



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, April 19, 2023  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

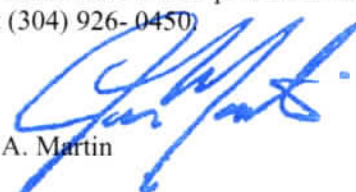
SPRING, TX 773914954


Re: Permit approval for William Ritchea WTZ 210H  
47-103-03575-00-00

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: William Ritchea WTZ 210H  
Farm Name: William D Ritchea & Shirley E   
U.S. WELL NUMBER: 47-103-03575-00-00  
Horizontal 6A New Drill  
Date Issued: 4/19/2023

Promoting a healthy environment.

04/21/2023

# 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

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

WW-6B  
(04/15)

4710303575  
API NO. 47-103 -  
OPERATOR WELL NO. William Ritchea WTZ 210H  
Well Pad Name: William Ritchea WTZ

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

1) Well Operator: SWN Production Co., LLC 494512924 103-Wetzel 7-Proctor 681-Wileyville  
Operator ID County District Quadrangle

2) Operator's Well Number: William Ritchea WTZ 210H Well Pad Name: William Ritchea WTZ

3) Farm Name/Surface Owner: William D. Ritchea & Shirley E. Ritchea Public Road Access: Harlan Ridge Road

4) Elevation, current ground: 1563' Elevation, proposed post-construction: 1563'

5) Well Type (a) Gas  Oil  Underground Storage   
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 7683', Target Base TVD- 7731', Anticipated Thickness- 48', Associated Pressure- 5025

8) Proposed Total Vertical Depth: 7713'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,726'

11) Proposed Horizontal Leg Length: 10,688.36'

12) Approximate Fresh Water Strata Depth: 541'

13) Method to Determine Fresh Water Depths: BOFW determined from salinity calculations from William Ritchea WTZ 3H logs API 47-103-03129

14) Approximate Saltwater Depths: 1556' Salinity profile analysis

15) Approximate Coal Seam Depths: 1493'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No   
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(a) If Yes, provide Mine Info. Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_  
WV Department of Environmental Protection

4710303575

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	591'	591'	680 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2950'	2950'	1096 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	18726'	18726'	Tail 3276sx/100' Inside Intermediate
Tubing							
Liners							

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

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

*me*  
3/9/23  
04/21/2023  
Page 2 of 3

WW-6B  
(10/14)

API NO. 47-103 -  
OPERATOR WELL NO. William Ritchea WTZ 210H  
Well Pad Name: William Ritchea WTZ

4710303575

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): 12.2

22) Area to be disturbed for well pad only, less access road (acres): 9.0

23) Describe centralizer placement for each casing string:

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

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

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

\*Note: Attach additional sheets as needed.

47 10035078

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	<del>XXXXXXXXXX</del>	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ10	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	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
PRODUCTION	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	<del>XXXXXXXXXX</del>	55-HW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	<del>XXXXXXXXXX</del>	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMDE POLYMER	PROPRIETARY
	0255	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	<del>XXXXXXXXXX</del>	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	<del>XXXXXXXXXX</del>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	<del>XXXXXXXXXX</del>	VISCOSI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	<del>XXXXXXXXXX</del>	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
D065	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
D800	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	<del>XXXXXXXXXX</del>	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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04/21/2023

4710303575

**Southwestern Energy Company**

**Proposed Drilling Program**

Well: WILLIAM RITCHEA WTZ 210  
 Field: VICTORY FIELD WET  
 County: WETZEL  
 SHL: 39.6696 Latitude -80.6594 Longitude  
 BHL: 39.6491 Latitude -80.6270 Longitude  
 KB Elev: 1,589 ft MSL KB: 26 ft AGL

Re-entry Rig: SDC 41  
 Prospect: Marcellus Shale  
 State: WV  
 GL Elev: 1,563 ft MSL



NO COAL VOID EXPECTED

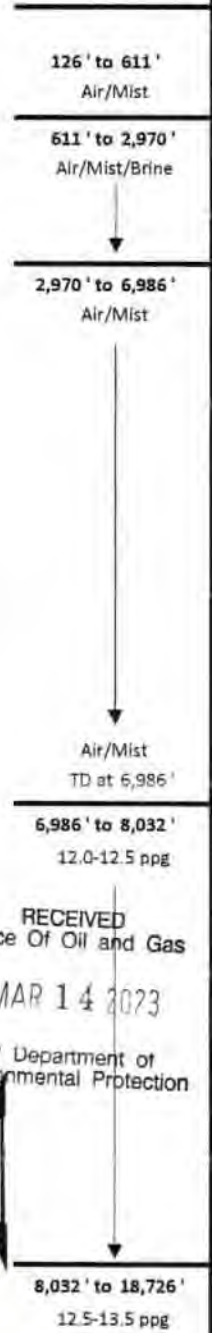
PROD TOC Lead @ 2,950' MD  
 PROD TOC Tail @ 6,986' MD

**TUBULAR DETAIL**

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	126'
Surface	13.375	54.4 #	J-55	0'	591'
Intmdt/Coal	9.625	36.0 #	J-55	0'	2,950'
Production	5.5	20.0 #	P-110 HP	0'	18,726'

**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	160	A	19.3
Surface	680	A	15.6
Intermediate	#N/A	A	15.6
Production	#N/A	A	14.5-15.6



KOP at 6,986' MD

Freshwater Depth - 541' TVD  
 Coal Depth - 1,492' TVD  
 Saltwater Depth - 1,556' TVD  
 TVD - 7,713'  
 TMD - 18,726'

7,583' Target Center

TD at 18,726' MD  
 7,713' TVD

EOB at 8,032' MD

SHL Onondaga 7,612' TVD

Onondaga 7,742' TVD

8,032' to 18,726'  
 12.5-13.5 ppg

*Signature*  
 04/21/2023  
 3/9/23

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



**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: WILLIAM RITCHEA WTZ	WELL # 210H	SERIAL #
1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE WETZEL - 103	DISTRICT: PROCTOR	
SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA	USGS 7 1/2 QUADRANGLE MAP NAME WILEYVILLE, WV		



47 103 30768

William Ritchie WITZ 210H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-103-01234	Perkins Oil and Gas, Inc., 1306 Edgewood Dr. St. Marys, WV 26170	Unknown	***	***	4285'	Gordon Stray	
47-103-01291	Perkins Oil and Gas, Inc., 1306 Edgewood Dr. St. Marys, WV 26170	Unknown	***	***	3428'	Gordon Stray	
47-103-31978	Unknown	Abandoned	***	***	3147'	Gordon	
47-103-30768	Unknown	Abandoned	***	***	Unknown	Unknown	
47-103-72057	Unknown	Unknown	***	***	Unknown	Unknown	
47-103-32331	Unknown	Abandoned	***	***	3241'	Gordon	
47-103-72053	Unknown	Unknown	***	***	Unknown	Unknown	
47-103-31034	Unknown	Abandoned	***	***	3306'	Gordon	
47-103-72036	Unknown	Unknown	***	***	Unknown	Unknown	
47-103-09526	EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	Active	39.654144	-80.620402	6,805'	Marcellus	
47-103-03527	EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	Active	39.654175	-80.620368	6,552'	Marcellus	

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Environmental Protection

04/21/2023

WW-9  
(4/16)

4710303575

API Number 47 - 103  
Operator's Well No. William Ritchiea WTZ 210H

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) Fish Creek Quadrangle Wileyville

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
  - Underground Injection ( UIC Permit Number Various Approved Facilities )
  - Reuse (at API Number At the next anticipated well )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification on site)

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air oil to KOP, fluid oil with SOBMs from KOP to TD

-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 MSWL018781, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, FMS 353100

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals 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 or imprisonment.

Company Official Signature Brittany Woody  
Company Official (Typed Name) Brittany Woody  
Company Official Title Senior Regulatory Analyst

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MAR 1 4 2023

WV Department of  
Environmental Protection

Subscribed and sworn before me this 23<sup>rd</sup> day of February, 2023

Neil Croft  
My commission expires 8/21/2024

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

04/21/2023  
3/9/23

4710303575

Operator's Well No. William Ritchea WTZ 210H

**SWN Production Co., LLC**

Proposed Revegetation Treatment: Acres Disturbed 12.2 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min.2 Tons/acre or to correct to pH 5.9

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

**Attachment 3C**

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Properly Reclaim, seeds & mulch all disturbed areas.

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Environmental Protection

Title: Oil & Gas Inspector

Date: 3/9/23

Field Reviewed? ( ) Yes ( / ) No

04/21/2023

## 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 Separator (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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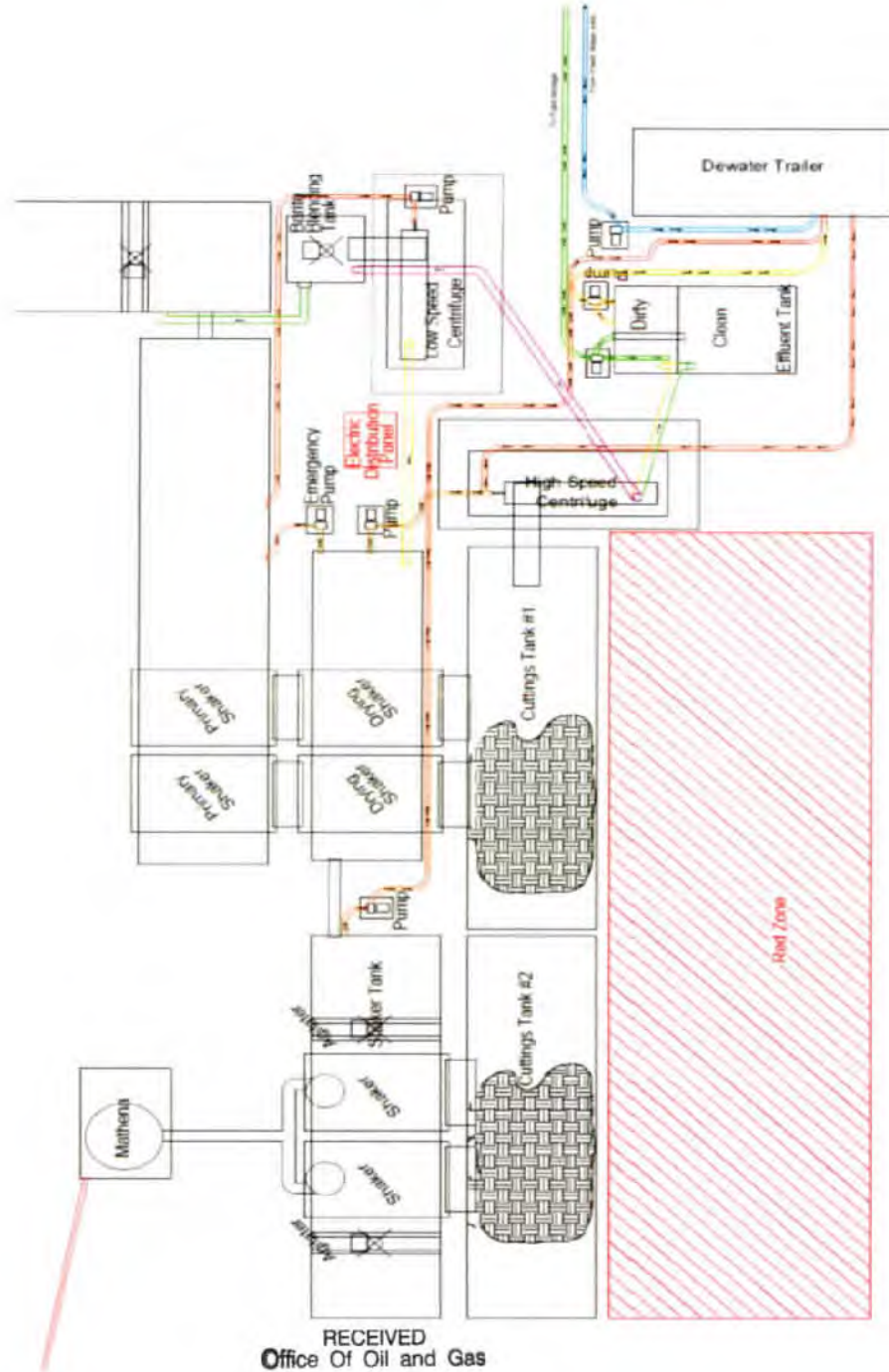
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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



Solids Control Layout



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04/21/2023

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**Attachment 3B**  
**Drilling Mediums**

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

Air  
Freshwater (if needed based on conditions)

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

Air

**Production Hole:**

Air  
Synthetic Oil (Base Fluid for mud system)  
Barite  
Calcium Chloride  
Lime  
Organophilic Bentonite  
Primary and Secondary Emulsifiers  
Gilsonite  
Calcium Carbonate  
Friction Reducers

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Environmental Protection



# WVD Seeding Specification



To Order Seed contact Lyndsi Eddy Filippo office 570-996-4271 cell 501-769-5451 lyndsi\_eddy@swn.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are innoculated at 5x normal rate	
<p>Apply @ 100lbs per acre April 16th- Oct. 14th</p> <p>Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat</p>	
SOIL AMENDMENTS	
10-20-20 Fertilizer	* Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
* unless otherwise dictated by soil test results	
<p>Seeding Calculation Information:</p> <p>1452' of 30' ROW/LOD is One Acre</p> <p>871' of 50' ROW/LOD is One Acre</p> <p>622' of 70' ROW/LOD is One Acre</p>	
<p>Synopsis:</p> <p>Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).</p>	
<p>Special Considerations:</p> <p>Landowner Special Considerations including CREP program participants require additional evidence that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.</p>	

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ORGANIC PROPERTIES		
Seed Mixture: SWN Production Organic Mix	SWN Supplied	SWN Supplied
Organic Timothy	50%	
Organic Red or White Clover	50%	
OR		
Organic Perennial Ryegrass	50%	
Organic Red or White Clover	50%	
<p>Apply @ 100lbs per acre April 16th- Oct. 14th</p> <p>Apply @ 200lbs per acre Oct. 15th- April 15th</p>		
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre
WETLANDS (delineated as jurisdictional wetlands)		
Seed Mixture: Wetland Mix	SWN Supplied	
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	
Cosmos 'Sensation'	10%	
Redtop	5%	
Golden Tickseed	5%	
Maryland Senna	5%	
Showy Tickseed	5%	
Fox Sedge	2.5%	
Soft Rush	2.5%	
Woolgrass	2.5%	
Swamp Verbena	2.5%	
<p>Apply @ 25lbs per acre April 16th- Oct. 14th</p> <p>Apply @ 50lbs per acre Oct. 15th- April 15th</p>		
<p>NO FERTILIZER OR LIME INSIDE WETLAND LIMITS</p>		

471030375

04212023

4710303575

# 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: William Ritchea WTZ 210H**  
**Wileyville QUAD**  
**PROCTOR DISTRICT**  
**WETZEL COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 6/14/2022

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *[Signature]*

Date: 3/9/23

Title: WV Oil & Gas Inspector

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MAR 14 2023

Approved by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_  
WV Department of  
Environmental Protection

