. Cheapeake Appalachia, L.L.C.	SWN Production Company, LLC SWN Production Company, LLC		33/110 36/422	A
15	7-26-8	Royalty Owners	N/A	N/A	N/A	0.1302%
		Evelyn Bane, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	730/218	
		Chesapeake Appalachia, L.L.C. Guy Buzzard, a single man	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12,50%	33/110 683/83	-
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12,30%	33/110	
		Chestnut Holdings, Inc., a Florida Corporation	Chesapeake Appalachia, L.L.C.	17.00%	766/605	
		Chesapeake Appalachia, L.L.C. Amber D. Colvin, a single woman	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12,50%	33/110 740/85	
		Chesapeake Appalachia, L.L.C. Sharon Hodorowski, f/k/a Sharon Facello and Frank	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	33/110 732/385	
		Hodorowski, her husband Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Hundred Resources, Inc.	Chesapeake Appalachia, L.L.C.	17.00%	769/581	1
		Chesapeake Appalachia, L.L.C. Jeanette Lilley, a widow	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	33/110 730/213	4
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	33/110	
		Joan Marling, a/k/a Jo Ann Marling, a widow	Chesapeake Appalachía, L.L.C.	12.50%	730/208] [
		Chesapeake Appalachia, L.L.C. William E. Phillips and nancy G. Phillips, his wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12.50%	33/110 733/610	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	12.50%	33/110	
		and separate property	Chesapeake Appalachia, L.L.C.	12,50%	740/6	T.EIVED, C.
		Chesapeake Appalachia, L.L.C. Shirley Redd and James Redd, her husband	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12,50%	33/110 730/198	JUL 1 4 2022
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	NIL 1 4 2022
		Clifford Rulong, a single man	Chesapeake Appalachia, L.L.C.	12.50%	953/423	
		Chesapeake Appalachia, L.L.C. Roger G. Rulong, Sr., a/k/a Roger G. Rong and Jane	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	14.00%	33/110 694/477	ent of Last constal Protect
		Kunkle Rulong, a/k/a Jane K. Rulong, his wife	CNNN Deadlorling Common 11/C	1 1 2 13	22/110	- 040
		Chesapeake Appalachia, L.L.C. Roger G. Rulong, Jr., a married man dealin gin his	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	14.00%	33/110 694/475	1
		sole and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	1.1	33/110	
		Nancy Wallace Shuman, a/k/a Nancy W. Shuman, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	693/606	
		Chesapeake Appalachia, L.L.C. Edward Strausser, a married man dealin gin his sole	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	12,50%	33/110 694/341	
		and separate property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Loran William Wallace, a married man dealin gin his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	692/345	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
10	7-24-1 pt. 6	James B. Whitlatch and Edna Whitlatch, his wife (Edna Whitlatch and James B. Whitlatch, her husband)	The Manufacturers Light and Heat Company	12.50%	381/193	0.0000%
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		662/322 33/110	
10	7-24-1 pt. 8	Edward C. Walker, widower; Richard E. Walker and Roberta Walker, his wife; Edna Whitlatch and J. B. Whitlatch, her husband; and Security Trust Company, a corporation, for and on behalf and as Attorney in Fact for those heirs at law of Isaac Hoge, herinafter named, under the signature of said	The Manufacturers Light and Heat Company	12,50%	326/505	0.0000%
		Attorney in Fact				
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	

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

Vernon Johnson WTZ 601H Wetzel County, West Virginia

4710303521

#	ТМР	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
16	7-20-41	Onward E. Burge, Sarah L. Burge and Stephen W. Burge, Trustees of the Onward E. Burge Trust dated June 21, 2010	Chesapeake Appalachia, L.L.C.	12.50%	676/438	0.0000%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	4
		Nancy B. Divita Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	677/51 33/110	
17	7-19-28	James W. Whipkey, single Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	655/5 35/32	0.0000%
		O. E. Burge, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	654/382	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

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JUL 1 4 2022

WV Department of Environmental Protection



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, 2022

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

RE: SWN's proposed New Well: Vernon Johnson WTZ 601H in Wetzel County, West Virginia, Drilling under CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, and Burley Lane.

Dear Mr Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under CO 74, CO 74/2, Amos Hollow Road, Rice Ridge Road, and Burley Lane. 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,

2/1

Bradley Wilson Senior Landman SWN Production Company, LLC

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JUL 1 4 2022

WV Department of Environmental Protection

The Right People doing the Right Things, wisely investing the cash flow from our underlying Asse 8/216/210-22 WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification:

API No. 47- 009 -Operator's Well No. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	LITAINIAD 82 Eas	sting:	538925.611	
County:	103-Wetzel	UTM NAD 83 No	orthing:	4396552,596	
District:	Clay	Public Road Access:		Rice Ridge Road	
Quadrangle:	Littleton	Generally used farm	name:	Vernon Johnson	
Watershed:	West Virginia Fork Fish Creek				

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 bave been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the O that the Operator has properly served the require	perator has attached proof to this Notice Certification ed parties with the following:	OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY		ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY of	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SUR	VEY 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	TAFD	RECEIVED
5. PUBLIC NOTICE	DIFOR OF STENDIGES	RECEIVED
■ 6. NOTICE OF APPLICATION	JUL 1 4 ZUCL	□ RECEIVED
	CONTRACTOR	

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.

08/26/2022

4710303521

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	Address:	1300 Fort Pierpont Dr., Suite 201
By:	Brittany Woody	1	Morgantown, WV 26508
Its:	Senior Regulatory Analyst A	Facsimile:	
Telephone:	304-884-1610	Email:	Brittany_Woody@swn.com
475	REID CROFT Notary Public Official Seal	al Cur	xpires 8/21/2024

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 <u>depprivacyofficer@wv.gov</u>.

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JUL 1 4 2022

UN Laparime 4 of Environmental Protection WW-6A (9-13)

PINO. 47-000 10303521

OPERATOR WELL NO. Vernos Johnson WIZ 601H Well Pad Name: Vernos Johnson WIZ

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice:	Date Permit Application Filed:	2
Notice of:		

PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

 PERSONAL
 REGISTERED
 METHOD OF DELIVERY THAT REQUIRES A

 SERVICE
 MAIL
 RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article: (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: Vernon Johnson	Name: Reserve Coal Properties Co. Attn: Casey Saunders	
Address: 11895 Amy Drive	Address: 275 Technology Drive	
La Plata, MD 20646	Canonsburg, PA 15317	
Name:	COAL OPERATOR	
Address:	Name:	Office of ON and Gas
	Address:	Office of the statistics
SURFACE OWNER(s) (Road and/or Other Disturbance)		- JUL 1 4 2022
Name:	SURFACE OWNER OF WATER WELL	JUL 1 & LULL
Address:	AND/OR WATER PURVEYOR(s)	WV Consume tor
	Name: See Attachment 13A	 V Leparate Loi Environmental Protection
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: TC Energy Attn: Garrett Word	
Name:	Address: Houston Office Bank of America 700 Louisiana St	
Address:	Houston, TX 77002	
	*Please attach additional forms if necessary	

WW-6A (8-13) 4710303521 API NO. 47-009 OPERATOR WELL NO. Verman Joneson WTZ 601H

Well Pad Name: Vernon Johnson WTZ

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

JUL 1 4 2022

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

WW-6A (8-13) API NO: 47-009 0 3 0 3 5 2 1

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson 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:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 NECEIVED Office of Oil and Cas JUL 1 4 2022

(304) 926-0450 Such persons may request, at the time of submitting written comments, notice of the permit decision and Elist of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WW-6A (8-13) 4710303521 PINO. 47-009

OPERATOR WELL NO. Vernan Johnson WTZ 601H Well Pad Name: Vernan Johnson WTZ

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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.