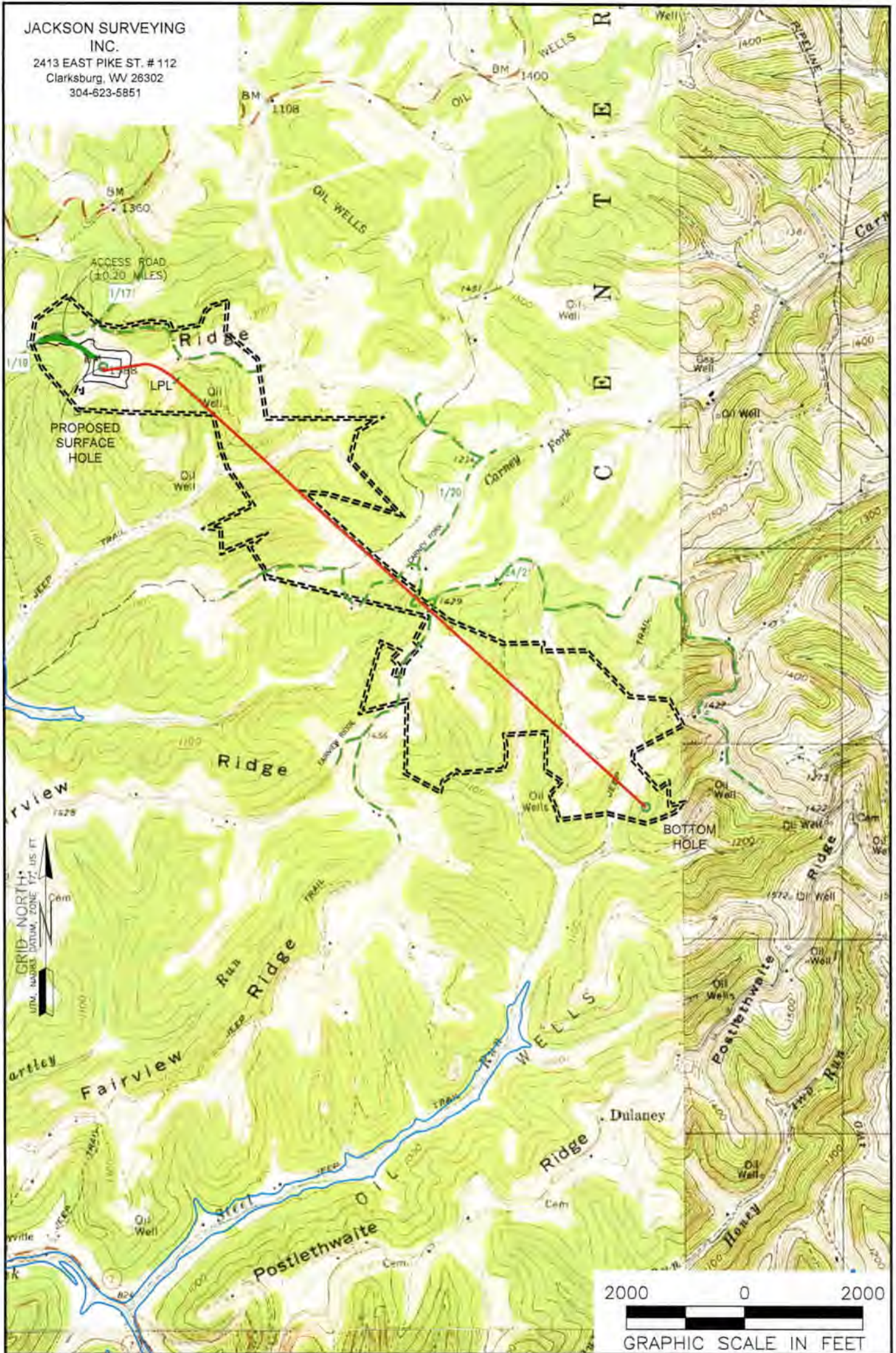
Title: \_\_\_\_\_

SWN PRODUCTION COMPANY, LLC – CONFIDENTIAL

04/21/2023



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



**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- \* EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- FLOOD PLAIN
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

04/21/2023

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508 SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA	WELL (FARM) NAME: WILLIAM RITCHEA WTZ COUNTY - CODE WETZEL - 103 USGS 7 1/2 QUADRANGLE MAP NAME WILEYVILLE, WV	WELL # 210H	SERIAL #
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Latitude: 39°42'30"

SURFACE HOLE 9691'

JACKSON SURVEYING INC.

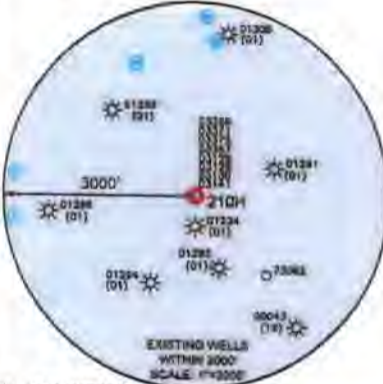
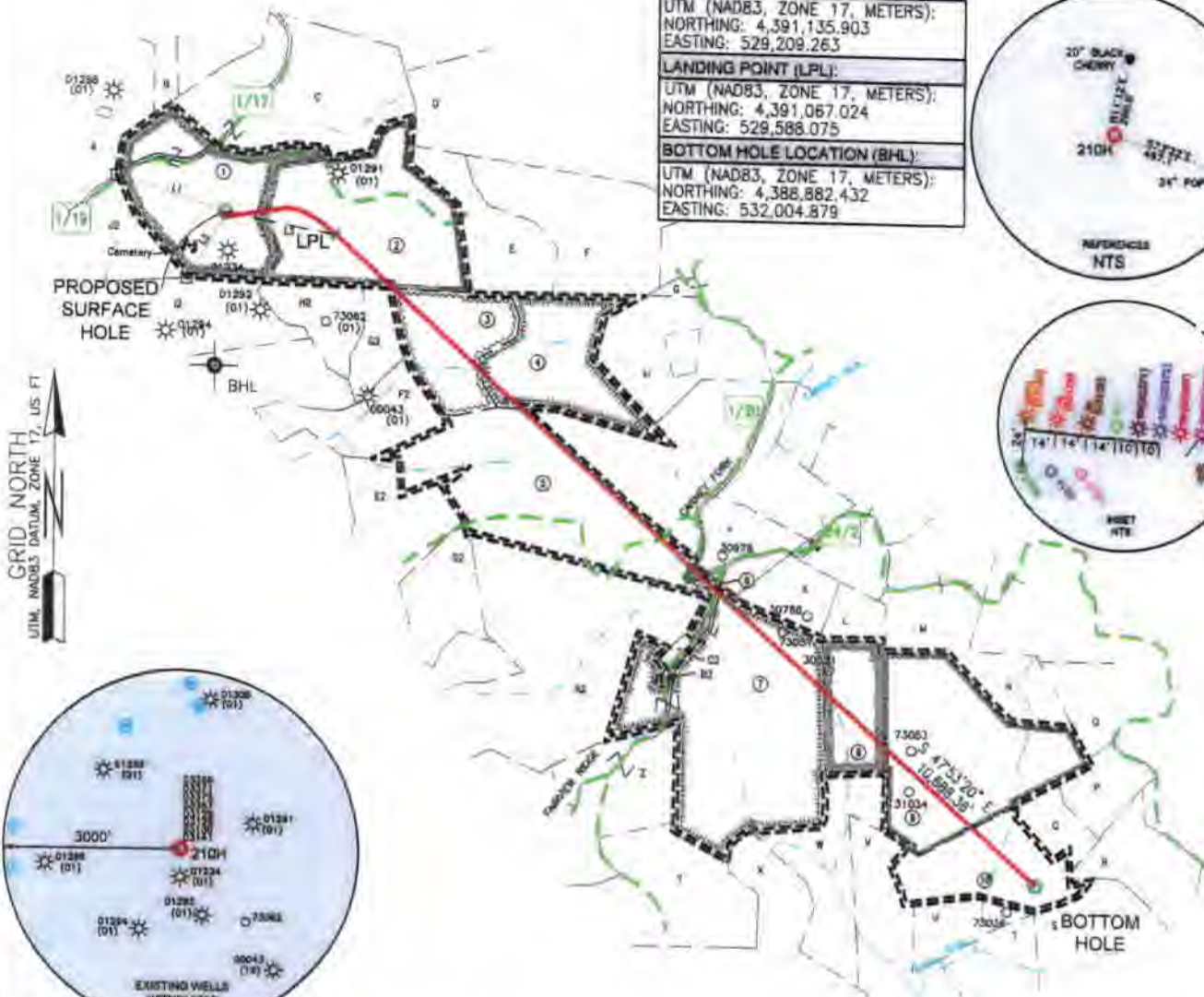
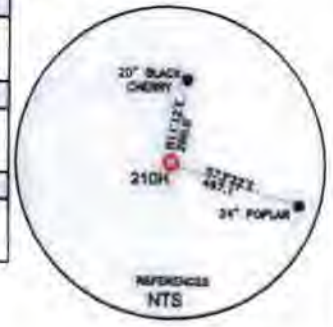
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

Latitude: 39°40'00"

BOTTOM HOLE 12,282'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 72°21'07" W	1298.48'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 30°22'01" W	865.38'	SHL TO LANDMARK	FD. 5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 79°41'40" E	1,263.20'	1,380.88'	SHL TO LPL

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,135.903 EASTING: 529,209.263
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,067.024 EASTING: 529,588.075
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,388,882.432 EASTING: 532,004.879



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD. LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: WILLIAM RITCHEA WTZ OPERATOR'S WELL #: 210H API WELL #: 47 103 D3575 STATE COUNTY PERMIT
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: FISH CREEK (HUC-10) ELEVATION: 1562.8' STAKED

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA ACREAGE: ±62.00

OIL & GAS ROYALTY OWNER: WILLIAM D. RITCHEA & SHIRLEY E. RITCHEA ACREAGE: ±62.00

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,713' TVD 18,726' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



LEGEND:	REVISIONS:	DATE:
PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL: LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING	SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH	04-12-2023 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT

JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-823-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RITCHEA WILLIAM D & SHIRLEY E (S/R)	12-15-21
TRACT	SURFACE OWNER (S)	
2	CHRISTY MICHAEL M JR ETAL & HALL SUSAN (S)	12-15-22
3	BROWN SANDY K (S)	12-15-28
4	YOHO KIMBERLY & KEITH ALLEN (S)	12-15-29
5	MELOTT TERREL LEMOYN (S)	01-10-22
6	WYKERT ERIC D (S)	01-10-23
7	MCCRAY LINDA ETAL (S)	01-10-33
8	MCMILLEN SHARON J (S)	01-10-34
9	MCMILLEN SHARON J (S)	01-10-35
10	MCMILLEN SHARON J (S)	01-10-49

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	PITOSCIA WILLIAM R	12-14-16
B	URBANEX SCOTT J & CHRYSAL A	12-15-13
C	LEMASTERS H C HRS & MANKER CHARLES V REVOC LIVING TR	12-15-18
D	LEMASTERS DOLLY G EST	12-15-19
E	HEETER HAROLD JR ETAL	12-15-23
F	FERRELL HANNAH RAJNE & FERRELL JOSEPH ROSS	12-15-24
G	WYKERT WAYNE & ASHLEY	01-10-14
H	WOOD GLENN & TAMELA P	01-10-09
I	MELOTT TERREL L	01-10-10
J	BARD VANESSA	01-10-11.1
K	?	
L	?	
M	CRANE DONALD N	01-10-24
N	?	
O	HENDERSON AMIE LEE	01-10-36
P	HENDERSON AMIE LEE	01-10-37
Q	MCMILLEN SHARON J	01-10-51
R	MILLER JOHN G ETAL	01-10-52
S	COASTAL FOREST RESOURCES CO	01-14-05
T	COASTAL FOREST RESOURCES CO	01-14-04
U	COASTAL FOREST RESOURCES CO	01-10-50
V	COASTAL FOREST RESOURCES CO	01-14-03
W	FLEMING DEAN & ETAL	01-10-48
X	COASTAL FOREST RESOURCES CO	01-10-47
Y	CAIN SAMUEL EST & CAIN GLEN JR	01-10-46
Z	JARRELL WILMA & JEFFREY	01-10-45
AZ	YEATER CHESTER C JR & LORENE REVOCABLE TRUST	01-10-32
B2	RICHTER ROMIEY & CAROL	01-10-33.1
C2	SNIDER GARNET & HUGH	01-10-21
D2	MILLS RITCHIE W & NELSON B	01-09-16
E2	MILLS RITCHIE W & NELSON B	01-09-15
F2	LEMASTERS HAROLD E & BETTY L	12-15-32
G2	BROWN SANDY K	12-15-27
H2	CHRISTY MICHAEL M JR ETAL & HALL SUSAN	12-15-26
I2	CHRISTY MICHAEL M JR ETAL & HALL SUSAN	12-15-25
J2	PITOSCIA WILLIAM R	12-14-27

04/21/2023

REVISIONS:	COMPANY:		 	
	OPERATOR'S		WILLIAM RITCHEA WTZ	
	WELL #:		47-103-03575 210H	
	DISTRICT:	COUNTY:	STATE:	DATE: 04-12-2023
	PROCTOR	WETZEL	WV	DRAWN BY: N. MANO
			SCALE:	N/A
			DRAWING NO:	
			WELL LOCATION PLAT 2	

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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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.

\*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

**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: 

Its: Staff Landman

04/21/2023

4710303575

EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
1	12-15-21	William D. Ritchea and Shirley E. Ritchea, husband and wife Bayer Corporation, successor in interest to Mobay Chemical Corporation Bayer Material-Science LLC Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc.	Mobay Chemical Corporation  Bayer MaterialScience LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	60A/59  396/1  140A/883 120A/109  157A/540 158A/801	0.0000%
2	12-15-22	Esther Peters, Paul J. Shiben, Katherine Mensore and Edward Shiben, as Executors under the Wills of Joseph Shiben and Minnie Shiben, and Shiben Estates, Inc. Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC  Haddad and Brooks, Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Haddad and Brooks, Inc. SWN Exchange Titleholder LLC (now SWN Production Company LLC) SWN Production Company, LLC	15.00%	62A/309  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 113A/927 157A/540 250A/215	0.0000%
		Arthur Liston, Donald J. Kinser, Lonzo Dolin, Herbert Heeter, Amos McPeak, Jr., George Dent, Jack Nice, LeeMcCoy and Ernest Dent Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	62A/294  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801	
		Albert G. Smith and Lillian Smith, husband and wife  Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	64A/641  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801	
		Fred C. Smith and Imogene Smith, husband and wife  Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	64A/643  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801	
		Chalmer T. Smith and Myrtle Smith, husband and wife	Mobay Chemical Corporation	12.50%	64A/639	

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 Office of Oil and Gas  
 APR 18 2023  
 WV Department of Environmental Protection

4710303575

EXHIBIT "A"

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  
William Ritchea WTZ 210H  
Wetzel County, West Virginia

Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801
Garnet Snider and Hugh Snider, husband and wife  Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	64A/645  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801
Harold Eugene Lemasters and Betty Lee Lemasters, husband and wife Mobay Chemical Corporation Haddad and Brooks, Inc. Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Mobay Chemical Corporation  Haddad and Brooks, Inc. Sun Exploration and Production Company Natmin Development Corporation Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	65A/54  65A/67 65A/195 67A/516 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801
Fred A. Heeter and Janet K. Heeter, husband and wife, Frank E. Heeter and Kathleen J. Heeter, husband and wife, and Thomas R. Heeter and Robin D. Heeter, husband and wife  Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Haddad and Brooks Inc.  Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	65A/293  66A/61 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801
William G. Sheppard and Virginia S. Sheppard, husband and wife Haddad and Brooks, Inc. Sun Exploration and Production Company Sun Operating Limited Partnership Sun Operating Limited Partnership, by Sun Exploration and Production Company, as its managing general partner Natmin Development Corporation Haddad and Brooks, Inc. Chesapeake Appalachia, LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Haddad and Brooks Inc.  Sun Exploration and Production Company Sun Operating Limited Partnership Haddad and Brooks, Inc. Haddad and Brooks, Inc.  Haddad and Brooks, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	12.50%	65A/305  66A/61 69A/328 69A/600 70A/265  71A/593 102A/302 120A/109  157A/540 158A/801