JUL 1 4

Environmental and



(8-13)	
	INC
Notice is hereby gi	
Well (merator own Fig	
Well Operator: SWN Pro Telephone: 304-884-161 Email: Brittany_Woody@s	10 RALLON V

Address: 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 Facsimile:

710303521

Notary Public

OPERATOR WELL NO. Vernon Johnson WTZ 601H Well Pad Name: Vernon Johnson WTZ

Oil and Gas Privacy Notice:

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

REID CROFT	Subscribed and sworn before me this 1st day of June, 2	:022
Notary Public Official Seal State of West Virginia	Til Cutto N	Jotary I
47 Sparrow Lane Morgantown WV 26508	My Commission Expires 8/21/2024	

RECEIVED Office of Oil and Gas

JUL 1 4 2022

WV Department of Environmental Protection

08/26/2022

Vernon Johnson Pad - Water Purveyors w/in 1500' **Sources**

.

Landowner

Address

• •

Vernon S. Johnson Estate/ C/O Gary W. Draheim

11895 Amy Drive, La Plata MD 26046 1 well

RECEIVED Office of Oil and Gas JUL 1 4 2022

بالا Department of Environmental Protection

08/26/2022

Operator Well No. Vernon Johnson WTZ

(1/12)											
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	STATE OF WEST VIRGINI	A								12	12
DEPARTMENT	F OF ENVIRONMENTAL PROTECTION	V, OFFI	CE	0	FC	DIL	AP	ND	GA	S	
	NOTICE OF ENTRY FOR PLAT SI										
Notice Time Requirement: N entry	otice shall be provided at least SEVEN (7) days but no	o more th	an F	OR	TY	-FI	VE ((45)	day	s pri	ior to
Date of Notice: 5/18/2022	Date of Planned Entry: 5/25/2022										

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL
SERVICE

WW-6A3

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Vernon Johnson	Name: Reserve Coal Properties Co. Attn: Casey Saunders
Address: 11895 Amy Drive	Address: 275 Technology Drive Suite 101
La Plata, MD 20646	Canonsburg, PA 15317-9656
Name:	
Address:	MINERAL OWNER(s)
	Name: AMP Fund III, LP
Name:	Address: 225 Ross Street, Suite 201
Address:	Pittsburgh, PA 15219
	*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 conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	39.717777, -80.545950	
County:	Wetzel	Public Road Access:	Rice Ridge Road	
District:	Clay	Watershed:	West Virginia Fork Fish Creek	
Quadrangle:	Littleton	Generally used farm name:	Vernon Johnson WTZ	
				-

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

by given by:			111 1 4 2022
SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	JUL
304-884-1610		Morgantown, WV 26508	11 V Depair Inent of Ion
brittany_woody@swn.com	Facsimile:		Envilantite
	SWN PRODUCTION COMPANY, LLC 304-884-1610	SWN PRODUCTION COMPANY, LLC Address: 304-884-1610	SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508

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 deprivacyofficernews upy.

WW-6A3	
(1/12)	

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	
SERVICE	

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name.	
Address:	MINERAL OWNER(s)
	Name: Alice M. Aberegg
Name:	Address: 560 University Avenue
Address:	Elyria, OH 44035
	*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 conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	39.717777, -80.545950	_
County:	Wetzel	Public Road Access:	Rice Ridge Road	_
District:	Clay	Watershed:	West Virginia Fork Fish Creek	
Quadrangle:	Littleton	Generally used farm name:	Vernon Johnson WTZ	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here	by given by:			Deres of Oli and Cas
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	JUL 1 4 2022
Telephone:	304-884-1610		Morgantown, WV 26508	JUL 1 4 LOCA
Email:	brittany_woody@swn.com	Facsimile:		WV Department of
				Environmental Pretection

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 deprivacyofficerative years.