04/21/2023

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Office of Oil and Gas

APR 18 2023

WV Department of  
Environmental Protection

4710303575

**EXHIBIT "A"**  
 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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

3	12-15-28 pt. A	Paul J. Shiben and Katherine Mensore, the surviving Executors of the estates, and under the wills, of Joseph and Minnie Shiben, deceased, and Shiben Estates, Inc., C/O Paul J. Shiben	Haddad and Brooks, Inc.	15.00%	72A/467	0.0000%
		Haddad and Brooks, Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Perkins Oil and Gas, Inc. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		102A/302 216A/94 120A/109	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.			157A/540 158A/801	
		Haddad and Brooks, Inc. David E. Bowyer EQT Production Company	SWN Production Company, LLC EQT Production Company SWN Production Company, LLC and Equinor USA Onshore Properties Inc. (formerly Statoil USA Onshore Properties Inc.)	18.00% 18.00%	250A/221 226A/10 240A/54	
3	12-15-28 pt. B	Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc.	Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C.	12.50%	82A/107 104A/230	0.0000%
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		120A/109 157A/540 158A/801	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.				
		Rosalyn A. Metzger	SWN Production Company, LLC	18.00%	237A/26	
		MBD Holdings, LP	SWN Production Company, LLC	18.00%	237A/31	
		Rosalyn A. Metzger and Deborah Rein, Co-Trustees of the Siegler Family Trust	SWN Production Company, LLC	18.00%	237A/36	
		Deborah Rein	SWN Production Company, LLC	18.00%	237A/41	
4	12-15-29 pt. B	Harold H. Blake and/or Donna M. Blake, husband and wife Haddad and Brooks, Inc., a/k/a Haddad & Brooks, Inc.	Haddad and Brooks, Inc. Chesapeake Appalachia, L.L.C.	12.50%	82A/107 104A/230	0.0000%
		Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		120A/109 157A/540 158A/801	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.				
		Mary Ballouz Davis, a/k/a Mary B. Davis, a/k/a Mary M. Ballouz Davis, widow Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	17.00%	125A/628	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		139A/402 157A/540 158A/801	
		The Siegler Family Trust, by Rosalyn A. Metzger and Deborah Rein, acting as Trustees Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	17.00%	125A/633	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		139A/402 157A/540 158A/801	
		Rosalyn A. Metzger Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	17.00%	125A/638 139A/402	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		157A/540 158A/801	
		Deborah Rein Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)	17.00%	125A/643 139A/402	
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		157A/540 158A/801			
4	12-15-29 pt. A	Paul J. Shiben and Katherine Mensore, the surviving Executors of the estates, and under the wills, of Joseph and Minnie Shiben, deceased, and Shiben Estates, Inc., C/O Paul J. Shiben	Haddad and Brooks, Inc.	12.50%	72A/467	0.0000%
		Haddad and Brooks, Inc. Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Perkins Oil and Gas, Inc. Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.) SWN Production Company, LLC SWN Exchange Titleholder LLC (now SWN Production Company LLC)		102A/302 216A/94 120A/109	
		Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.			157A/540 158A/801	
		Haddad and Brooks, Inc. David E. Bowyer EQT Production Company	SWN Production Company, LLC EQT Production Company SWN Production Company, LLC and Equinor USA Onshore Properties Inc. (formerly Statoil USA Onshore Properties Inc.)	18.00% 18.00%	250A/221 226A/10 240A/54	
5	1-10-22 pt. A	Royalty Owner(s)	N/A	N/A	N/A	5.3385%

04/21/2023

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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, L.L.C, as Operator  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

William R. Gaddis, by David A. Gaddis, Executor	Haddad and Brooks, Inc.	12.50%	84A/35
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		104A/230 120A/109
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		157A/540 158A/801
William J. Grubbs and Janet C. Grubbs, husband and wife	Chesapeake Appalachia, LLC	17.00%	130A/559
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		157A/540 158A/801
William J. Hall, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	166A/924
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Robert Richmond and Virginia Richmond, husband and wife	SWN Production Company, LLC	16.00%	167A/463
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/221
Vera Jean Rutan, a single woman	SWN Production Company, LLC	18.00%	237A/160
George Ray Lemley	Haddad and Brooks, Inc.	12.50%	79A/194
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		104A/230 120A/109
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		157A/540 158A/801
Trudy L. Burke and Paul B. Burke, wife and husband	SWN Production Company, LLC	18.00%	247A/911
Tomi A. Skeens, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	229A/710
Timothy James Lemasters and Brandi Lee Lemasters, husband and wife	SWN Production Company, LLC	18.00%	235A/604
Tammy L. Lemasters, a single woman	SWN Production Company, LLC	18.00%	232A/62
Suzette Station, a single woman	SWN Production Company, LLC	16.00%	168A/630
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Susan J. Lemasters, a single woman	SWN Production Company, LLC	18.00%	229A/722
Stephen Guy Pettit and Sarah Pettit, husband and wife	SWN Production Company, LLC	16.00%	167A/430
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Sherry L. Miga, a single woman	SWN Production Company, LLC	18.00%	229A/88
Sharon L. Mick, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	233A/550
Sarah Jean Rush, a widow	Chesapeake Appalachia, LLC	17.00%	128A/891
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		149A/865
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		157A/540 158A/801
Sandra L. Richie	Haddad and Brooks, Inc.	12.50%	79A/202
Haddad and Brooks, Inc. Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		104A/230 120A/109
Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		157A/540 158A/801
John T. Darner and Sandra L. Darner, husband and wife	SWN Production Company, LLC	18.00%	232A/349
Samuel J. Wood, a married man, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	199A/493
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Samuel Burton and Joyce K. Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/442
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Ruth E. Massey, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	247A/897
Roy Dale Wood and Junie Malla Wood, husband and wife	SWN Production Company, LLC	18.00%	231A/564
Rosemary A. Douglas, a widow	SWN Production Company, LLC	18.00%	229A/704
Rose Marie Lemasters-Juresko, a widow, by her Attorney in Fact, Linda D. McPherson	SWN Production Company, LLC	18.00%	229A/82
Ronald Hall, a single man	SWN Production Company, LLC	16.00%	166A/919
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/221
Roberta M. Rinaldi a/k/a Robin M. Rinaldi, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	238A/250
Richard J. Colvin & Jane A. Colvin, his wife	SWN Production Company, LLC	18.00%	246A/733

Office of Oil and Gas

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 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Rex D. Foster, a single man	SWN Production Company, LLC	16.00%	240A/726
Rebecca Massey, a married woman dealing in her sole and separate property	Chesapeake Appalachia LLC	17.00%	132A/871
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Raymond Clayton, a widower	SWN Production Company, LLC	16.00%	167A/457
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Ray Ellwood Blake, II, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	221A/934
Ralph Clayton and Sara Clayton, husband and wife	SWN Production Company, LLC	16.00%	167A/460
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Perkins Oil & Gas, Inc., a West Virginia corporation	SWN Production Company, LLC	18.00%	249A/159
Paula Kay Zukoff Romanoski, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	199A/665
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Paul Douglas Lemasters and April L. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	234A/841
Patty A. Balwanz & Robert J. Balwanz, wife and husband	SWN Production Company, LLC	18.00%	248A/739
Patricia A. Wallace, a single woman	SWN Production Company, LLC	18.00%	230A/535
Pamela J. Lemasters, f/k/a Pamela J. Lemasters-Putt, a single woman	SWN Production Company, LLC	18.00%	231A/356
Pamela Ann Frabell, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	238A/255
Okla Dale Burton and Shirley Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/436
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Nicole Lee Jackson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	227A/729
Neita M. Pound, a single woman	SWN Production Company, LLC	18.00%	231A/326
Nancy Grubbs Burford, a widow	Chesapeake Appalachia LLC	17.00%	130A/842
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Michael Withrow, a married man dealing in his sole and separate property	Chesapeake Appalachia LLC	17.00%	134A/520
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		143A/285
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Michael Richey, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	237A/825
Michael K. Shartiger and Carmen Shartiger, husband and wife	SWN Production Company, LLC	18.00%	231A/570
Michael G. Lemasters, a single man	SWN Production Company, LLC	18.00%	207A/673
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		240A/712
Patricia J. Silvis and Melvina E. Silvis, her husband	Chesapeake Appalachia LLC	17.00%	128A/901
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		149A/865
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Mary Jane Poleski, a widow	Chesapeake Appalachia LLC	17.00%	128A/886
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		149A/865
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Charles Spaine and Mary E. Spaine, husband and wife	SWN Production Company, LLC	16.00%	168A/633
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Marta Jo Zukoff Thomas, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	199A/499
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Michael Ray Barrett and Mary Barrett, husband and wife	SWN Production Company, LLC	16.00%	166A/910
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/721
Mark E. Riter, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	231A/344
Marilyn P. Dehart, a single woman	SWN Production Company, LLC	18.00%	201A/779
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Marianna F. Wood, a widow	SWN Production Company, LLC	16.00%	166A/913

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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, L.L.C, as Operator  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/221
Equinor USA Onshore Properties Inc.	SWN Production Company, LLC		228A/656
Marian Franzl, a widow	SWN Production Company, LLC	18.00%	236A/570
Margaret L. Chambers, a single woman	SWN Production Company, LLC	18.00%	203A/817
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Lou Ann Douglas, a widow	SWN Production Company, LLC	18.00%	233A/943
Lisa M. Barrile & Jeffrey V. Barrile, wife and husband	SWN Production Company, LLC	18.00%	237A/172
Lisa J. Gibson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	237A/178
Linda Stevens and Alfred Stevens, wife and husband	SWN Production Company, LLC	18.00%	188A/116
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Linda Stansberry, a single woman	SWN Production Company, LLC	18.00%	223A/208
James E. Barr and Linda Barr, husband and wife	SWN Production Company, LLC	16.00%	167A/451
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Lee Roy Lemasters, Jr., a single man, by his Attorney-in-Fact Neita M. Pound	SWN Production Company, LLC	18.00%	231A/332
Lee R. Lemasters and Carla J. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	231A/362
Lawrence Jay Lemasters & Rebecca Lemasters, husband and wife	SWN Production Company, LLC	18.00%	249A/757
Lawrence Brock Hawkins, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	233A/932
Kristina D. Marks and Joshua A. Marks, wife and husband	SWN Production Company, LLC	18.00%	239A/656
Kimberly A. Hill, a widow	SWN Production Company, LLC	18.00%	233A/562
Kevin Lemasters and Sandra C. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	234A/853
Kelly J. Wooley, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	224A/484
Keith J. Lemasters and Gloria S. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	231A/350
Kathleen M. Wilson, a widow	SWN Production Company, LLC	18.00%	234A/877
Karen Jane Mcafoos f/k/a Karen Jane Sauder, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	236A/49
Karen G. Kuhn a/k/a Karen Harbert Kuhn, a widow	SWN Production Company, LLC	18.00%	194A/936
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		215A/650
Joseph F. Frey and Judy Ann Frey, husband and wife	SWN Production Company, LLC	16.00%	167A/433
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Juanita Lee Meekins, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	235A/592
Vincent Goff and Joyce Goff, husband and wife	SWN Production Company, LLC	16.00%	166A/916
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		182A/825
Joyce Ann Lemasters, a widow	SWN Production Company, LLC	18.00%	234A/593
Joseph Matthew Stocklash & Rhonda Stocklask, husband and wife	SWN Production Company, LLC	16.00%	168A/627
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Jonathan S. Lemasters, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	236A/345
Jonathan Kent Wood, a married man dealing in his sole and separate property	Chesapeake Appalachia LLC	18.00%	140A/696
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Jonah Schartiger, a single man	SWN Production Company, LLC	18.00%	246A/920
John K. Hill, a married man, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	201A/773
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
John David Rush and Judith Rush, husband and wife	SWN Production Company, LLC	16.00%	166A/904
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/221
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		182A/825
Equinor USA Onshore Properties Inc.	SWN Production Company, LLC		228A/656
Jerrold A. Franzl and Deborah L. Franzl, husband and wife	SWN Production Company, LLC	18.00%	232A/56
Jay Howard Millard, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	231A/338
Jason James Blake and Sarah E. Cobbs, husband and wife	SWN Production Company, LLC	18.00%	225A/786
James Withrow, a married man dealing in his sole and separate property	Chesapeake Appalachia LLC	17.00%	132A/752
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540

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RECEIVED  
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## EXHIBIT "A"

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  
William Ritchea WTZ 210H  
Wetzel County, West Virginia

Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
James R. Jackson, a single man	SWN Production Company, LLC	18.00%	227A/735
James Jim Burton and Tammy Lynn Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/445
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
James H. Rush	Haddad and Brooks, Inc.	12.50%	79A/198
Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		104A/230
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		120A/109
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
James F. Snider, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	223A/653
Jack D. White, a single man	SWN Production Company, LLC	18.00%	232A/355
Holly Hall Hatley, a single woman	SWN Production Company, LLC	18.00%	238A/22
Robert L. Colvin, a widower	SWN Production Company, LLC	18.00%	249A/165
Allie Virginia Hall, by Billie Jo Beegle, as her Attorney-in-Fact	SWN Production Company, LLC	16.00%	168A/636
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Harold R. Lemasters, Jr., a widower	SWN Production Company, LLC	18.00%	240A/6
Harlan C. Wood and Mary L. Wood, husband and wife	SWN Production Company, LLC	16.00%	166A/901
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		178A/221
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		182A/825
Equinor USA Onshore Properties Inc.	SWN Production Company, LLC		228A/656
Guy Ebery Hawkins, a single man	SWN Production Company, LLC	16.00%	170A/469
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		182A/825
Gregory Paul Wood, a single man	Chesapeake Appalachia LLC	18.00%	140A/252
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Geraldine Jackson, a single woman	Chesapeake Appalachia LLC	17.00%	132A/742
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Gerald Brett Hawkins and Julie A. Hawkins, husband and wife	SWN Production Company, LLC	16.00%	168A/624
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
George Thomas Sapp, a single man	SWN Production Company, LLC	18.00%	233A/556
Gary Deffenbaugh and Virginia M. Deffenbaugh, husband and wife	SWN Production Company, LLC	18.00%	237A/190
Gale Lee Hall, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	247A/904
Frank Anthony Stocklask, a single man	SWN Production Company, LLC	16.00%	167A/427
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Kermit E. Persinger and Frances Persinger, husband and wife	SWN Production Company, LLC	16.00%	167A/454
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Edith A. Douglas, a widow	SWN Production Company, LLC	18.00%	230A/529
Douglas Edward Wood & Shelly Lynn Wood, husband and wife	SWN Production Company, LLC	18.00%	222A/774
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		240A/712
Douglas Charles Wood	Chesapeake Appalachia LLC	18.00%	140A/691
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		149A/261
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801
Donna Sue Stevenson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	229A/716
Marlene Louise Gardner, a widow	Chesapeake Appalachia LLC	17.00%	128A/896
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		149A/865
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540
Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		158A/801
Diana Whitlatch and Sam E. Whitlatch, wife and husband	SWN Production Company, LLC	16.00%	167A/466
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544
Dennis D. Schopper, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	233A/583
Deborah Lamp, a single woman	SWN Production Company, LLC	18.00%	237A/166
Deborah E. Hall-Ryan, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	237A/196
Deborah D. Fisher, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	233A/209

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EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