D			STATE OF WEST VIRGINIA ONMENTAL PROTECTION, OFFIC	4710303521
D	EPARIME	NT OF ENVIRO	CE OF ENTRY FOR PLAT SURVEY	CE OF OIL AND GAS
Notice Time	Requirement:	Notice shall be prov	vided at least SEVEN (7) days but no more that	n FORTY-FIVE (45) days prior to
Date of Noti	ce: 5/18/2022	Date of Plan	nned Entry: 5/25/2022	
Delivery me	thod pursuant	to West Virginia C	ode § 22-6A-10a	
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ind Sedimen	t Control Manua	al and the statutes an hall include contact	ounty tax records. The notice shall include a st nd rules related to oil and gas exploration and p information, including the address for a web p	production may be obtained from the
nable the su	reby provided (CE OWNER(s)		COAL OWNER OR LE	SSEE
enable the su Notice is her SURFA Name: Address:	reby provided (CE OWNER(s)	0:	COAL OWNER OR LE	SSEE
enable the su Notice is her SURFA Name: Address: Name:	reby provided (CE OWNER(s)	0:	COAL OWNER OR LE	SSEE
enable the su Notice is her SURFA Name: Address: Address:	reby provided (CE OWNER(s)	0:	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg	SSEE
enable the su Notice is her SURFAG Name: Address: Name: Address: Name: Name: Name:	reby provided (CE OWNER(s)	0:	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33	SSEE
enable the su Notice is her SURFAG Name: Address: Name: Address: Name: Name:	reby provided (CE OWNER(s)	0:	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33	ESSEE
enable the su Notice is her SURFA(Name:	reby provided t CE OWNER(s) reby given: Vest Virginia Co on the tract of la	o: ode § 22-6A-10(a), n	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if no	ESSEE
Notice is her SURFAG SURFAG Vame: Va	reby provided t CE OWNER(s) CE OWNER(s) Streby given: Vest Virginia Co on the tract of la WV	o: ode § 22-6A-10(a), n	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if ne notice is hereby given that the undersigned wel Approx. Latitude & Longitude:	ESSEE
enable the su Notice is her SURFA(Name:	reby provided t CE OWNER(s) reby given: Vest Virginia Co on the tract of la	o: ode § 22-6A-10(a), n	COAL OWNER OR LE Name: Address: MINERAL OWNER(s) Name: Ellen Aberegg Address: PO Box 33 Cameron, WV 26033 *please attach additional forms if no	ESSEE

by given by:			0000
SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	JUL 1 4 LULL
304-884-1610		Morgantown, WV 26508	the and then tof
brittany_woody@swn.com	Facsimile:		Environmental Protection
	SWN PRODUCTION COMPANY, LLC 304-884-1610	SWN PRODUCTION COMPANY, LLC Address: 304-884-1610	SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508

Oil and Gas Privacy Notice:

11

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 any gov.

WW-6A3	
(1/12)	

4710303521

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	
SERVICE	

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to. (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name	
Address:	MINERAL OWNER(s)
	Name: James Joseph Aberegg
Name:	Address: 905 Oberline Elyria Road Apt. W-up
Address:	Elyria, OH 44035
	*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 conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	39.717777, -80.545950
County:	Wetzel	Public Road Access:	Rice Ridge Road
District:	Clay	Watershed:	West Virginia Fork Fish Creek
Quadrangle:	Littleton	Generally used farm name:	Vernon Johnson WTZ
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Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep wv gov/oil-and-gas/pages/default aspx.

by given by:			1 1 1 2022	
SWN PRODUCTION COMPANY, LLC	Address: 1300 F	1300 Fort Pierpont Dr., Suite 201	JUL 1 4 ZUZZ	
304-884-1610	Morgan	ntown, WV 26508	Mr Department of Environmental Protection	
brittany_woody@swn.com	Facsimile:		Environmentarrio	
	304-884-1610	SWN PRODUCTION COMPANY, LLC Address: 1300 F 304-884-1610 Morgan	SWN PRODUCTION COMPANY, LLC Address: 1300 Fort Pierpont Dr., Suite 201 304-884-1610 Morgantown, WV 26508	

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 deprivacy officer agence.