David Russell Sauder and Amy S. Sauder, husband and wife	SWN Production Company, LLC	18.00%	232A/361			
David M. Carter, a widower	SWN Production Company, LLC	18.00%	239A/662			
David B. Schartiger & Karla R. Schartiger, husband and wife	SWN Production Company, LLC	18.00%	230A/523			
Danny L. Lemasters, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	203A/50			
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409			
Dana Beth Oakland, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	199A/505			
Dale F. Sapp, a single man	SWN Production Company, LLC	18.00%	232A/50			
Corinda Kay Nail, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	206A/576			
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		240A/712			
Cindy L. Volanty f/k/a Cindy Lou Lemasters, a single woman	SWN Production Company, LLC	18.00%	236A/687			
Christy Holmes and Danny L. Holmes, husband and wife	SWN Production Company, LLC	16.00%	167A/448			
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544			
Christopher Thomas Wood and Brenda Sue Wood, his wife	Chesapeake Appalachia, LLC	18.00%	140A/247			
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540			
Chelsea Oakland, a single woman	SWN Production Company, LLC	18.00%	200A/547			
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409			
Charles R. White, a/k/a Charles Robert White	SWN Production Company, LLC	18.00%	232A/68			
Charlene I. Robbin f/k/a Charlene I. Kraft and Mark B. Robbin, wife and husband	SWN Production Company, LLC	18.00%	235A/459			
Chad K. Shartiger	SWN Production Company, LLC	18.00%	238A/800			
Carol J. Brownlee, a single woman	SWN Production Company, LLC	18.00%	223A/671			
Brittany D. Crow, a single woman	SWN Production Company, LLC	18.00%	249A/763			
Brian Keith Lemasters, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	237A/184			
Bret Stiffler, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	224A/490			
Brenda K. Ebert, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	236A/351			
Alfred Burns and Belinda Burns, husband and wife	SWN Production Company, LLC	16.00%	166A/907			
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		186A/240			
Beatrice Irene Morelock, a single woman	SWN Production Company, LLC	16.00%	245A/410			
Michelle Carpenter, f/k/a Michelle Lea Wood, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	18.00%	140A/257			
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540			
Anne Deepak, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	248A/662			
Angela Crellin, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	132A/747			
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		138A/618			
Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540			
Statoil USA Onshore Properties Inc.	SWN Exchange Titleholder, LLC (now SWN Production Company, LLC)		158A/801			
Amanda M. Lopez and Jesus G. Lopez, wife and husband	SWN Production Company, LLC	18.00%	239A/668			
Allen J. Hall, a single man	SWN Production Company, LLC	18.00%	237A/831			
Alfred Burton and Linda A. Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/439			
SWN Production Company, LLC	Statoil USA Onshore Properties Inc. (now Equinor USA Onshore Properties Inc.)		174A/544			
6	1-10-23	Royalty Owner	N/A	N/A	N/A	4.8004%
William James Grubbs and Janet C. Grubbs, husband and wife	SWN Production Company, LLC	15.00%	283A/137			
William J. Hall, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	166A/924			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544			
Robert Richmond and Virginia Richmond, husband and wife	SWN Production Company, LLC	16.00%	167A/463			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544			
Vera Jean Rutan, a single woman	SWN Production Company, LLC	18.00%	237A/160			
Vanita & Cordova Holding Company, LLC	SWN Production Company, LLC	17.00%	283A/164			
Vanita & Cordova Holding Company, LLC	SWN Production Company, LLC	17.00%	291A/655			
Allie Virginia Hall, by Billie Jo Beegle, as her Attorney-in-Fact	SWN Production Company, LLC	16.00%	168A/636			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544			
Trudy L. Burke and Paul B. Burke, wife and husband	SWN Production Company, LLC	18.00%	247A/911			
Toml A. Skeens, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	229A/710			

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## EXHIBIT "A"

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  
William Ritchea Wtz 210H  
Wetzel County, West Virginia

Timothy James Lemasters and Brandi Lee Lemasters, husband and wife	SWN Production Company, LLC	18.00%	235A/604
Tammy L. Lemasters, a single woman	SWN Production Company, LLC	18.00%	232A/62
Suzette Station, a single woman SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	168A/630 174A/544
Susan J. Lemasters, a single woman	SWN Production Company, LLC	18.00%	229A/722
Stephen Guy Pettit and Sarah Pettit, husband and wife SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	167A/430 174A/544
Sherry L. Miga, a single woman	SWN Production Company, LLC	18.00%	229A/88
Sharon L. Mick, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	233A/550
Sara Jean Rush, a widow	SWN Production Company, LLC	15.00%	290A/72
Sandra L. Richie a/k/a Sandra L. Page, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	290A/82
John T. Darnier and Sandra L. Darnier, husband and wife	SWN Production Company, LLC	18.00%	232A/349
Samuel J. Wood, a married man, dealing in his sole and separate property SWN Production Company, LLC	SWN Production Company, LLC Equinor USA Onshore Properties, Inc.	18.00%	199A/493 228A/409
Samuel Burton and Joyce K. Burton, husband and wife SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	167A/442 174A/544
Ruth E. Massey, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	247A/897
Ruby A. Oberholzer, a single woman	SWN Production Company, LLC	18.00%	308A/786
Roy Dale Wood and Junie Malia Wood, husband and wife	SWN Production Company, LLC	18.00%	231A/564
Rosemary A. Muldowney, a single woman	SWN Production Company, LLC	18.00%	290A/606
Rosemary A. Douglas, a widow	SWN Production Company, LLC	18.00%	229A/704
Rose Marie Lemasters-Juresko, a widow, by her Attorney in Fact, Linda D. McPherson	SWN Production Company, LLC	18.00%	229A/82
Ronald Hall, a single man SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	166A/919 178A/221
Roberta M. Rinaldi a/k/a Robin M. Rinaldi, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	238A/250
Robert A. Lemasters, a single man	SWN Production Company, LLC	15.00%	290A/67
Rickey E. Allen, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	308A/534
Rex D. Foster, a single man	SWN Production Company, LLC	16.00%	240A/726
Raymond Clayton, a widower SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	167A/457 174A/544
Ray Ellwood Blake, II, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	221A/934
Ralph Clayton and Sara Clayton, husband and wife SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	167A/460 174A/544
Rachelle Coburn Botelho, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	308A/551
Perkins Oil & Gas, Inc., a West Virginia corporation	SWN Production Company, LLC	18.00%	249A/159
Penny L. Thomas, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	293A/438
Paula Kay Zukoff Romanoski, a married woman, dealing in her sole and separate property SWN Production Company, LLC	SWN Production Company, LLC Equinor USA Onshore Properties, Inc.	18.00%	199A/665 228A/409
Paul Douglas Lemasters and April L. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	234A/841
Patty A. Balwanz a/k/a Patty A. Clovin-Balwanz, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	306A/424
Patricia A. Wallace, a single woman	SWN Production Company, LLC	18.00%	230A/535
Pamela J. Lemasters, f/k/a Pamela J. Lemasters-Putt, a single woman	SWN Production Company, LLC	18.00%	231A/356
Pamela Ann Frabell, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	238A/255
Okla Dale Burton and Shirley Burton, husband and wife SWN Production Company, LLC	SWN Production Company, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)	16.00%	167A/436 174A/544
Nicole Lee Jackson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	227A/729
Nefta M. Pound, a single woman	SWN Production Company, LLC	18.00%	231A/326
Nancy Grubbs Burford, a widow	SWN Production Company, LLC	15.00%	283A/121
Michael Richey, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	237A/825
Michael K. Shartiger and Carmen Shartiger, husband and wife	SWN Production Company, LLC	18.00%	231A/570

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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, L.L.C, as Operator  
William Ritchea WTZ 210H  
Wetzel County, West Virginia

Michael G. Lemasters, a single man	SWN Production Company, LLC	18.00%	207A/673
Melvin E. Silvis, a widower	SWN Production Company, LLC	15.00%	283A/195
Mary Jane Poleski, a widow	SWN Production Company, LLC	15.00%	283A/147
Charles Spaine and Mary E. Spaine, husband and wife	SWN Production Company, LLC	16.00%	168A/633
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Marta Jo Zukoff Thomas, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	199A/499
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Michael Ray Barrett and Mary Barrett, husband and wife	SWN Production Company, LLC	16.00%	166A/910
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		178A/221
Mark E. Riter, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	231A/344
Marilyn P. Dehart, a single woman	SWN Production Company, LLC	16.00%	201A/779
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Marianna F. Wood, a widow	SWN Production Company, LLC	16.00%	166A/913
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		178A/221
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		182A/825
Marian Franzl, a widow	SWN Production Company, LLC	18.00%	236A/570
Margaret L. Chambers, a single woman	SWN Production Company, LLC	18.00%	203A/817
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
Lou Ann Douglas, a widow	SWN Production Company, LLC	18.00%	233A/943
Lisa M. Barrile & Jeffrey V. Barrile, wife and husband	SWN Production Company, LLC	18.00%	237A/172
Lisa J. Gibson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	237A/178
Alfred Stevens and Linda Stevens, husband and wife	SWN Production Company, LLC	18.00%	196A/645
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		219A/468
Linda Stansberry, a single woman	SWN Production Company, LLC	18.00%	223A/208
James E. Barr and Linda Barr, husband and wife	SWN Production Company, LLC	16.00%	167A/451
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Lillian L. Pyles, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	308A/592
Harold E. Lemasters and Betty L. Lemasters, Trustees of the Lemasters Keystone Trust, dated April 5, 2012	SWN Production Company, LLC	18.00%	290A/596
Lee Roy Lemasters, Jr., a single man, by his Attorney-in-Fact Neita M. Pound	SWN Production Company, LLC	18.00%	231A/332
Lee R. Lemasters and Carla J. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	231A/362
Lawrence Brock Hawkins, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	233A/932
Kristina D. Marks and Joshua A. Marks, wife and husband	SWN Production Company, LLC	18.00%	239A/656
Kimberly A. Hill, a widow	SWN Production Company, LLC	18.00%	233A/562
Kevin Lemasters and Sandra C. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	234A/853
Kelly J. Wooley, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	224A/484
Keith J. Lemasters and Gloria S. Lemasters, husband and wife	SWN Production Company, LLC	18.00%	231A/350
Kathleen M. Wilson, a widow	SWN Production Company, LLC	18.00%	234A/877
Karen Jane Mcafoos f/k/a Karen Jane Sauder, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	236A/49
Karen G. Kuhn a/k/a Karen Harbert Kuhn, a widow	SWN Production Company, LLC	18.00%	194A/936
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		215A/650
Joseph F. Frey and Judy Ann Frey, husband and wife	SWN Production Company, LLC	16.00%	167A/433
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Juanita Lee Meekins, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	235A/592
Vincent Goff and Joyce Goff, husband and wife	SWN Production Company, LLC	16.00%	166A/916
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		182A/825
Joyce Ann Lemasters, a widow	SWN Production Company, LLC	18.00%	234A/593
Joseph Matthew Stocklash & Rhonda Stocklash, husband and wife	SWN Production Company, LLC	16.00%	168A/627
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Jonathan S. Lemasters, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	236A/345
Jonathan Kent Wood, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	284A/625
Jonah Schartiger, a single man	SWN Production Company, LLC	18.00%	246A/920

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EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

John K. Hill, a married man, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	201A/773
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409
John David Rush and Judith Rush, husband and wife	SWN Production Company, LLC	16.00%	166A/904
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		178A/221
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		182A/825
Joan L. Lemley, a widow	SWN Production Company, LLC	15.00%	289A/318
Jerrold A. Franzl and Deborah L. Franzl, husband and wife	SWN Production Company, LLC	18.00%	232A/56
Jay Howard Millard, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	231A/338
Jason James Blake and Sarah E. Cobbs, husband and wife	SWN Production Company, LLC	18.00%	225A/786
James C. Withrow and Rizaline A. Withrow, husband and wife	SWN Production Company, LLC	15.00%	283A/142
James R. Jackson, a single man	SWN Production Company, LLC	18.00%	227A/735
James Jim Burton and Tammy Lynn Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/445
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
James H. Rush & Jane A. Rush, husband and wife	SWN Production Company, LLC	15.00%	289A/303
James F. Snider, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	223A/653
Jack D. White, a single man	SWN Production Company, LLC	18.00%	232A/355
Holly Hall Hatley, a single woman	SWN Production Company, LLC	18.00%	238A/22
Harold R. Lemasters, Jr., a widower	SWN Production Company, LLC	18.00%	240A/6
Harlan C. Wood	SWN Production Company, LLC	16.00%	166A/901
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		178A/221
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		182A/825
Guy Elery Hawkins, a single man	SWN Production Company, LLC	16.00%	170A/469
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		182A/825
Gregory Paul Wood, a single man	SWN Production Company, LLC	15.00%	284A/620
Geraldine Anne Jackson, a single woman	SWN Production Company, LLC	15.00%	283A/116
Gerald Brett Hawkins and Julie A. Hawkins, husband and wife	SWN Production Company, LLC	16.00%	168A/624
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
George Thomas Sapp, a single man	SWN Production Company, LLC	18.00%	233A/556
Gary Deffenbaugh and Virginia M. Deffenbaugh, husband and wife	SWN Production Company, LLC	18.00%	237A/190
Gale Lee Hall, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	247A/904
Gail G. Allen, a single woman	SWN Production Company, LLC	18.00%	308A/597
Frank Anthony Stocklask, a single man	SWN Production Company, LLC	16.00%	167A/427
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Kermit E. Persinger and Frances Persinger, husband and wife	SWN Production Company, LLC	16.00%	167A/454
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Edith A. Douglas, a widow	SWN Production Company, LLC	18.00%	230A/529
Douglas Edward Wood & Shelly Lynn Wood, husband and wife	SWN Production Company, LLC	18.00%	222A/774
Douglas Charles Wood, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	289A/308
Donna Sue Stevenson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	229A/716
Donna L. Rattigan, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	289A/313
Diana Whittlatch and Sam E. Whittlatch, wife and husband	SWN Production Company, LLC	16.00%	167A/466
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544
Dennis D. Schopper, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	233A/583
Deborah Lamp, a single woman	SWN Production Company, LLC	18.00%	237A/166
Deborah L. Gardner, a single woman	SWN Production Company, LLC	15.00%	290A/77
Deborah E. Hall-Ryan, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	237A/196
Deborah D. Fisher, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	233A/209
David Russell Sauder and Amy S. Sauder, husband and wife	SWN Production Company, LLC	18.00%	232A/361
David M. Carter, a widower	SWN Production Company, LLC	18.00%	239A/542
David B. Scharfger & Karla R. Scharfger, husband and wife	SWN Production Company, LLC	18.00%	230A/523
David A. Gaddis, a single man	SWN Production Company, LLC	15.00%	293A/433
Danny L. Lemasters, a married men dealing in his sole and separate property	SWN Production Company, LLC	18.00%	203A/50
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409

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EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Dana Beth Oakland, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	199A/505			
Dale F. Sapp, a single man	SWN Production Company, LLC	18.00%	232A/50			
Corinda Kay Nail, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	206A/576			
Cindy L. Volanty f/k/a Cindy Lou Lemasters, a single woman	SWN Production Company, LLC	18.00%	236A/687			
Christy Holmes and Danny L. Holmes, husband and wife	SWN Production Company, LLC	16.00%	167A/448			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544			
Christopher Thomas Wood, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	248A/620			
Chelsea Oakland, a single woman	SWN Production Company, LLC	18.00%	200A/547			
SWN Production Company, LLC	Equinor USA Onshore Properties, Inc.		228A/409			
Charles R. White, a/k/a Charles Robert White	SWN Production Company, LLC	18.00%	232A/68			
Charlene I. Robbin f/k/a Charlene I. Kraft and Mark B. Robbin, wife and husband	SWN Production Company, LLC	18.00%	235A/459			
Chad K. Shartiger	SWN Production Company, LLC	18.00%	238A/800			
Carol J. Brownlee, a single woman	SWN Production Company, LLC	18.00%	223A/671			
Carol E. Garrett, a single woman	SWN Production Company, LLC	18.00%	308A/602			
Brittany D. Crow, a single woman	SWN Production Company, LLC	18.00%	249A/763			
Brianne Nicole Wood, a single woman	SWN Production Company, LLC	15.00%	304A/346			
Brian Keith Lemasters, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	237A/184			
Bret Stiffler, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	224A/490			
Brenda K. Ebert, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	236A/351			
Alfred Burns and Belinda Burns, husband and wife	SWN Production Company, LLC	16.00%	166A/907			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		186A/240			
Beatrice Irene Morelock, a single woman	SWN Production Company, LLC	16.00%	245A/410			
April Lea Fluharty, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	287A/888			
Anne Deepak, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	248A/662			
Amanda M. Lopez and Jesus G. Lopez, wife and husband	SWN Production Company, LLC	18.00%	239A/668			
Allen J. Hall, a single man	SWN Production Company, LLC	18.00%	237A/831			
Alfred Burton and Linda A. Burton, husband and wife	SWN Production Company, LLC	16.00%	167A/439			
SWN Production Company, LLC	Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties, Inc.)		174A/544			
7	1-10-33 pt. A	Royalty Owner	N/A	N/A	N/A	0.2760%
Christopher S. Burbridge, a single man	SWN Production Company, LLC	16.00%	251A/451			
Marilyn Jane Erwin a/k/a Jane Erwin, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	249A/781			
Willard C. Border, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	250A/247			
Jacquelyn Anne Moniak, a widow	SWN Production Company, LLC	15.00%	250A/242			
Roberta Eileen Hart, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	249A/183			
Kyle J. Burbridge, a single man	SWN Production Company, LLC	16.00%	251A/445			
Bradley D. Morris, a single man	SWN Production Company, LLC	18.00%	252A/43			
Rachel M. Yoho, a/k/a Rachel Yoho Markin, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	251A/457			
Waylen E. Whitaker, a widower	SWN Production Company, LLC	15.00%	252A/647			
Arland J. Pearce & Helen S. Pearce, husband and wife	SWN Production Company, LLC	18.00%	252A/25			
Tammy L. Lewis, f/k/a Tammy L. Pearce, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/167			
Cody Alan Pearce, a minor, by David C. White, Esq., as Special Commissioner	SWN Production Company, LLC	18.00%	253A/570			
Jared L. Broyles f/k/a Jared L. Pearce, a single man	SWN Production Company, LLC	15.00%	249A/189			
Michael Allen Pearce, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	252A/851			
Linda J. Hughes, a single woman	SWN Production Company, LLC	18.00%	252A/31			
Tribune Resources, LLC	SWN Production Company, LLC	18.00%	248A/122			
Tawni L. DeCarlo, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	252A/70			
Scott W. Whitaker, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	252A/37			
Keri L. Mock, a married woman dealing in her sole and separate property	SWN Production Company, LLC	16.00%	252A/64			
Robert M. White, a single man	SWN Production Company, LLC	15.00%	249A/769			
Danielle White, a single woman	SWN Production Company, LLC	15.00%	249A/171			
Leslie D. White, a single woman	SWN Production Company, LLC	15.00%	249A/177			
Kristy N. Callich, a single woman	SWN Production Company, LLC	15.00%	249A/775			

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WV Department of Environmental Protection



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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, L.L.C. as Operator  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Arbor Mineral Company, a Wyoming limited liability company	SWN Production Company, LLC	17.00%	252A/13
FTC, LLC, a Wyoming limited liability company	SWN Production Company, LLC	17.00%	252A/19
Lost River Trading Company, LLC, a Wyoming limited liability company	SWN Production Company, LLC	17.00%	252A/7
Three Rivers Royalty II, LLC, Tiffany Culp - VP Land & Legal	SWN Production Company, LLC	18.00%	250A/670
Linda Berlin, f/k/a Linda Berlin-Lyons, a single woman	SWN Production Company, LLC	18.00%	252A/863
Andrew Alan Berlin, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	252A/857
Stephen Thomas Lewin-Berlin, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	252A/869
Bonnie Quist Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	164A/528 178A/634
Fred L. Jones, Jr. Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	164A/550 178A/634
Andrew F. Smith Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	165A/169 178A/634
Angie L. Balogh Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	165A/758 178A/634
Janice Miller Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/466 178A/634
Patsy Rayburn Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/468 178A/634
Michael Jones Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/470 178A/634
Renee McConky Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/472 178A/634
Sandra Brace Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/563 178A/634
Caroline Haenszel and Robert Haenszel, husband and wife Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/565 178A/634
William Thomas Schrader Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	168A/194 178A/634
George Bridgewater III and Carmen Bridgewater, husband and wife Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	168A/198 178A/634
Donald L. Schrader Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	168A/204 178A/634
Denise Jones, a widow Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	18.00%	169A/298 178A/634
Lynn Poor Snowden, widow Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	171A/206 178A/634
William Joshua Schrader Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	172A/289 178A/634
Drilling Appalachian Corporation Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	16.00%	173A/196 178A/634
Charles L. Inman, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	253A/193
David L. Strosnider, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	253A/199
David M. Strosnider & Deborah M. Strosnider, husband and wife	SWN Production Company, LLC	18.00%	253A/180
Shirley Strosnider, a widow	SWN Production Company, LLC	18.00%	253A/187
Linda Bacon, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/173
Debra M. Kemp, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	235A/161
Diana L. Arnold, a single woman	SWN Production Company, LLC	18.00%	253A/149
Rhonda J. Dominguez, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/155
Virginia M. Lee Ledoux, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/143
Cheryl S. Young, a widow	SWN Production Company, LLC	18.00%	253A/182

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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, L.L.C., as Operator  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

		Janice A. Adams, a/k/a Jan A. Adams, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/501	
		Kerri A. Strosnider, a widow and not remarried	SWN Production Company, LLC	18.00%	253A/576	
		Lois Sharrard, a widow	SWN Production Company, LLC	18.00%	253A/495	
		William J. Burbridge, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	253A/489	
		Terea J. Capers, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/132	
		Lorraine S. Strosnider, a single woman	SWN Production Company, LLC	18.00%	253A/583	
		Stephen A. Coombs Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	253A/553 262A/290	
		Thomas S. Harper	SWN Production Company, LLC	18.00%	254A/647	
		Morgan Yoho Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/123 262A/290	
		Andrew Yoho Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/126 262A/290	
		Angela Robertson Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	257A/412 262A/290	
		Danny Yoho Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/117 262A/290	
7	1-10-33 pt. B	Royalty Owner(s)	N/A	N/A	N/A	0.2760%
		Christopher S. Burbridge, a single man	SWN Production Company, LLC	16.00%	251A/451	
		Marilyn Jane Erwin a/k/a Jane Erwin, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	249A/781	
		Willard C. Border, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	250A/247	
		Jacquelyn Anne Moniak, a widow	SWN Production Company, LLC	15.00%	250A/242	
		Roberta Eileen Hart, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	249A/183	
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		Tammy L. Lewis, f/k/a Tammy L. Pearce, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/167	
		Cody Alan Pearce, a minor, by David C. White, Esq., as Special Commissioner	SWN Production Company, LLC	18.00%	253A/570	
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		Tribune Resources, LLC	SWN Production Company, LLC	18.00%	248A/122	
		Tawni L. DeCarlo, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	252A/70	
		Scott W. Whitaker, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	252A/37	
		Keri L. Mock, a married woman dealing in her sole and separate property	SWN Production Company, LLC	16.00%	252A/64	
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		Leslie D. White, a single woman	SWN Production Company, LLC	15.00%	249A/177	
		Kristy N. Callich, a single woman	SWN Production Company, LLC	15.00%	249A/775	
		Arbor Mineral Company, a Wyoming limited liability company	SWN Production Company, LLC	17.00%	252A/13	
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		Stephen Thomas Lewin-Berlin, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	252A/869	
		Bonnie Quist Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	164A/528 178A/634	
		Fred L. Jones, Jr.	Drilling Appalachian Corporation	15.00%	164A/550	

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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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Drilling Appalachian Corporation	SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.		178A/634
Andrew F. Smith Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	165A/169 178A/634
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Janice Miller Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	166A/466 178A/634
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George Bridgewater III and Carmen Bridgewater, husband and wife Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	168A/198 178A/634
Donald L. Schrader Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	168A/204 178A/634
Denise Jones, a widow Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	18.00%	169A/298 178A/634
Lynn Poor Snowden, widow Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.000%	171A/206 178A/634
William Joshua Schrader Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	15.00%	172A/289 178A/634
Drilling Appalachian Corporation Drilling Appalachian Corporation	Drilling Appalachian Corporation SWN Production Company, LLC and Statoil USA Onshore Properties, Inc.	16.00%	173A/196 178A/634
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David L. Strosnider, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	253A/199
David M. Strosnider & Deborah M. Strosnider, husband and wife	SWN Production Company, LLC	18.00%	253A/180
Shirley Strosnider, a widow	SWN Production Company, LLC	18.00%	253A/187
Linda Bacon, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/173
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Virginia M. Lee Ledoux, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/143
Cheryl S. Young, a widow	SWN Production Company, LLC	18.000%	253A/483
Janice A. Adams, a/k/a Jan A. Adams, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/501
Kemi A. Strosnider, a widow and not remarried	SWN Production Company, LLC	18.00%	253A/576
Lois Sharrard, a widow	SWN Production Company, LLC	18.00%	253A/495
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Terea J. Capers, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	253A/132
Lorraine S. Strosnider, a single woman	SWN Production Company, LLC	18.00%	253A/583
Stephen A. Coombs Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	253A/553 262A/290
Thomas S. Harper Morgan Yoho Antero Resources Corporation	SWN Production Company, LLC Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/581 254A/123 262A/290
Andrew Yoho Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/126 262A/290

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 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

		Angela Robertson Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	257A/412 262A/290	
		Danny Yoho Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties	18.00%	254A/117 262A/290	
8	1-10-34	<b>Royalty Owner(s)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>9.1667%</b>
		Terry A. Moore Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	172A/562 179A/300 272A/588	
		Teresa Utt Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	171A/189 179A/300 272A/588	
		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC and Statoil USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation  Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	12.5000%	166A/931 174A/480  179A/300 272A/588	
		Sarah Darlene Gross a/k/a Sarah Darlene Midcap	SWN Production Company, LLC	18.0000%	309A/756	
		Roger Leroy Midcap Sr	SWN Production Company, LLC	18.0000%	309A/761	
		Ricky D. Winland, a single man	SWN Production Company, LLC	15.0000%	303A/431	
		Ralph G. Preston, a single man	SWN Production Company, LLC	15.0000%	289A/293	
		Rachel Rickman Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	172A/299 179A/300 272A/588	
		Piney Holdings, Inc.	SWN Production Company, LLC	20.0000%	295A/204	
		Pamela J. Rigenbach and Leslie Rigenbach  Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation  Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	159A/377  179A/300 272A/588	
		BRC Appalachian Minerals I LLC and BRC Minerals LP  BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C.  Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc.  SWN Production Company, LLC and Statoil USA Onshore Properties Inc. Drilling Appalachian Corporation Antero Resources Corporation	BRC Working Interest Company LLC  Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. (now Equinor USA Onshore Properties Inc.) SWN Production Company, LLC SWN Exchange Titleholder, LLC (now SWN Production Company, LLC) Drilling Appalachian Corporation  Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	12.8750%	102A/505; 103A/320 103A/470 120A/109  157A/540 158A/801  174A/480  179A/300 272A/588	
		Mark L. Preston, single	SWN Production Company, LLC	15.0000%	278A/693	
		Margaret E. Derby Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	171A/200 179A/300 272A/588	
		Linda Sue Brady a/k/a Linda Sue Midcap, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.0000%	309A/781	
		Johnnie Lee Midcap	SWN Production Company, LLC	18.0000%	309A/776	
		John W. Moore, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.0000%	308A/556	
		John David Winland, a single man	SWN Production Company, LLC	15.0000%	302A/260	
		James R. Moore Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	172A/295 179A/300 272A/588	
		James Edward Midcap, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.0000%	309A/766	
		Harley A. Moore Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	172A/552 179A/300 272A/588	
		Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.		179A/300 272A/588	
		Daria R. Merckle Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC, and Equinor USA Onshore Properties, Inc.	15.0000%	160A/561 179A/300 272A/588	
		Billy Joe Midcap	SWN Production Company, LLC	18.0000%	309A/771	
		Belva J. Morris, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.0000%	289A/344	
9	1-10-35	<b>Royalty Owner (subject to unitization filing dated March 3, 2023)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>42.8696%</b>
		Yvonne M. Smith Drilling Appalachian Corporation	Drilling Appalachian Corporation Antero Resources Corporation	18.00%	174A/372 179A/300	

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EXHIBIT "A"

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  
 William Ritchea WIZ 210H  
 Wetzel County, West Virginia

Antero Resources Corporation	SWN Production Company, LLC		272A/588
Yohna McPeek	Drilling Appalachian Corporation	15.00%	173A/655
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Frederick M. Dean Rohrig, as Special Commissioner for and on behalf of John C. Wilson, D. Joan Martino, Lewis Yeater, William L. McPeek, Emma L. Newhouse, Lawrence McPeek, Rebecca L. Lash, Mary A. Vance, Willa L. Yeater, Genevieve K. Davis, Larry W. Yeater, The William J. Vest Trust Agreement dated July 16, 2001, Larry W. Yeater, Trustee, Jennifer Yeater, Black Gold Group Ltd., Jenny Miller, Gloria Miller, Russell Yeater, Edward Yeater, Betty Johnson, Aiyana Lyster, Ommani Lyster, Acacia Lyster, Arch Albert Conner, Harold Yeater, Walter Wellman, Edna Ruckman, Lulu Reck, Madelyn E. Mosser (formerly Pennington), John W. Heath, William K. Heath, T and D Corporation, or successor, Francis Quigley, Gregory Steinhart, William G. Yeater, their missing, unknown, and abandoning heirs, successors and assigns, pursuant to action in the Circuit Court of Wetzel County, styled <i>Drilling Appalachian Corporation vs. Shiben Estates, Inc. et al.</i> Civil Action No. 17-C-33	Drilling Appalachian Corporation	15.00%	208A/92
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Emily K. Yeater Rulong	Drilling Appalachian Corporation	17.00%	174A/746
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
William C. Atwell	Drilling Appalachian Corporation	15.00%	174A/381
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
William Bernard Yeater a/k/a Bernard Yeater, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	308A/433
Arthur Workman and Vera Shirlene Workman, husband and wife	Drilling Appalachian Corporation	16.50%	165A/183
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
John K. Otto	Drilling Appalachian Corporation	15.00%	175A/173
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Timothy Wayne Anderson	Drilling Appalachian Corporation	15.00%	174A/204
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Timothy Hinkle & Shannon Hinkle, husband and wife	Drilling Appalachian Corporation	15.00%	174A/750
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Three Rivers Royalty II, LLC, Tiffany Culp - VP Land & Legal	SWN Production Company, LLC	18.00%	294A/99
Three Rivers Royalty II, LLC, Tiffany Culp - VP Land & Legal	SWN Production Company, LLC	18.00%	300A/312
Rodney Chester Lowe and Virginia Ann Lowe, husband and wife	Drilling Appalachian Corporation	15.00%	174A/758
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Robert Mock and Judith Mock, husband and wife	Drilling Appalachian Corporation	15.00%	174A/764
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
June Ann Reid	Drilling Appalachian Corporation	15.00%	174A/770
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Rosemary Lunemann	Drilling Appalachian Corporation	15.00%	173A/557
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Terry W. Yeater	Drilling Appalachian Corporation	15.00%	182A/529
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Terry W. Kittle and Deborah Kittle, husband and wife	Drilling Appalachian Corporation	15.00%	174A/768
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Terrie L. Lausin, a single woman	SWN Production Company, LLC	15.00%	307A/362
Richard Lee Parrish and Teri Lee Parrish, husband and wife	Drilling Appalachian Corporation	15.00%	165A/778
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Susan Inclan & Joseph C. Inclan	Drilling Appalachian Corporation	18.00%	177A/527
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300