Operator Well No. Vernon Johnson WTZ

WW-6A.	3
(1/12)	

STATE OF WEST VIRGINIA 4710.3.03521 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

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

Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL
SERVICE

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: Brian Franklin Butler
Name:	Address: 108 Quarter Drive
Address:	Bunkerhill, WV 25413
	*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 conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	39.717777, -80.545950
County:	Wetzel	Public Road Access:	Rice Ridge Road
District:	Clay	Watershed:	West Virginia Fork Fish Creek
Quadrangle:	Littleton	Generally used farm name:	Vernon Johnson WTZ
	No.	-	a second s

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here Well Operator:		Address:	1300 Fort Plerpont Dr., Suite 201	A 2022
Telephone:	304-884-1610		Morgantown, WV 26508	JULIG
Email:	brittany_woody@swn.com	Facsimile:		Deparation
				Environment

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 deprivacyofficerative gov

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	
SERVICE	

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address
Name:	
Address:	MINERAL OWNER(s)
	Name: Keith Aberegg
Name:	Address: 191 Solitude Lane
Address:	Boyce, VA 22620
	*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 conduct a plat survey on the tract of land as follows:

WV	Approx. Latitude & Longitude:	39.717777, -80.545950
Wetzel	Public Road Access:	Rice Ridge Road
Clay	Watershed:	West Virginia Fork Fish Creek
Littleton	Generally used farm name:	Vernon Johnson WTZ
	Wetzel Clay	Wetzel Public Road Access: Clay Watershed:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wy.goy/oil-and-gas/pages/default.aspx.

Notice is here	by given by:			5
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	111 1 4 2022
Telephone:	304-884-1610		Morgantown, WV 26508	10L -
Email:	brittany_woody@swn.com	Facsimile:		WW Departure Protection
				Environment

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 depprivacyofficerative.cov.

08/26/2022

WW-6A3	
(1/12)	

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

Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	
SERVICE	

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: Red Stone Resources, LLC
Name:	Address: 817 Irish Lane
Address:	Edmond, OK 73003
	*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 conduct a plat survey on the tract of land as follows:

	Approx. Latitude & Longitude:	39.717777, -80.545950
	Public Road Access:	Rice Ridge Road
	Watershed:	West Virginia Fork Fish Creek
1	Generally used farm name:	Vernon Johnson WTZ
		Public Road Access: Watershed:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here	by given by:			
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Plerpont Dr., Suite 201	200 + # 2022
Telephone:	304-884-1610		Morgantown, WV 26508	JUL I 4 2020
Email:	brittany_woody@swn.com	Facsimile:		W Department of
Same and the second				Environmental Protection

Oil and Gas Privacy Notice:

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

Date of Notice: 5/18/2022 Date of Planned Entry: 5/25/2022

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL
SERVICE

REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: James Stoneking
Name:	Address: 2600 Dewitt Drive
Address:	Fredericksburg, VA 22408
	*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 conduct a plat survey on the tract of land as follows:

WV	Approx. Latitude & Longitude:	39.717777, -80.545950	
Wetzel	Public Road Access:	Rice Ridge Road	
Play	Watershed:	Wee Vinjinia Fork Fish Creek	
Littleton	Generally used farm name:	Vernon Johnson WTZ	
	Wetzel May	Wetzel Public Road Access: Chay Watershed:	Wetzel Public Road Access: Rice Ridge Road Clay Watershed: West Virginia Fork Fish Creek

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here	by given by:			DEL-DEPERSON GES
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	1 A 2022
Telephone:	304-884-1610		Morgantown, WV 26508	JUL 1 4 LOD
Email:	brittany_woody@swn.com	Facsimile:		un pepariment of
				Environmental Protection

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 deprivacy officer (down env.)

STATE OF WEST VIRGINIA 471030 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND C NOTICE OF INTENT TO DRILL

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 06/01/2022 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. DIFFER OF DI SIN COM

Notice is hereby provided to the SURFACE OWNER(s):

Name: Vemon S, Johnson Estate	Name:	1 A 2022
Address: 11895 Amy Dr.	Address:	JUL I = Lo
La Plata, MD 20646		. Tranguisneut of
Second Second and Second		Enviranmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITM NAD 92	Easting:	538,925.611	
County:	Wetzel	UTM NAD 83	Northing:	4,396,552.596	
District:	Clay	Public Road Ace	cess:	Rice Ridge	
Quadrangle:	Littleton, WV	Generally used t	farm name:	Vernon Johnson WTZ	
Watershed:	West Virginia Fork Fish Creek (HUC-10)				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