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EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Antero Resources Corporation	SWN Production Company, LLC		272A/588
Living Trust of Harold L. Yeater, dated January 29, 1999, Stephen L. Yeater, Co-Trustee	Drilling Appalachian Corporation	15.00%	174A/867
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Shiben Estates, Inc., a West Virginia Corporation	SWN Production Company, LLC	20.00%	266A/253
Shelly Yeater	Drilling Appalachian Corporation	18.00%	177A/521
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
John Edward Yeater and Sharon Lynn Yeater, husband and wife	Drilling Appalachian Corporation	17.00%	177A/523
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Sharon L. Yeater	Drilling Appalachian Corporation	15.00%	181A/38
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Conrad Sherwood Yeater	Drilling Appalachian Corporation	15.00%	174A/219
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Scott C. Harris and Carolyn R. Harris, husband and wife	SWN Production Company, LLC	17.00%	304A/351
Sandy Cumpston	Drilling Appalachian Corporation	15.00%	174A/202
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Sandra C. Koontz	Drilling Appalachian Corporation	15.00%	174A/354
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Ruth Ann Yeater	Drilling Appalachian Corporation	18.00%	174A/857
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Robert C. Aspley	Drilling Appalachian Corporation	15.00%	173A/555
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Ricky A. Yeater	Drilling Appalachian Corporation	15.00%	181A/188
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Shirley Gbur	Drilling Appalachian Corporation	15.00%	174A/402
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Recon Resources, LLC, a Texas Limited Liability Company d/b/a Recon royalties	Antero Resources Corporation	15.00%	190A/3
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Rebecca J. Norris	Drilling Appalachian Corporation	15.00%	174A/216
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Rebecca Ann Maley	Drilling Appalachian Corporation	15.00%	174A/352
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Rachel Anne Yeater, single	Drilling Appalachian Corporation	15.00%	165A/185
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Nancy Truex	Drilling Appalachian Corporation	17.00%	181A/60
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Chester Holloway and Nancy Holloway, husband and wife	Drilling Appalachian Corporation	15.00%	174A/348
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Nancy J. Foti	Drilling Appalachian Corporation	15.00%	174A/871
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Monica A. Renn	Drilling Appalachian Corporation	18.00%	174A/375
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Melissa Schroth	Drilling Appalachian Corporation	15.00%	173A/653
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Melissa Mae Bungard, a single woman	SWN Production Company, LLC	18.00%	311A/443
Beatrice Joan Yeater Knight	Drilling Appalachian Corporation	17.00%	174A/396
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Mary B. Jones	Drilling Appalachian Corporation	15.00%	174A/861
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Martha Carol Grimes	Drilling Appalachian Corporation	15.00%	178A/380
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Marguerite Harbison	Drilling Appalachian Corporation	15.00%	173A/661
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Linda K. Morris Wilson	Drilling Appalachian Corporation	15.00%	174A/756
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Mark Hunt	Drilling Appalachian Corporation	15.00%	174A/370
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300

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EXHIBIT "A"

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  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Antero Resources Corporation	SWN Production Company, LLC		272A/588
James Mark Edwards and Marilyn S. Edwards, husband and wife	Drilling Appalachian Corporation	15.00%	174A/206
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Casey Couch and Marian Blair Couch, husband and wife	Drilling Appalachian Corporation	15.00%	174A/744
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Mackie R. Roberts, a widower	SWN Production Company, LLC	15.00%	283A/152
Lisa Marquart	Drilling Appalachian Corporation	18.00%	175A/176
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Lewis W. Otto	Drilling Appalachian Corporation	15.00%	176A/593
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Leonard O. Haberbosch	Drilling Appalachian Corporation	15.00%	166A/569
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Laurie A. Shepard	Drilling Appalachian Corporation	15.00%	173A/620
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kimeric and Company, LLC	Drilling Appalachian Corporation	16.00%	206A/584
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kim L. Hawkins	Drilling Appalachian Corporation	15.00%	174A/400
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kelly Kern	Drilling Appalachian Corporation	15.00%	174A/404
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kathy Albright	Drilling Appalachian Corporation	15.00%	174A/356
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Kathryn L. Miller & Thomas F. Miller, wife and husband	SWN Production Company, LLC	15.00%	287A/852
Kathleen I. Francis	Drilling Appalachian Corporation	15.00%	202A/642
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Ralph E. Jones and Karen Y. Jones, husband and wife	Drilling Appalachian Corporation	15.00%	165A/181
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Judy C. Parrish, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	289A/351
Joseph Wilson	Drilling Appalachian Corporation	15.00%	189A/311
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Joseph Leroy Kittle	Drilling Appalachian Corporation	15.00%	166A/495
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
John Michael Bungard, a single man	SWN Production Company, LLC	18.00%	311A/449
John C. Frame	Drilling Appalachian Corporation	15.00%	174A/350
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
JoAnn Davis	Drilling Appalachian Corporation	15.00%	201A/288
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Jill Wilging	Drilling Appalachian Corporation	15.00%	199A/903
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Jeffrey Wilson	Drilling Appalachian Corporation	15.00%	189A/309
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Jeffrey A. Lausin	SWN Production Company, LLC	18.00%	312A/404
Jeanetta M. Heath	Drilling Appalachian Corporation	15.00%	202A/648
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Jean M. Shepard	Drilling Appalachian Corporation	15.00%	173A/622
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
Janet Hilpert	Drilling Appalachian Corporation	15.00%	181A/62
Drilling Appalachian Corporation	Antero Resources Corporation		186A/150
Antero Resources Corporation	SWN Production Company, LLC		272A/588
James W. Shepard	Drilling Appalachian Corporation	15.00%	173A/647
Drilling Appalachian Corporation	Antero Resources Corporation		179A/300
Antero Resources Corporation	SWN Production Company, LLC		272A/588
James S. Wilson and Ann D. Wilson, husband and wife	Drilling Appalachian Corporation	15.00%	195A/900
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
James Lawrence Reid and Sherry Lynn Reid, husband and wife	Drilling Appalachian Corporation	15.00%	189A/313
Drilling Appalachian Corporation	Antero Resources Corporation		215A/930
Antero Resources Corporation	SWN Production Company, LLC		272A/588
James Jeffrey Yeater	Drilling Appalachian Corporation	17.00%	174A/213

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 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

Drilling Appalachian Corporation Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC		179A/300 272A/588
James Earnshaw Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	202A/182 215A/930 272A/588
Hubert Morris Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	166A/501 179A/300 272A/588
Hester Loretta Dugan Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	174A/408 179A/300 272A/588
Janice F. Brookover, a widow Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	202A/644 215A/930 272A/588
Harold P. Richmond Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	17.00%	181A/56 186A/150 272A/588
Gerald E. Yeater, aka Elvin Yeater Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	174A/406 179A/300 272A/588
Gerald B. Jones Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	174A/748 179A/300 272A/588
George T. Gale, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	15.00%	283A/189
Frederick M. Yeater & Sheri Yeater, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	172A/584 179A/300 272A/588
Donald Rex Quigley and Ellen M. Quigley, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	177A/511 186A/150 272A/588
Harry B. Snyder and Elizabeth J. Snyder, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	165A/193 179A/300 272A/588
Drilling Appalachian Corporation Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	18.75%	215A/447 179A/300 272A/588
Donna S. Richmond Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	17.00%	181A/58 186A/150 272A/588
Donald B. Wesley & Susan J. Wesley, as Joint Tenants with Right of Survivorship Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	166A/474 179A/300 272A/588
Diana S. Grafton & Timothy Grafton, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	169A/302 179A/300 272A/588
Dawn Wrezinski Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	173A/635 179A/300 272A/588
David Paul Resources, LLC Antero Resources Corporation	Antero Resources Corporation SWN Production Company, LLC	15.00%	189A/925 272A/588
David L. Gale & Jan Gale, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	176A/591 179A/300 272A/588
David Eugene Bungard, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	311A/455
David E. Lowe and Sharon K. Lowe, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	174A/760 179A/300 272A/588
Darrel Yeater Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	182A/54 186A/150 272A/588
James Canfield Kline and Cynthia Lynn Kline, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	174A/754 179A/300 272A/588
Colleen Heath McClain Moore a/k/a Colleen H. McClain, widow Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	165A/765 179A/300 272A/588
Michael B. Shepard Drilling Appalachian Corporation Antero Resources Corporation	Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	173A/633 179A/300 272A/588
Christina L. Cair, a single woman Cheryl VanPelt	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	308A/59 176A/881 179A/300 272A/588
Carolyn Jane Weller, a single woman James H. Cunningham and Carlene Kay Yeater Cunningham, husband and wife Drilling Appalachian Corporation Antero Resources Corporation	SWN Production Company, LLC Drilling Appalachian Corporation Antero Resources Corporation SWN Production Company, LLC	15.00%	290A/110 177A/531 180A/73 272A/588

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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, L.L.C., as Operator  
 EXHIBIT "A"  
 William Ritchea WTZ 210H  
 Wetzel County, West Virginia

10	1-10-49	0.00000%	0.00000%	18.0000%	310A/759
Brett J. Lausin, a single man	SWN Production Company, LLC	18.0000%	18.0000%	174A/208	
Barbara Persinger	Drilling Appalachian Corporation	15.0000%	15.0000%	179A/300	
Drilling Appalachian Corporation	Antero Resources Corporation			272A/588	
Antero Resources Corporation	SWN Production Company, LLC			202A/646	
Barbara L. Barnhart & Walter Barnhart, husband and wife	Drilling Appalachian Corporation	15.0000%	15.0000%	215A/930	
wife	Antero Resources Corporation			272A/588	
Drilling Appalachian Corporation	SWN Production Company, LLC			202A/640	
Antero Resources Corporation	SWN Production Company, LLC			215A/930	
Arelena B. Horner & Quay A. Horner, husband and wife	Drilling Appalachian Corporation	15.0000%	15.0000%	272A/588	
wife	Antero Resources Corporation			Pending	
Drilling Appalachian Corporation	SWN Production Company, LLC			317A/282	
Antero Resources Corporation	SWN Production Company, LLC			317A/276	
Carolyn Ann Gale	SWN Production Company, LLC	18.0000%	18.0000%	138A/708	
Linda Sue Frail	SWN Production Company, LLC	18.0000%	18.0000%	179A/300	
Thomas Vernon Anderson	SWN Production Company, LLC	18.0000%	18.0000%	272A/588	
Thelma Neil Palmer	Drilling Appalachian Corporation	15.00000%	15.00000%	134A/933	
Drilling Appalachian Corporation	Antero Resources Corporation			179A/300	
Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA			272A/588	
Sharon L. Burton	Onshore Properties, Inc.	15.00000%	15.00000%	135A/229	
Drilling Appalachian Corporation	Drilling Appalachian Corporation			179A/300	
Antero Resources Corporation	Antero Resources Corporation			272A/588	
Lisa M. Beers	SWN Production Company, LLC, and Equinor USA	15.00000%	15.00000%	126A/155	
Drilling Appalachian Corporation	Onshore Properties, Inc.			179A/300	
Antero Resources Corporation	Drilling Appalachian Corporation			272A/588	
Rock Camp Oil Co., and Telluric Company	Antero Resources Corporation	15.00000%	15.00000%	135A/209	
Drilling Appalachian Corporation	SWN Production Company, LLC, and Equinor USA			179A/300	
Antero Resources Corporation	Onshore Properties, Inc.			272A/588	
Darla F. Palmer	Drilling Appalachian Corporation	15.00000%	15.00000%	136A/101	
Drilling Appalachian Corporation	Antero Resources Corporation			179A/300	
Antero Resources Corporation	SWN Production Company, LLC, and Equinor USA			272A/588	
Christopher F. Palmer	Onshore Properties, Inc.	15.00000%	15.00000%	136A/91	
Drilling Appalachian Corporation	Drilling Appalachian Corporation			179A/300	
Antero Resources Corporation	Antero Resources Corporation			272A/588	
Anita L. Croghan	SWN Production Company, LLC, and Equinor USA	15.00000%	15.00000%	136A/91	
Drilling Appalachian Corporation	Onshore Properties, Inc.			179A/300	
Antero Resources Corporation	Drilling Appalachian Corporation			272A/588	
Three Rivers Royalty II, LLC, Tiffany Culp - VP Land & Legal	Antero Resources Corporation	18.00000%	18.00000%	287A/910	
	SWN Production Company, LLC				

04/21/2023  
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 Office of Oil and Gas  
 APR 18 2023  
 WV Department of  
 Environmental Protection



4710303575

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

March 3, 2023

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

**RE:** SWN's proposed New Well: William Ritchea WTZ 210H in Wetzel County, West Virginia, Drilling under Carney Fork Road and Fairview Ridge Road.

Dear Mr Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Carney Fork Road and Fairview Ridge Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Ian R. Nicas  
Staff Landman  
SWN Production Company, LLC

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

04/21/2023

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

Date of Notice Certification: 3/13

API No. 47- 009 -  
Operator's Well No. William Ritchea WTZ 210H  
Well Pad Name: William Ritchea 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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>529,209,263</u>
County: <u>103-Wetzel</u>	UTM NAD 83 Northing: <u>4,391,135,903</u>
District: <u>Proctor</u>	Public Road Access: <u>Harlan Ridge Road</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>William Ritchea</u>
Watershed: <u>Fish Creek</u>	

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

\*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

**OOG OFFICE USE ONLY**

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

RECEIVED  
Office of Oil and Gas  
APR 13 2023  
WV Department of  
Environmental Protection

**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.

04/21/2023

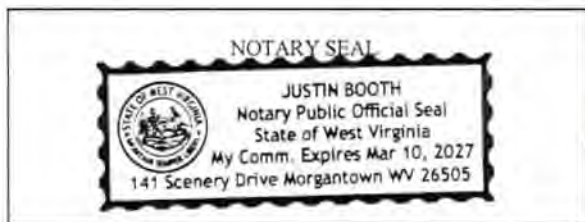
4710303375

**Certification of Notice is hereby given:**

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

Well Operator: SWN Production Co., LLC  
By: Brittany Woody  
Its: Senior Regulatory Analyst  
Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: \_\_\_\_\_  
Email: Brittany\_Woody@swn.com



Subscribed and sworn before me this 28<sup>th</sup> day of FEBRUARY 2023.

[Signature] Notary Public

My Commission Expires 3/10/2027

**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](mailto:depprivacyofficer@wv.gov).

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

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

Date of Notice: 3/13 Date Permit Application Filed: 3/13

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 SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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)  
Name: William & Shirley Ritchea  
Address: 12283 Proctor Creek Road  
New Martinsville, WV

COAL OWNER OR LESSEE  
Name: C/O Leatherwood Attn: Casey Saunders  
Address: 275 Technology Drive  
Canonsburg, PA 15317

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: None  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary.