SWN Production Company, LLC	Authorized Representative:	Justin Booth	
1300 Fort Pierpont Drive, Suite 201	Address:	1300 Fort Pierpont Drive, Suite 201	
Morgantown, WV 26508		Morgantown, WV 26508	
304-884-1675	Telephone:	304-884-1675	
Justin_Booth@swn.com	Email:	Justin_Booth@swn.com	
	Facsimile:		
	1300 Fort Pierpont Drive, Suite 201 Morgantown, WV 26508 304-884-1675	1300 Fort Pierpont Drive, Suite 201 Address: Morgantown, WV 26508 Telephone: 304-884-1675 Telephone: Justin_Booth@swn.com Email:	

Oil and Gas Privacy Notice:

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STATE OF WEST VIRGINIA 4710303521 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/01/2022 Date Permit Application Filed:

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	Vernon S. Johnson Estate	Name:
Address:	11895 Amy Dr.	Address:
	La Plata, MD 20646	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	538,925.611	
County:	Wetzel	UTMINAD 83	Northing:	4,396,552.596	
District:	Clay	Public Road Acc	ess:	Rice Ridge	
Quadrangle:	Littleton, WV	Generally used fa	arm name:	Vernon Johnson WTZ	
Watershed:	West Virginia Fork Fish Creek (HUC-10)				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	1300 Fort Pierpont Drive, Suite 201	
Telephone:	304-884-1675		Morgantown, WV 26508	
Email:	Justin_Booth@swn.com	Facsimile:		

Oil and Gas Privacy Notice:

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JUL 1 4 2022 08/26/2022



4710303521

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

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

D. Alan Reed, P.E. **State Highway Engineer**

Jimmy Wriston, P. E. Secretary of Transportation **Commissioner of Highways**

June 7, 2022

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protectica 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Vernon Johnson Pad, Wetzel County Vernon Johnson WTZ 601H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0422 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 8/9 SLS MP 0.74.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Dary K. Clayton-

Gary K. Clayton, P.E. **Regional Maintenance Engineer** Central Office O&G Coordinator



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

08/26/2022

Attachment VI Frac Additives

Product Nome	Freduct Use	Demical Name	107-21.1
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1 104-55 2
		Cinnamaldehyde Butyl cellosolve	104-55 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
	A CONTRACTOR OF	Ammonium persulfate	7727-54-0
P ONE (U.S. Well Services)	Breaker		
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1 64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
rboNRT	Tracer	Ceramic Proppant	66402-68-4
486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate Ethylene Glycol	Proprietary 107-21-1
EC6734A (Champion Technologies) Econo-Cl200 (SWN Well Services)	Biocide	Hydrogen Peroxide	7722-84-1
	Diocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
	Corrosion Inhibitor	Methanol	67-56-1
Econo-cizoo (Swin well Services)	corrosion inhibitor	Oxyalkylated fatty acid	68951-67-7
		Oxyalkylated fatty acid Fatty acids	61790-12-3
		Fatty acids Modified thiourea polymer	61790-12-3
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Feenal FEAC (SWALWell Services)	Iron Control	Acetic Acid	64-19-7
Ecopol-FEAC (SWN Well Services) FDP-S1176-15 (Halliburton)	non control	Citric Acid	77-92-9
		Water	7732-18-5
	Friction Boduces		Proprietary
2111/0-12 (Hallipurton)	Friction Reducer	Polyacylate Hydrotreated light petroleum distillate	64742-47-8
	Filmling De door		
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
			5 107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
			7732-18-5
DJET DRP 1130X (SWN Well Services)	Friction Reducer	Tipplicary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
			Proprietary
TRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol Khoxylate	67-56-1 Proprietary
LAFOR UL-Wheeters	Constantion to bitter		Proprietary
I-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
II-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
xslick 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
exslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
exslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	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
xaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
	Contraction of the second s	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
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
	Estadian Dadress	groups	397256-50-7
.D-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8 Based and a second
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
gend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
		Priospholic Acid Salt	7631-99-408