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A 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

04/21/2023

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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

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

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

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

### **Comment Requirements**

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

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

### **Permit Denial or Condition**

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

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

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

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



WW-6A  
(8-13)

47-103-03575  
API NO. 47-103-03575  
OPERATOR WELL NO. William Ritchea WTZ 210H  
Well Pad Name: William Ritchea WTZ

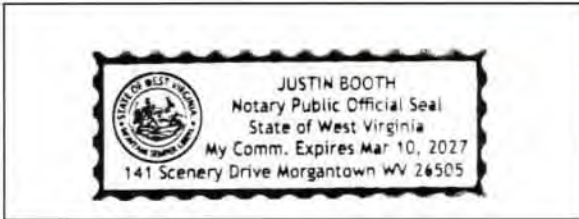
**Notice is hereby given by:**

Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com

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

**Oil and Gas Privacy Notice:**

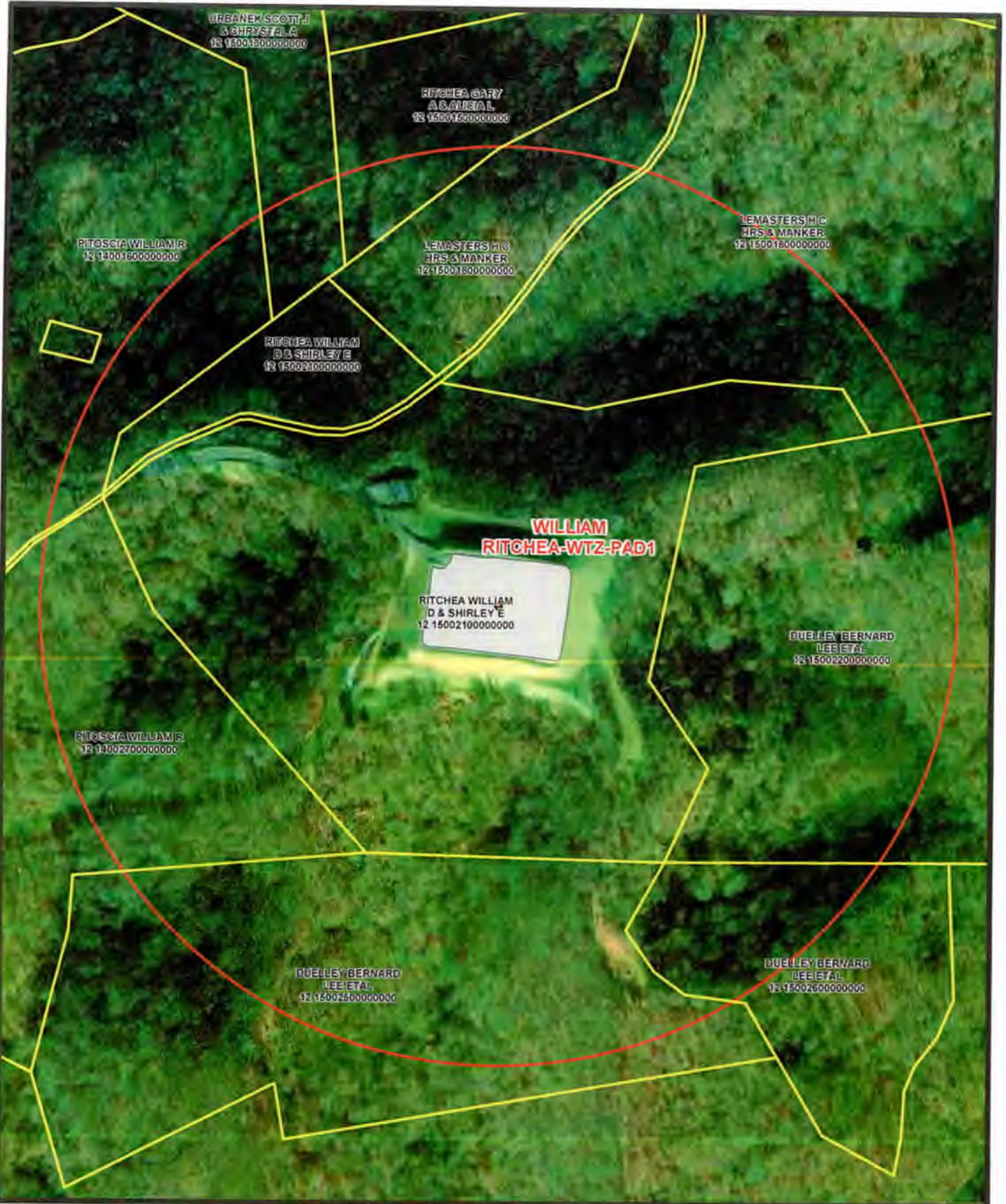
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 28<sup>th</sup> day of FEBRUARY 2023.

[Signature] Notary Public

My Commission Expires 3/10/2027



**WILLIAM RITCHEA-WTZ-PAD1**  
 RITCHEA WILLIAM D & SHIRLEY E  
 12 15002100000000

UREANER SCOTT J & CRYSTAL A  
 12 15001300000000

RITCHEA GARY A & ALICIA L  
 12 15001600000000

LEMASTERS H C HRS & MANKER  
 12 15001800000000

PITOSCIA WILLIAM R  
 12 14001600000000

LEMASTERS H C HRS & MANKER  
 12 15001800000000

RITCHEA WILLIAM D & SHIRLEY E  
 12 15002100000000

BUELLEY BERNARD LEE ETAL  
 12 15002200000000

RITOSCIA WILLIAM R  
 12 14002700000000

BUELLEY BERNARD LEE ETAL  
 12 15002300000000

BUELLEY BERNARD LEE ETAL  
 12 15002600000000

1 in = 417 ft

Coordinate System: NAD 1983 UTM Zone 17N  
 Units: Meter

S Spring    □ Parcel  
 W Water Well    □ 1500' Buffer  
 P Pond

**Coordinates: 39.669547, -80.659219**

Water Purveyor Map  
 Well Pad: William Ritchea  
 County: WTZ

**SWN** *R<sup>+</sup> V<sup>+</sup>*  
 Southwestern Energy

**04/21/2023**

Date: 1/8/2020    Author: willisb

451010000

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-10(b)

- 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 complete any plat surveys required pursuant to this article...

SURFACE OWNER(s)

Name: William & Shirley Ritchea
Address: 12263 Proctor Creek Road
New Martinsville, WV 26155

COAL OWNER OR LESSEE

Name: C/O Leatherwood Attr: Casey Saunders
Address: 275 Technology Drive Suite 101
Corryton, GA 30212-0585

MINERAL OWNER(s)

Name: William & Shirley Ritchea
Address: 12263 Proctor Creek Road
New Martinsville, WV 26155

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: West Virginia
County: Wetzel
District: Proctor
City/Town: Wileyville
Approx. Latitude & Longitude: 38.672670 -80.663580
Public Road Access: Harlan Ridge
Watershed: Little Fishing Creek
Operator: William Ritchea

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...

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: Brittany.Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26503
Telephone: 304-884-1690

RECEIVED
Office Of Oil and Gas
MAR 14 2023
WV Department 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...

04/21/2023

471 000 3575

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

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

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 02/18/2023 **Date Permit Application Filed:** 2/15

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

- HAND DELIVERY       CERTIFIED MAIL 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.

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

Name: William D. & Shirley E. Ritchea  
Address: 12263 Proctor Creek Rd.  
New Martinsville, WV 26155

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**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 UTM NAD 83 Easting: 529,209.263  
County: Wetzel Northing: 4,391,135.903  
District: Proctor Public Road Access: Fairview Ridge  
Quadrangle: Wileyville, WV Generally used farm name: William Ritchea  
Watershed: 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/permits/default.aspx](http://www.dep.wv.gov/oil-and-gas/permits/default.aspx).

**Notice is hereby given by:**

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

Authorized Representative: Justin Booth  
Address: 1300 Fort Pierpont Road, Suite 201  
Morgantown, WV 26508  
Telephone: 304-884-1675  
Email: Justin\_Booth@swn.com  
Facsimile: \_\_\_\_\_

**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 [depprivacyoffices@wv.gov](mailto:depprivacyoffices@wv.gov).

04/21/2023

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**STATE OF WEST VIRGINIA**  
**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:** 02/16/2023      **Date Permit Application Filed:** 2/15

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

- CERTIFIED MAIL  
RETURN RECEIPT REQUESTED
- HAND  
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: <u>William D. &amp; Shirley E. Ritchie</u>	Name: _____
Address: <u>12263 Proctor Creek Rd.</u>	Address: _____
<u>New Martinsville, WV 26155</u>	_____

**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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>529,209,263</u>
County: <u>Wetzel</u>	Northing: <u>4,391,135,903</u>
District: <u>Proctor</u>	Public Road Access: <u>Fairview Ridge</u>
Quadrangle: <u>Wileyville, WV</u>	Generally used farm name: <u>William Ritchie</u>
Watershed: <u>Fish Creek (HUC-10)</u>	

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov](http://www.dep.wv.gov).

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

**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 of your personal information, please contact DEP's Chief Privacy Officer at [dep@dep.wv.gov](mailto:dep@dep.wv.gov)

04/21/2023



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

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

Gregory L. Bailey, P.E.  
Interim  
State Highway Engineer

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

February 22, 2023

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

Subject: DOH Permit for the William Ritchea Pad, Wetzel County  
William Ritchea WTZ 210H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0618 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 1/19 SLS MP 1.77.

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,

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

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

## Attachment VI Frac Additives

4710303575

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
		Acetic Acid	64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Citric Acid	77-92-9
		Water	7732-18-5
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
		Water	7732-15-5
Plexslick 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
		Water	7732-15-5
Plexslick 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
Plexslick V996	no data available	Copolymer of 2-Propeenamide	*****
		Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohol Ethoxylate	*****
		Surfactant	*****
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride [(NH4)Cl]	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Water	7732-15-5
Tolcide 4Frac	Mixture	Phosphonium, tetrakis (hydroxymethyl), Sulfate	55566-30-8
		Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Tolcide PSS0A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
		Hydrotreated light petroleum distillate	64742-47-8
LD-2950	Friction Reducer	Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanedyl) alpha.-tridecyl.-omega.-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4
Ferriplex 80	Iron Control	Sodium erythorbate	6381-77-7
Plexaid 655 WG	Scale Inhibitor	Glycerine	67-56-1
		Water	7732-18-5
		Organic Phosphonic Acid Salts	15827-60-8

As of 9/8/2022

04/21/2023

OPERATOR: SWN Production Co., LLC WELL NO: William Ritchea WTZ 210H

PAD NAME: William Ritchea WTZ

REVIEWED BY: \_\_\_\_\_ SIGNATURE: Brittany Woody

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

*\*Pad Built 7/22/13*

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
  - DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
  - DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
  - DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions



4710303575

- SHEET INDEX**
- TS1 TITLE SHEET
  - EP2.1 EVACUATION ROUTE/ PREVALING WIND
  - EP2.2 EVACUATION ROUTE/ PREVALING WIND
  - AS3.1 ASBUILT OVERVIEW
  - AS3.2 ASBUILT
  - AS3.3 ASBUILT
  - AS3.4 ASBUILT
  - WR05.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE
  - WR05.1 RECLAMATION PLAN OVERVIEW
  - WR05.2 RECLAMATION PLAN
  - WR05.3 RECLAMATION PLAN
  - WR05.4 RECLAMATION PLAN
  - WR06.3 DETAILS
  - WR06.4 DETAILS

**WILLIAM RITCHEA WTZ PAD  
CONSTRUCTION AND RECLAMATION PLAN  
AS-BUILT  
PROCTOR DISTRICT, WETZEL COUNTY, WV  
APRIL 2018**



**100**

TOTAL DISTURBED AREA: 12.2 ACRES  
ROAD DISTURBED AREA: 3.2 ACRES  
PAD DISTURBED AREA: 9.0 ACRES

**ENGINEERING ESTIMATE OF QUANTITIES**

WELL SITE PAD DATA (DRILLING)	
INITIAL STANDARD SUMP	2 EA
STONE FOR PAD AREA	100 TON
GRADE TO ILLUMINATE STANDING WATER	1 LS
REPAIR BERM	1 LS
SEED & MULCH (BERMS)	250 SY
REPAIR RAMP	1 EA

ACCESS ROAD DATA (DRILLING)	
2" 3" AGGREGATE (POTHOLES)	40 TON
CRUSHER RUN	40 TON
GRADE ROAD & STAGING AREA	1 LS
STONE FOR STAGING AREA	40 TON
15" HDPE CULVERT FOR STAGING AREA	80 FT

WELL SITE PAD DATA (RECLAMATION)	
REMOVE SUMP	4 EA
BREACH BERM	4 EA
DISCHARGE CHANNELS	
RIPIRAP	180 TON
OH	
EROSION CONTROL FABRIC	200 SY
SPREAD TOPSOIL	2,600 CB
REINFORCED SILT FENCE	1,800 FT
SEED & MULCH	15,600 SY

**COORDINATES:**  
WILLIAM RITCHEA 1H  
AP147-103-03128H  
(NAD83)  
LAT: 39.670804  
LONG: 80.663337

**AL RITCHEA PAD**  
(NAD83)  
LAT: 39.669554  
LONG: 80.659546

**CENTER OF PAD**  
(NAD83)  
LAT: 39.669560  
LONG: 80.659179

**GATHERING AREA**  
(NAD83)  
LAT: 39.670878  
LONG: 80.663452

**EXISTING WELLS:**  
WILLIAM RITCHEA 2H  
AP147-103-03128H  
(NAD83)  
LAT: 39.669602  
LONG: 80.659388

WILLIAM RITCHEA 3H  
AP147-103-03129H  
(NAD83)  
LAT: 39.669598  
LONG: 80.659338

WILLIAM RITCHEA 201H  
AP147-103-03130H  
(NAD83)  
LAT: 39.669606  
LONG: 80.659438

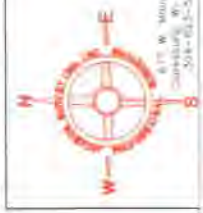
WILLIAM RITCHEA 610H  
AP147-103-03141H  
(NAD83)  
LAT: 39.669514  
LONG: 80.658999

**WVDEP DRG  
ACCEPTED AS-BUILT**  
Updated  
4/17/2023



Joshua R. Cook RPE 11950

Date  
04-27-2018



611 W. Main St.  
Martinsburg, WV 26151  
Tel: 304-263-5231

REVISION	DATE

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG! 800.245.6848

**SWM**  
Production Company™

*Jackson Surveying Inc.*  
TITLE SHEET  
TS-1

SOUTHWESTERN PRODUCTION COMPANY LLC  
WILLIAM RITCHEA WTZ PAD  
PROCTOR DISTRICT, WETZEL COUNTY, WV  
APRIL 27, 2018

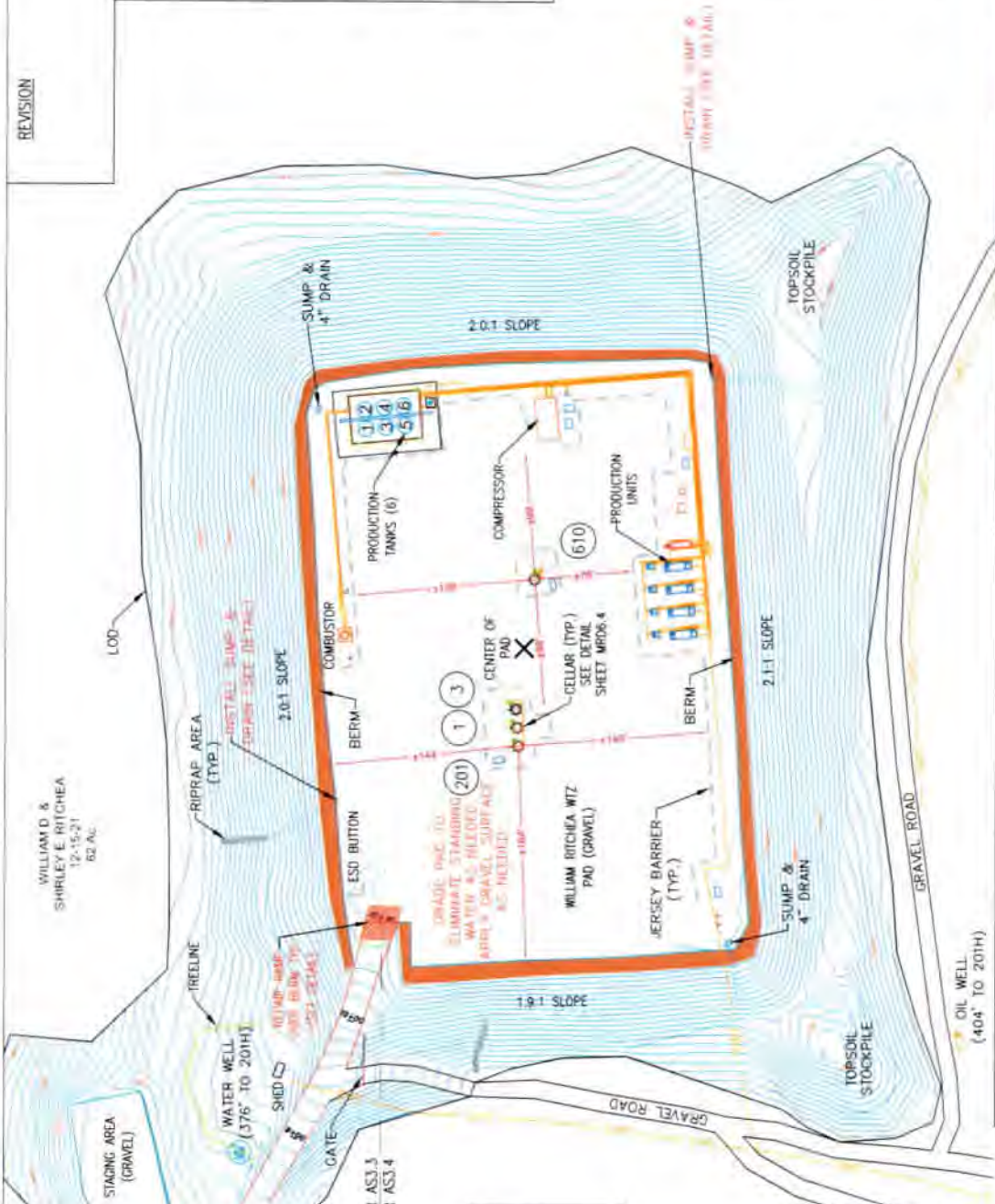
04/21/2023

4710303575

REVISION	DATE
----------	------

**EXISTING WELLS:**  
 WILLIAM RITCHEA 1H  
 API:47-103-03128H  
 (NA083)  
 LAT: 39.669602  
 LONG: 80.659388  
 WILLIAM RITCHEA 3H  
 API:47-103-03129H  
 (NA083)  
 LAT: 39.669598  
 LONG: 80.659338  
 WILLIAM RITCHEA 201H  
 API:47-103-03130H  
 (NA083)  
 LAT: 39.669606  
 LONG: 80.659438  
 WILLIAM RITCHEA 610H  
 API:47-103-03141H  
 (NA083)  
 LAT: 39.669514  
 LONG: 80.658999

**COORDINATES:**  
 SITE ENTRANCE  
 (NA083)  
 LAT: 39.670804  
 LONG: 80.663337  
 AT RITCHEA PAD  
 (NA083)  
 LAT: 39.669954  
 LONG: 80.659848  
 CENTER OF PAD  
 (NA083)  
 LAT: 39.669560  
 LONG: 80.659179  
 GATHERING AREA  
 (NA083)  
 LAT: 39.670678  
 LONG: 80.664452



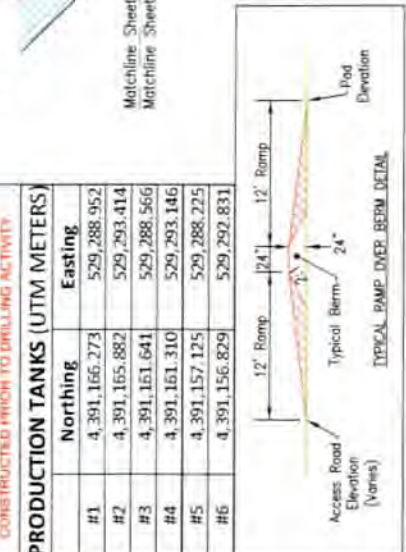
WILLIAM D & SHIRLEY E RITCHEA  
 12-15-21  
 62 AC

**LEGEND -**

- EDGE ACCESS ROAD
- PUBLIC/Private ROAD
- LOD
- CHAIN LINK FENCE
- DITCH/DRAIN
- PROPERTY LINES
- CL ACCESS ROAD
- CONTOUR MAJOR (ASBUILT)
- CONTOUR MINOR (ASBUILT)
- WATER WELL

**PRODUCTION TANKS (UTM METERS)**

	Northing	Easting
#1	4,391,166,273	529,288,952
#2	4,391,165,882	529,293,414
#3	4,391,161,641	529,288,566
#4	4,391,161,310	529,293,146
#5	4,391,157,125	529,288,725
#6	4,391,156,829	529,292,831



WILLIAM D & SHIRLEY E RITCHEA  
 12-15-21  
 62 AC

**Jackson Surveying Inc.**  
 CONSTRUCTION AND RECLAMATION  
 ASBUILT  
 AS3.4  
 SOUTHWESTERN PRODUCTION COMPANY LLC  
 WILLIAM RITCHEA WTZ PAD  
 PROCTOR DISTRICT, WETZEL COUNTY, WV  
 APRIL 27, 2018

04-27-2018 Date

Joshua R Cook RPK P7960

OSHA 1910.101

OSHA 1910.102

OSHA 1910.103

OSHA 1910.104

OSHA 1910.105

OSHA 1910.106

OSHA 1910.107

OSHA 1910.108

OSHA 1910.109

OSHA 1910.110

OSHA 1910.111

OSHA 1910.112

OSHA 1910.113

OSHA 1910.114

OSHA 1910.115

OSHA 1910.116

OSHA 1910.117

OSHA 1910.118

OSHA 1910.119

OSHA 1910.120

**SWN** Company

Produced by

1" = 90'

90 0 90

WVDEP 000  
 ACCEPTED AS-BUILT  
 Updated  
 4/17/2023

04/21/2023



# WILLIAM RITCHEA WTZ PAD CONSTRUCTION AND RECLAMATION PLAN AS-BUILT PROCTOR DISTRICT, WETZEL COUNTY, WV APRIL 2018

COORDINATES: SITE ENTRANCE (NAD83)	EXISTING WELLS: WILLIAM RITCHEA 1H APR47-103-03128H (NAD83)
LAT: 39.670804	LAT: 39.669602
LONG: 80.653337	LONG: 80.659399
AT RITCHEA PAD (NAD83)	WILLIAM RITCHEA 3H APR47-103-03129H (NAD83)
LAT: 39.669954	LAT: 39.669598
LONG: 80.659848	LONG: 80.659338
CENTER OF PAD (NAD83)	WILLIAM RITCHEA 201H APR47-103-03130H (NAD83)
LAT: 39.669560	LAT: 39.669606
LONG: 80.659179	LONG: 80.659439
GATHERING AREA (NAD83)	WILLIAM RITCHEA 610H APR47-103-03141H (NAD83)
LAT: 39.670678	LAT: 39.669514
LONG: 80.663452	LONG: 80.658999

TOTAL DISTURBED AREA: 12.2 ACRES  
ROAD DISTURBED AREA: 3.2 ACRES  
PAD DISTURBED AREA: 9.0 ACRES

100

ENGINEERING ESTIMATE OF QUANTITIES	
WELL SITE PAD DATA (DRILLING)	
INSTALL STANDARD SUMP	2 EA
STONE FOR PAD AREA	100 TON
GRADE TO ELIMINATE STANDING WATER	1 LS
REPAIR BERM	1 LS
SEED & MULCH (BERMS)	250 SY
REPAIR RAMP	1 EA
ACCESS ROAD DATA (DRILLING)	
2'-3" AGGREGATE (POTHOLS)	40 TON
CRUSHER RUN	40 TON
GRADE ROAD & STAGING AREA	1 LS
STONE FOR STAGING AREA	40 TON
15" HOPE CURVERT FOR STAGING AREA	60 FT
WELL SITE PAD DATA (RECLAMATION)	
REMOVE SUMP	4 EA
BREACH BERM	4 EA
DISCHARGE CHANNEL(S)	180 TON
RIPPAP	
OR	
EROSION CONTROL FABRIC	200 SY
SPREAD TOPSOIL	2,600 CY
REINFORCED SILT FENCE	1,800 FT
SEED & MULCH	13,600 SY

SHEET INDEX	
TS1. TITLE SHEET	
EP2.1 EVACUATION ROUTE/ PREWILING AND	
AS3.1 ASBUILT OVERVIEW	
AS3.2 ASBUILT	
AS3.3 ASBUILT	
AS3.4 ASBUILT	
ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE	
MR05.1 RECLAMATION PLAN OVERVIEW	
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MR05.4 RECLAMATION PLAN	
MR06.3 DETAILS	
MR06.4 DETAILS	

04/21/2018

REVISION	DATE

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG! 800.245.4848

**SWM** *RE-A-V+*  
Production Company™

*Arnold E. Reynolds 7-7-22*

*Jackson Surveying Inc.*

TITLE SHEET  
TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC.  
WILLIAM RITCHEA WTZ PAD  
PROCTOR DISTRICT, WETZEL COUNTY, WV  
APRIL 27, 2018



Joshua R. Cook RPE 11950

04-27-2018  
Date:



677 W. Main St.  
Charleston, WV 26301  
304-623-5051

*3/19/23*

EXISTING WELLS:  
 WILLIAM RITCHEA 1H  
 API:47-103-03128H  
 (NAD83)  
 LAT: 39.669802  
 LONG: 80.659398

WILLIAM RITCHEA 3H  
 API:47-103-03129H  
 (NAD83)  
 LAT: 39.669598  
 LONG: 80.659338

WILLIAM RITCHEA 201H  
 API:47-103-03130H  
 (NAD83)  
 LAT: 39.669806  
 LONG: 80.659438

WILLIAM RITCHEA 610H  
 API:47-103-03141H  
 (NAD83)  
 LAT: 39.669514  
 LONG: 80.659999

COORDINATES:  
 SITE ENTRANCE  
 (NAD83)  
 LAT: 39.670804  
 LONG: 80.663337

AT RITCHEA PAD  
 (NAD83)  
 LAT: 39.669954  
 LONG: 80.659848

CENTER OF PAD  
 (NAD83)  
 LAT: 39.669560  
 LONG: 80.659179

GATHERING AREA  
 (NAD83)  
 LAT: 39.670678  
 LONG: 80.663452



NOTE: PROPERTY LINES AND OWNERSHIP PROVIDED BY SWM.

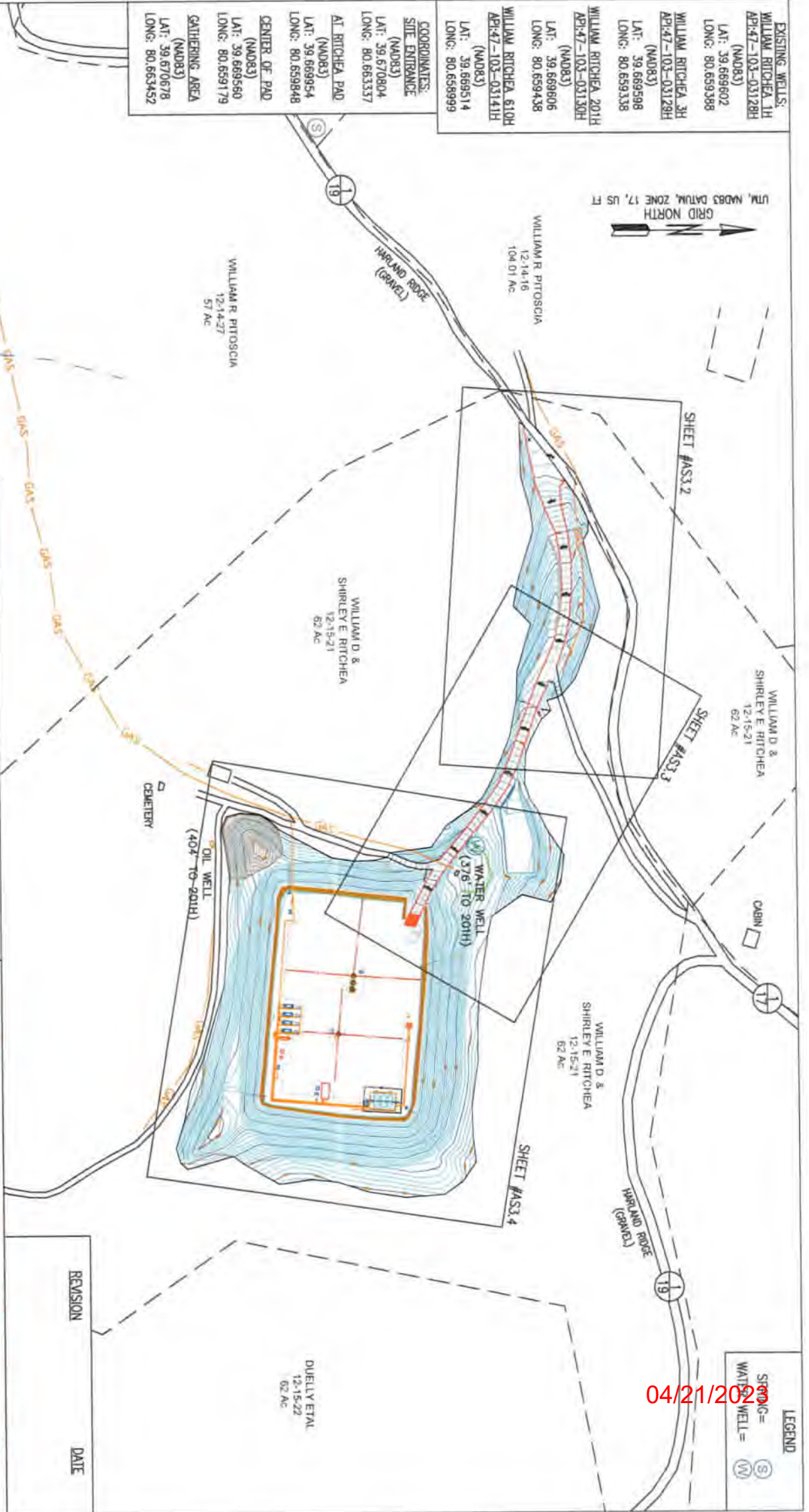


Joshua R. Cook RPE 17990  
 Date: 04-27-2018



**Jackson Surveying Inc.**  
 CONSTRUCTION AND RECLAMATION  
 AS-BUILT OVERVIEW  
 ASS.1  
 SOUTHWESTERN PRODUCTION COMPANY LLC.  
 WILLIAM RITCHEA WTZ PAD  
 PROCTOR DISTRICT, WETZEL COUNTY, WV  
 APRIL 27, 2018

*JMB*  
 3/19/23



LEGEND

SYMBOL	DESCRIPTION
(S)	SYMBOL = WATER WELL
(W)	SYMBOL = OIL WELL

REVISION	DATE

DUELLEY ETAL  
 12-15-22  
 62 AC

04/21/2023